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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Venkatraman RAMAKRISHNAN et al.

Serial No.: 09/904,779

Filing Date: July 13, 2001

For: CRYSTAL STRUCTURE OF THE 30S
RIBOSOME AND ITS USE

Examiner: To Be Assigned

Group Art Unit: 1744

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Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

The filing papers claimed priority under 35 U.S.C. § 119(d) on the basis of United Kingdom patent applications no. 0017376.5, filed on July 14, 2000 and 0022943.5, filed on September 19, 2000. Pursuant to 35 U.S.C. § 1.19(d), a certified copy of said United Kingdom patent applications are submitted herewith, thereby perfecting the priority claim.

- ☒ The issue-fee has not become due for this application.
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The Assistant Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. §§ 1.16 and 1.17 that may be required by this submission, or to credit any overpayment, to **Deposit Account No. 03-1952.**

Dated: January 15, 2002

Respectfully submitted,

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CRYSTAL STRUCTURE

Field of the Invention

The present invention relates to the provision of a high resolution crystal structure of the prokaryotic 30S ribosome subunit, and the use of this structure in drug discovery.

Background of the Invention

Translation of the genetic code into proteins occurs on the ribosome, a large nucleoprotein complex consisting of two subunits. In bacteria, the two subunits are denoted as 30S and 50S. The 50S subunit contains the site of peptidyl transferase, while codon-anticodon pairing between mRNA and tRNA takes place in the 30S subunit. The 30S subunit is composed of 21 proteins, termed S1 to S21, and a 16S RNA molecule.

Protein synthesis involves many complex steps to combine speed with accuracy. It also involves the participation of various factors and hydrolysis of GTP during each of the main stages of initiation, elongation and termination. Despite several decades of work, the molecular details of the process are still poorly understood, and the structure of the ribosome is one of the fundamental problems in molecular biology today. A recent collection of articles summarizes the state of understanding of the field ¹.

A major contribution to the problem was made by Yonath and coworkers, who after nearly a decade of work showed that structures as large as the 50S ribosomal subunit would crystallize and diffract beyond 3 Å resolution ², and also that cryocrystallography was essential for data collection on the

ribosome ³. Originally, it was not clear that phases from such a large asymmetric unit could be obtained to high resolution. However, the determination of the crystal structure of F1-ATPase ⁴ suggested that even structures as large as the ribosome could be solved by standard crystallographic methods. Concrete evidence in support of this view was obtained when heavy atom clusters could be visualized directly in difference Patterson maps of the 50S subunit, and recognizable features such as double-helical segments of RNA could be seen in electron density maps ⁵. The development of bright, tunable synchrotron radiation, large and accurate area detectors, vastly improved crystallographic computing and the use of cryocrystallography have all contributed to making progress on the ribosome more tractable. In our case, the use of anomalous scattering from LIII edges of lanthanides and osmium has also played a critical role in obtaining phases.

The 30S ribosomal subunit (hereafter referred to as 30S) from *Thermus thermophilus* was originally crystallized in both 2-methyl-2,4-pentanediol (MPD) ⁶ and in a mixture of butanol and ethanol ⁷. Subsequent work showed that the MPD form diffracted to about 9-12 Å resolution ^{8,9}. The diffraction limit of these crystals did not improve beyond 7 Å resolution for almost a decade, but more recently both Yonath and coworkers ^{10,11} and we ¹² obtained crystals of the MPD form that diffract significantly better. Since both results are improvements of the original MPD form, not surprisingly, they have the same spacegroup and similar cell dimensions. However, there are also significant differences: Unlike the crystals obtained by the Yonath group ¹¹, our crystals do not undergo a transformation from a low to high resolution form as a result of exposure to tungsten clusters, nor do they require heat activation of the crystals to obtain a high proportion that diffract well. Thus it is possible that real differences between the two structures exist.

Last year, we described the structure of the 30S at 5.5 Å resolution ¹². That work established that it was possible to place those individual proteins whose structures had been determined in isolation in electron density maps of the whole
5 30S subunit. We were thus able to place all seven proteins whose structures were known at the time, infer the structure of protein S20 to be a three-helix bundle, and also trace the fold of the central domain and much of the 3' minor domain of 16S RNA. Proteins S5 and S7 were also identified in electron density
10 maps of the 30S obtained by Yonath and coworkers ¹¹.

The 30S ribosomal subunit is a major target for antibiotics. The ribosome is a useful target for antibiotics since the structure of the 30S is widely conserved between prokaryotes, allowing for broad spectrum antibiotics. However, resistance to
15 current antibiotics is currently a major problem in the field of medicine. There are presently very few new antibiotics available which can be used to treat the highly resistant strains of bacteria such as MRSA (methicilin resistant Staphylococcus aureus) which are becoming increasingly
20 widespread.

Understanding the interaction of antibiotics with the ribosome at the molecular level is important for two reasons. Firstly, antibiotics act by interfering with various aspects of ribosome function. Thus understanding their interaction will help shed
25 light on mechanisms involved in translation. Secondly, a detailed knowledge of antibiotic interactions with the ribosome could aid the development of new drugs against increasingly resistant strains of bacteria. Although antibiotics were characterized several decades ago, a detailed knowledge of their
30 mechanism will in general require a three-dimensional structure of their complex with the ribosome.

The low (greater than 3Å resolution) crystal structures

described above do not provide sufficiently detailed resolution for useful modelling of the crystal structure of the 30S and there is thus a need for a high resolution structure which can be used usefully in the development of novel therapeutics.

5 Summary of the Invention

We have now solved and refined the structure of the 30S at 3 Å resolution. The structure contains all of the ordered regions of 16S RNA and 20 associated proteins, and contains over 99% of the RNA sequence and 95% of the protein sequences, with the missing parts being exclusively at the termini of RNA or polypeptide chains. Here we describe the overall architecture and the main structural features of the 30S subunit. In accompanying examples, we further describe functional insights gleaned from the structure and the location of antibiotics bound to the 30S.

15 In a first aspect, the present invention provides a crystal of the *Thermus thermophilus* 30S subunit having a tetragonal space group $P4_12_12$ with unit cell dimensions of $a = 401.375$, $b = 401.375$, $c = 175.887$ Å. An advantageous feature of the structure is that it diffracts beyond 3Å resolution. Another feature of the structure is that it was obtained in a method which did not involve the use of heavy atom clusters or heat activation. Furthermore, it is specifically of the 885-888/910-912 base pairing confirmation of 16S RNA. These features, both singly and in combination all contribute to features of the invention which are advantageous.

In a second aspect, the invention also provides a crystal of 30S having the three dimensional atomic coordinates of Table 1 or Table 2, the data of Table 2 optionally further including the data of one or more of Tables 3 to 5.

30 We have also observed that 30S crystals do not contain the S1

subunit protein. In our studies, we have found that by selectively removing this protein prior to crystallization, we have been able to obtain the improved resolution described herein. Although the atomic co-ordinates provided in Tables 1 and 2 (the data of Table 2 optionally including one or more of the data of Tables 3 to 5) below allow those of skill in the art to bypass the need to undertake the crystallization of the 30S, this crystallization method nonetheless forms a further aspect of the invention.

Accordingly, there is provided a method for crystallizing a the 30S subunit to obtain a high resolution structure of a 30S subunit, which method comprises providing a 30S subunit, selectively removing the S1 subunit therefrom and crystallizing the 30S. The crystallization conditions may comprises the use of 13-17% methyl-2,4-pentanediol in the presence of 250 mM KCl, 75 mM ammonium chloride, 15 mM MgCl₂ at a pH of 6.5 in sodium cacodylate or MES (2-(N-morpholino)ethane sulphonic acid). Crystals may be grown over a period of 4-8 weeks at about 4°C. Crystals obtainable by such a method are also a further aspect of the invention.

This methodology provides those of skill in the art a means to provide 30S crystals of *T.thermophilus*. The conservation of ribosome structure, particularly regions of structure essential for function, between prokaryotes, for example prokaryotes which are human pathogens, such as *Staphylococcus* spp, and the like, allows the structure herein to be useful in the provision of anti-bacterial agents in general.

The crystals may be grown by any suitable method known as such to those of skill in the art. The structure of the crystals so obtained may be resolved to a resolution of at least 3Å.

In a further aspect, the present invention provides a method for

identifying a potential inhibitor of the 30S comprising the steps of:

- a. employing a three-dimensional structure of 30S, or at least one sub-domain thereof, to characterise at least one active site, the three-dimensional structure being defined by atomic coordinate data according to Table 1 or 2 (the data of Table 2 optionally including one or more of the data of Tables 3 to 5); and
- b. identifying the potential inhibitor by designing or selecting a compound for interaction with the active site.

The term "sub-domain" includes the following:

at least one complete element of secondary structure, i.e. an alpha helix or a beta sheet, or RNA helix, as described in the detailed description below;

a group of two or more such elements which interact with each other;

at least one subunit protein;

a subgroup of subunit proteins, for example a group which includes two or more proteins which are found to interact with each other;

any of the above, when being protein or element thereof being used in conjunction with all or part of the 16S RNA structure associated with said elements or proteins.

An active site of the 30S is any part of this structure involved in tRNA or mRNA binding, synthesis or translocation, including regions of the complex not directly associated with tRNA or mRNA binding but which are required for the ribosome to function, for example those regions which undergo structural changes associated with protein synthesis or are target sites for regulation by co-factors, phosphorylation or acetylation.

Particular regions of the 30S include those identified herein as antibiotic binding regions based on the data provided in Tables

3 to 5.

Regions further include any one of the subunit proteins S2 to S21, including any of the individually identified subunit proteins in the accompanying examples.

- 5 In any event, the determination of the three-dimensional structure of 30S provides a basis for the design of new and specific ligands for 30S. For example, knowing the three-dimensional structure of 30S, computer modelling programs may be used to design different molecules expected to interact with
10 possible or confirmed active sites, such as binding sites or other structural or functional features of 30S.

More specifically, a potential modulator of 30S activity can be examined through the use of computer modelling using a docking program such as GRAM, DOCK, or AUTODOCK (see Walters et al.,
15 *Drug Discovery Today*, Vol.3, No.4, (1998), 160-178, and Dunbrack et al., *Folding and Design*, 2, (1997), 27-42) to identify potential inhibitors of 30S. This procedure can include computer fitting of potential inhibitors to 30S to ascertain how well the shape and the chemical structure of the potential
20 inhibitor will bind to the enzyme.

Also computer-assisted, manual examination of the active site structure of 30S may be performed. The use of programs such as GRID (Goodford, *J. Med. Chem.*, 28, (1985), 849-857) - a program that determines probable interaction sites between molecules
25 with various functional groups and the enzyme surface - may also be used to analyse the active site to predict partial structures of inhibiting compounds.

Computer programs can be employed to estimate the attraction, repulsion, and steric hindrance of the two binding partners
30 (e.g. the 30S and a potential stabilizer). Generally the

tighter the fit, the fewer the steric hindrances, and the greater the attractive forces, the more potent the potential modulator since these properties are consistent with a tighter binding constant. Furthermore, the more specificity in the design of a potential drug, the more likely it is that the drug will not interact with other proteins as well. This will tend to minimise potential side-effects due to unwanted interactions with other proteins.

Having designed or selected possible binding partners, these can then be screened for activity. Consequently, the method preferably further comprises the further steps of:

- c. obtaining or synthesising the potential inhibitor; and
- d. contacting the potential inhibitor with 30S to determine the ability of the potential inhibitor to interact with 30S.

More preferably, in step d. the potential inhibitor is contacted with 30S under conditions to determine its function, for example in a cell free translation system.

Instead of, or in addition to, performing such an assay, the method may comprise the further steps of:

- c. obtaining or synthesising said potential inhibitor;
- d. forming a complex of 30S and said potential inhibitor; and
- e. analysing said complex by X-ray crystallography to determine the ability of said potential inhibitor to interact with 30S. Detailed structural information can then be obtained about the binding of the potential inhibitor to 30S, and in the light of this information adjustments can be made to the structure or functionality of the potential inhibitor, e.g. to improve binding to the active site. Steps c. to e. may be repeated and re-repeated as necessary.

Another aspect of the invention includes a compound which is

identified as an inhibitor of 30S by the method of the above aspects of the invention.

In another aspect, the invention provides a method of analysing a 30S-ligand complex comprising the step of employing (i) X-ray
5 crystallographic diffraction data from the 30S-ligand complex and (ii) a three-dimensional structure of 30S, or at least one sub-domain thereof, to generate a difference Fourier electron density map of the complex, the three-dimensional structure being defined by atomic coordinate data according to Table 1 or
10 2 (the data of Table 2 optionally including one or more of the data of Tables 3 to 5).

Therefore, 30S-ligand complexes can be crystallised and analysed using X-ray diffraction methods, e.g. according to the approach described by Greer et al., *J. of Medicinal Chemistry*, Vol. 37,
15 (1994), 1035-1054, and difference Fourier electron density maps can be calculated based on X-ray diffraction patterns of soaked or co-crystallised 30S and the solved structure of uncomplexed 30S. These maps can then be used to determine whether and where a particular ligand binds to 30S and/or changes the conformation
20 of 30S.

Electron density maps can be calculated using programs such as those from the CCP4 computing package (Collaborative Computational Project 4. The CCP4 Suite: Programs for Protein Crystallography, *Acta Crystallographica*, D50, (1994), 760-763.).
25 For map visualisation and model building programs such as "O" (Jones et al., *Acta Crystallography*, A47, (1991), 110-119) can be used.

In a further aspect, the present invention provides computer readable media with either (a) atomic coordinate data according
30 to Table 1 or 2 (the data of Table 2 optionally including one or more of the data of Tables 3 to 5) recorded thereon, said data

defining the three-dimensional structure of 30S or at least one sub-domain thereof, or (b) structure factor data for 30S recorded thereon, the structure factor data being derivable from the atomic coordinate data of Table 1 or 2 (the data of Table 2 optionally including one or more of the data of Tables 3 to 5).

As used herein, "computer readable media" refers to any media which can be read and accessed directly by a computer. Such media include, but are not limited to: magnetic storage media such as floppy discs, hard disc storage medium and magnetic tape; optical storage media such as optical discs or CD-ROM; electrical storage media such as RAM and ROM; and hybrids of these categories such as magnetic/optical storage media.

By providing such computer readable media, the atomic coordinate data can be routinely accessed to model 30S or a sub-domain thereof. For example, RASMOL is a publicly available computer software package which allows access and analysis of atomic coordinate data for structure determination and/or rational drug design.

On the other hand, structure factor data, which are derivable from atomic coordinate data (see e.g. Blundell et al., in *Protein Crystallography*, Academic Press, New York, London and San Fransisco, (1976)), are particularly useful for calculating e.g. difference Fourier electron density maps.

In another aspect, the present invention provides systems, particularly a computer systems, intended to generate structures and/or perform rational drug design for 30S or 30S ligand complexes, the systems containing either (a) atomic coordinate data according to Table 1 or 2 (the data of Table 2 optionally including one or more of the data of Tables 3 to 5), said data defining the three-dimensional structure of 30S or at least one sub-domain thereof, or (b) structure factor data for 30S, said

structure factor data being derivable from the atomic coordinate data of Table 1 or 2 (the data of Table 2 optionally including one or more of the data of Tables 3 to 5).

Examples of such systems are microcomputer workstations
5 available from Silicon Graphics Incorporated and Sun Microsystems running Unix based, Windows NT or IBM OS/2 operating systems.

As used herein, "a computer system" refers to the hardware means, software means and data storage means used to analyse the
10 atomic coordinate data of the present invention. The minimum hardware means of the computer-based systems of the present invention comprises a central processing unit (CPU), input means, output means and data storage means. Desirably a monitor is provided to visualise structure data. The data storage means
15 may be RAM or means for accessing computer readable media of the invention.

The present high resolution structure of 30S provides a means to address the problems of antibiotic resistance in prokaryotes which are resistant to antibiotics known to act on the 30S,
20 including paromomycin, streptomycin and spectinomycin. The data of Table 2 in conjunction with one or more of the data of Tables 3 to 5 provides high resolution of the site of action of these antibiotics. Mutant strains resistant to the action of these antibiotics can arise through mutation of a protein subunit of
25 the 30S or through mutation in the 16S RNA. As indicated in the accompanying examples, the sites of mutations in some cases are known or can be identified. Where such sites are identified through, for example, primary sequence data, the invention provides a means to model the structure of the mutants.

30 There is thus provided a method which comprises providing the structure of the 30S ribosome of Table 1 or Table 2 (the data of

Table 2 optionally including one or more of the data of Tables 3 to 5), changing one amino acid or nucleotide of said structure to provide a mutant 30S, and modelling the structure of the mutant 30S to provide a structure of the mutant. The mutant may be used in the manner described above for the wild type, e.g. stored in computer readable form, modelled to provide ligands, and the like. The modelling may be based upon the predicted behaviour of the atoms of the changed amino acid based upon its interaction with the surrounding atoms in the model provided herein.

This process may be iterative, e.g. to produce successive mutations into the 30S structure, for example 2, 3, 4, or 5 to 10 mutations.

Regions of 30S which may be subject to this aspect of the invention include those regions identified in the accompanying examples as regions of the 30S involved in ribosome function or in resistance to antibiotics.

The invention is illustrated below by the following examples 1 to 3, their accompanying Figures and the tables 1 to 7. In Tables 1 and 2, there is shown in each row Atom number, element type, residue (amino acid, nucleotide, etc), number in molecule (for proteins N to C terminal direction, for nucleic acid 5' to 3' direction), X, Y and Z co-ordinates, occupancy, B factor (\AA^2) and an identifier for the member of the 30S (e.g. for the subunits in the format "A"S"n" where A is an arbitrary letter, different for each member, S is the subunit and n is the subunit number; and for the 16S as "A16S"). Tables 3 to 5 provide the X, Y and Z coordinates of the defined atoms of the antibiotics mentioned therein.

Example 1

The crystal structure of the 30S ribosomal subunit has been solved and refined to 3 Å resolution. The final atomic model rationalizes over four decades of biochemical data on the ribosome, and provides a wealth of information about RNA and protein structure, protein-RNA interactions and ribosome assembly. It also provides a firm structural basis for the analysis of functional roles of the 30S subunit such as decoding, and for understanding the basis of antibiotic action. The structure will also provide the basis for interpretation of lower resolution structural data on functional states of the ribosome from electron microscopy and crystallography.

Materials and Methods:

Crystallization of the 30S

Because we observed that the 30S crystals completely lacked ribosomal protein S1, care was taken to remove S1 selectively from the 30S prior to crystallization. Crystals were obtained in 13-17% MPD over a range of pH in the salt and magnesium conditions described by Trakhanov et al.(6). The crystals were largest and most reproducibly obtained at a pH of 6.5 in 0.1 M cacodylate or MES buffer. Crystals took approximately 6 weeks at 4 °C to grow to their maximum size. The largest crystals, which were required for high resolution data collection, grew to a size of 80-100 × 80-100 × 200-300 microns. The activity of redissolved crystals in poly(U)-directed protein synthesis was comparable to that of freshly isolated 30S subunits.

Data collection

Crystals were transferred to 26% MPD by vapor diffusion in two steps over a period of 6 days. All crystals (except for those soaked in osmium hexammine or osmium pentammine) also contained 1 mM cobalt hexammine in the cryoprotectant. Crystals were

flash-cooled by plunging into liquid nitrogen, and data collection was done in a cryostream at 90-100 K.

5 A large fraction of crystals was screened at beamlines 9.6 or 14.1 at the SRS at Daresbury Laboratories, using two short exposures at least 40 degrees apart. These crystals were then analyzed for diffraction limits, cell dimensions and mosaic spread. Only crystals of similar cell dimensions and with reasonable mosaic spread were used for data collection.

10 Potential derivatives were screened on beamlines X25 at the NSLS at Brookhaven National Laboratory and BM-14 at the ESRF (Grenoble). Data to about 4.5 Å were obtained from X25. High resolution data were collected at SBC ID-19 at the APS in Argonne National Laboratory, and ID14-4 at the ESRF. In all cases, derivative data were collected at the peak of the
15 fluorescence at the LIII edge to maximize anomalous differences. At X25 and SBC ID-19, the kappa goniostat was used to rotate precisely about a mirror plane so that small anomalous differences could be measured accurately. Each crystal typically yielded 3-10 degrees of data. Data were integrated and scaled
20 using HKL-2000 (13).

Structure determination

Previously determined phases at 5.5 Å (12) were used to locate heavy atom sites using anomalous difference Fourier maps. Initially, these sites were used for phasing to 3.35 Å using the
25 program SOLVE (14), followed by density modification with SOLOMON (15), using the procedure implemented in SHARP (16). Optimization of the various parameters in the procedure was required to obtain interpretable maps. The RNA and some of the proteins were built using the SOLVE maps. The sequence of
30 *Thermus thermophilus* 16S RNA (17) was used for the structure.

For proteins, a combination of previously published sequences and new ones from the Göttingen *Thermus* genome sequencing project were used. Improved maps were obtained by calculating experimental phases to 3.2 Å using SHARP (16) followed by
5 density modification and phase extension to 3.05 Å with DM (18). The improved maps allowed us to build all the ordered parts of the structure. The model was built using O (19), and refined using the program CNS (20). Maximum likelihood refinement was used, initially with both amplitudes and experimental phase
10 probability distributions to 3.35 Å, and subsequently with amplitudes to 3.05 Å.

Results

The 30S subunit from *Thermus thermophilus* consists of a 1522 nucleotide 16S ribosomal RNA (17) and 21 associated proteins, of
15 which 20 have known counterparts in *E. coli*. Protein S21 is not present in *Thermus*, and protein S1 has been removed from the 30S prior to our crystallization. In addition, a 26 residue peptide, Thx, is present in *Thermus* 30S subunits (21).

The quality of the data and phasing statistics are shown in
20 Table 6(a and b). Experimentally phased maps clearly showed main chain density for RNA and protein, individual bases (which were often of sufficient quality to distinguish purines from pyrimidines), and large well-ordered side chains of proteins (Fig.1). These maps were used to build 16S RNA and the
25 previously unknown proteins S2, S3, S9, S10, S11, S12, S13, S14 and Thx. In addition, regions that were disordered in isolated structures or had changed significantly were also built. This often consisted of significant portions of the N- and C-terminal tails of the proteins, sometimes including entire domains that
30 were unfolded in isolation. Proteins with small cores and long loops, such as S16 and S17, had to be substantially rebuilt, since these loops were generally disordered in the solution NMR

structures. Finally, the entire structure was rebuilt after an initial round of refinement. Our current model consists of nucleotides 5-1511 of *Thermus thermophilus* 16S RNA

(corresponding to 5-1534 of *E. coli* 16S RNA) and all of the ordered regions of the associated 20 proteins. The current model has been refined against 3.05 Å data with a conventional R-factor of 0.213, a free R-factor of 0.256 and good geometry (Table 6c). For the proteins, 94% of the residues were in the core or allowed regions of the Ramachandran plot, 3.9% in the generously allowed region and 1.8% in the disallowed region.

Overview of the 30S subunit

Throughout this paper, we use the numbering system for *E. coli* 16S RNA, as well as the standard helix numbering, denoted H1-H45, for the secondary structure elements (22) with some modifications as shown in Fig. 2a. The most significant differences between the *E. coli* and *T. thermophilus* sequences are a shorter H6 and H10, and insertions in H9 and H33a. Any insertions in *T. thermophilus* relative to *E. coli* are indicated in the coordinates with an insertion letter after the nucleotide number, following the practice for tRNA.

The overall shape of the 30S is very similar to the classical model derived from negatively stained EM samples and to more recent cryo-EM reconstructions (23). The standard view, shown in Fig. 2b, clearly shows the head with a beak pointing leftwards, and a body with the platform to its top right and shoulder to its top right. These features have nearly identical shapes to their EM counterparts. The overall shape of the subunit is determined by the shape of the RNA component; none of the gross morphological features are all protein. As seen in Fig. 2b, individual secondary structure domains make up each of the morphological features, a feature which was also deduced in previous modelling studies (22,24,25). The 5' domain (fpd) makes

up the bulk of the body; the central domain (cd) is most of the platform; and the 3' major domain (tpd) constitutes the bulk of the head. The 3' minor domain (tmd) is the only significant exception to this rule, as it is part of the body at the subunit interface.

The four domains of the 16S rRNA secondary structure radiate from a central point (Fig. 2c and d). In the crystal structure, this central point is found in the neck region of the subunit, around the base of the head. The four domains are especially tightly associated in this area. The W-shaped central domain wraps its outer arms around the fpd and tmd domains. The long arm of the central domain reaches around and packs against fpd. The other outer arm of the central domain wraps around the tmd.

The structure of the RNA

15 Overview

The secondary structure of 16S ribosomal RNA contains forty-five double helices connected by short single-stranded segments. In the crystal structure, many of these helices are coaxially stacked with a helix neighboring in the sequence. There are 13 groups of coaxially stacked helices and 23 unstacked helices in 16S rRNA, for a total of 36 helical elements. There are three different types of helix-helix packing. Most of the helical elements are packed in a minor groove to minor groove fashion, which often requires distortions from canonical A-form helical geometry in one of the two helices. Adenosines from internal loops or from hairpin loops often mediate docking against an A-form double helix, with a dense network of base-2' OH and 2' OH - 2' OH hydrogen bonds stabilising the packing (Fig. 3a). Less often, helix-helix packing occurs in a different mode, by insertion of a ridge of phosphates into a complementary minor groove of another helix (Fig. 3b). This packing mode is

stabilized by hydrogen bonds between the ridge of phosphate oxygens and a layer of 2' OH and guanine base NH₂ groups. These guanine N₂ groups are often made more accessible by the geometry of G-U pairs, which places this moiety farther into the minor groove than do Watson-Crick pairs. Finally, the rare end-on mode of interhelical packing uses a purine base to mediate the perpendicular packing of one helix against the minor groove of another helix (Fig. 3c). All three modes of helix-helix packing are further stabilized by idiosyncratic interactions between double-helical RNA and short non-helical RNA segments. Small bulges of one to three nucleotides are often found to pack either between helices or in the major groove of a helix. A complete analysis of the details of the 16S rRNA structure will be described elsewhere; below we present an overview of the architecture.

The 5' domain (fpd)

The fpd of 16S RNA contains 19 double helices (Fig 4a), arranged as 7 groups of coaxially stacked helices and 5 unstacked helices, for a total of 12 double-helical elements packed tightly together. The result is a wedge-shaped mass of RNA that tapers to a single layer of double helices near the top of the domain. Like the other domains, the fpd is rather longer along the subunit interface than in the perpendicular direction.

The fpd can be divided into three subdomains, roughly corresponding to the upper, lower, and middle thirds of the secondary structure of the fpd. These subdomains make up the top and left-hand, the middle, and the lower right-hand sides of the body, respectively, in the view from 50S. The upper subdomain (Fig. 4b) is a nearly planar arrangement of four helical elements (H16/H17, H4/H15, H1/H3, and H18). The H16/H17 stack forms the left-hand border of the body as viewed from 50s. This stack is almost 120 Å long, with H16 making contact with the

head and H17 reaching the bottom of the subunit. Internal loops in both helices contain S-turns, which are used to modulate the position of the phosphate backbone in the case of H17, or to create an extended minor groove surface for helix-helix docking in the case of H16. The H4/H15 stack points towards the bottom of the subunit, with H15 well-packed against H17. The H1/H3 stack is bent by the conserved bulge at position 31, which results in the proximal end being horizontal and the terminal end pointing up to the head. The fourth helical element is H18, which is sharply bent to accommodate the 530 pseudoknot, defined by the unstacked helices 505-507/524-526 (H18.2) and 521-522/527-528 (H18.1). H18 is well-packed between the other two upwards-pointing elements of the upper subdomain, H1/H3 and H16. The 530 pseudoknot packs against the central pseudoknot at the H18.1 - H1 interface.

The middle subdomain (Fig. 4c) contains four helical elements (H5, H6, H12/H6A, and H13/H14) that form a layer between the upper and lower subdomains in the centre of the body. There are relatively few packing interactions within the subdomain, and several of its helices pack against the upper subdomain on one side and the lower subdomain on the other. Thus at the bottom of the subunit, the conserved root of H6 packs against H8 (lower subdomain) on one side and H15 (upper subdomain) on the other side. Similarly, the H12/H6A stack packs against H4 (upper subdomain) and H7 (lower subdomain). H12/H6A also packs against H5 and the 117 loop, which pack against elements from the upper and lower subdomains, respectively. H5 is well-packed against H15 and the 117 loop stacks with the root of H11. H5 also packs against the H13/H14 stack in the phosphate ridge-minor groove manner. H13/H14 interacts with two different regions of the lower subdomain. The conserved UACG hairpin loop at the end of H14 packs against the 160 GAAA hairpin from H8 while the large conserved hairpin at the end of H13 interacts with H7. This hairpin loop also makes many interactions with elements from the

middle subdomain.

The lower subdomain (Fig. 4d) is a collection of three helical elements that form an open saddle-shaped structure in the lower right-hand corner of the body. The H8/H9 stack stretches from the back of the subunit to the front, with the conserved 160 GAAA hairpin pointing toward the 50S subunit. It packs tightly against the H7/H10 stack at the 4-way junction that joins them, and again at a Thermus-specific interaction between insertions at nucleotides 190 and 129. The H7/H10 stack also makes weak interactions with H15 and H17 from the upper subdomain at the bottom of the subunit. H11 contains two sharp bends that allow its conserved terminal hairpin loop to pack against H7. Both bends are stabilized by short-range minor-groove to minor-groove packing contacts.

15 The central domain (cd)

The cd is the RNA component of the platform. Its fold based on our previous 5.5 Å structure (12) is in excellent agreement with our current structure (Fig. 5). It contains nine helical elements folded into a W-shape in the 50S view. Two long single-stranded segments of RNA, the 570 and 820 loops, are also important structural elements. The domain is dominated by the long stack of H21/H22/H23, which forms the U-shaped perimeter of the domain. H21 is the only component of the left-hand arm of the W, while H22 and H23 form the base of the right-hand side.

25 The right-hand arm of the W consists of H23B and H24A whose conserved hairpin loops are tightly packed. This arrangement requires sharp bends between H23 and H23B, and between H24 and H24A. The H23/H23B bend is stabilized by short-range minor groove-minor groove packing interactions. The H24/H24A bend is more unusual in that the bend is towards the major groove, which places a ridge of H24A phosphates in the major groove of H24. This major-groove bend is stabilized partly by short-range

base-base and base-backbone interactions in the major groove of the bend, and partly by long-range interactions between the bent H24/H24A minor groove and the minor groove of H23. The heart of the central domain is the thicker middle arm of the W, which
5 contains six helical elements (H20, H19/H25, H24, H26/H26A, H27, and H23B) and the 570 and 820 loops. On the left-hand side of the arm, the H26/H26A stack packs tightly against H22, the base of H25, and the 570 loop. The H25/H19 stack packs well with H20 and with the 570 loop. On the right-hand side of the central arm
10 of the W, H23A packs well with H22, the 820 loop stacks on H24, and H24 packs well with the conserved GCAA hairpin loop of H27. In the centre of the arm, H23A packs with H26 in the phosphate ridge-minor groove manner, and the conserved H23A GAAG hairpin loop packs against H20. The 820 loop also interacts with H20,
15 H25, and the 570 loop.

The 3' major domain (tmd)

The 3' major domain (tpd) is the RNA component of the head of the 30S subunit. From the 50S view, the left-hand side of the head tapers to a beak made of RNA on the 50S side and protein on
20 the solvent side (Fig. 6a). Like the other domains, the tpd is relatively thin in the direction perpendicular to the intersubunit interface. The tpd consists of fifteen helical elements, most of which do not stack on a neighboring helix, in contrast to the extensive stacking of neighboring helices seen in
25 the fpd and the central domain. The tpd can be divided into three subdomains, which correspond to the upper, middle, and lower portions of the tpd secondary structure. The upper subdomain is an extended structure in the part of the head farthest from the 50S subunit, and makes relatively few packing
30 contacts with RNA from the other head subdomains. The lower and middle subdomains are more globular and are more intimately packed together, and make up the front-right and front-left portions of the head, respectively. The middle subdomain

includes the RNA portion of the beak.

The upper subdomain contains three helical elements that make up a well-separated structure on the solvent side of the head (Fig. 6b) The subdomain is dominated by the H35-H36-H38-H39 stack, which stretches from the top to the bottom of the head. The other two helical elements of this subdomain are H37 and H40, which pack well with each other and loosely with the H35-H36-H38-H39 stack. The H37-H40 pack is mediated by a semiconserved GAAA hp in H40 with adjacent G-C pairs in H37.

The smaller middle subdomain is extended and contains only four helical elements, H32, H33/H33A, H33B and H34 (Fig. 6c). Two of these (H33/H33A and H33B) form the Y-shaped RNA component of the beak. The H33/H33A stack points to the left in the 50S view while H33B points to the right, with its terminal conserved GNRA hairpin loop packed against H32, the covalent connection between the beak and the lower subdomain. H32 in turn packs against the H33-H34 junction as well as the 980 loop in the lower subdomain. With the exception of a small packing interaction with H32, the irregular H34 makes only long-range and somewhat tenuous packing interactions. The first is with H31 in the lower subdomain, an unusually weak minor-groove to minor groove packing. The second interaction is an unusual end-on packing interaction with the minor groove of the H34/H35/H38 junction in the upper subdomain.

The lower subdomain contains almost half of the tpd RNA (Fig. 6d) and contains seven helical elements (H28/H29, H30, H31/980 loop, H41, H41A, H42 and H43) intimately packed into a globular mass. Helices 42 and 43 are arranged in an approximately parallel fashion at the center of the fold, and each interacts with at least three of the other helical elements. Helices 42 and 43 dock together by means of a minor-groove to minor-groove packing of their conserved hairpin loops. On the

solvent side of the H42/H43 pair, H41 packs with both H42 and H43, while the terminal GCAA hairpin loop of H41A packs against H42. This arrangement requires a sharp bend between H41 and H41A, whose minor grooves pack against each other at the bend.

- 5 The H43-H41 pack is made more extensive by an underwound A-rich internal loop in H41. On the 50S side of the central H42/H43 pair are H29, H30, H31 and the 980 loop. H43 is well-packed with H29 and makes weaker interactions with H30 and the 980 loop, while H42 is well-packed with H30 and the 980 loop. The H42-H30
10 pack is mediated by successive conserved G-A pairs at the base of H42. The H43-H29 pack is mediated by a conserved S-turn at the base of H43. An S-turn also mediates the packing of H42 with H41. H31 is a peripheral element of the subdomain, packing well only with H30, but also packs with H34 from the middle
15 subdomain.

The 3' minor domain

- The 3' minor domain consists of just two helices at the subunit interface (Fig. 6e). H44 is the longest single helix in the subunit, and stretches from the bottom of the head to the bottom
20 of the body. It projects prominently from the body for interaction with the 50S subunit. H45 is approximately perpendicular to H44, with its conserved GGAA hairpin loop packed against H44 and available for interaction with the large subunit.

- 25 Proteins in the 30S and their interaction with 16S rRNA

- The current structure includes all of the 30S proteins except S1. The proteins generally consist of one or more folded domains, about half of which were known from previous work on isolated proteins 26. However, nearly all of the proteins
30 contain extended termini or loops which interact intimately with RNA and were disordered in the isolated structures. Although

most of the proteins form intimate contacts with ribosomal RNA, there are also protein-protein interactions such as those seen in the S4-S5-S8 and S3-S10-S14 clusters. Finally, we see the same folds, e.g. a/b? folds, used to interact with RNA in different ways, making prediction of mode of RNA binding from topology difficult.

In general, prior biochemical data on hydroxyl-radical footprinting 27 and crosslinking 28,29 (see also summaries in ref. 22 #39 and www.mpimg-berlin-dahlem.mpg.de/~ag_ribo/ag_brimacombe/drc) agree well with the structure, and were useful as a guide to interpreting the fold at lower resolution. However, while a strong hydroxyl-radical footprint is indicative of contact, the converse is not true because extensive interactions often occur via the major groove or the phosphate backbone. Earlier base footprinting methods show poor correlation to structural contacts. Similarly, the residues in UV-induced crosslinks are generally found close together, but generally not those crosslinked using other reagents.

Proteins in the central domain

Our current structure agrees both with our previous model of the central domain 12 and subsequent high resolution structures that describe parts of this domain 30,31. Here we focus on new information.

The structure of S6, S11 and S18 bound to RNA is shown in Fig. 7a. The structure of S6 bound to H22 and S18 is similar to previous descriptions 12,31.

S18

S18 in the 30S consists of residues 19-88 (Fig. 7a). It consists of two helices, and a third helical element formed by

two short turns from different parts of the structure that stack end-to-end. These helices together form a hydrophobic core. The C-terminus interacts with S11. Although similar in fold, the structure differs in detail from the one recently reported as
5 part of the S6/S15/S18 complex with a fragment of RNA 31, which consisted of residues 35-84. Residues 63-80 of both structures are in agreement. Of those regions where the backbone trace is in a similar spatial location, our residues 25-40 align with their 37-52, 50-54 with 54-58, 58-62 with 59-63. The loop from
10 43-51 in our structure has no counterpart in theirs and has been bridged across by the peptide backbone. The C-terminus in their structure corresponds to part of this loop in ours. The differences probably arise from different interpretations of the electron density rather than conformational changes. These
15 differences necessitate a reevaluation of some of the interactions of S18 with its neighbors, although most of the interactions previously described 31 involved the C-terminal helix, which is the same in both structures.

S11

20 S11 is a new structure and consists of two helices packed against a sheet, a type of fold seen in many ribosomal proteins (Fig. 7a). The sheet packs against the minor groove of the 690 loop (H23), and has a C-terminal extension that interacts with the C-terminal extension of S18 and also with the 790 loop
25 (H24). Thus S11 stabilizes folding of the platform, by binding to both H23 and H24 near the tip of the platform.

S8

As observed previously 12 and in agreement with biochemical
30 data, S8 binds near the H20/H21/H22 three-way junction and makes extensive interactions with H21 and H25 (Fig. 7b). We now have molecular details of these interactions. In particular, two

loops from S8 (87-92 and 112-118) wrap around the bulged bases 641-642 which were known to be required for high affinity binding of S8 32,33. The N-terminus of the protein also packs against the minor groove of the 825 stem (H25), thus helping the
5 folding of the central domain. Residues K55 on S8 and 653 on RNA are next to each other as would be expected from crosslinking 29. The extension in Thermus S8 of the loop 69-76 packs against S2 from a symmetry related molecule.

S15

10 S15 binds between H20 and H22 near the three-way junction (Fig. 7c), and its complex with 16S RNA is essentially identical to that described previously both in our low resolution 12 and subsequent high resolution structures 30,31.

The 5' domain binding proteins S17, S16 and S20

15 S17

Although originally thought to be exclusively a 5' domain binding protein, S17 also binds near the H20/H21/H22 three-way junction as we previously proposed in our low resolution structure 12 and consistent with crosslinking data (28).

20 However, at that resolution, its orientation was ambiguous.

The core of S17 is known from NMR to be a β barrel with an OB fold, with long extended loops 34. These loops are disordered in solution but bind RNA in the 30S (Fig. 7c). In Thermus, there is a long C-terminal extension to S17 that is organized as
25 an RNA-binding helix. The core of the protein and the C-terminal helix make extensive contacts with H11 and also contact H7. The C-terminal helix also contacts H21 in the central domain. Two long loops, loop 1 (26-36) and loop 2 (60-71) are ordered and interact with disparate domains of RNA exactly as predicted.

Loop 1, which contains the site of neamine resistance, is inserted between H21 and a highly irregular structure at the base of H11. The very tip of loop 1 also touches the 560 loop of 16S RNA. Loop 2, which contains the site of a mutant defective in assembly, is involved in stitching together H7 and H11. Thus S17 interacts with H7, H11 and the 560 loop in the 5' domain, and H21 in the central domain.

S16

For a small protein, S16 has an extensive footprint throughout the 5' domain. Recently, the NMR structure of the protein along with its placement in the 5.5 Å map of the 30S has been described (35). Our structure reveals details of the RNA environment around the protein.

All of the residues (1-88) are visible in the electron density (Fig. 7d), and were rebuilt using the NMR structure as a guide. The protein consists of an N-terminal sheet with two extended loops, and two short helices in the C-terminal end as previously described 35. All of the extensive contacts with 16S RNA are now clear. The β sheet is packed between the 608/620 internal loop of H21 on one side and a minor groove of H4 on the other. The two loops that extend out from this sheet both interact with RNA. Loop 1 interacts with phosphates in major groove of H4, while residues 39-43 in loop 2 make contact with the phosphate backbone around the internal loop near 453 in H17. The first helix (53-61) also extends across the major groove of this internal loop, while the C-terminal end of the second helix along with the turn leading out of it point into a minor groove of H17. There is also interaction with the 110 loop of the 5' domain. Finally, the extended C-terminus lies across the minor groove at the tip of H17.

In our low resolution structure 12, this protein was putatively identified as a three helix bundle in the 5' domain based on biochemical data that placed it at the bottom of the subunit 36,37. The current high resolution structure confirms this. The
5 long N-terminal helix contacts the base of H6 and the tip of helix 44 (Fig. 7e), and many conserved basic residues make salt-bridges with phosphates. Helices 2 and 3 of S20 interact with the minor groove of H9, and helix 3 also interacts with tip of H11 (263). Finally the extreme C-terminus of the
10 protein is extended and lies along the minor groove of H9, which is longer in Thermus by 11 nucleotides. Thus S20 brings together several helices near the bottom of the subunit.

Proteins near the functional center

S4, S5 and S12 are clustered near the "functional center" of the
15 ribosome and contain the sites of several important mutations.

In the structure of isolated S4 38,39 the N-terminal domain was cleaved off prior to crystallization. This N-terminal region is organized as a tightly folded domain with a metal ion (presumably zinc) that is coordinated by four cysteines (Fig.
20 8a). The domain is packed against the body of the protein. While the N-terminus of S4 is highly conserved, the cysteines themselves are not. It is therefore likely that the addition of a "zinc finger" is for additional stability rather than essential for the fold. The linker residues 46-52 connect the
25 N-terminal domain with the rest of the protein. All domains of S4 make intimate contacts with RNA. In particular, S4 makes extensive contacts with a five-way junction where H3, H4, H16, H17 and H18 come together in the 5' domain.

The N-terminal domain is packed against the 420 stem-loop (H16).
30 The largely helical domain I is packed against a complicated region of RNA where H3 and the 507 bulge at the base of H18

come together. The remaining domain of S4 makes extensive contact with the minor groove of the base of H16. In addition, it also makes contact with the tip of the H21, which is itself packed against H4. This position is consistent with the large
5 body of biochemical data on S4 binding to 16S RNA.

As we previously noted 12, the C-terminus of S4 makes an extensive interface with S5. Most of the known mutations of S4 and S5 that confer the ram phenotype are located in this region 40,41. The interface consists of several highly conserved salt
10 bridges, and some of the mutations break one or more of these interactions.

The structure of S5 is similar to the crystal structure of the isolated protein 42 with two important differences: The loop from residues 14-28 is folded back onto the body of the protein
15 in the isolated structure, but is a fully extended b-hairpin in the 30S (Fig. 8b). Also, the C-terminus of S5, which is disordered in the isolated structure, is mainly helical and packs against a complicated surface of S8 formed by many different strands.

20 S5 interacts closely with a region of the ribosome where the head and the body come together. In the head, the extended H35/H36 helix packs against H28, which forms the neck of the 30S connecting the body with the head. The tip of H36 makes contact with H26a, H2 and the central pseudoknot in the body.
25 Protein S5 has contacts throughout this region, thereby stabilizing the conformation of the head with respect to the body.

The C-terminal sheet of S5 makes extensive interactions with the major groove of the H1 and the central pseudoknot. The
30 N-terminal domain binds to the major groove of H36, as does the base of the b-hairpin. The tip of the hairpin interacts with the

phosphate backbone in H28 and is also very close to H34. Nucleotide 560 is very close to K121 in agreement with crosslinking data.

Most of the extensive interactions with RNA occur via major
5 grooves or phosphate backbone. This explains the lack of a hydroxyl-radical footprint from S5 27.

Protein S12

S12 is unusual both for its structure and location. It is
unique among the 30S proteins in being on the interface side of
10 the subunit. Its central core consists of a b-barrel with an OB fold, a feature found in other proteins such as S17. This core binds together H18, the 530 stem loop (at the tip of H18), H3 and a part of H44 close to the decoding site (Fig. 8c). An unusual feature is a long extension that connects this core with
15 a short helix at the N-terminus of the protein. This extension threads between the 560 loop and H12 on one side, and H11 on the other, to make contact with both S8 and S17 on the other side of the 30S.

S12 is also the only protein in the vicinity of the decoding
20 site near 1492-1493 of RNA. It is the site of a number of functionally interesting mutations which will be discussed in an accompanying paper.

The head proteins

S7

25 Protein S7, whose structure in isolation was previously known, is known to be crucial for the assembly of the head 43. In the 30S, the entire sequence is visible, including the very basic N-terminus (Fig. 9a). S7 binds to a small but complex region of

the tpd that encompasses two multiple-stem junctions at a corner of the head. The majority of the interaction surface consists of H29 tightly docked to the S-turn at the base of H43. This docking requires a tight turn at 1346, probably stabilized by S7
5 binding. Because S7 also makes interactions with H28, its primary surface of interaction encompasses all three of the helices around the H28/H29/H43 three-way junction. The very tight docking of H29 to H43 gives rise to a small region of very high negative charge density, which is bound by a surface of S7
10 with very high concentration of positive charge (mainly S7 helices 1 and 4).

The second important interaction surface is centred on the second multiple stem junction that S7 binds, the H29/H30/H41/H42 junction. In this junction, H30 and the base of H42 are tightly
15 packed together, with a tight turn between them. An S-turn between helices 41 and 42 mediates packing of H41 and H42, which also have a tight turn between them. H41 also packs very tightly against H43. S7 makes contacts to the phosphate backbone of H41, stabilizing its packing with H43, and to residues around 1240
20 and 1298 where the tight bends occur in the H29/H30/H41/H42 junction. Contacts with U1240 are particularly intimate: the universally conserved bulge U1240 is deeply buried into a conserved hydrophobic pocket between the 35 and 115 loops of S7.

The b-hairpin is not tightly associated with 16S RNA, but
25 probably fits tightly into the minor groove of the E-site tRNA (see accompanying paper). The structure is in rough agreement with a model of S7 binding to ribosomal RNA 44, but there are also significant differences, including the location of H43.

30 S9

S9 consists of a compact RNA-binding domain consisting of 2

helices packed against a 5-stranded sheet, with a third short helix at the C-terminal end of the domain (Fig. 9b). From this domain, there is a long 25 residue C-terminal tail that snakes into elements of the head RNA. S9 also interacts with S7 via a
5 small hydrophobic patch.

The sheet of S9 makes extensive interactions with H38 and H39. It also has two loops that interact with the 1250 internal loop of H41. The short C-terminal helix interacts with 1177-1180 in H40.

- 10 The long C-terminal extension snakes between the H29-H43 junction on one side and the H38-H34 junction on the other to touch a portion of H31.

The S3 S10 S14 cluster

- 15 These three proteins form a cluster on the rear left-hand of the head, as the protein portion of the beak. S3 is clearly stacked on top of the other two proteins, consistent with the order of assembly.

- 20 S14 is bound in a crevice in the RNA and is mostly covered by S3 and S10. Almost the whole molecule contacts RNA, including helices H31, H32, H34, H38, and H43 (Fig. 9c). A cross linked residue is in close proximity to the RNA 28.

- 25 S14 contains a zinc ion 45 coordinated by four cysteines from a CXXC-X12-CXXC motif. This motif is structurally similar to that found in the first zinc finger in the glucocorticoid receptor. This zinc binding motif is not conserved among all bacteria, although many of the residues surrounding it are, suggesting perhaps that in other organisms the protein folds via a hydrophobic core.

S10 is structurally very similar to the S6 fold, with two helices packed against a 4-stranded sheet (Fig. 10c). Two of the strands in this sheet are connected by a long b-hairpin that extends out from the sheet and is inserted right into the center of the head RNA fold. The b-hairpin makes most of the contacts with RNA, including helices H31, H34 and H41. The two strands of the sheet pack into the shallow minor groove of H39, making contacts with backbone residues on both sides of the groove.

S3 contains two domains, both consisting of two helices packed against a 4-stranded sheet, which is similar to several other ribosomal proteins (Fig. 9d). In addition to the domains there is an N-terminal tail (all of which is visible). The C-terminal 30 residues are poorly conserved and disordered in the structure.

RNA contact is made by the N terminal tail and the C terminal domain. The N-terminal tail fits into a major groove of H34. The sheet in the C terminal domain also packs against H34.

The N terminal domain makes few if any contacts with the RNA, but is mainly involved with making protein contacts with S10 and S14. A KH domain was predicted to occur in S3 46. While elements of the KH domain are present in S3, they are split between the N- and C-terminal domains of the protein, so no KH domain as such is present.

Interestingly, the structure does not agree very well with biochemical data. Although the protein does interact with H34, which it footprints 27, it is some distance (>10 Å) from the H36-H37 region where it also has a footprint. Moreover, residues that crosslink RNA with iminithiolane 28 are on the same side of the N-terminal domain but about 10 Å from the nearest RNA. This RNA is the H33/H33a region, which is one of the most poorly ordered parts of our structure (as judged by the B-factor and

weak density), suggesting that it could move in towards the N-terminal domain in other conformations.

S13 and S19

5 S13 and S19 form a loose dimer at the very "top" of the interface side of the head, extending both above and closer to the 50S than any of the head RNA (Fig. 9e). In spite of their location in this flexible region, they are both relatively well-defined in the electron density. Except for the C-terminal tail of S13, which reaches into the head and almost touches the
10 tail of S9, none of these proteins are in contact with any other of the proteins in the small subunit. Together with S12, S11 and S15, these are among the few proteins that surround the region of intersubunit contact.

15 All 125 residues of S13 are visible in the structure. The N-terminus (app. 60 residues) forms a compact domain consisting of three small helices. Of this domain, only a small loop is in contact with the RNA and the domain appears to be clinging to the subunit only by virtue of its highly extended C-terminal region. This region begins with a long, straight alpha-helix
20 that creeps along the top of the 30S head towards S19. It interacts mainly with the 1300 loop and H42. At this point the polypeptide chain bends by about 90 degrees, and the rest of the protein is mostly lacking in any secondary structure. This extended region curves around H41 into the head where it is
25 buried in the RNA about 50-60 Å from the the globular, N-terminal domain. It contacts H30 in the head.

S19 consists of 92 residues. An NMR structure of isolated S19
30 showed a single globular domain consisting of a helix packed against a three-stranded sheet, in which residues 9-78 were ordered. In the 30S structure, residues 2-81 are visible in the electron density. The C-terminus of the protein points towards

the interface side and may become ordered in the 70S complex. Like S13, most of the globular domain of S19 is well separated from the RNA, but here both the N- and C-terminal extensions to the globular domain, as well as the loops 68-73 and 34-39 make
5 contacts with H42. The C-terminal extension, like S13, bends around the RNA, to contact H31 while the N-terminus reaches H42 some considerable distance away. Thus, S19 straddles a portion of the head of the 30S. The residues in S13 and S19 that were crosslinked 48 are adjacent to each other in the structure.

10 S2

Thermus S2 consists of 256 residues of which 7-235 are visible in our structure (Fig. 10a). The protein consists of a large central domain of about 200 residues that consists of a
15 5-stranded parallel sheet and four helices connecting them. Two helices that form a small coiled-coil motif protrude out of this domain. The protein is located on the back of the 30S at the interface between the head and the rest of the particle. While it is primarily regarded as a "head" protein, it also makes contacts with the central domain in our structure.

20 S2 is quite tenuously attached to RNA, which is consistent both with the fact that it is easy to wash off with salt and also that it is one of the last proteins to assemble onto the 30S 49. It binds RNA in H35-H38 in the head. There are also a few weak interactions with H25 and S8 in the central domain. It is not
25 near H34 in our conformation of the 30S.

Thx

This small 26 residue peptide was isolated and characterized from Thermus ribosomes 21. Thx fills a cavity formed by a number of different elements at the very top of the head (Fig. 10b).

30 Residues 1-24 are visible in the electron density, of which 8-14

form a short helix, flanked by extended ends. It is surrounded by H42, the tip of H41, and the base of H41, while the bottom of the cavity is formed by the major groove of H43. The protein is highly basic, and there are extensive salt-bridges between these residues and phosphates of nearby RNA. Thus Thx stabilizes a number of different RNA elements that come close together near the top of the head. Thx is known to exist in two other species of *Thermus* 21, and chloroplast ribosomes contain a nuclear-encoded Thx homologue 50. Because of its small size, it is difficult to determine whether it has counterparts in other bacterial genomes, but it would be surprising if homologues of the protein did not exist in many other bacteria.

Assembly of the 30S

Information of the order of assembly of proteins onto 16S RNA to form the 30S was studied using reconstitution 49. This was later combined with chemical footprinting of RNA to look at changes in RNA accessibility during assembly 51. The consensus now is that not only do the initial proteins form parts of the binding sites of later proteins, but by helping condense ribosomal RNA, they also create the binding sites for subsequent proteins in a cooperative manner. The structure fully confirms this hypothesis. Thus many of the primary binding proteins bring together different parts of the molecule to create a tertiary fold for the RNA. Very often these proteins bind multi-stem junctions or sharp turns in the RNA. The structure also suggests that assembly of the head, body, and platform occurs independently. Below we interpret assembly of the body in terms of our structure.

There is some evidence that the fpd has some higher-order structure even before any of the ribosomal proteins bind 27,51. Only proteins S4, S16, S17 and S20 bind to the fpd, with S4

thought to bind first 43. S17 and S20 can each bind 16S RNA alone, but the binding of S16 and S20 are facilitated by binding of S4 49. In the crystal structure, the S17 binding site is relatively independent and consistent with biochemical studies.

5 The binding of S4 to a 5-way junction appears to organize a large fraction of the fpd, consistent with the biochemical data. Because S4 does not directly contact S16 or S20, it must facilitate their binding through indirect effects. In the case of S16, a large fraction of the S16 RNA binding surface lies in
10 helices that are part of the five way junction organized by S4. The remainder of the S16-binding RNA surface arises from H7 and H12. S16-induced organisation of H12 would appear to organize the only portions of the S12 and S5 binding sites that are not already part of the S4 five-way junction (the 565 and 5' end of
15 16S RNA), in good agreement with the observation that S16 facilitates binding of S12 and S5 49. However, the structural basis for some of the assembly map is much less clear. For example, there is no rationale for S4 facilitation of S20 binding, since the S20 RNA binding surface does not include any
20 part of the five-way junction and is quite remote from it. Similarly, it is unlikely that the binding of S20 in the lower part of the body has any effect on the binding of S13 as predicted by the assembly map 49.

A new feature from the structure is the observation of long,
25 highly basic extensions to many of the proteins that thread between disparate RNA elements, thus holding them together. In particular, the long extension from S12 that threads from the interface side to the back of the subunit implies that the binding of S12 must occur before the RNA folds around this
30 extension, since the other end is organized as a short helix that could not fit through the hole. Another interesting feature is that in the head, two RNA domains are glued together by a layer of protein tails from S3, S9, S10 and S14. A detailed analysis of the implications of the structure for 30S assembly

will have to await a later publication.

In the 5.5Å structure, it appeared that the interface side of the 30S was likely to be free of proteins 12. As can be seen from Fig. 11, this is largely but not completely true, since S12 is clearly on the interface side of the 30S. Other proteins such as S15 are positioned on the side of the 30S from where they could the 50S as has been noted from biochemical and crystallographic data 52. However, the distribution of proteins and RNA is asymmetric, with the proteins being concentrated in the top and back of the 30S subunit. It therefore remains true that much of the functional interface of the 30S consists of RNA.

Conclusions

The refined atomic resolution model of the 30S presented here allows the interpretation of a vast amount of biochemical data on its function in precise structural terms. Functional insights from the structure are described in an accompanying paper. The structure will also serve as a basis for the interpretation in molecular terms of lower resolution models of various functional states by electron-microscopy or x-ray crystallography. Finally, the 30S structure will help produce testable models for various aspects of ribosome function.

Figure Legends

Fig 1. Electron density maps of the 30S. (a) and (b): Stereo views respectively of the experimental and sigmaA weighted (2mFo- DFc) refined maps, respectively, of a loop of RNA (c) and (d) Experimental and refined maps of a strand of protein showing amino acid side chains.

Fig. 2. (a) Secondary structure diagram of 16S RNA (modified

from ref. 53), showing the definition of the various helical elements used throughout the text. The numbering and diagram correspond to the E. coli sequence. The colors for the domains are: red, 5' domain; green, central domain; orange, 3' major domain; and cyan, 3' minor domain. (b) Stereo view of the tertiary structure of 16S RNA from our refined model, with the same coloring for the domains. (c) and (d) Details of the interdomain junction seen from the interface side and back side respectively.

- 10 Fig. 3. Different modes of interhelical packing in the 16S rRNA. (a) The common minor-groove to minor-groove packing mode is often stabilized by a layer of adenosines (red), which mediate most of the hydrogen bonds between two helices (blue and green). (b) The phosphate ridge to minor groove mode. Usually this mode is stabilized by hydrogen bonds between guanine N2 groups (red bases) and phosphate oxygens. (c) The rare end-on mode of packing uses an unpaired purine (leftmost yellow base) to mediate packing of two helices at right angles to each other.
- 15

- Fig. 4. Structure of the 5' domain of 16S RNA. (a) stereo view of the 5' domain, with an inset on the right showing its location in the 30S subunit. The upper (b), middle (c) and lower (d) parts of the domain are shown separately next to corresponding parts of the secondary structure diagrams. The colors in the secondary structure diagrams match those in the structure. The middle part of the domain has been rotated relative to the others for clarity.
- 20
- 25

- Fig. 5. Structure of the central domain of 16S RNA. (a) stereo view of the domain with secondary structure diagram and inset showing its location in the 30S. (b) Secondary structure diagram for the central domain.
- 30

Fig. 6. Structure of the 3' major and 3' minor domains of 16S

RNA. (a) Stereo view of the 3' major domain, with inset showing its location in the 30S. (b)-(d) The upper, middle and lower parts of the 3' major domain, with corresponding secondary structure diagrams. (e) Stereo view of the 3' minor domain, with secondary structure diagram and inset showing its location in the 30S.

Fig. 7. Proteins from the central and 5' domains. The coloring for the various RNA elements in this and subsequent figures is the same as in Figs 3-5. (a) The S6-S18-S11 complex (b) S8 (c) the S15-S17-S8 complex (d) S16 and (e) S20.

Fig. 8. Proteins from the functional center of the 30S subunit. (a) S4 (b) S5 and (c) S12.

Fig. 9. Proteins from the head. (a) S7 (b) S9 (c) the S10-S14 complex (d) S3 on top of S10 and S14 (e) the S13-S19.

Fig. 10. Proteins (a) S2 and (b) Thx in the head.

Fig. 11. Overview of the entire 30S structure showing the front or subunit interface side (a) and the back side (b). The domains for the RNA have been colored as in Fig. 2.

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Example 2 - Structural basis for the action of the antibiotics paromomycin, streptomycin and spectinomycin on the 30S ribosomal subunit.

30 We have collected data to 3 Å resolution on crystals of the 30S subunit complexed with streptomycin and paromomycin (which

reduce translational accuracy), and spectinomycin (which blocks translocation). Difference Fourier maps from the refinement of our atomic model of the 30S subunit using these data directly reveals the bound antibiotic molecules in situ. The structure
5 allows us to rationalize much of the biochemical and genetic data on these antibiotics and propose models for their mode of action.

Accurate translation of mRNA into protein requires the correct recognition of each codon by the anticodon of the corresponding
10 aa-tRNA. The difference in binding energy between the codon and anticodon with correct (cognate) versus incorrect (noncognate) tRNAs is too small to account for the high accuracy of translation 1. The high level of accuracy of translation by the ribosome is thought to be a combination of the initial
15 codon-anticodon interaction when an EF-Tu.aa-tRNA binds to the A site and a proofreading step occurring after GTP hydrolysis and EF-Tu release which further discriminates correct from incorrect recognition 2,3. The proofreading step is especially important for detecting codon-anticodon interactions that are almost as
20 strong as the cognate interaction. It has been suggested that this detection is based on some feature of the codon anticodon interaction besides the differences in energy of base pairing which is used in initial recognition. It is possible that during proofreading the 30S ribosomal subunit (which is the site
25 of binding of the mRNA and anticodon stem of tRNA) discriminates the shape of the RNA double helix formed by the codon interaction 4. The mechanism by which proof-reading occurs remains unclear, although a number of models have been proposed (5,6). It has been shown recently that the 30S switches
30 between at least two distinct states during translation, and that stabilizing one state over the other can affect accuracy (6,7).

Paromomycin is a member of the aminoglycoside family of

antibiotics which increases the error rate of the ribosome. This family is thought to reduce the dissociation rate of A-site tRNA from the ribosome (8). Recent experiments suggest that it affects both initial selection and proofreading (5). Early
5 experiments suggested streptomycin made ribosomes error prone by predominantly affecting the proofreading step (9). More recent data (8,10,11) suggest interference of both initial selection and proofreading of tRNA selection (reviewed by 12). In contrast to paromomycin and streptomycin, spectinomycin inhibits EF-G
10 catalyzed translocation of the peptidyl-tRNA from the A site to the P site (13).

Materials and methods

Purification of ribosomal subunits, followed by crystallization, cryoprotection and flashcooling were carried out exactly as
15 described in the accompanying paper 14, except that crystallization was carried out in the presence of a 10-fold molar excess of each of a mixture of streptomycin, paromomycin and spectinomycin, no cobalt hexammine was included in the cryoprotectant, and antibiotics were present throughout the
20 transfers into cryoprotectant solutions.

Data were collected on beamline ID14-4 at the ESRF in Grenoble, and integrated and scaled with HKL-2000 15. The refined 3 Å structure of the 30S (see accompanying example 1) was used as a starting model for refinement, with the cobalt ions removed.
25 Refinement was carried out using CNS 16. Rigid body refinement was followed by positional refinement using energy minimization and finally by grouped B-factor refinement. For cross-validation, 5% of the reflections were left out of the refinement, and care was taken to ensure that these corresponded
30 to the same 5% that were omitted for the refinement of the original 30S model. Statistics for the data and refinement are shown in Table 7.

Results:

A single round of refinement as described above resulted in a model with good refinement statistics. In this model, no antibiotics were included, so that the density for them is free of any model bias. The antibiotics and any changes in the 30S structure upon antibiotic binding were clearly visible in difference Fourier maps. In general the structure of the 30S was changed significantly only in the vicinity of the antibiotic binding sites. The phosphate rmsd through most of the structure was about 0.45 Å, which is comparable to the coordinate error in the original model.

Electron density for the antibiotics was present in both sigmaa-weighted and difference Fourier maps. At 3 Å resolution, it was easy to place the antibiotic molecules in an unambiguous orientation in the density, thus allowing us to make precise statements about the location and interactions of each antibiotic molecule in the 30S subunit.

In the discussion that follows, elements of 16S RNA are described by the helix numbering of Brimacombe and coworkers 17. The E. coli numbering for 16S RNA is used throughout, as described in the accompanying example 1.

Paromomycin

Paromomycin binds in the major groove of H44 (Fig. 12 in a location that is in agreement with mutagenesis and protection data 18,19. It is also in general agreement with an NMR structure of paromomycin bound to an RNA fragment corresponding to its binding site 20. Ring IV contacts the backbone of both sides of helix in an orientation that differs from the NMR structure, while ring III makes only weak contacts with the RNA. Ring II forms tight interactions with both bases and

backbone of the RNA, while Ring I inserts into the RNA helix and helps flip out bases A1192 and A1493 when compared to the structure in the absence of paromomycin. Ring I mimics a nucleotide base, stacking against G1491 and hydrogen-bonding with A1408. In addition it forms a tight H bond interaction with the phosphate backbone of A1493 which helps lock the flipped out bases in place. Except as noted, many of the interactions are similar to those reported in the NMR structure 20 although the bases are flipped out to a far greater degree, and consequently, we do not see a base pair between A1408 and A1493 (Fig. 12).

We have modeled the codon and anticodon in the A site using a superposition of the 7.8Å structure of the 70S ribosome with tRNA and mRNA bound 21 as described in our accompanying paper 22. The flipped out bases point directly into the A site and are positioned to interact with the minor groove of the helix formed by the codon-anticodon interaction (Fig12b). It is probable that the A-site codon-anticodon helix must undergo some degree of rotation during or after GTP hydrolysis by EF-Tu, in a conformational change to a proofreading state of the decoding site. However, there are rather strict covalent and steric constraints on the A-site anticodon and especially the codon, which is covalently attached to both the P-site codon and downstream message. Thus, despite some rotational uncertainty in the orientation of the codon-anticodon helix, it appears unlikely that the 1492-1493 bases could interact with any portion of the codon-anticodon helix other than its minor groove, though interactions with other portions of the A-site tRNA anticodon loop are not ruled out. This model provides clues as to how paromomycin increases the affinity of the A site for tRNA. It seems likely that in the absence of paromomycin some energy is required to flip out A1492-A1493 so they can contact the tRNA, and presumably this energetic cost is compensated by the formation of favorable interactions with tRNA. By binding

to H44, paromomycin forms a structure in which these bases are already flipped out, thus reducing the energetic cost of both cognate and non-cognate tRNA binding and increasing tRNA affinity for the A site.

5 This structure is in general agreement with a previously proposed model in which A1492 and A1493 would make contact with the minor groove of the mRNA-tRNA duplex 4. In that model, it was suggested that these bases hydrogen bond with the 2'-OH of the message. Given the rotational uncertainty of the positioning
10 of the A-site tRNA in our model, we cannot determine that these adenines hydrogen-bond to the message 4. However, two scenarios appear possible, within the limits of the model. The adenines may hydrogen-bond to 2' OH groups of only the tRNA anticodon stem-loop, or they may hydrogen-bond to 2'OH groups of both the
15 tRNA and the message. Both possibilities are attractive because they offer a direct explanation for increased affinity (and lower dissociation rate) of tRNA in the presence of the antibiotic. Finally, the degree to which the bases are flipped out in our structure allows a possible reconciliation of the
20 proposal that the mRNA binds in the major groove of H44 23 with the notion that A1492 and A1493 inspect the minor groove of the codon-anticodon interaction 4.

Rings I and II of paromomycin are found in a number of other antibiotics including gentamycin. An NMR structure of
25 gentamycin bound to the same fragment of H44 showed that these two rings interact with RNA in the same way as in paromomycin (20). This suggests that other aminoglycosides that bind to the decoding centre on H44 induce errors in translation by the same mechanism as paromomycin.

30 Streptomycin

Unlike paromomycin, which can bind to an isolated fragment of

ribosomal RNA, streptomycin is tightly bound to the phosphate backbone of 16S RNA from 4 different parts of the molecule via both salt links and hydrogen bonds (Fig. 13). It also makes contact with a lysine (K45) from ribosomal protein S12. The 4
5 regions of 16S RNA (1490, 915, 526, and 13) had all been implicated in streptomycin binding on the basis of protection (18), crosslinking (24) and mutagenesis data (25-27) (reviewed in 19).

It has been proposed that translational fidelity involves a
10 switch between two states of the ribosome, an error prone or ram (885) state, characterized by nucleotides 910-912 pairing with 885-887, and a restrictive or hyperaccurate (888) state in which 910-912 pair with 888-890 (7).

The structure of the 30S reported here, like that of the 70S
15 ribosome at 7.8 Å 21 is in the 885 pairing configuration, and hence presumably in the ram state. The tight interactions described above suggest that streptomycin preferentially stabilizes this form. The 888 state A site has a low tRNA affinity, while the 885 state has a higher affinity (5,7).
20 Therefore by stabilizing the 885 state streptomycin would be expected to increase initial binding of non-cognate tRNAs. The preferential stabilization of the 885 state would also make the transition to the 888 state more difficult, thereby also affecting proofreading. Thus our results offer a structural
25 rationale for the observed properties of streptomycin.

This stabilization of the 885 state by streptomycin suggested by our structure can explain much of the genetic data on the antibiotic. Mutations in S12 lead to a hyper-accurate phenotype 28-33 (reviewed by 12) . A weak phenotype manifests
30 itself as streptomycin resistance, where as a strong phenotype (often the result of multiple mutations) leads to streptomycin dependence. Most of these mutants are to varying degrees more

hyperaccurate and slower than wild type ribosomes, consistent with destabilization of the 885 state with respect to the 888 state.

5 All the mutations in S12 map to the a protein loops that connect and hold in place the 908-915 and 524-527 regions, with the exception of one mutant K56 (E.coli K53) which contacts H44 (Fig 13). Thus S12 stabilizes the same region that is stabilized by streptomycin. In the resistance mutations, the 885 state is destabilized sufficiently so that the additional stabilization
10 induced by streptomycin does not trap the ribosome in this state. In the streptomycin dependent mutants, the 885 state is so destabilized that the 888 (hyperaccurate) form predominates and protein synthesis becomes very slow. Streptomycin can then help stabilize the 885 state sufficiently to restore the balance
15 between the two states and help restore translation.

The K45R (E.coli K42) mutation is resistant to streptomycin but is not hyperaccurate (12). K45 forms a salt bridge with phosphate A913 and thus contributes to stabilization of the 885 state. It also makes direct hydrogen bonding contacts to two OH
20 groups on streptomycin (Fig. 13). Mutation of this lysine to arginine, would disrupt the hydrogen bonding and thereby reduce the affinity of the 30S for streptomycin, leading to resistance. However, the mutation would leave the salt bridge intact, so that the 885 form is not destabilized and thus translation
25 remains normal.

A number of mutations in rRNA also lead to hyperaccuracy (25,26,34-37). Some of these nucleotides are involved in hydrogen bonding interactions in regions close to the streptomycin binding site. Thus the mutations disrupt
30 interactions that help to stabilize the 885 state. Others such as A915 make no contacts with any other bases. It is possible that mutation of this base leads to more favourable contacts in

the 888 state, thus acting by stabilizing the 888 state rather than destabilizing the 885 state.

The ram mutations lead to error-prone ribosomes and are generally found as suppressors of streptomycin resistance.

5 These mutations in S4 (30,38,39) and S5 (29) can counter the effect of hyperaccurate mutations in S12 (reviewed by 12). All ram mutants in S4 and S5 map near the interface between the two proteins with the exception of S52 (E.coli S49) which makes a direct hydrogen bond to the backbone of rRNA (Fig 14). At lower
10 resolution 40, it appeared that the ram mutations destabilized the S4-S5 interface. However, at atomic resolution, we see that two of the mutations V56 (E.coli V53) in S4 and G99 (E.coli G103) in S5 are not in contact with the other protein, and it is not obvious from our structure how they would affect stability
15 of the ram state. In fact, there is a cleft between the two proteins which could close up on the 885-888 transition. This leads us to suggest that these residues (and perhaps the corresponding surfaces of S4 and S5) are involved in intimate contacts in the 888 state, and these contacts would be disrupted
20 by the ram mutations. In this model, ram mutations act by destabilizing the 888 state, and thus shifting the equilibrium to the error prone 885 state. The observation that ram mutations increase the affinity of ribosomes for streptomycin 41 is consistent with this model, since the ribosome would be
25 preferentially in the 885 form. A definitive test of this model must await an atomic resolution structure of the 888 form. Nevertheless, our results provide a structural basis for the notion that a delicate balance exists between the 885 and 888 states for optimal translation, and also explains how disruption
30 of this balance leads to the various phenotypes observed.

Spectinomycin

In contrast to the flexible aminoglycosides, the fused ring

system in spectinomycin makes it a rigid molecule. It binds in the minor groove at one end of H34. It makes a single contact with a backbone phosphate and makes hydrogen bonds to a number of bases (Fig 15). The most interactions are made with G1064 and C1192, consistent with protection studies (18 and mutagenesis data which showed that any combination of substitutions at these bases gave resistance to spectinomycin 42. These two bases are held too far apart to form Watson-Crick base pairs, but are able to make a single hydrogen bond.

- 10 A loop of S5 and part of H28 of 16S RNA approach the spectinomycin binding site, but in this state do not make direct contacts with it. It is possible, however, that in other conformations of the 30S, spectinomycin is in more direct contact with these regions.
- 15 A superposition of the A, P and E site tRNAs from the 70S ribosome onto our 30S structure shows that a number of highly specific contacts from the head stabilize these tRNAs. A movement of tRNA from one site to the other must necessarily involve movement of elements of the head. Such movements would involve H34 and a possible rearrangement of the connections between it and helices 35 and 38. The structure suggests that the rigid spectinomycin molecule binds near this pivot point of the head and sterically blocks movement although it is also possible that it acts to stabilize the upper stem of H34 42. As mentioned above, mutations in S5 that cause resistance to spectinomycin 43 do not make direct contacts with the antibiotic. Rather, they map to a loop that stabilizes the interaction between H1 and the H35-H36 region which is directly connected to H34. An attractive hypothesis is that the mutants destabilize this interaction, and by thus removing the network of interactions that stabilizes the conformation of the head to the body via S5, allows it to move even when spectinomycin is bound.
- 20
- 25
- 30

Conclusions

In this work, we have chosen to investigate three antibiotics that target different regions of the 30S ribosomal subunit and work in different ways. It is striking that all three
5 antibiotics bind at the functional center (with streptomycin and paromomycin being particularly close to each other). Another common theme is that all three antibiotics work by altering a delicate balance between conformational states of the 30S as it goes through the process of translation. Each of them sheds
10 light on a different but fundamental process during translation: paromomycin on decoding, streptomycin on the switch between ram and restrictive states and spectinomycin on translocation. They thus serve the same role in elucidating protein synthesis as do inhibitors in classical enzymology. Additionally, the detailed
15 knowledge of their binding sites from the structure of their complex with the 30S subunit should help to serve as the basis for the design of novel drugs that target bacterial protein synthesis.

Figure Legends for Example 2.

20 Figure 12

Interaction of paromomycin with the 30S ribosomal subunit.

(a) Electron density from difference Fourier showing the paromomycin molecule in a pocket formed by the major groove of H44. The bases A1492 and A1493 are flipped out from the starting
25 model, as can also be seen in the difference density.

(b) Chemical diagram for paromomycin, showing interactions of the various groups with specific residues of the ribosome

(c) A zoomed out view of the paromomycin binding site, with a

model for the A-site codon and anticodon as described in the text. The bases A1492 and A1493 that are flipped out by paromomycin interact with the minor groove of the codon-anticodon duplex.

- 5 (d) A view of the 30S showing paromomycin in a space-filling model, and the surrounding elements.

Figure 13

Interaction of streptomycin with the 30S ribosomal subunit.

- 10 (a) Electron density from difference Fourier showing the binding site of streptomycin. Mutations in ribosomal protein S12 that confer resistance are also shown.

(b) Chemical diagram for streptomycin, showing interactions of the various groups with specific residues of the ribosome

- 15 (c) A zoomed out view of the streptomycin binding site, showing its interaction with H27, the 530 loop (H18), H44 and ribosomal protein S12

(d) A view of the 30S showing streptomycin in a space-filling model, and the surrounding elements.

Figure 14

- 20 Ribosomal proteins S4 and S5, showing the sites of mutations that confer the ram phenotype.

Figure 15.

Interaction of spectinomycin with the 30S ribosomal subunit.

- (a) Electron density from difference Fourier showing the binding site of spectinomycin in helix 44.
- (b) Chemical diagram for spectinomycin, showing interactions of the various groups with specific residues of the ribosome.
- 5 (c) A zoomed out view of the spectinomycin binding site, showing its location at a pivotal point in the head of the 30S subunit.
- (d) A view of the 30S showing spectinomycin in a space-filling model, and the surrounding elements.

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Example 3 - Functional Insights from the Structure of the 30S Ribosomal Subunit.

During translation of the genetic code, the 30S ribosomal subunit provides the framework for base-pairing between the anticodon of tRNA and the codon of mRNA, and discriminates between cognate and non-cognate tRNAs to ensure translational fidelity, in a process termed decoding. During translocation, the ribosome must move by precisely one codon relative to mRNA and the bound tRNAs. Both decoding and translocation involve "switches" in which precise conformational changes occur in the ribosome. The atomic resolution structure of the 30S subunit allows us to interpret the environment of the mRNA and tRNA binding sites in molecular terms. In one well-characterized example of a functional switch involved in accuracy, we are also able to determine the spatial arrangement of its elements, thus elucidating its architecture. The structure also suggests other possible switching elements in the 30S, and sheds light on the kinds of movements that might occur.

As a large, template-directed enzyme with sophisticated proofreading capabilities, the ribosome must contain at least two kinds of functionally important sites. Like all enzymes, the

ribosome must contain ligand-binding active sites that are in direct contact with its substrates, tRNA and mRNA. In addition, the ribosome must also undergo precise structural rearrangements at conformational switches, which may be remote from the ligand-binding active sites. Determination of the structural basis for ribosomal functions will require high-resolution views of both kinds of active sites in their various functionally distinct states.

The ribosome contains three tRNA binding sites, designated A (aminoacyl), P (peptidyl) and E (exit), after their respective tRNA substrates. Each site is bipartite, located partly on the 30S ribosomal subunit and partly on the 50S subunit. The A- and P-site tRNAs bind with their aminoacyl acceptor ends on the 50S subunit, and with their anticodon ends base-paired to adjacent mRNA codons on the 30S subunit. The E-site tRNA is bound in a similar orientation but it is not known whether the E-site tRNA is base-paired to the E-site mRNA codon. The 30S subunit also binds mRNA upstream and downstream of the A, P and E codons. During translation, incoming aminoacyl tRNA is delivered to the A-site as a ternary complex with EF-Tu and GTP. Discrimination of cognate from non-cognate tRNAs occurs in the A-site. It is thought that there is also a second "proofreading" discrimination step in the A-site after GTP hydrolysis by EF-Tu, which is needed to discriminate cognate from near-cognate tRNAs. The 30S P-site has a much higher affinity for tRNA, in order to maintain the reading frame.

There is one well-characterized conformational switch in the 30S subunit, the helix 27 accuracy switch¹. Genetic and biochemical data support a model in which this switch may be part of a larger-scale conformational change that occurs between initial selection and proofreading of the A-site tRNA, or the switch may play a role in translocation.

Until recently, there has been a large disparity between the high resolution of the genetic and biochemical data that define the RNA components of the active sites of the 30S subunit, and the relatively low-resolution of the three-dimensional structures of ribosomes available. Thus, footprinting and crosslinking data have identified a large number of discrete nucleotides of the 16S RNA implicated in binding P- or A-site tRNAs, while direct visualization of tRNA binding to ribosomes allowed only a ca. 15 Å view of the gross morphological features that correspond to the tRNA binding sites. This disparity in resolution began to narrow rapidly last year, with the publication of medium-resolution crystallographic maps of individual ribosomal subunits ²⁻⁴, and of intact 70S ribosomes containing tRNA and mRNA ligands ⁵. The 70S structure in particular resulted in the first precise determination of the relative geometry of the three tRNAs, and of their locations relative to landmark features of the 30S subunit (H44 and H27). However, at this intermediate resolution it was not possible to trace the great majority of the 16S RNA chain. With both the high-resolution biochemical data and the 3.0 Å crystal structure of the 30S subunit in hand, it is now possible to identify the detailed structure of 30S active sites. In addition, by superimposing the tRNA and mRNA coordinates from the 7.8 Å 70S structure, it is now possible to infer many of the interactions between 30S active sites and tRNA/mRNA ligands.

Results and Discussion

As described in the accompanying example, we use the standard H1-H45 nomenclature to describe the helical elements in 16S RNA ⁶.

Very high sequence conservation often indicates functional importance. While the secondary structure of 16S RNA is highly conserved, relatively little of its sequence is universally

conserved ⁷. Figure 16 shows the tertiary fold of 16S RNA, with those residues that are over 95% conserved in nonmitochondrial ribosomes highlighted. The residues conserved purely for structural reasons are scattered throughout the subunit. In contrast, there are many more universally conserved residues on the 50S-facing ("front") surface than on the back surface of the 30S. This asymmetry is in accordance with the known role of the front surface in subunit association and in binding of the tRNA and mRNA ligands in the intersubunit space. More specifically, on the front surface there is a high concentration of universally conserved residues in the neck region between the head and the body of the subunit, and along the platform. The surface exposure and high concentration of conservation of these residues suggest that they form a series of active-site ligand-binding surfaces. In fact, the neck region contains a cluster of nucleotides implicated in binding the A- and P-site tRNAs by footprint and crosslinking data ^{8,9}, and similar conclusions about the locations of the A and P-sites were drawn from low-resolution cryoelectron microscopy ^{10,11} and medium-resolution (7.8 Å) x-ray crystallography on 70S ribosomes ⁵. With our complete and high resolution structure of the 30S subunit in hand, it is now possible to identify at the residue level the elements of the 30S subunit that interact with the anticodon stem-loop (ASL) of the A, P and E-site tRNAs and associated mRNA.

Identification of the precise boundaries of the A, P, and E sites in an unbiased fashion in a structure determined in the absence of cognate tRNA ligands would normally be problematic. As it happens, the P-site in the 30S structure is filled with a stem-loop of RNA corresponding to residues 75-95 (in the *E. coli* numbering system, see accompanying example, ref. ⁶) from the end of the "spur" (H6) of a neighboring molecule. (Henceforth the term "spur" will refer to the symmetry-related spur docked in the P-site, rather than the spur at the bottom of the same subunit). The spur appears to mimic P-site tRNA by a variety of criteria. The extent of the 30S interaction with the anticodon stem-loop (ASL) is in very good

agreement with that determined by affinity measurements ¹² and by hydroxyl radical footprinting ¹³. Secondly, the conformation of the spur stem-loop is distorted in order to more closely resemble the canonical tRNA ASL conformation ^{14,15}: a U-A base pair is
5 broken so that the spur hairpin loop can approximate the conformation of a tRNA ASL, complete with a U-turn and stacked anticodon (Fig. 17a). Another indication that the spur is a mimic of a bound P-site tRNA ASL is that of the twelve hydrogen bonds between 30S and the spur, only one appears to be sequence-specific,
10 in accordance with the lack of sequence conservation in tRNA anticodon stems. Finally, close contacts of the spur with 16S RNA are on the whole consistent with chemical protection data for P-site tRNA ⁸ and with the 34-C1400 UV-induced crosslink between tRNA and 16S RNA ¹⁶ (the analogous residues are stacked in the 30S
15 crystal structure).

Yet another indication that the spur mimics a P-site tRNA ASL is that its "pseudo-anticodon" is base-paired to a triplet of nucleotides, a mimic of mRNA (Fig. 17a). A fourth nucleotide is also visible 5' to the pseudo-anticodon, in the E site. These
20 pseudo-codon bases are clearly pyrimidines, and appear to be UCU from the base-pairing geometries, which are U-U, U-C, and U-U since the pseudo-anticodon is UUU. The origin of this "pseudo-message" is unclear, but it probably comes from the 3' end of 16S RNA, which ends with 5' U1542C1543U1544 3'. The last nucleotide of our 16S
25 model is C1533, so that seven disordered nucleotides would span the 25-Å gap between C1533 and U1541, which is clearly stereochemically feasible. Alternatively, it is possible that the 3' end of 16S RNA has been cleaved somewhere between C1533 and U1541 prior to or during crystallization. The presence of functional mimics of mRNA
30 and P-site tRNA also explains why these crystals diffract relatively well: the P-site tRNA makes extensive contacts with both the head and the body of the 30S, thereby helping to lock the particle into a single conformation.

To ask how well pseudomessage and spur mimic mRNA and the ASL of tRNA, we have used the 7.8 Å resolution structure of the 70S ribosome with bound mRNA and tRNAs ⁵. In that structure, two elements of 16S RNA were identified, H27 and H44. To avoid any possible bias in our interpretation of the spur as a mimic, only H27 and H44 were used to in the alignment to superimpose the 70S structures onto our 30S structure. Despite the relatively low resolution of the 70S structure used, a least-squares superposition of these two elements had a phosphate r.m.s.d. of only 2.3 Å. When the 70S elements are superimposed in this manner onto our 30S structure, we found that indeed, as expected, the P-site tRNA superimposes well onto the 30S spur (Fig. 17b), and the 30S pseudomessage corresponds to the P-site codon. In particular, the orientation of the spur stem-loop is very similar to the 70S P-site ASL, and there are no significant clashes between the 70S A- and E-site tRNAs and our 30S subunit when superimposed in this manner (Fig. 18a). It is clear that the spur and pseudo-message cannot be perfect mimics, however, because the pseudo-anticodon - codon helix consists of three pyrimidine-pyrimidine base pairs, which are about 2 Å narrower than Watson-Crick pairs. Thus it seems likely that the spur and its pseudo-message are good but not perfect mimics of P-site tRNA and P-site codon, respectively, and that the spur mimic model should explain many but perhaps not all features of P-site tRNA binding to the 30S. Moreover, the transformed A- and P-site tRNAs and A-site codon provides a useful landmarks for modeling the extent of the A- and E-sites of the 30S.

Detailed descriptions of the A, P, and E sites

The P-site spur contacts several discrete regions of 16S RNA, most of which have been implicated in P-site binding by biochemical experiments. Two proteins also participate in binding the P-site ASL, a possibly surprising result. Most of the contact surface lies between the minor groove of the spur stem and 16S RNA nucleotides 1338-1341, 1229-1230, and the C-terminal tails of proteins S13 and

S9. There are many hydrogen bonds between the minor groove (i.e. the 2' OH and base groups) of spur residues C91, C92, and G78 and the minor groove surface of G1338-A1339. Only one of these hydrogen bonds appears to be sequence-specific (G78 N2 - A1339 N3). A contact from Lys 126 of S9 appears to help stabilize this minor-groove to minor-groove packing interaction. Both 1338 and 1339 have previously been implicated in P-site binding ⁸. A second area of contact, nearly continuous with the first, is between the 16S 1229-1230 sugar-phosphate backbone and spur residues G77 and G78. This region of contact is extended by the C-terminal tail of S13, which seems to help glue the spur and the 1229-1230 area together. The other areas of contact are much more tenuous. One interaction is stacking of U82 on C1400, which rationalizes the ASL 34-C1400 uv-induced crosslink¹⁶. The other is a packing interaction between A790 and spur residues 88-89, with a single hydrogen bond present. A790 is a so-called class III site, that is it is protected by either tRNA or 50S subunits. From the spur interaction, it would thus appear that binding of either the 50S subunit or the P-site ASL stabilizes a contact between A790 N6 and the phosphate of 1498, ie a contact between the central and three-prime minor domains. Finally, if the pseudo-codon - pseudo-anticodon helix were a few Å wider, as it would be for a Watson-Crick-paired helix, it would make van der Waals contact with the base of G966. G966 has also previously been implicated as part of the P-site by chemical modification experiments and has also been identified as a one of the few guanines crucial for P-site binding ¹⁷.

The P-site codon is threaded through the major groove of the upper portion of helix 44, in a universally conserved region of 16S RNA (Fig. 18b). There appears to be a tight turn between nucleotides -1 and +1, that is, between the last E-site and the first P-site codon nucleotides. This tight turn is stabilized by a hydrogen bond to the N1/N2 groups of the conserved residue G926, a residue previously implicated as crucial for P-site binding ¹⁷. Additional hydrogen bonds are seen between the 2'OH of +1 to the phosphate of

C1498, and between the phosphate of +2 and the 2' OH of C1498. The phosphate of +2 also stacks on the base of C1498. The phosphate of +3 is within hydrogen-bonding distance of two conserved cytidine N4 groups, from C1402 and C1403. The +3 base also stacks on the sugar of C1400. Finally, it appears likely that there are several magnesium ions that may help stabilize the location of the P-site codon in the major groove of H44.

The E-site discussed below is defined by the environment surrounding the 70S E-site tRNA superimposed onto our 30S structure, as described above. Unlike the A and P-sites, the E-site consists mostly of protein. Proteins S7 and S11 have a small interface that binds the minor groove of the E-site ASL. The highly conserved beta-hairpin of S7 extends this surface nearly to the bottom of the anticodon, and it is possible that the S7 beta-hairpin helps dissociate the E-site codon from the E-site anticodon. The RNA portion of the E-site makes only tenuous interactions with the E-site ASL. 16S nucleotides 1382 and 1383 may interact with residue 34 of the anticodon. The minor-groove surface of the conserved 16S residues 693 and 694 may interact with the minor-groove surface of the 37-39 residues of the E-site ASL.

The A-site is rather wider and shallower than the P or E sites, perhaps in order to allow rotation of the A-site codon-anticodon helix during or after GTP hydrolysis by EF-Tu. The RNA components of the A-site appear to include portions of the 530 loop, H34 in the head, and residues 1492-1493 from the 3' minor domain, all of which have been previously implicated in A-site binding.

The Helix 27 switch

It is clear that many of the elements that make contact with the various tRNA would have to move during translocation. Indeed, the ribosome is known to undergo extensive conformational changes during the elongation cycle, and these must involve breaking and

making precise contacts. However, the precise switching elements in these conformational changes are not known in general, with the exception of a switch in H27.

H27 is proposed to have two alternative base-pairing schemes during translation (Fig. 19a), one a "ram" or permissive form that pairs 885-887 with 910-912, and an alternative "restrictive" form that pairs 888-890 with 910-912¹. The ram form appears to be the more stable form in the ribosome and it features an S-turn (or loop E motif) in H27 (Fig. 19b). The S-turn in H27 is also seen in the tRNA-bound structure of the 70S⁵. A switch to the restrictive form would involve a sliding of the two strands of H27 relative to each other and the S-turn would be replaced by an internal loop with a different structure for H27. Indeed, analysis of the two forms by cryoelectron microscopy reveal noticeable conformational changes in the ribosome, especially around the A-site¹⁸. We can now precisely define the structure around H27 and use previous chemical modification data¹ to suggest the kinds of movement involved.

The S-turn in H27 around 888 is right next to 1489 in H44, and H27 packs against the minor groove of H44 just below the decoding site (Fig. 19c). The tip of H27 is close to H11, while 885, which is base-paired with 910 in our conformation, is near both H1 and the 570 loop. Finally, 914 is near both H1 and 526 in the 530 loop. Thus H27 is right in the heart of an area which includes the decoding site and the 530 loop. So it is not surprising that a change in the conformation of H27 would have affect these elements.

The chemical protection data¹ are also shown in Fig. 19c. A number of elements that are more accessible in the "restrictive" state appear to be protected in ours. Thus for example, 524-526 are currently base-paired with 507-505 in the 530 pseudoknot. This suggests that the 530 pseudoknot could be broken in the restrictive state. Similarly, 1053 and 1197 are base-paired in the current structure, but they are part of a distorted region of H34 analogous

to an S-turn, and it is not hard to envisage that an analogous switch might occur in H34 in the alternative state. Thus the data in combination with our structure suggests that H34 in the head and the 530 loop in the shoulder move between the two states, with H34 possibly adopting an alternative form, and the 530 pseudoknot being disrupted. In this context, it is interesting to note that both H34 and the 530 loop have been implicated in tRNA binding (see above).

Other parts of the chemical protection data (Fig. 19c), especially those that are supposed to indicate enhanced accessibility in the ram state, are not so easy to rationalize since they involve protected bases in our structure.

The 30S structure has allowed us to identify details of the tRNA and mRNA binding sites, as well as obtain our first detailed look at the structure around the H27 switch. Clearly, H27 is only one component of major conformational changes that occur during translation. Analysis of the high resolution 30S structure should allow us to identify other potential switching elements, which could then be tested genetically.

Figure legends

- 20 Figure 16. Pattern of conservation on the surface of 16S RNA. (a) View of the 50S or "front" side, showing RNA residues conserved at the 95% level highlighted in red. For clarity, proteins have been omitted from view. (b) Same as in (a) except the "back" side is shown.
- 25 Figure 17. The spur as a mimic of P-site tRNA. (a) The spur from a neighboring molecule in the crystal, with density showing the presence of a P-site codon (b) Superposition of the spur and the anticodon stem-loop of P-site tRNA from the 70S crystal structure 5. See text for details.

Figure 18. Model for tRNA and mRNA binding to the 30S. (a) Superposition of the A, P and E site tRNAs from the 70S crystal structure ⁵ (see text). The view shows that there are no serious clashes with the 30S as a result of this superposition (b) The observed P-site codon (with a single base extension into the E site) and the superimposed A-site codon and tRNAs from the 70S structure. The figure illustrates the path of mRNA around the A and P-sites, as well as the conformation of tRNA relative to the 30S structure.

10 Figure 19. The helix 27 switch in the 30S. (a) Alternative base-pairing schemes for helix 27 in the switch from the *ram* to the restrictive states ^{1,19} (b) View of helix 27 and its associated electron density showing that it has an S-turn and is therefore in the *ram* conformation (c) Environment of helix 27 in the 30S structure. Bases showing enhanced reactivity in the *ram* (blue) and restrictive (red) states ¹ are shown. Other elements of the 30S are shown in grey. (d) The location of the H27 region shown in (c), relative to the whole 30S subunit

References for Example 3

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TABLE 1 - NATIVE COORDINATES

REMARK coordinates from individual occupancy refinement
 REMARK refinement resolution: 99 - 3.0 Å
 REMARK starting r = 0.2132 free_r = 0.2561
 REMARK final r = 0.2131 free_r = 0.2561
 REMARK wa = 3.95584
 REMARK target = mlf steps = 30
 REMARK sg = P4(1)2(1)2 a = 401.375 b = 401.375 c = 175.887 alpha = 90 beta = 90 gamma = 90

REMARK parameter file 1 : CNS_TOPPAR:protein_rep.param
 REMARK parameter file 2 : CNS_TOPPAR:dna-rna-multi-endo.param
 REMARK parameter file 3 : CNS_TOPPAR:ion.param
 REMARK molecular structure file: generate.mtf
 REMARK input coordinates: b2.pdb
 REMARK reflection file= cns_refine.hkl
 REMARK ncs= none
 REMARK B-correction resolution: 6.0 - 3.0
 REMARK initial B-factor correction applied to fobs :
 REMARK B1= 5.012 B2= 5.012 B3= -10.024
 REMARK B12= 0.000 B13= 0.000 B23= 0.000
 REMARK B-factor correction applied to coordinate array B: 1.086
 REMARK bulk solvent: density level= 0.278539 e/Å³, B-factor= 29.219 Å²
 REMARK reflections with |Fobs|/sigma_F < 0.0 rejected
 REMARK reflections with |Fobs| > 10000 * rms(Fobs) rejected
 REMARK theoretical total number of refl. in resol. range: 283454 (100.0 %)
 REMARK number of unobserved reflections (no entry or |F|=0): 45249 (16.0 %)
 REMARK number of reflections rejected: 0 (0.0 %)
 REMARK total number of reflections used: 238205 (84.0 %)
 REMARK number of reflections in working set: 226169 (79.8 %)
 REMARK number of reflections in test set: 12036 (4.2 %)

CRYST1 401.375 401.375 175.887 90.00 90.00 90.00 P 4 21 2
 REMARK FILENAME="/ramakrpo/ribo/cnsrefine/6jul00/chmes_nolow/occometals2.pdb"
 REMARK DATE: 6-Jul-00 19:14:05 created by user: root

REMARK VERSION: 1.0

ATOM	19	CB	LYS	3	215.156	116.455	35.740	1.00121.30	NS
ATOM	20	CG	LYS	3	213.938	117.363	35.804	1.00121.30	NS
ATOM	21	CD	LYS	3	213.107	117.035	37.038	1.00121.30	NS
ATOM	22	CE	LYS	3	212.083	118.123	37.355	1.00121.30	NS
ATOM	23	NZ	LYS	3	211.291	117.821	38.594	1.00121.30	NS
ATOM	24	C	LYS	3	217.543	116.275	35.045	1.00 89.41	NS
ATOM	25	O	LYS	3	218.501	117.033	35.201	1.00 89.41	NS
ATOM	26	N	ALA	4	217.622	114.955	35.167	1.00 68.74	NS
ATOM	27	CA	ALA	4	218.849	114.276	35.547	1.00 68.74	NS
ATOM	28	CB	ALA	4	218.721	112.787	35.248	1.00 63.80	NS
ATOM	29	C	ALA	4	220.098	114.837	34.871	1.00 68.74	NS
ATOM	30	O	ALA	4	221.136	115.004	35.518	1.00 68.74	NS
ATOM	31	N	LEU	5	219.997	115.123	33.575	1.00 98.79	NS
ATOM	32	CA	LEU	5	221.137	115.640	32.827	1.00 98.79	NS
ATOM	33	CB	LEU	5	221.074	115.224	31.351	1.00 80.76	NS
ATOM	34	CG	LEU	5	221.106	113.726	31.010	1.00 80.76	NS
ATOM	35	CD1	LEU	5	221.482	113.588	29.548	1.00 80.76	NS
ATOM	36	CD2	LEU	5	222.114	112.974	31.868	1.00 80.76	NS
ATOM	37	C	LEU	5	221.318	117.142	32.923	1.00 98.79	NS
ATOM	38	O	LEU	5	221.994	117.744	32.090	1.00 98.79	NS
ATOM	39	N	ILE	6	220.689	117.757	33.916	1.00 92.20	NS
ATOM	40	CA	ILE	6	220.888	119.181	34.130	1.00 92.20	NS
ATOM	41	CB	ILE	6	219.574	119.975	34.169	1.00 53.33	NS
ATOM	42	CG2	ILE	6	219.883	121.471	34.171	1.00 53.33	NS
ATOM	43	CG1	ILE	6	218.748	119.648	32.923	1.00 53.33	NS
ATOM	44	CD1	ILE	6	217.594	120.564	32.707	1.00 53.33	NS
ATOM	45	C	ILE	6	221.632	119.233	35.464	1.00 92.20	NS
ATOM	46	O	ILE	6	221.177	119.795	36.467	1.00 92.20	NS
ATOM	47	N	GLU	7	222.780	118.557	35.425	1.00 93.58	NS
ATOM	48	CA	GLU	7	223.736	118.429	36.510	1.00 93.58	NS
ATOM	49	CB	GLU	7	224.250	116.990	36.585	1.00 92.46	NS
ATOM	50	CG	GLU	7	225.215	116.621	35.452	1.00 92.46	NS
ATOM	51	CD	GLU	7	225.278	115.118	35.160	1.00 92.46	NS
ATOM	52	OE1	GLU	7	225.547	114.323	36.092	1.00 92.46	NS
ATOM	53	OE2	GLU	7	225.066	114.732	36.985	1.00 92.46	NS
ATOM	54	C	GLU	7	224.849	119.341	36.027	1.00 93.58	NS
ATOM	55	O	GLU	7	225.992	119.249	36.467	1.00 93.58	NS
ATOM	56	N	LYS	8	224.493	120.194	35.070	1.00 95.46	NS
ATOM	57	CA	LYS	8	225.411	121.159	34.492	1.00 95.46	NS
ATOM	58	CB	LYS	8	224.824	121.732	33.201	1.00 92.92	NS
ATOM	59	CG	LYS	8	225.681	122.802	32.523	1.00 92.92	NS
ATOM	60	CD	LYS	8	225.516	124.187	33.152	1.00 92.92	NS
ATOM	61	CE	LYS	8	226.457	125.196	32.502	1.00 92.92	NS
ATOM	62	NZ	LYS	8	226.194	126.593	32.942	1.00 92.92	NS
ATOM	63	C	LYS	8	225.579	122.260	35.523	1.00 95.46	NS
ATOM	64	O	LYS	8	226.602	122.950	35.571	1.00 95.46	NS
ATOM	65	N	ALA	9	224.556	122.415	36.352	1.00 95.01	NS
ATOM	66	CA	ALA	9	224.582	123.416	37.396	1.00 95.01	NS
ATOM	67	CB	ALA	9	223.168	123.639	37.875	1.00 95.06	NS
ATOM	68	C	ALA	9	225.451	122.911	38.547	1.00 95.01	NS
ATOM	69	O	ALA	9	225.891	123.639	39.383	1.00 95.01	NS
ATOM	70	N	LYS	10	225.701	121.539	38.580	1.00128.35	NS
ATOM	71	CA	LYS	10	226.526	120.981	39.627	1.00128.35	NS

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ATOM	72	CB	LVS	10	226.561	119.461	39.475	1.00	72.22	NS14	ATOM	125	CA	LVS	16	236.427	122.533	34.713	1.00	100.69	NS
ATOM	73	CG	LVS	10	225.391	118.696	40.060	1.00	72.22	NS14	ATOM	126	CB	LVS	16	236.882	123.940	35.125	1.00	98.21	NS
ATOM	74	CD	LVS	10	225.696	117.195	39.995	1.00	72.22	NS14	ATOM	127	CG	LVS	16	238.167	124.432	34.488	1.00	98.21	NS
ATOM	75	CE	LVS	10	224.506	116.336	40.393	1.00	72.22	NS14	ATOM	128	CD	LVS	16	237.931	125.758	33.762	1.00	98.21	NS
ATOM	76	NZ	LVS	10	224.820	114.880	40.268	1.00	72.22	NS14	ATOM	129	CE	LVS	16	237.266	126.792	34.668	1.00	98.21	NS
ATOM	77	C	LVS	10	227.968	121.476	39.618	1.00	128.35	NS14	ATOM	130	NZ	LVS	16	237.044	128.097	33.987	1.00	98.21	NS
ATOM	78	O	LVS	10	228.879	120.780	40.081	1.00	128.35	NS14	ATOM	131	C	LVS	16	236.281	122.475	33.195	1.00	100.69	NS
ATOM	79	N	ARG	11	228.179	122.670	39.085	1.00	135.42	NS14	ATOM	132	O	LVS	16	235.840	123.448	32.579	1.00	100.69	NS
ATOM	80	CA	ARG	11	229.509	123.242	39.027	1.00	135.42	NS14	ATOM	133	N	VAL	17	236.627	121.348	32.586	1.00	121.29	NS
ATOM	81	CB	ARG	11	230.084	123.403	40.440	1.00	99.37	NS14	ATOM	134	CA	VAL	17	236.480	121.228	31.139	1.00	121.29	NS
ATOM	82	CD	ARG	11	229.765	124.751	41.023	1.00	99.37	NS14	ATOM	135	CB	VAL	17	237.658	120.456	30.504	1.00	79.35	NS
ATOM	83	CE	ARG	11	230.231	125.813	40.044	1.00	99.37	NS14	ATOM	136	CG1	VAL	17	238.800	121.420	30.232	1.00	79.35	NS
ATOM	84	NE	ARG	11	229.457	127.044	40.136	1.00	99.37	NS14	ATOM	137	CG2	VAL	17	238.112	119.316	31.425	1.00	79.35	NS
ATOM	85	C2	ARG	11	229.551	128.049	39.268	1.00	99.37	NS14	ATOM	138	C	VAL	17	235.167	120.540	30.787	1.00	121.29	NS
ATOM	86	NH1	ARG	11	230.387	127.970	38.237	1.00	99.37	NS14	ATOM	139	O	VAL	17	234.861	120.314	29.613	1.00	121.29	NS
ATOM	87	NH2	ARG	11	228.808	129.137	39.432	1.00	99.37	NS14	ATOM	140	N	ARG	18	234.388	120.228	31.818	1.00	72.30	NS
ATOM	88	C	ARG	11	230.477	122.456	38.166	1.00	135.42	NS14	ATOM	141	CA	ARG	18	233.100	119.572	31.643	1.00	72.30	NS
ATOM	89	O	ARG	11	230.240	122.246	36.976	1.00	135.42	NS14	ATOM	142	CB	ARG	18	232.994	118.379	32.598	1.00	59.54	NS
ATOM	90	N	THR	12	231.565	122.013	38.784	1.00	103.62	NS14	ATOM	143	CG	ARG	18	234.189	117.432	32.594	1.00	59.54	NS
ATOM	91	CA	THR	12	232.606	121.289	38.079	1.00	103.62	NS14	ATOM	144	CD	ARG	18	233.940	116.257	33.542	1.00	59.54	NS
ATOM	92	CB	THR	12	233.963	121.991	38.281	1.00	128.36	NS14	ATOM	145	NE	ARG	18	234.887	115.162	33.337	1.00	59.54	NS
ATOM	93	CG1	THR	12	233.984	123.216	37.540	1.00	128.36	NS14	ATOM	146	C	ARG	18	234.910	114.032	34.046	1.00	59.54	NS
ATOM	94	CG2	THR	12	235.103	121.102	37.843	1.00	103.62	NS14	ATOM	147	NH1	ARG	18	234.034	113.833	35.022	1.00	59.54	NS
ATOM	95	C	THR	12	232.762	119.844	38.511	1.00	103.62	NS14	ATOM	148	NH2	ARG	18	235.808	113.093	33.779	1.00	59.54	NS
ATOM	96	O	THR	12	233.352	119.574	39.550	1.00	103.62	NS14	ATOM	149	C	ARG	18	231.931	120.537	31.901	1.00	72.30	NS
ATOM	97	N	PRO	13	232.225	118.893	37.729	1.00	102.01.09	NS14	ATOM	150	O	ARG	18	231.182	120.355	32.848	1.00	72.30	NS
ATOM	98	CD	PRO	13	231.230	119.041	36.650	1.00	132.01	NS14	ATOM	151	N	ALA	19	231.767	121.553	31.058	1.00	123.62	NS
ATOM	99	CA	PRO	13	232.370	117.486	38.113	1.00	102.01.09	NS14	ATOM	152	CA	ALA	19	230.683	122.528	31.228	1.00	123.62	NS
ATOM	100	CB	PRO	13	231.575	116.751	37.036	1.00	132.01	NS14	ATOM	153	CB	ALA	19	231.272	123.848	31.650	1.00	34.95	NS
ATOM	101	CG	PRO	13	230.476	117.724	36.725	1.00	132.01	NS14	ATOM	154	O	ALA	19	229.923	122.695	29.915	1.00	123.62	NS
ATOM	102	C	PRO	13	233.857	117.118	38.100	1.00	201.09	NS14	ATOM	155	C	ALA	19	230.558	122.733	28.865	1.00	123.62	NS
ATOM	103	O	PRO	13	234.326	116.412	37.208	1.00	202.01.09	NS14	ATOM	156	N	TYR	20	228.590	122.807	29.932	1.00	92.43	NS
ATOM	104	N	LVS	14	234.577	117.624	39.099	1.00	115.47	NS14	ATOM	157	CA	TYR	20	227.914	122.951	28.640	1.00	92.43	NS
ATOM	105	CA	LVS	14	236.012	117.418	39.282	1.00	113.29	NS14	ATOM	158	CB	TYR	20	227.301	121.622	28.185	1.00	64.67	NS
ATOM	106	CB	LVS	14	236.442	116.001	38.870	1.00	113.29	NS14	ATOM	159	CG	TYR	20	226.867	120.623	29.218	1.00	64.67	NS
ATOM	107	CG	LVS	14	235.976	114.856	39.772	1.00	113.29	NS14	ATOM	160	CD1	TYR	20	227.798	119.956	30.815	1.00	64.67	NS
ATOM	108	CD	LVS	14	234.589	114.345	39.388	1.00	113.29	NS14	ATOM	161	CE1	TYR	20	227.415	118.898	30.815	1.00	64.67	NS
ATOM	109	CE	LVS	14	234.255	113.020	40.071	1.00	113.29	NS14	ATOM	162	CD2	TYR	20	225.532	120.220	29.288	1.00	64.67	NS
ATOM	110	NZ	LVS	14	235.159	111.914	39.639	1.00	113.29	NS14	ATOM	163	CE2	TYR	20	225.135	119.168	30.094	1.00	64.67	NS
ATOM	111	O	LVS	14	236.874	118.439	38.533	1.00	115.47	NS14	ATOM	164	CZ	TYR	20	226.077	118.502	30.853	1.00	64.67	NS
ATOM	112	C	LVS	14	237.578	119.228	39.158	1.00	115.47	NS14	ATOM	165	OH	TYR	20	225.691	117.411	31.613	1.00	64.67	NS
ATOM	113	N	PHE	15	236.811	118.436	37.204	1.00	59.13	NS14	ATOM	166	C	TYR	20	226.940	124.061	28.228	1.00	92.43	NS
ATOM	114	CA	PHE	15	237.633	119.342	36.392	1.00	59.13	NS14	ATOM	167	O	TYR	20	226.287	123.945	27.185	1.00	92.43	NS
ATOM	115	CB	PHE	15	238.528	118.523	35.459	1.00	66.69	NS14	ATOM	168	N	THR	21	226.824	125.126	29.004	1.00	103.54	NS
ATOM	116	CG	PHE	15	238.762	117.110	35.936	1.00	66.69	NS14	ATOM	169	CA	THR	21	225.977	126.240	28.577	1.00	103.54	NS
ATOM	117	CD1	PHE	15	237.757	116.147	35.826	1.00	66.69	NS14	ATOM	170	CB	THR	21	226.562	126.849	27.275	1.00	70.67	NS
ATOM	118	CD2	PHE	15	239.950	116.747	36.520	1.00	66.69	NS14	ATOM	171	OG1	THR	21	227.984	126.718	27.297	1.00	70.67	NS
ATOM	119	CE1	PHE	15	237.970	114.845	36.291	1.00	66.69	NS14	ATOM	172	CG	THR	21	226.216	128.329	27.145	1.00	70.67	NS
ATOM	120	CE2	PHE	15	240.174	115.445	36.991	1.00	66.69	NS14	ATOM	173	C	THR	21	224.472	126.005	28.334	1.00	103.54	NS
ATOM	121	CZ	PHE	15	239.159	114.496	36.874	1.00	66.69	NS14	ATOM	174	O	THR	21	223.807	126.887	27.793	1.00	103.54	NS
ATOM	122	C	PHE	15	236.757	120.297	35.596	1.00	59.13	NS14	ATOM	175	N	ARG	22	223.934	124.844	28.706	1.00	67.95	NS
ATOM	123	O	PHE	15	235.673	119.921	35.156	1.00	59.13	NS14	ATOM	176	CA	ARG	22	222.501	124.552	28.519	1.00	67.95	NS
ATOM	124	N	LVS	16	237.229	121.525	35.399	1.00	100.69	NS14	ATOM	177	CB	ARG	22	222.000	123.704	29.678	1.00	65.88	NS

ATOM	178	CG	ARG	22	222.694	122.384	29.839	1.00	65.88	NS14	ATOM	231	N	ALA	29	221.082	122.277	25.271	1.00	71.56	NS
ATOM	179	CD	ARG	22	221.904	121.303	29.174	1.00	65.88	NS14	ATOM	232	CA	ALA	29	222.530	122.437	25.295	1.00	71.56	NS
ATOM	180	ME	ARG	22	222.398	119.987	29.544	1.00	65.88	NS14	ATOM	233	CB	ALA	29	223.153	121.255	26.028	1.00	72.95	NS
ATOM	181	C2	ARG	22	221.970	118.862	28.988	1.00	65.88	NS14	ATOM	234	C	ALA	29	223.150	122.559	23.899	1.00	71.56	NS
ATOM	182	NH1	ARG	22	221.040	118.918	28.037	1.00	65.88	NS14	ATOM	235	O	ALA	29	224.197	123.180	23.729	1.00	71.56	NS
ATOM	183	NH2	ARG	22	222.466	117.689	29.375	1.00	65.88	NS14	ATOM	236	N	ARG	30	222.476	121.982	22.909	1.00	74.10	NS
ATOM	184	C	ARG	22	221.591	125.792	28.408	1.00	67.95	NS14	ATOM	237	CA	ARG	30	222.950	121.941	21.530	1.00	74.10	NS
ATOM	185	O	ARG	22	221.829	126.806	29.069	1.00	67.95	NS14	ATOM	238	CB	ARG	30	221.923	121.269	20.630	1.00	60.45	NS
ATOM	186	N	CYS	23	220.545	125.705	27.582	1.00	96.13	NS14	ATOM	239	CG	ARG	30	222.558	120.656	19.388	1.00	60.45	NS
ATOM	187	CA	CYS	23	219.612	126.825	27.412	1.00	96.13	NS14	ATOM	240	CD	ARG	30	223.054	119.264	19.693	1.00	60.45	NS
ATOM	188	SG	CYS	23	218.486	126.480	26.419	1.00	55.35	NS14	ATOM	241	NE	ARG	30	224.251	118.925	18.947	1.00	60.45	NS
ATOM	189	SG	CYS	23	217.310	127.848	25.957	1.00	55.35	NS14	ATOM	242	C2	ARG	30	224.766	117.704	18.913	1.00	60.45	NS
ATOM	190	C	CYS	23	219.016	127.093	28.774	1.00	96.13	NS14	ATOM	243	NH1	ARG	30	224.174	116.720	19.577	1.00	60.45	NS
ATOM	191	O	CYS	23	218.627	126.165	29.487	1.00	96.13	NS14	ATOM	244	NH2	ARG	30	225.880	117.476	18.232	1.00	60.45	NS
ATOM	192	N	VAL	24	218.958	128.363	29.142	1.00	80.57	NS14	ATOM	245	C	ARG	30	223.413	123.185	20.810	1.00	74.10	NS
ATOM	193	CA	VAL	24	218.407	128.722	30.429	1.00	80.57	NS14	ATOM	246	O	ARG	30	224.383	123.110	20.066	1.00	74.10	NS
ATOM	194	CB	VAL	24	218.427	130.246	30.637	1.00	64.10	NS14	ATOM	247	N	SER	31	222.725	124.309	20.962	1.00	43.32	NS
ATOM	195	CG1	VAL	24	217.100	130.720	31.232	1.00	64.10	NS14	ATOM	248	CA	SER	31	223.182	125.509	20.260	1.00	43.32	NS
ATOM	196	CG2	VAL	24	219.588	130.617	31.557	1.00	64.10	NS14	ATOM	249	CB	SER	31	222.566	125.594	18.862	1.00	43.32	NS
ATOM	197	C	VAL	24	216.987	128.209	30.588	1.00	80.57	NS14	ATOM	250	OG	SER	31	221.165	125.769	18.935	1.00	100.26.07	NS
ATOM	198	O	VAL	24	216.621	127.736	31.661	1.00	80.57	NS14	ATOM	251	C	SER	31	222.850	126.757	21.039	1.00	43.32	NS
ATOM	199	N	ARG	25	216.186	128.278	29.527	1.00	75.21	NS14	ATOM	252	O	SER	31	222.193	127.672	22.573	1.00	43.32	NS
ATOM	200	CA	ARG	25	214.810	127.825	29.650	1.00	75.21	NS14	ATOM	253	N	VAL	32	223.334	126.779	22.276	1.00	77.19	NS
ATOM	201	CB	ARG	25	213.849	128.938	29.240	1.00	67.26	NS14	ATOM	254	CA	VAL	32	223.124	127.875	23.214	1.00	77.19	NS
ATOM	202	CG	ARG	25	213.528	129.056	27.786	1.00	67.26	NS14	ATOM	255	CB	VAL	32	223.384	127.409	24.647	1.00	73.56	NS
ATOM	203	CD	ARG	25	212.578	130.220	27.635	1.00	67.26	NS14	ATOM	256	CG1	VAL	32	222.268	126.510	25.118	1.00	73.56	NS
ATOM	204	NE	ARG	25	211.948	130.295	26.324	1.00	67.26	NS14	ATOM	257	CG2	VAL	32	224.706	126.649	24.693	1.00	73.56	NS
ATOM	205	C2	ARG	25	211.011	131.184	26.007	1.00	67.26	NS14	ATOM	258	C	VAL	32	224.035	129.059	22.974	1.00	77.19	NS
ATOM	206	NH1	ARG	25	210.602	132.069	26.911	1.00	67.26	NS14	ATOM	259	O	VAL	32	225.253	128.909	22.957	1.00	77.19	NS
ATOM	207	NH2	ARG	25	210.485	131.193	24.790	1.00	67.26	NS14	ATOM	260	N	TYR	33	223.453	130.236	22.791	1.00	71.43	NS
ATOM	208	C	ARG	25	214.402	126.524	28.978	1.00	75.21	NS14	ATOM	261	CA	TYR	33	224.263	131.428	22.604	1.00	71.43	NS
ATOM	209	O	ARG	25	213.399	125.935	29.373	1.00	75.21	NS14	ATOM	262	CB	TYR	33	223.446	132.538	21.951	1.00	76.08	NS
ATOM	210	N	CYS	26	215.147	126.067	27.973	1.00	68.35	NS14	ATOM	263	CG	TYR	33	223.362	132.440	20.444	1.00	76.08	NS
ATOM	211	CA	CYS	26	214.794	124.799	27.325	1.00	68.35	NS14	ATOM	264	CD1	TYR	33	222.749	131.356	19.824	1.00	76.08	NS
ATOM	212	CB	CYS	26	214.658	124.959	25.801	1.00	19.43	NS14	ATOM	265	CE1	TYR	33	222.633	131.289	18.432	1.00	76.08	NS
ATOM	213	SG	CYS	26	215.950	125.888	25.005	1.00	19.43	NS14	ATOM	266	CD2	TYR	33	223.867	133.453	19.641	1.00	76.08	NS
ATOM	214	C	CYS	26	215.799	123.704	27.645	1.00	68.35	NS14	ATOM	267	CE2	TYR	33	223.761	133.401	18.254	1.00	76.08	NS
ATOM	215	O	CYS	26	215.504	122.519	27.490	1.00	68.35	NS14	ATOM	268	C2	TYR	33	223.140	132.320	17.651	1.00	76.08	NS
ATOM	216	N	GLY	27	216.977	124.111	28.115	1.00	77.36	NS14	ATOM	269	OH	TYR	33	223.007	132.297	16.274	1.00	76.08	NS
ATOM	217	CA	GLY	27	218.020	123.154	28.450	1.00	77.36	NS14	ATOM	270	C	TYR	33	224.713	131.834	24.005	1.00	71.43	NS
ATOM	218	C	GLY	27	218.723	122.694	27.189	1.00	77.36	NS14	ATOM	271	O	TYR	33	224.107	131.407	24.985	1.00	71.43	NS
ATOM	219	O	GLY	27	219.663	121.897	27.226	1.00	77.36	NS14	ATOM	272	N	ARG	34	225.778	132.628	24.111	1.00	73.36	NS
ATOM	220	N	ARG	28	218.245	123.214	26.065	1.00	145.74	NS14	ATOM	273	CA	ARG	34	226.290	133.054	25.418	1.00	73.36	NS
ATOM	221	CA	ARG	28	218.792	122.884	24.764	1.00	145.74	NS14	ATOM	274	CB	ARG	34	227.788	133.346	25.342	1.00	94.58	NS
ATOM	222	CB	ARG	28	218.084	123.692	23.678	1.00	78.05	NS14	ATOM	275	CG	ARG	34	228.692	132.151	25.173	1.00	94.58	NS
ATOM	223	CG	ARG	28	218.449	123.258	22.272	1.00	78.05	NS14	ATOM	276	CD	ARG	34	230.131	132.615	25.312	1.00	94.58	NS
ATOM	224	CD	ARG	28	217.774	121.946	21.907	1.00	78.05	NS14	ATOM	277	CE	ARG	34	231.106	131.545	25.126	1.00	94.58	NS
ATOM	225	NE	ARG	28	218.424	121.285	20.780	1.00	78.05	NS14	ATOM	278	N2	ARG	34	232.422	131.726	25.192	1.00	94.58	NS
ATOM	226	C2	ARG	28	218.632	121.843	19.590	1.00	78.05	NS14	ATOM	279	NH1	ARG	34	232.909	132.934	25.441	1.00	94.58	NS
ATOM	227	NH1	ARG	28	218.240	123.087	19.353	1.00	78.05	NS14	ATOM	280	NH2	ARG	34	233.252	130.705	25.008	1.00	94.58	NS
ATOM	228	NH2	ARG	28	219.239	121.151	18.633	1.00	78.05	NS14	ATOM	281	C	ARG	34	225.601	134.306	25.945	1.00	73.36	NS
ATOM	229	C	ARG	28	220.284	123.184	24.722	1.00	145.74	NS14	ATOM	282	O	ARG	34	224.974	134.302	27.006	1.00	73.36	NS
ATOM	230	O	ARG	28	220.702	124.215	24.200	1.00	145.74	NS14	ATOM	283	N	PHE	35	225.756	135.382	25.187	1.00	55.19	NS

ATOM	284	CA	PHE	35	225.199	136.683	25.505	1.00	55.19	NS14	ATOM	337	CG2	ILE	41	213.030	127.357	19.666	1.00	33.48	NS
ATOM	285	CB	PHE	35	225.262	137.551	24.257	1.00	43.55	NS14	ATOM	338	CG1	ILE	41	215.044	126.183	18.738	1.00	33.48	NS
ATOM	286	PHE	PHE	35	224.726	138.935	24.436	1.00	43.55	NS14	ATOM	339	CD1	ILE	41	214.542	124.788	19.093	1.00	33.48	NS
ATOM	287	CD1	PHE	35	223.357	139.170	24.494	1.00	43.55	NS14	ATOM	340	C	ILE	41	214.555	129.644	20.318	1.00	44.39	NS
ATOM	288	CD2	PHE	35	225.591	140.022	24.454	1.00	43.55	NS14	ATOM	341	O	ILE	41	213.905	130.611	19.894	1.00	44.39	NS
ATOM	289	CE1	PHE	35	222.857	140.473	24.555	1.00	43.55	NS14	ATOM	342	N	CYS	42	214.750	129.389	21.611	1.00	37.52	NS
ATOM	290	CE2	PHE	35	225.100	141.333	24.515	1.00	43.55	NS14	ATOM	343	CA	CYS	42	214.256	130.235	22.682	1.00	37.52	NS
ATOM	291	CZ	PHE	35	223.729	141.555	24.563	1.00	43.55	NS14	ATOM	344	CB	CYS	42	214.906	129.788	23.989	1.00	32.58	NS
ATOM	292	C	PHE	35	223.781	136.638	26.036	1.00	55.19	NS14	ATOM	345	SG	CYS	42	214.639	128.001	24.345	1.00	32.58	NS
ATOM	293	O	PHE	35	223.353	137.572	26.703	1.00	55.19	NS14	ATOM	346	C	CYS	42	214.602	131.686	22.338	1.00	37.52	NS
ATOM	294	PHE	PHE	36	223.058	135.560	25.750	1.00	67.52	NS14	ATOM	347	O	CYS	42	213.750	132.572	22.407	1.00	37.52	NS
ATOM	295	CA	PHE	36	221.678	135.431	26.204	1.00	67.52	NS14	ATOM	348	N	LEU	43	215.853	131.926	21.954	1.00	48.11	NS
ATOM	296	CB	PHE	36	220.745	135.250	25.010	1.00	59.39	NS14	ATOM	349	CA	LEU	43	216.280	133.268	21.546	1.00	48.11	NS
ATOM	297	CG	PHE	36	220.615	136.466	24.152	1.00	59.39	NS14	ATOM	350	CB	LEU	43	217.728	133.226	20.997	1.00	35.50	NS
ATOM	298	CD1	PHE	36	220.878	136.404	22.791	1.00	59.39	NS14	ATOM	351	CG	LEU	43	218.238	134.086	19.814	1.00	35.50	NS
ATOM	299	CD2	PHE	36	220.186	137.670	24.689	1.00	59.39	NS14	ATOM	352	CD1	LEU	43	217.600	135.472	19.766	1.00	35.50	NS
ATOM	300	CE1	PHE	36	220.709	137.524	21.976	1.00	59.39	NS14	ATOM	353	CD2	LEU	43	219.761	134.218	19.931	1.00	35.50	NS
ATOM	301	CE2	PHE	36	220.016	138.795	23.878	1.00	59.39	NS14	ATOM	354	C	LEU	43	215.317	133.823	20.481	1.00	48.11	NS
ATOM	302	CZ	PHE	36	220.277	138.721	22.520	1.00	59.39	NS14	ATOM	355	O	LEU	43	215.859	134.964	19.477	1.00	48.11	NS
ATOM	303	C	PHE	36	221.422	134.293	27.180	1.00	67.52	NS14	ATOM	356	N	ARG	44	214.115	133.405	18.393	1.00	69.32	NS
ATOM	304	O	PHE	36	220.477	134.353	27.963	1.00	67.52	NS14	ATOM	357	CB	ARG	44	214.116	132.339	17.295	1.00	66.86	NS
ATOM	305	N	GLY	37	222.250	133.257	27.136	1.00	67.19	NS14	ATOM	358	CG	ARG	44	213.159	132.600	16.136	1.00	66.86	NS
ATOM	306	CA	GLY	37	222.044	132.112	28.010	1.00	67.19	NS14	ATOM	359	CG	ARG	44	212.963	131.319	15.325	1.00	66.86	NS
ATOM	307	C	GLY	37	220.963	131.228	27.414	1.00	67.19	NS14	ATOM	360	CD	ARG	44	211.834	131.388	14.401	1.00	66.86	NS
ATOM	308	O	GLY	37	220.588	130.195	27.969	1.00	67.19	NS14	ATOM	361	NE	ARG	44	211.749	132.254	13.402	1.00	66.86	NS
ATOM	309	N	LEU	38	220.475	131.647	26.252	1.00	71.50	NS14	ATOM	362	CZ	ARG	44	212.729	133.121	13.200	1.00	66.86	NS
ATOM	310	CA	LEU	38	219.424	130.951	25.531	1.00	71.50	NS14	ATOM	363	NH1	ARG	44	210.687	132.250	12.610	1.00	66.86	NS
ATOM	311	CB	LEU	38	218.384	131.971	25.076	1.00	50.47	NS14	ATOM	364	NH2	ARG	44	212.687	133.640	18.871	1.00	69.32	NS
ATOM	312	CG	LEU	38	217.499	132.577	26.165	1.00	50.47	NS14	ATOM	365	C	ARG	44	212.026	134.571	18.415	1.00	69.32	NS
ATOM	313	CD1	LEU	38	216.528	133.803	25.615	1.00	50.47	NS14	ATOM	366	O	ARG	44	212.216	132.917	19.785	1.00	77.47	NS
ATOM	314	CD2	LEU	38	216.528	131.509	26.671	1.00	50.47	NS14	ATOM	367	N	GLU	45	210.857	132.793	20.310	1.00	77.47	NS
ATOM	315	C	LEU	38	219.927	130.170	24.317	1.00	71.50	NS14	ATOM	368	CA	GLU	45	210.511	131.722	21.201	1.00	78.43	NS
ATOM	316	O	LEU	38	221.024	130.414	23.822	1.00	71.50	NS14	ATOM	369	CB	GLU	45	210.735	130.379	20.521	1.00	78.43	NS
ATOM	317	N	CYS	39	219.102	129.234	23.846	1.00	69.32	NS14	ATOM	370	CG	GLU	45	210.219	129.207	21.333	1.00	78.43	NS
ATOM	318	CA	CYS	39	219.400	128.403	22.675	1.00	69.32	NS14	ATOM	371	CD	GLU	45	210.466	129.164	22.557	1.00	78.43	NS
ATOM	319	CB	CYS	39	218.740	127.039	22.817	1.00	48.84	NS14	ATOM	372	OE1	GLU	45	209.575	128.318	20.744	1.00	78.43	NS
ATOM	320	SG	CYS	39	216.937	127.166	22.859	1.00	48.84	NS14	ATOM	373	OE2	GLU	45	210.696	134.204	21.096	1.00	77.47	NS
ATOM	321	C	CYS	39	218.808	129.106	21.457	1.00	69.32	NS14	ATOM	374	C	GLU	45	209.707	134.917	20.929	1.00	77.47	NS
ATOM	322	O	CYS	39	217.861	129.884	21.584	1.00	69.32	NS14	ATOM	375	O	GLU	45	211.679	134.505	21.941	1.00	59.03	NS
ATOM	323	N	ARG	40	219.349	128.811	20.279	1.00	71.97	NS14	ATOM	376	N	LEU	46	211.649	135.718	22.754	1.00	59.03	NS
ATOM	324	CA	ARG	40	218.894	129.432	19.036	1.00	71.97	NS14	ATOM	377	CA	LEU	46	212.651	135.605	23.902	1.00	59.55	NS
ATOM	325	CB	ARG	40	219.454	128.672	17.820	1.00	75.16	NS14	ATOM	378	CB	LEU	46	213.297	134.459	24.857	1.00	59.55	NS
ATOM	326	CG	ARG	40	218.737	127.361	17.470	1.00	75.16	NS14	ATOM	379	CG	LEU	46	210.885	134.653	25.397	1.00	59.55	NS
ATOM	327	CD	ARG	40	218.420	127.297	15.972	1.00	75.16	NS14	ATOM	380	CD1	LEU	46	211.908	136.986	21.952	1.00	59.03	NS
ATOM	328	NE	ARG	40	217.626	126.129	15.606	1.00	75.16	NS14	ATOM	381	CD2	LEU	46	211.390	138.047	22.274	1.00	59.03	NS
ATOM	329	CZ	ARG	40	218.119	124.904	15.473	1.00	75.16	NS14	ATOM	382	C	LEU	46	212.703	136.886	20.900	1.00	71.05	NS
ATOM	330	NH1	ARG	40	219.410	124.685	15.673	1.00	75.16	NS14	ATOM	383	O	LEU	47	212.971	138.062	20.091	1.00	89.74	NS
ATOM	331	NH2	ARG	40	217.320	123.898	15.142	1.00	71.97	NS14	ATOM	384	N	ALA	47	214.026	137.748	19.043	1.00	89.74	NS
ATOM	332	C	ARG	40	217.372	129.559	18.906	1.00	71.97	NS14	ATOM	385	CA	ALA	47	211.674	138.500	19.421	1.00	71.05	NS
ATOM	333	O	ARG	40	216.875	130.531	18.329	1.00	71.97	NS14	ATOM	386	CB	ALA	47	211.494	139.677	19.111	1.00	71.05	NS
ATOM	334	N	ILE	41	215.174	128.618	19.364	1.00	44.39	NS14	ATOM	387	O	ALA	47	210.767	137.547	19.214	1.00	94.99	NS
ATOM	335	CA	ILE	41	215.558	127.252	19.711	1.00	33.48	NS14	ATOM	388	C	ALA	47						
ATOM	336	CB	ILE	41						NS14	ATOM	389	N	HIS	48						

ATOM	390	CA	HIS	48	209.490	137.831	18.565	1.00	94.99	NS14	ATOM	443	CG1	VAL	55	217.043	140.850	19.594	1.00	86.07	NS
ATOM	391	CB	HIS	48	208.889	136.552	17.961	1.00	68.12	NS14	ATOM	444	CG2	VAL	55	217.920	141.939	21.620	1.00	86.07	NS
ATOM	392	CD	HIS	48	209.532	136.129	16.676	1.00	68.12	NS14	ATOM	445	C	VAL	55	215.746	143.262	18.741	1.00	81.73	NS
ATOM	393	CD2	HIS	48	209.819	134.902	16.184	1.00	68.12	NS14	ATOM	446	O	VAL	55	214.773	142.516	18.812	1.00	81.73	NS
ATOM	394	ND1	HIS	48	209.948	137.033	15.719	1.00	68.12	NS14	ATOM	447	N	ARG	56	215.963	144.062	17.701	1.00	77.41	NS
ATOM	395	CE1	HIS	48	210.466	136.380	14.696	1.00	68.12	NS14	ATOM	448	CA	ARG	56	215.069	144.078	16.548	1.00	77.41	NS
ATOM	396	NE2	HIS	48	210.466	135.086	14.953	1.00	68.12	NS14	ATOM	449	CB	ARG	56	215.177	145.389	15.776	1.00	129.14	NS
ATOM	397	C	HIS	48	208.468	138.478	19.481	1.00	94.99	NS14	ATOM	450	CG	ARG	56	214.394	146.547	16.311	1.00	129.14	NS
ATOM	398	O	HIS	48	207.506	139.089	19.014	1.00	94.99	NS14	ATOM	451	CD	ARG	56	214.302	147.596	15.223	1.00	129.14	NS
ATOM	399	N	LYS	49	208.673	138.347	20.783	1.00	87.07	NS14	ATOM	452	NE	ARG	56	213.613	148.803	15.658	1.00	129.14	NS
ATOM	400	CD	LYS	49	207.753	138.930	21.744	1.00	87.07	NS14	ATOM	453	C2	ARG	56	213.479	149.695	13.538	1.00	129.14	NS
ATOM	401	CB	LYS	49	207.690	138.065	22.988	1.00	51.11	NS14	ATOM	454	NH1	ARG	56	213.479	149.695	13.538	1.00	129.14	NS
ATOM	402	CG	LYS	49	207.237	136.660	22.721	1.00	51.11	NS14	ATOM	455	NH2	ARG	56	212.612	150.848	15.325	1.00	129.14	NS
ATOM	403	CE	LYS	49	207.115	135.903	23.804	1.00	51.11	NS14	ATOM	456	C	ARG	56	215.102	142.969	15.587	1.00	77.41	NS
ATOM	404	CE	LYS	49	206.532	134.520	23.804	1.00	51.11	NS14	ATOM	457	O	ARG	56	216.324	142.141	15.866	1.00	77.41	NS
ATOM	405	NZ	LYS	49	206.279	133.816	25.095	1.00	51.11	NS14	ATOM	458	N	LYS	57	214.786	142.970	14.439	1.00	65.27	NS
ATOM	406	C	LYS	49	208.169	140.338	22.135	1.00	87.07	NS14	ATOM	459	CA	LYS	57	215.070	142.003	13.400	1.00	65.27	NS
ATOM	407	O	LYS	49	207.323	141.191	22.397	1.00	87.07	NS14	ATOM	460	CB	LYS	57	213.796	141.532	12.660	1.00	81.63	NS
ATOM	408	N	GLY	50	209.477	140.571	22.174	1.00	85.74	NS14	ATOM	461	CG	LYS	57	212.785	140.802	13.484	1.00	81.63	NS
ATOM	409	CA	GLY	50	209.992	141.877	22.539	1.00	85.74	NS14	ATOM	462	CD	LYS	57	212.240	139.620	12.687	1.00	81.63	NS
ATOM	410	C	GLY	50	210.602	141.851	23.925	1.00	85.74	NS14	ATOM	463	CE	LYS	57	211.738	140.055	11.326	1.00	81.63	NS
ATOM	411	O	GLY	50	210.877	142.891	24.519	1.00	85.74	NS14	ATOM	464	NZ	LYS	57	211.589	138.891	10.426	1.00	81.63	NS
ATOM	412	N	GLN	51	210.811	140.648	24.441	1.00	71.25	NS14	ATOM	465	C	LYS	57	216.007	142.710	12.435	1.00	65.27	NS
ATOM	413	CA	GLN	51	211.391	140.486	25.759	1.00	71.25	NS14	ATOM	466	O	LYS	57	215.726	143.826	11.987	1.00	65.27	NS
ATOM	414	CB	GLN	51	210.860	139.210	26.402	1.00	52.76	NS14	ATOM	467	N	ALA	58	217.122	142.061	12.126	1.00	70.13	NS
ATOM	415	CG	GLN	51	209.358	139.143	26.317	1.00	52.76	NS14	ATOM	468	CA	ALA	58	218.189	141.843	11.309	1.00	70.13	NS
ATOM	416	CD	GLN	51	208.756	138.066	27.187	1.00	52.76	NS14	ATOM	469	CB	ALA	58	217.605	142.613	9.770	1.00	86.70	NS
ATOM	417	OE1	GLN	51	209.429	137.105	27.570	1.00	52.76	NS14	ATOM	470	O	ALA	58	217.389	141.843	11.309	1.00	70.13	NS
ATOM	418	NE2	GLN	51	207.468	138.209	27.492	1.00	52.76	NS14	ATOM	471	O	ALA	58	216.698	141.872	9.410	1.00	70.13	NS
ATOM	419	C	GLN	51	212.914	140.489	25.693	1.00	71.25	NS14	ATOM	472	N	SER	59	218.221	143.443	8.947	1.00	61.13	NS
ATOM	420	O	GLN	51	213.596	140.261	26.694	1.00	71.25	NS14	ATOM	473	CA	SER	59	217.857	143.553	7.545	1.00	61.13	NS
ATOM	421	N	LEU	52	213.495	140.730	24.503	1.00	69.61	NS14	ATOM	474	CB	SER	59	216.414	144.027	7.423	1.00	57.92	NS
ATOM	422	CA	LEU	52	214.895	140.827	24.352	1.00	69.61	NS14	ATOM	475	OG	SER	59	216.216	144.705	6.197	1.00	57.92	NS
ATOM	423	CB	LEU	52	215.417	139.934	23.227	1.00	83.01	NS14	ATOM	476	C	SER	59	218.784	144.576	6.908	1.00	61.13	NS
ATOM	424	CG	LEU	52	215.369	138.426	23.492	1.00	83.01	NS14	ATOM	477	O	SER	59	218.994	145.644	7.478	1.00	99.05	NS
ATOM	425	CD1	LEU	52	216.329	137.741	22.545	1.00	83.01	NS14	ATOM	478	N	TRP	60	219.344	144.262	5.742	1.00	99.05	NS
ATOM	426	CD2	LEU	52	215.757	138.111	24.921	1.00	83.01	NS14	ATOM	479	CA	TRP	60	220.249	145.194	5.073	1.00	99.05	NS
ATOM	427	C	LEU	52	215.122	142.295	24.030	1.00	69.61	NS14	ATOM	480	CB	TRP	60	221.450	145.487	5.977	1.00	55.66	NS
ATOM	428	O	LEU	52	215.069	142.715	22.868	1.00	69.61	NS14	ATOM	481	CG	TRP	60	222.414	144.341	6.104	1.00	55.66	NS
ATOM	429	N	PRO	53	215.355	143.101	25.081	1.00	72.52	NS14	ATOM	482	CD2	TRP	60	222.268	143.164	6.914	1.00	55.66	NS
ATOM	430	CD	PRO	53	215.600	142.583	26.440	1.00	71.65	NS14	ATOM	483	CE2	TRP	60	223.402	142.351	6.681	1.00	55.66	NS
ATOM	431	CA	PRO	53	215.591	144.548	25.023	1.00	72.52	NS14	ATOM	484	CE3	TRP	60	221.293	142.715	7.811	1.00	55.66	NS
ATOM	432	CB	PRO	53	216.136	144.870	26.416	1.00	71.65	NS14	ATOM	485	CE1	TRP	60	223.596	144.195	5.436	1.00	55.66	NS
ATOM	433	CG	PRO	53	216.622	143.532	26.947	1.00	71.65	NS14	ATOM	486	NE1	TRP	60	224.184	143.006	5.775	1.00	55.66	NS
ATOM	434	C	PRO	53	216.509	145.018	23.910	1.00	72.52	NS14	ATOM	487	CE2	TRP	60	223.587	141.114	7.312	1.00	55.66	NS
ATOM	435	O	PRO	53	217.637	144.552	23.781	1.00	72.52	NS14	ATOM	488	CE3	TRP	60	221.479	141.478	8.440	1.00	55.66	NS
ATOM	436	N	GLY	54	216.008	145.951	23.107	1.00	115.68	NS14	ATOM	489	CH2	TRP	60	222.618	140.697	8.185	1.00	55.66	NS
ATOM	437	CA	GLY	54	216.792	146.483	22.010	1.00	115.68	NS14	ATOM	490	C	TRP	60	220.730	144.644	3.733	1.00	99.05	NS
ATOM	438	C	GLY	54	217.262	145.424	21.032	1.00	115.68	NS14	ATOM	491	O	TRP	60	220.388	145.170	2.672	1.00	99.05	NS
ATOM	439	O	GLY	54	218.364	145.526	20.487	1.00	115.68	NS14	ATOM	492	ZN+2	ZN2	106	-1.704	0.513	0.713	1.00	71.67	NS
ATOM	440	N	VAL	55	216.435	144.404	20.811	1.00	81.73	NS14	ATOM	493	C	GLY	2	149.261	96.032	32.557	1.00	68.67	DS
ATOM	441	CA	VAL	55	216.766	143.327	19.879	1.00	81.73	NS14	ATOM	494	O	GLY	2	150.080	96.206	31.660	1.00	68.67	DS
ATOM	442	CB	VAL	55	216.808	141.955	20.595	1.00	86.07	NS14	ATOM	495	N	GLY	2	148.771	93.688	31.866	1.00	68.67	DS

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ATOM	496	CA	GLY	2	148.920	94.628	33.014	1.00	68.67	DS4	ATOM	549	SG	CYS	9	155.192	112.397	40.081	1.00	23.15	DS
ATOM	497	NH2	ARG	3	148.644	97.036	33.169	1.00	83.85	DS4	ATOM	550	C	CYS	9	157.833	110.310	37.874	1.00	168.29	DS
ATOM	498	CA	ARG	3	148.898	98.416	32.786	1.00	83.85	DS4	ATOM	551	O	CYS	9	158.760	110.923	38.388	1.00	68.29	DS
ATOM	499	CB	ARG	3	147.675	99.277	33.095	1.00	194.67	DS4	ATOM	552	N	ARG	10	157.963	109.548	36.781	1.00	61.49	DS
ATOM	500	CG	ARG	3	146.514	98.961	32.176	1.00	194.67	DS4	ATOM	553	CA	ARG	10	159.194	109.374	35.983	1.00	61.49	DS
ATOM	501	CD	ARG	3	146.971	99.053	30.726	1.00	194.67	DS4	ATOM	554	CB	ARG	10	159.755	107.943	36.103	1.00	46.91	DS
ATOM	502	NE	ARG	3	146.102	98.327	29.805	1.00	194.67	DS4	ATOM	555	CD	ARG	10	159.621	107.091	34.816	1.00	46.91	DS
ATOM	503	CZ	ARG	3	144.866	98.693	29.477	1.00	194.67	DS4	ATOM	556	CG	ARG	10	160.095	105.628	34.997	1.00	46.91	DS
ATOM	504	NH1	ARG	3	144.325	99.791	29.990	1.00	194.67	DS4	ATOM	557	NE	ARG	10	161.536	105.442	34.811	1.00	46.91	DS
ATOM	505	NH2	ARG	3	144.174	97.952	28.627	1.00	194.67	DS4	ATOM	558	CZ	ARG	10	162.167	105.635	33.555	1.00	46.91	DS
ATOM	506	ARG	3	150.133	98.994	33.445	1.00	83.85	DS4	ATOM	559	NH1	ARG	10	161.483	106.019	32.586	1.00	46.91	DS	
ATOM	507	O	ARG	3	150.131	99.324	34.626	1.00	83.85	DS4	ATOM	560	NH2	ARG	10	163.472	105.441	33.559	1.00	46.91	DS
ATOM	508	N	TYR	4	151.192	99.115	32.658	1.00	141.54	DS4	ATOM	561	C	ARG	10	158.774	109.622	34.529	1.00	61.49	DS
ATOM	509	CA	TYR	4	152.461	99.644	33.128	1.00	141.54	DS4	ATOM	562	O	ARG	10	159.594	109.881	33.655	1.00	61.49	DS
ATOM	510	CB	TYR	4	152.445	101.168	33.140	1.00	52.61	DS4	ATOM	563	N	LEU	11	157.475	109.489	34.292	1.00	80.37	DS
ATOM	511	CG	TYR	4	153.797	101.725	33.499	1.00	52.61	DS4	ATOM	564	CA	LEU	11	156.883	109.740	32.992	1.00	80.37	DS
ATOM	512	CD1	TYR	4	154.955	101.104	33.035	1.00	52.61	DS4	ATOM	565	CB	LEU	11	155.614	108.907	32.801	1.00	51.57	DS
ATOM	513	CE1	TYR	4	156.207	101.581	33.363	1.00	52.61	DS4	ATOM	566	CG	LEU	11	155.684	107.409	33.122	1.00	51.57	DS
ATOM	514	CD2	TYR	4	153.931	102.852	34.306	1.00	52.61	DS4	ATOM	567	CD1	LEU	11	154.290	106.803	33.064	1.00	51.57	DS
ATOM	515	CE2	TYR	4	155.191	103.344	34.640	1.00	52.61	DS4	ATOM	568	C	LEU	11	156.612	106.716	33.124	1.00	80.37	DS
ATOM	516	CZ	TYR	4	156.321	102.696	34.162	1.00	52.61	DS4	ATOM	569	C	LEU	11	156.518	111.212	33.124	1.00	80.37	DS
ATOM	517	OH	TYR	4	157.581	103.143	34.468	1.00	52.61	DS4	ATOM	570	O	LEU	11	156.655	111.972	32.165	1.00	80.37	DS
ATOM	518	C	TYR	4	152.922	99.162	34.496	1.00	41.54	DS4	ATOM	571	N	CYS	12	156.052	111.602	34.324	1.00	73.04	DS
ATOM	519	O	TYR	4	153.578	98.126	34.610	1.00	41.54	DS4	ATOM	572	CA	CYS	12	155.705	113.002	34.615	1.00	73.04	DS
ATOM	520	N	ILE	5	152.593	99.933	35.529	1.00	110.25	DS4	ATOM	573	CB	CYS	12	155.667	113.312	36.165	1.00	47.73	DS
ATOM	521	CA	ILE	5	152.995	99.607	36.893	1.00	110.25	DS4	ATOM	574	SG	CYS	12	154.193	113.038	37.379	1.00	47.73	DS
ATOM	522	CB	ILE	5	152.528	98.198	37.305	1.00	71.79	DS4	ATOM	575	C	CYS	12	156.914	113.745	33.996	1.00	73.04	DS
ATOM	523	CG2	ILE	5	153.043	97.866	38.692	1.00	71.79	DS4	ATOM	576	O	CYS	12	156.763	114.782	33.352	1.00	73.04	DS
ATOM	524	CG1	ILE	5	151.002	98.134	37.283	1.00	71.79	DS4	ATOM	577	N	ARG	13	158.105	113.158	34.168	1.00	65.80	DS
ATOM	525	CD1	ILE	5	150.447	96.751	37.496	1.00	71.79	DS4	ATOM	578	CB	ARG	13	159.387	113.720	33.706	1.00	65.80	DS
ATOM	526	C	ILE	5	154.514	99.673	36.989	1.00	110.25	DS4	ATOM	579	CA	ARG	13	160.549	113.131	34.528	1.00	43.56	DS
ATOM	527	O	ILE	5	155.214	98.711	36.667	1.00	110.25	DS4	ATOM	580	CG	ARG	13	160.479	113.418	36.029	1.00	43.56	DS
ATOM	528	N	GLY	6	155.006	100.828	37.425	1.00	41.60	DS4	ATOM	581	CD	ARG	13	161.868	113.660	36.635	1.00	43.56	DS
ATOM	529	CA	GLY	6	156.435	101.065	37.576	1.00	41.60	DS4	ATOM	582	NE	ARG	13	162.653	112.442	36.818	1.00	43.56	DS
ATOM	530	C	GLY	6	156.656	102.533	37.886	1.00	41.60	DS4	ATOM	583	CZ	ARG	13	163.964	112.356	36.603	1.00	43.56	DS
ATOM	531	O	GLY	6	157.885	103.296	37.862	1.00	41.60	DS4	ATOM	584	NH1	ARG	13	164.655	113.415	36.196	1.00	43.56	DS
ATOM	532	N	PRO	7	157.885	102.974	38.185	1.00	59.54	DS4	ATOM	585	NH2	ARG	13	164.584	111.201	36.772	1.00	43.56	DS
ATOM	533	CD	PRO	7	159.203	102.339	38.056	1.00	86.91	DS4	ATOM	586	C	ARG	13	159.780	113.639	32.230	1.00	65.80	DS
ATOM	534	CA	PRO	7	156.020	104.405	38.472	1.00	59.54	DS4	ATOM	587	O	ARG	13	160.345	114.595	31.698	1.00	65.80	DS
ATOM	535	CB	PRO	7	159.521	104.662	38.297	1.00	86.91	DS4	ATOM	588	N	ARG	14	159.529	112.503	31.583	1.00	64.39	DS
ATOM	536	CG	PRO	7	160.014	103.466	37.508	1.00	86.91	DS4	ATOM	589	CA	ARG	14	159.872	112.327	30.165	1.00	64.39	DS
ATOM	537	C	PRO	7	157.144	105.246	37.540	1.00	59.54	DS4	ATOM	590	CB	ARG	14	159.585	110.878	29.735	1.00	56.49	DS
ATOM	538	O	PRO	7	157.244	105.154	36.318	1.00	59.54	DS4	ATOM	591	CG	ARG	14	159.671	110.602	28.229	1.00	56.49	DS
ATOM	539	N	VAL	8	156.265	106.050	38.125	1.00	39.52	DS4	ATOM	592	CD	ARG	14	160.974	111.097	27.625	1.00	56.49	DS
ATOM	540	CA	VAL	8	155.358	106.866	37.339	1.00	39.52	DS4	ATOM	593	NE	ARG	14	162.127	110.275	27.950	1.00	56.49	DS
ATOM	541	CB	VAL	8	153.926	106.620	37.807	1.00	31.95	DS4	ATOM	594	CZ	ARG	14	163.389	110.598	27.673	1.00	56.49	DS
ATOM	542	CG1	VAL	8	152.969	107.568	37.159	1.00	31.95	DS4	ATOM	595	NH1	ARG	14	163.672	111.736	27.045	1.00	56.49	DS
ATOM	543	CG2	VAL	8	153.548	105.195	37.449	1.00	31.95	DS4	ATOM	596	NH2	ARG	14	164.373	109.778	28.018	1.00	56.49	DS
ATOM	544	C	VAL	8	155.684	108.351	37.332	1.00	39.52	DS4	ATOM	597	C	ARG	14	159.124	113.318	29.258	1.00	64.39	DS
ATOM	545	O	VAL	8	155.589	108.991	36.285	1.00	39.52	DS4	ATOM	598	O	ARG	14	159.707	113.896	28.337	1.00	64.39	DS
ATOM	546	N	CYS	9	156.042	108.922	38.482	1.00	168.29	DS4	ATOM	599	N	GLU	15	157.834	113.508	29.513	1.00	60.91	DS
ATOM	547	CA	CYS	9	156.413	110.332	38.481	1.00	168.29	DS4	ATOM	600	CA	GLU	15	157.055	114.453	28.729	1.00	60.91	DS
ATOM	548	CB	CYS	9	156.372	110.951	39.910	1.00	23.15	DS4	ATOM	601	CB	GLU	15	155.562	114.124	28.780	1.00	78.62	DS

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ATOM	602	CG	GLU	15	155.068	113.195	27.687	1.00	78.62	DS4	ATOM	655	O	LEU	21	149.752	108.381	39.963	1.00	96.70	DS
ATOM	603	CD	GLU	15	155.611	111.792	27.827	1.00	78.62	DS4	ATOM	656	N	LVS	22	149.271	110.493	40.575	1.00	84.21	DS
ATOM	604	OE1	GLU	15	156.050	111.433	28.941	1.00	78.62	DS4	ATOM	657	CA	LVS	22	149.316	110.217	42.006	1.00	84.21	DS
ATOM	605	OE2	GLU	15	155.582	111.042	26.828	1.00	78.62	DS4	ATOM	658	CB	LVS	22	150.740	110.395	42.532	1.00	49.38	DS
ATOM	606	C	GLU	15	157.275	115.833	29.316	1.00	60.91	DS4	ATOM	659	CG	LVS	22	151.601	109.159	42.437	1.00	49.38	DS
ATOM	607	O	GLU	15	156.701	116.810	28.849	1.00	60.91	DS4	ATOM	660	CD	LVS	22	152.921	109.376	43.136	1.00	49.38	DS
ATOM	608	N	GLY	16	158.108	115.906	30.349	1.00	100.08.65	DS4	ATOM	661	CE	LVS	22	153.784	108.137	43.056	1.00	49.38	DS
ATOM	609	CA	GLY	16	158.378	117.180	30.993	1.00	100.08.65	DS4	ATOM	662	NZ	LVS	22	155.100	108.374	43.686	1.00	49.38	DS
ATOM	610	C	GLY	16	157.141	117.689	31.710	1.00	100.08.65	DS4	ATOM	663	C	LVS	22	148.380	111.121	42.800	1.00	84.21	DS
ATOM	611	O	GLY	16	157.145	117.875	32.933	1.00	57.67	DS4	ATOM	664	O	LVS	22	148.356	111.081	44.038	1.00	84.21	DS
ATOM	612	OE1	VAL	17	156.083	117.909	30.933	1.00	57.67	DS4	ATOM	665	N	GLY	23	147.599	111.928	42.092	1.00	144.60	DS
ATOM	613	CA	VAL	17	154.806	118.383	31.441	1.00	57.67	DS4	ATOM	666	CA	GLY	23	146.707	112.829	42.785	1.00	144.60	DS
ATOM	614	CB	VAL	17	153.730	118.360	30.339	1.00	79.02	DS4	ATOM	667	C	GLY	23	147.529	113.573	43.820	1.00	144.60	DS
ATOM	615	CG1	VAL	17	152.407	118.855	30.895	1.00	79.02	DS4	ATOM	668	O	GLY	23	148.532	114.202	43.484	1.00	144.60	DS
ATOM	616	CG2	VAL	17	154.172	119.223	29.165	1.00	79.02	DS4	ATOM	669	N	GLU	24	147.128	113.476	45.082	1.00	75.22	DS
ATOM	617	C	VAL	17	154.317	117.543	32.620	1.00	57.67	DS4	ATOM	670	CA	GLU	24	147.824	114.160	46.164	1.00	75.22	DS
ATOM	618	O	VAL	17	154.466	116.318	32.647	1.00	57.67	DS4	ATOM	671	CB	GLU	24	147.097	113.930	47.476	1.00	134.13	DS
ATOM	619	N	LVS	18	153.718	118.227	33.588	1.00	57.88	DS4	ATOM	672	CG	GLU	24	147.817	113.515	48.656	1.00	134.13	DS
ATOM	620	CA	LVS	18	153.208	117.600	34.793	1.00	57.88	DS4	ATOM	673	CD	GLU	24	147.525	113.756	49.919	1.00	134.13	DS
ATOM	621	CB	LVS	18	152.617	118.675	35.710	1.00	77.62	DS4	ATOM	674	OE1	GLU	24	146.335	113.649	50.283	1.00	134.13	DS
ATOM	622	CD	LVS	18	152.631	118.338	37.203	1.00	77.62	DS4	ATOM	675	OE2	GLU	24	148.486	113.262	50.544	1.00	75.22	DS
ATOM	623	CG	LVS	18	152.272	119.573	38.036	1.00	77.62	DS4	ATOM	676	C	GLU	24	149.246	113.668	46.310	1.00	75.22	DS
ATOM	624	CE	LVS	18	152.650	119.417	39.500	1.00	77.62	DS4	ATOM	677	O	GLU	24	149.455	112.550	46.750	1.00	75.22	DS
ATOM	625	NZ	LVS	18	152.316	120.646	40.269	1.00	77.62	DS4	ATOM	678	N	ARG	25	150.202	114.527	45.962	1.00	81.50	DS
ATOM	626	C	LVS	18	152.153	116.552	34.484	1.00	57.88	DS4	ATOM	679	CA	ARG	25	151.652	114.273	46.012	1.00	81.50	DS
ATOM	627	O	LVS	18	151.275	116.753	33.649	1.00	57.88	DS4	ATOM	680	CB	ARG	25	152.013	112.785	45.921	1.00	55.26	DS
ATOM	628	N	LEU	19	152.259	115.420	35.162	1.00	100.51.48	DS4	ATOM	681	CG	ARG	25	153.382	112.332	46.523	1.00	55.26	DS
ATOM	629	CA	LEU	19	151.291	114.358	34.996	1.00	100.51.48	DS4	ATOM	682	CD	ARG	25	154.614	113.095	46.018	1.00	55.26	DS
ATOM	630	CB	LEU	19	151.918	113.146	34.324	1.00	71.58	DS4	ATOM	683	NE	ARG	25	155.848	112.285	45.929	1.00	55.26	DS
ATOM	631	CG	LEU	19	152.026	113.269	32.810	1.00	71.58	DS4	ATOM	684	CZ	ARG	25	156.671	111.967	46.934	1.00	55.26	DS
ATOM	632	CD1	LEU	19	152.606	111.980	32.252	1.00	71.58	DS4	ATOM	685	NH1	ARG	25	156.429	112.369	48.170	1.00	55.26	DS
ATOM	633	CD2	LEU	19	150.650	113.545	32.220	1.00	71.58	DS4	ATOM	686	NH2	ARG	25	157.771	111.260	46.696	1.00	55.26	DS
ATOM	634	C	LEU	19	150.751	113.993	36.363	1.00	100.51.48	DS4	ATOM	687	C	ARG	25	152.138	114.955	44.754	1.00	81.50	DS
ATOM	635	O	LEU	19	151.505	113.761	37.321	1.00	100.51.48	DS4	ATOM	688	O	ARG	25	152.944	115.876	44.830	1.00	81.50	DS
ATOM	636	N	TYR	20	149.429	113.969	36.447	1.00	100.08.81	DS4	ATOM	689	N	CYS	26	151.639	114.503	43.596	1.00	164.92	DS
ATOM	637	CA	TYR	20	148.756	113.661	37.690	1.00	100.08.81	DS4	ATOM	690	CA	CYS	26	152.013	115.104	42.315	1.00	164.92	DS
ATOM	638	CB	TYR	20	147.474	114.491	37.776	1.00	74.51	DS4	ATOM	691	CB	CYS	26	151.469	114.275	41.101	1.00	30.26	DS
ATOM	639	CG	TYR	20	147.764	115.979	37.857	1.00	74.51	DS4	ATOM	692	SG	CYS	26	152.717	113.140	40.216	1.00	30.26	DS
ATOM	640	CD1	TYR	20	146.839	116.921	37.414	1.00	74.51	DS4	ATOM	693	C	CYS	26	151.461	116.546	42.355	1.00	164.92	DS
ATOM	641	CE1	TYR	20	147.131	118.290	37.460	1.00	74.51	DS4	ATOM	694	O	CYS	26	151.196	117.161	41.326	1.00	164.92	DS
ATOM	642	CD2	TYR	20	148.984	116.442	38.355	1.00	74.51	DS4	ATOM	695	N	TYR	27	151.293	117.053	43.583	1.00	89.40	DS
ATOM	643	CE2	TYR	20	149.283	117.799	38.404	1.00	74.51	DS4	ATOM	696	CA	TYR	27	150.839	118.417	43.892	1.00	89.40	DS
ATOM	644	CH	TYR	20	148.361	118.717	37.955	1.00	74.51	DS4	ATOM	697	CB	TYR	27	149.533	118.425	44.693	1.00	59.26	DS
ATOM	645	CO	TYR	20	148.680	120.057	37.972	1.00	74.51	DS4	ATOM	698	CG	TYR	27	148.306	118.257	43.843	1.00	59.26	DS
ATOM	646	C	TYR	20	148.483	112.172	37.751	1.00	100.08.81	DS4	ATOM	699	CD1	TYR	27	147.884	116.996	43.449	1.00	59.26	DS
ATOM	647	O	TYR	20	147.386	111.702	37.460	1.00	100.08.81	DS4	ATOM	700	CE1	TYR	27	146.799	116.833	42.590	1.00	59.26	DS
ATOM	648	N	LEU	21	149.514	111.432	38.132	1.00	96.70	DS4	ATOM	701	CD2	TYR	27	147.608	119.315	43.365	1.00	59.26	DS
ATOM	649	CA	LEU	21	149.424	109.990	38.221	1.00	96.70	DS4	ATOM	702	CE2	TYR	27	146.522	119.217	42.506	1.00	59.26	DS
ATOM	650	CB	LEU	21	150.558	109.377	37.406	1.00	55.03	DS4	ATOM	703	CZ	TYR	27	146.125	117.945	42.121	1.00	59.26	DS
ATOM	651	CG	LEU	21	150.523	109.809	35.932	1.00	55.03	DS4	ATOM	704	OH	TYR	27	145.065	117.768	41.259	1.00	59.26	DS
ATOM	652	CD1	LEU	21	151.811	109.450	35.212	1.00	55.03	DS4	ATOM	705	C	TYR	27	151.907	119.069	44.760	1.00	89.40	DS
ATOM	653	CD2	LEU	21	149.330	109.154	35.250	1.00	55.03	DS4	ATOM	706	O	TYR	27	152.696	119.898	44.303	1.00	89.40	DS
ATOM	654	C	LEU	21	149.500	109.547	39.670	1.00	96.70	DS4	ATOM	707	N	SER	28	151.919	118.679	46.028	1.00	73.86	DS

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ATOM	708	CA	SER	28	152.890	119.198	46.974	1.00	73.86	DS4	ATOM	761	CD	ARG	35	168.415	120.922	41.765	1.00134.59	DS	
ATOM	709	CB	SER	28	152.561	118.703	48.383	1.00175.80		DS4	ATOM	762	NE	ARG	35	169.214	121.746	42.626	1.00134.59	DS	
ATOM	710	CG	SER	28	151.276	119.143	48.786	1.00175.80		DS4	ATOM	763	CZ	ARG	35	170.371	122.323	42.356	1.00134.59	DS	
ATOM	711	C	SER	28	154.303	118.767	46.582	1.00	73.86	DS4	ATOM	764	NH1	ARG	35	170.880	122.175	41.140	1.00134.59	DS	
ATOM	712	O	SER	28	154.593	117.572	46.471	1.00	73.86	DS4	ATOM	765	NH2	ARG	35	171.020	123.051	43.255	1.00134.59	DS	
ATOM	713	N	PRO	29	155.212	119.745	46.420	1.00	85.75	DS4	ATOM	766	C	ARG	35	165.781	119.069	39.117	1.00201.09	DS	
ATOM	714	CD	PRO	29	155.080	120.980	47.205	1.00	53.05	DS4	ATOM	767	O	ARG	35	166.838	118.781	38.559	1.00201.09	DS	
ATOM	715	CA	PRO	29	156.617	119.576	46.041	1.00	85.75	DS4	ATOM	768	N	ARG	36	164.621	118.519	38.765	1.00141.13	DS	
ATOM	716	CB	PRO	29	157.361	120.494	47.021	1.00	53.05	DS4	ATOM	769	CA	ARG	36	164.609	117.528	37.695	1.00141.13	DS	
ATOM	717	CG	PRO	29	156.302	120.901	48.057	1.00	53.05	DS4	ATOM	770	CB	ARG	36	164.973	116.158	38.273	1.00	78.87	DS
ATOM	718	C	PRO	29	157.197	118.168	46.023	1.00	85.75	DS4	ATOM	771	CG	ARG	36	164.351	115.880	39.626	1.00	78.87	DS
ATOM	719	O	PRO	29	157.381	117.545	47.070	1.00	85.75	DS4	ATOM	772	CD	ARG	36	164.521	114.423	40.013	1.00	78.87	DS
ATOM	720	N	LYS	30	157.473	117.700	44.805	1.00111.86		DS4	ATOM	773	NE	ARG	36	165.922	114.021	40.054	1.00	78.87	DS
ATOM	721	CA	LYS	30	158.071	116.399	44.514	1.00111.86		DS4	ATOM	774	CZ	ARG	36	166.324	112.766	40.216	1.00	78.87	DS
ATOM	722	CB	LYS	30	157.563	115.307	45.467	1.00	98.64	DS4	ATOM	775	NH1	ARG	36	165.431	111.792	40.349	1.00	78.87	DS
ATOM	723	CG	LYS	30	158.342	115.192	46.795	1.00	98.64	DS4	ATOM	776	NH2	ARG	36	167.617	112.482	40.250	1.00	78.87	DS
ATOM	724	CD	LYS	30	159.876	115.302	46.639	1.00	98.64	DS4	ATOM	777	C	ARG	36	163.385	117.392	36.786	1.00141.13	DS	
ATOM	725	CE	LYS	30	160.382	116.760	46.693	1.00	98.64	DS4	ATOM	778	O	ARG	36	162.953	116.283	36.487	1.00141.13	DS	
ATOM	726	NZ	LYS	30	161.881	116.882	46.740	1.00	98.64	DS4	ATOM	779	N	PRO	37	162.805	118.517	36.336	1.00	83.23	DS
ATOM	727	C	LYS	30	157.883	115.949	43.062	1.00111.86		DS4	ATOM	780	CD	PRO	37	162.942	119.870	36.893	1.00	56.54	DS
ATOM	728	O	LYS	30	158.870	115.703	42.368	1.00111.86		DS4	ATOM	781	CA	PRO	37	161.640	118.452	35.445	1.00	83.23	DS
ATOM	729	N	CYS	31	156.639	115.847	42.595	1.00112.65		DS4	ATOM	782	CB	PRO	37	161.139	119.890	35.421	1.00	56.54	DS
ATOM	730	CA	CYS	31	156.380	115.414	41.216	1.00112.65		DS4	ATOM	783	CG	PRO	37	161.537	120.398	36.762	1.00	56.54	DS
ATOM	731	CB	CYS	31	154.873	115.387	40.935	1.00	24.30	DS4	ATOM	784	C	PRO	37	162.142	118.014	34.073	1.00	83.23	DS
ATOM	732	SG	CYS	31	154.364	114.734	39.328	1.00	24.30	DS4	ATOM	785	O	PRO	37	161.492	118.224	33.048	1.00	83.23	DS
ATOM	733	C	CYS	31	157.067	116.360	40.235	1.00112.65		DS4	ATOM	786	N	TYR	38	163.332	117.425	34.080	1.00	80.50	DS
ATOM	734	O	CYS	31	156.394	117.155	39.577	1.00112.65		DS4	ATOM	787	CA	TYR	38	163.968	116.933	32.876	1.00	80.50	DS
ATOM	735	N	ALA	32	158.401	116.271	40.152	1.00	70.36	DS4	ATOM	788	CB	TYR	38	165.432	117.362	32.848	1.00	58.83	DS
ATOM	736	CA	ALA	32	159.217	117.106	39.258	1.00	70.36	DS4	ATOM	789	CG	TYR	38	166.220	117.040	34.102	1.00	58.83	DS
ATOM	737	CB	ALA	32	158.894	116.782	37.793	1.00127.16		DS4	ATOM	790	CD1	TYR	38	166.437	115.724	34.502	1.00	58.83	DS
ATOM	738	C	ALA	32	159.014	118.597	39.503	1.00	70.36	DS4	ATOM	791	CE1	TYR	38	167.215	115.433	35.629	1.00	58.83	DS
ATOM	739	O	ALA	32	159.105	119.401	38.573	1.00	70.36	DS4	ATOM	792	CE2	TYR	38	166.796	118.057	34.866	1.00	58.83	DS
ATOM	740	N	MET	33	158.732	118.962	40.750	1.00100.18		DS4	ATOM	793	CE2	TYR	38	167.570	117.772	35.987	1.00	58.83	DS
ATOM	741	CA	MET	33	158.503	120.358	41.102	1.00100.18		DS4	ATOM	794	CZ	TYR	38	167.776	116.465	36.358	1.00	58.83	DS
ATOM	742	CB	MET	33	157.825	120.472	42.467	1.00	98.27	DS4	ATOM	795	OH	TYR	38	168.560	116.179	37.442	1.00	80.50	DS
ATOM	743	CG	MET	33	156.353	120.826	42.390	1.00	98.27	DS4	ATOM	796	C	TYR	38	163.864	115.416	32.835	1.00	80.50	DS
ATOM	744	SD	MET	33	156.077	122.454	41.661	1.00	98.27	DS4	ATOM	797	O	TYR	38	163.624	114.771	33.858	1.00	80.50	DS
ATOM	745	CE	MET	33	155.449	123.366	43.110	1.00	98.27	DS4	ATOM	798	N	PRO	39	164.052	114.824	31.647	1.00	72.67	DS
ATOM	746	C	MET	33	159.795	121.131	41.127	1.00100.18		DS4	ATOM	799	CD	PRO	39	164.477	115.472	30.395	1.00	67.94	DS
ATOM	747	O	MET	33	159.785	122.361	41.200	1.00100.18		DS4	ATOM	800	CA	PRO	39	163.973	113.368	31.484	1.00	72.67	DS
ATOM	748	N	GLU	34	160.910	120.412	41.065	1.00121.19		DS4	ATOM	801	CB	PRO	39	164.323	113.173	30.008	1.00	67.94	DS
ATOM	749	CA	GLU	34	162.205	121.071	41.090	1.00121.19		DS4	ATOM	802	CG	PRO	39	165.204	114.362	29.702	1.00	67.94	DS
ATOM	750	CB	GLU	34	162.421	121.724	42.461	1.00169.69		DS4	ATOM	803	C	PRO	39	164.870	112.560	32.432	1.00	72.67	DS
ATOM	751	CG	GLU	34	163.441	122.854	42.479	1.00169.69		DS4	ATOM	804	O	PRO	39	165.920	113.024	32.882	1.00	72.67	DS
ATOM	752	CD	GLU	34	162.932	124.106	41.794	1.00169.69		DS4	ATOM	805	N	PRO	40	164.451	111.331	32.750	1.00	62.59	DS
ATOM	753	OE1	GLU	34	162.645	124.055	40.579	1.00169.69		DS4	ATOM	806	CD	PRO	40	163.178	110.717	32.328	1.00	65.13	DS
ATOM	754	OE2	GLU	34	162.817	125.144	42.476	1.00169.69		DS4	ATOM	807	CA	PRO	40	165.188	110.436	33.644	1.00	62.59	DS
ATOM	755	C	GLU	34	163.373	120.137	40.779	1.00121.19		DS4	ATOM	808	CB	PRO	40	164.129	109.412	32.041	1.00	65.13	DS
ATOM	756	O	GLU	34	163.229	118.909	40.752	1.00121.19		DS4	ATOM	809	CG	PRO	40	163.344	109.269	32.778	1.00	65.13	DS
ATOM	757	N	ARG	35	164.526	120.762	40.547	1.00201.09		DS4	ATOM	810	C	PRO	40	166.388	109.777	32.978	1.00	62.59	DS
ATOM	758	CA	ARG	35	165.785	120.092	40.245	1.00201.09		DS4	ATOM	811	O	PRO	40	166.431	109.650	31.756	1.00	62.59	DS
ATOM	759	CB	ARG	35	166.359	119.443	41.512	1.00134.59		DS4	ATOM	812	N	GLY	41	167.363	109.365	33.784	1.00	50.98	DS
ATOM	760	CG	ARG	35	167.134	120.396	42.425	1.00134.59		DS4	ATOM	813	CA	GLY	41	168.527	108.696	33.235	1.00	50.98	DS

ATOM	814	C	GLY	41	169.833	109.463	33.088	1.00	50.98	DS4	ATOM	867	O	ARG	47	170.560	117.295	24.754	1.00	75.04	DS-
ATOM	815	O	GLY	41	169.889	110.688	33.130	1.00	50.98	DS4	ATOM	868	N	ALA	48	169.131	119.023	24.667	1.00	91.78	DS-
ATOM	816	M	GLN	42	170.895	108.699	32.889	1.00	56.87	DS4	ATOM	869	CA	ALA	48	168.162	118.306	23.843	1.00	91.78	DS-
ATOM	817	CA	GLN	42	172.233	109.225	32.730	1.00	56.87	DS4	ATOM	870	CB	ALA	48	166.749	118.598	24.328	1.00	91.77	DS-
ATOM	818	CB	GLN	42	173.135	108.100	32.224	1.00	79.82	DS4	ATOM	871	C	ALA	48	168.297	118.692	22.374	1.00	91.78	DS-
ATOM	819	CG	GLN	42	174.528	108.505	31.800	1.00	79.82	DS4	ATOM	872	O	ALA	48	168.539	119.853	22.049	1.00	91.78	DS-
ATOM	820	CD	GLN	42	175.430	107.298	31.605	1.00	79.82	DS4	ATOM	873	N	ARG	49	168.136	117.714	21.489	1.00	54.64	DS-
ATOM	821	OE1	GLN	42	176.366	107.335	30.808	1.00	79.82	DS4	ATOM	874	CA	ARG	49	168.238	117.962	20.058	1.00	54.64	DS-
ATOM	822	NE2	GLN	42	175.159	106.222	32.347	1.00	79.82	DS4	ATOM	875	CB	ARG	49	169.001	116.821	19.396	1.00	40.41	DS-
ATOM	823	C	GLN	42	172.355	110.442	31.820	1.00	56.87	DS4	ATOM	876	CG	ARG	49	170.386	116.617	19.968	1.00	40.41	DS-
ATOM	824	NE	GLN	42	173.337	111.184	31.907	1.00	56.87	DS4	ATOM	877	CD	ARG	49	171.050	115.403	19.353	1.00	40.41	DS-
ATOM	825	N	HIS	43	171.364	110.675	30.967	1.00	51.11	DS4	ATOM	878	NE	ARG	49	172.446	115.271	19.764	1.00	40.41	DS-
ATOM	826	CA	HIS	43	171.451	111.796	30.037	1.00	51.11	DS4	ATOM	879	NH2	ARG	49	173.262	114.303	19.351	1.00	40.41	DS-
ATOM	827	CB	HIS	43	171.308	111.270	28.610	1.00	59.54	DS4	ATOM	880	NH1	ARG	49	172.820	113.372	18.513	1.00	40.41	DS-
ATOM	828	CG	HIS	43	172.284	110.191	28.269	1.00	59.54	DS4	ATOM	881	C	ARG	49	174.522	114.268	19.768	1.00	54.64	DS-
ATOM	829	CD2	HIS	43	172.121	108.854	28.127	1.00	59.54	DS4	ATOM	882	C	ARG	49	166.853	118.106	19.426	1.00	54.64	DS-
ATOM	830	ND1	HIS	43	173.626	110.437	28.074	1.00	59.54	DS4	ATOM	883	O	ARG	49	166.871	117.559	19.927	1.00	54.64	DS-
ATOM	831	CE1	HIS	43	174.248	109.298	27.828	1.00	59.54	DS4	ATOM	884	N	ARG	50	166.784	118.857	18.331	1.00	69.49	DS-
ATOM	832	NE2	HIS	43	173.357	108.321	27.855	1.00	59.54	DS4	ATOM	885	CA	ARG	50	165.529	119.074	17.615	1.00	69.49	DS-
ATOM	833	C	HIS	43	170.467	112.940	30.256	1.00	51.11	DS4	ATOM	886	CB	ARG	50	165.781	119.763	16.271	1.00	32.85	DS-
ATOM	834	O	HIS	43	170.588	113.993	29.629	1.00	51.11	DS4	ATOM	887	CG	ARG	50	164.609	119.608	15.309	1.00	32.85	DS-
ATOM	835	N	GLY	44	169.499	112.735	31.140	1.00	58.14	DS4	ATOM	888	CD	ARG	50	165.050	119.476	13.861	1.00	32.85	DS-
ATOM	836	CA	GLY	44	168.499	113.757	31.404	1.00	58.14	DS4	ATOM	889	NE	ARG	50	165.291	120.771	13.233	1.00	32.85	DS-
ATOM	837	C	GLY	44	168.919	115.223	31.363	1.00	58.14	DS4	ATOM	890	CZ	ARG	50	165.617	120.932	11.953	1.00	32.85	DS-
ATOM	838	O	GLY	44	168.226	116.062	30.773	1.00	58.14	DS4	ATOM	891	NH1	ARG	50	165.746	119.877	11.465	1.00	32.85	DS-
ATOM	839	N	GLN	45	170.052	115.543	31.978	1.00	73.13	DS4	ATOM	892	NH2	ARG	50	165.807	122.152	11.155	1.00	32.85	DS-
ATOM	840	CA	GLN	45	170.498	116.925	32.027	1.00	73.13	DS4	ATOM	893	C	ARG	50	164.813	117.754	17.344	1.00	69.49	DS-
ATOM	841	CB	GLN	45	171.353	117.134	33.273	1.00	88.57	DS4	ATOM	894	O	ARG	50	165.273	116.938	16.546	1.00	69.49	DS-
ATOM	842	CG	GLN	45	170.587	116.900	34.567	1.00	88.57	DS4	ATOM	895	N	PRO	51	163.665	117.531	17.991	1.00	45.61	DS-
ATOM	843	CD	GLN	45	171.465	117.010	35.798	1.00	88.57	DS4	ATOM	896	CD	PRO	51	162.988	118.330	19.024	1.00	48.79	DS-
ATOM	844	OE1	GLN	45	172.079	118.049	36.047	1.00	88.57	DS4	ATOM	897	CA	PRO	51	162.951	116.278	17.753	1.00	45.61	DS-
ATOM	845	NE2	GLN	45	171.531	115.936	36.576	1.00	88.57	DS4	ATOM	898	CB	PRO	51	161.752	116.387	18.692	1.00	48.79	DS-
ATOM	846	C	GLN	45	171.222	117.443	30.791	1.00	73.13	DS4	ATOM	899	CG	PRO	51	162.255	117.269	19.787	1.00	48.79	DS-
ATOM	847	O	GLN	45	171.370	118.653	30.626	1.00	73.13	DS4	ATOM	900	C	PRO	51	162.516	116.157	15.612	1.00	45.61	DS-
ATOM	848	N	LYS	46	171.666	116.542	29.920	1.00	63.08	DS4	ATOM	901	O	PRO	51	162.312	117.170	15.612	1.00	45.61	DS-
ATOM	849	CA	LYS	46	172.358	116.947	28.697	1.00	63.08	DS4	ATOM	902	N	SER	52	162.386	114.923	15.813	1.00	32.22	DS-
ATOM	850	CB	LYS	46	172.863	115.722	27.944	1.00	62.87	DS4	ATOM	903	CA	SER	52	161.927	114.683	14.446	1.00	32.22	DS-
ATOM	851	CG	LYS	46	173.903	114.907	28.694	1.00	62.87	DS4	ATOM	904	CB	SER	52	162.370	113.302	13.965	1.00	59.83	DS-
ATOM	852	CD	LYS	46	174.421	113.768	27.834	1.00	62.87	DS4	ATOM	905	CG	SER	52	162.010	112.301	14.900	1.00	59.83	DS-
ATOM	853	CE	LYS	46	175.577	113.058	28.501	1.00	62.87	DS4	ATOM	906	C	SER	52	160.399	114.757	14.459	1.00	32.22	DS-
ATOM	854	NZ	LYS	46	176.007	111.888	27.697	1.00	62.87	DS4	ATOM	907	O	SER	52	159.772	114.589	15.509	1.00	32.22	DS-
ATOM	855	C	LYS	46	171.416	117.731	27.793	1.00	63.08	DS4	ATOM	908	N	ASP	53	159.789	115.018	13.310	1.00	54.87	DS-
ATOM	856	O	LYS	46	170.196	117.446	27.944	1.00	63.08	DS4	ATOM	909	CA	ASP	53	158.336	115.091	13.277	1.00	54.87	DS-
ATOM	857	N	ARG	47	171.983	118.482	26.850	1.00	75.04	DS4	ATOM	910	CB	ASP	53	157.830	115.189	11.834	1.00	82.37	DS-
ATOM	858	CA	ARG	47	171.200	119.293	25.911	1.00	75.04	DS4	ATOM	911	CG	ASP	53	158.106	116.547	11.208	1.00	82.37	DS-
ATOM	859	CB	ARG	47	172.135	120.079	24.987	1.00	109.86	DS4	ATOM	912	OD1	ASP	53	159.226	117.066	11.399	1.00	82.37	DS-
ATOM	860	CG	ARG	47	171.457	120.644	23.746	1.00	109.86	DS4	ATOM	913	OD2	ASP	53	157.212	117.090	10.519	1.00	82.37	DS-
ATOM	861	CD	ARG	47	172.483	121.089	22.717	1.00	109.86	DS4	ATOM	914	C	ASP	53	157.781	113.845	13.963	1.00	54.87	DS-
ATOM	862	NE	ARG	47	171.885	121.340	21.408	1.00	109.86	DS4	ATOM	915	O	ASP	53	156.772	113.921	14.664	1.00	54.87	DS-
ATOM	863	CZ	ARG	47	172.566	121.732	20.334	1.00	109.86	DS4	ATOM	916	N	TYR	54	158.451	112.706	13.778	1.00	43.01	DS-
ATOM	864	NH1	ARG	47	173.877	121.921	20.405	1.00	109.86	DS4	ATOM	917	CA	TYR	54	158.010	111.464	14.399	1.00	43.01	DS-
ATOM	865	NH2	ARG	47	171.935	121.936	19.186	1.00	109.86	DS4	ATOM	918	CB	TYR	54	158.909	110.295	13.995	1.00	37.77	DS-
ATOM	866	C	ARG	47	170.261	118.447	25.060	1.00	75.04	DS4	ATOM	919	CG	TYR	54	158.438	108.983	14.581	1.00	37.77	DS-

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ATOM	920	CDI TYR	54	157.279	108.380	14.117	1.00	37.77	DS4	ATOM	973	CG GLU	60	150.617	115.408	21.381	1.00	60.72	DS
ATOM	921	CE2 TYR	54	156.776	107.216	14.705	1.00	37.77	DS4	ATOM	974	CD GLU	60	151.031	116.622	22.213	1.00	60.72	DS
ATOM	922	CE2 TYR	54	159.100	108.383	15.655	1.00	37.77	DS4	ATOM	975	OEL GLU	60	151.986	116.516	23.011	1.00	60.72	DS
ATOM	923	CE2 TYR	54	158.602	107.214	16.254	1.00	37.77	DS4	ATOM	976	OEL GLU	60	150.385	117.684	22.075	1.00	60.72	DS
ATOM	924	C2 TYR	54	157.434	106.640	15.770	1.00	37.77	DS4	ATOM	977	C GLU	60	151.406	112.543	22.408	1.00	49.13	DS
ATOM	925	OH TYR	54	156.890	105.505	16.342	1.00	37.77	DS4	ATOM	978	O GLU	60	150.658	112.608	23.382	1.00	49.13	DS
ATOM	926	C TYR	54	158.068	111.636	15.913	1.00	43.01	DS4	ATOM	979	N LYS	61	151.445	111.482	21.607	1.00	47.79	DS
ATOM	927	O TYR	54	157.072	111.459	16.618	1.00	43.01	DS4	ATOM	980	CA LYS	61	150.568	110.337	21.839	1.00	47.79	DS
ATOM	928	N ALA	55	159.251	111.988	16.405	1.00	50.97	DS4	ATOM	981	CB LYS	61	150.728	109.286	20.745	1.00	55.60	DS
ATOM	929	CA ALA	55	159.466	112.198	17.828	1.00	50.97	DS4	ATOM	982	CG LYS	61	149.833	108.080	20.968	1.00	55.60	DS
ATOM	930	ALA	55	160.799	112.873	18.051	1.00	26.30	DS4	ATOM	983	CD LYS	61	150.315	106.878	20.189	1.00	55.60	DS
ATOM	931	C ALA	55	158.349	113.034	18.435	1.00	50.97	DS4	ATOM	984	CE LYS	61	151.510	106.212	20.848	1.00	55.60	DS
ATOM	932	O ALA	55	157.761	112.649	19.439	1.00	50.97	DS4	ATOM	985	NZ LYS	61	151.127	105.534	22.111	1.00	55.60	DS
ATOM	933	N VAL	56	158.044	114.172	17.825	1.00	45.32	DS4	ATOM	986	C LYS	61	150.854	109.676	23.178	1.00	47.79	DS
ATOM	934	CA VAL	56	156.989	115.021	18.357	1.00	45.32	DS4	ATOM	987	O LYS	61	149.935	109.381	23.927	1.00	47.79	DS
ATOM	935	CB VAL	56	156.827	116.325	17.546	1.00	36.44	DS4	ATOM	988	N GLN	62	152.130	109.428	23.463	1.00	53.66	DS
ATOM	936	CG VAL	56	155.745	117.186	18.178	1.00	36.44	DS4	ATOM	989	CA GLN	62	152.541	108.803	24.719	1.00	53.66	DS
ATOM	937	CG2 VAL	56	158.153	117.085	17.501	1.00	36.44	DS4	ATOM	990	CB GLN	62	154.071	108.742	24.802	1.00	67.92	DS
ATOM	938	C VAL	56	155.639	114.312	18.402	1.00	45.32	DS4	ATOM	991	CG GLN	62	154.685	107.765	23.814	1.00	67.92	DS
ATOM	939	O VAL	56	154.956	114.343	19.429	1.00	45.32	DS4	ATOM	992	CD GLN	62	154.271	106.328	24.089	1.00	67.92	DS
ATOM	940	N ARG	57	155.243	113.691	17.292	1.00	42.62	DS4	ATOM	993	OEL GLN	62	154.845	105.657	24.940	1.00	67.92	DS
ATOM	941	CA ARG	57	153.968	112.981	17.248	1.00	42.62	DS4	ATOM	994	NE2 GLN	62	153.258	105.859	23.375	1.00	67.92	DS
ATOM	942	CB ARG	57	153.678	112.431	15.855	1.00	49.58	DS4	ATOM	995	C GLN	62	151.998	109.577	25.908	1.00	53.66	DS
ATOM	943	CG ARG	57	152.937	113.365	14.920	1.00	49.58	DS4	ATOM	996	O GLN	62	151.656	109.009	26.939	1.00	53.66	DS
ATOM	944	CD ARG	57	153.836	114.411	14.344	1.00	49.58	DS4	ATOM	997	N LYS	63	151.924	110.887	25.754	1.00	50.78	DS
ATOM	945	NE ARG	57	153.148	115.166	13.309	1.00	49.58	DS4	ATOM	998	CA LYS	63	151.418	111.751	26.803	1.00	50.78	DS
ATOM	946	C2 ARG	57	154.560	116.982	13.487	1.00	49.58	DS4	ATOM	999	CB LYS	63	151.635	113.205	26.390	1.00	60.83	DS
ATOM	947	NH1 ARG	57	154.029	111.819	18.216	1.00	42.62	DS4	ATOM	1000	CG LYS	63	151.393	114.214	27.480	1.00	60.83	DS
ATOM	948	NH2 ARG	57	152.822	117.011	11.973	1.00	49.58	DS4	ATOM	1001	CD LYS	63	151.416	115.621	26.912	1.00	60.83	DS
ATOM	949	C ARG	57	154.029	111.819	18.216	1.00	42.62	DS4	ATOM	1002	CE LYS	63	152.753	115.944	26.273	1.00	60.83	DS
ATOM	950	O ARG	57	153.055	111.514	18.889	1.00	44.82	DS4	ATOM	1003	NZ LYS	63	152.695	117.271	25.616	1.00	50.78	DS
ATOM	951	N LEU	58	155.178	111.163	18.289	1.00	47.52	DS4	ATOM	1004	C LYS	63	149.928	111.453	26.977	1.00	50.78	DS
ATOM	952	CA LEU	58	155.292	110.043	19.194	1.00	47.52	DS4	ATOM	1005	O LYS	63	149.511	110.827	27.953	1.00	50.78	DS
ATOM	953	CB LEU	58	156.636	109.331	18.995	1.00	44.82	DS4	ATOM	1006	N LEU	64	147.699	111.889	26.006	1.00	43.01	DS
ATOM	954	CG LEU	58	156.904	108.007	19.738	1.00	44.82	DS4	ATOM	1007	CA LEU	64	147.105	111.873	24.626	1.00	34.04	DS
ATOM	955	CD1 LEU	58	157.445	108.296	21.116	1.00	44.82	DS4	ATOM	1008	CB LEU	64	145.579	111.967	24.444	1.00	34.04	DS
ATOM	956	CD2 LEU	58	155.630	107.165	19.810	1.00	44.82	DS4	ATOM	1009	CG LEU	64	144.989	110.638	24.099	1.00	34.04	DS
ATOM	957	C LEU	58	155.127	110.538	20.635	1.00	47.52	DS4	ATOM	1010	CD1 LEU	64	144.953	112.499	25.716	1.00	34.04	DS
ATOM	958	O LEU	58	154.316	109.998	21.393	1.00	47.52	DS4	ATOM	1011	C LEU	64	147.363	110.283	26.543	1.00	43.01	DS
ATOM	959	N ARG	59	155.871	111.577	21.009	1.00	54.11	DS4	ATOM	1012	O LEU	64	146.331	110.088	27.165	1.00	43.01	DS
ATOM	960	CA ARG	59	155.770	112.105	22.364	1.00	54.11	DS4	ATOM	1013	N ARG	65	148.239	109.319	26.299	1.00	59.45	DS
ATOM	961	CB ARG	59	156.721	113.281	22.580	1.00	55.79	DS4	ATOM	1014	N ARG	65	147.741	109.954	25.810	1.00	51.48	DS
ATOM	962	CD ARG	59	158.192	112.988	22.433	1.00	55.79	DS4	ATOM	1015	CB ARG	65	148.666	106.954	26.366	1.00	51.48	DS
ATOM	963	CD ARG	59	158.581	111.618	22.939	1.00	55.79	DS4	ATOM	1016	CG ARG	65	148.851	104.515	25.276	1.00	51.48	DS
ATOM	964	NE ARG	59	157.969	111.258	24.209	1.00	55.79	DS4	ATOM	1017	CG ARG	65	149.789	103.454	25.641	1.00	51.48	DS
ATOM	965	C2 ARG	59	158.080	110.049	24.752	1.00	55.79	DS4	ATOM	1018	CD ARG	65	151.111	103.598	25.664	1.00	51.48	DS
ATOM	966	NH1 ARG	59	158.788	109.115	24.133	1.00	55.79	DS4	ATOM	1019	CE ARG	65	151.664	104.762	25.350	1.00	51.48	DS
ATOM	967	NH2 ARG	59	154.454	109.751	25.884	1.00	54.11	DS4	ATOM	1020	NH1 ARG	65	151.886	102.569	25.968	1.00	51.48	DS
ATOM	968	C ARG	59	153.879	112.345	23.822	1.00	54.11	DS4	ATOM	1021	NH2 ARG	65	148.379	107.654	28.174	1.00	59.45	DS
ATOM	969	O ARG	59	153.885	113.220	21.774	1.00	49.13	DS4	ATOM	1022	C ARG	65	147.590	107.095	28.928	1.00	59.45	DS
ATOM	970	N GLU	60	152.354	113.695	20.086	1.00	60.72	DS4	ATOM	1023	O ARG	66	149.597	107.999	28.558	1.00	58.40	DS
ATOM	971	CA GLU	60	151.795	114.540	20.944	1.00	60.72	DS4	ATOM	1024	N ARG	66						DS
ATOM	972	CB GLU	60						DS4	ATOM	1025	N ARG	66						DS

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ATOM	1026	CA	ARG	66	150.026	107.728	29.921	1.00	58.40	DS4	ATOM	1079	OE1	GLU	72	149.359	102.774	19.669	1.00	77.35	DS
ATOM	1027	CB	ARG	66	151.501	108.067	30.072	1.00	51.49	DS4	ATOM	1080	OE2	GLU	72	149.666	103.325	21.777	1.00	77.35	DS
ATOM	1028	CG	ARG	66	152.373	107.082	29.340	1.00	51.49	DS4	ATOM	1081	C	GLU	72	147.363	100.262	22.803	1.00	52.54	DS
ATOM	1029	CD	ARG	66	153.781	107.587	29.177	1.00	51.49	DS4	ATOM	1082	O	GLU	72	146.481	100.836	22.172	1.00	52.54	DS
ATOM	1030	NE	ARG	66	154.637	106.530	28.657	1.00	51.49	DS4	ATOM	1083	N	ARG	73	147.381	98.947	22.998	1.00	55.34	DS
ATOM	1031	CZ	ARG	66	155.942	106.657	28.435	1.00	51.49	DS4	ATOM	1084	CA	ARG	73	146.360	98.077	22.433	1.00	55.34	DS
ATOM	1032	NH1	ARG	66	156.559	107.812	28.681	1.00	51.49	DS4	ATOM	1085	CB	ARG	73	146.425	96.701	23.088	1.00	104.78	DS
ATOM	1033	NH2	ARG	66	156.637	105.618	27.983	1.00	51.49	DS4	ATOM	1086	CG	ARG	73	145.674	95.629	22.333	1.00	104.78	DS
ATOM	1034	C	ARG	66	149.174	108.487	30.932	1.00	58.40	DS4	ATOM	1087	CD	ARG	73	146.196	95.543	20.926	1.00	104.78	DS
ATOM	1035	O	ARG	66	149.193	108.188	32.123	1.00	58.40	DS4	ATOM	1088	NE	ARG	73	145.676	94.386	20.215	1.00	104.78	DS
ATOM	1036	CA	ILE	67	148.413	109.461	30.449	1.00	54.96	DS4	ATOM	1089	CZ	ARG	73	145.880	94.168	18.921	1.00	104.78	DS
ATOM	1037	CB	ILE	67	147.535	110.222	31.318	1.00	54.96	DS4	ATOM	1090	NH1	ARG	73	146.590	95.036	18.211	1.00	104.78	DS
ATOM	1038	CB	ILE	67	146.917	111.424	30.575	1.00	61.07	DS4	ATOM	1091	NH2	ARG	73	145.376	93.088	18.338	1.00	104.78	DS
ATOM	1039	CG2	ILE	67	145.642	111.882	31.268	1.00	61.07	DS4	ATOM	1092	C	ARG	73	144.951	98.651	22.575	1.00	55.34	DS
ATOM	1040	CG1	ILE	67	147.943	112.559	30.500	1.00	61.07	DS4	ATOM	1093	O	ARG	73	144.262	98.847	21.577	1.00	55.34	DS
ATOM	1041	CD1	ILE	67	147.412	113.840	29.869	1.00	61.07	DS4	ATOM	1094	N	GLN	74	144.525	98.923	23.811	1.00	40.60	DS
ATOM	1042	C	ILE	67	146.422	109.309	31.826	1.00	54.96	DS4	ATOM	1095	CA	GLN	74	143.190	99.476	24.068	1.00	40.60	DS
ATOM	1043	N	TYR	68	145.015	109.390	32.986	1.00	54.96	DS4	ATOM	1096	CB	GLN	74	142.872	99.458	25.564	1.00	73.67	DS
ATOM	1044	O	TYR	68	145.927	108.435	30.958	1.00	55.87	DS4	ATOM	1097	CG	GLN	74	142.539	98.088	26.131	1.00	73.67	DS
ATOM	1045	CA	TYR	68	144.869	107.517	31.353	1.00	55.87	DS4	ATOM	1098	CD	GLN	74	141.671	98.184	27.378	1.00	73.67	DS
ATOM	1046	CB	TYR	68	143.815	107.415	30.262	1.00	48.95	DS4	ATOM	1099	OE1	GLN	74	142.011	98.879	28.340	1.00	73.67	DS
ATOM	1047	CG	TYR	68	143.137	108.713	29.944	1.00	48.95	DS4	ATOM	1100	NE2	GLN	74	140.540	97.489	27.365	1.00	73.67	DS
ATOM	1048	CD1	TYR	68	143.829	109.755	29.334	1.00	48.95	DS4	ATOM	1101	C	GLN	74	143.061	100.900	23.552	1.00	40.60	DS
ATOM	1049	CE1	TYR	68	143.186	110.944	28.993	1.00	48.95	DS4	ATOM	1102	O	GLN	74	142.060	101.256	22.930	1.00	40.60	DS
ATOM	1050	CE2	TYR	68	141.788	108.891	30.213	1.00	48.95	DS4	ATOM	1103	N	PHE	75	144.080	101.707	23.825	1.00	50.99	DS
ATOM	1051	CE2	TYR	68	141.132	110.074	29.879	1.00	48.95	DS4	ATOM	1104	CA	PHE	75	144.128	103.101	23.390	1.00	50.99	DS
ATOM	1052	CZ	TYR	68	141.833	111.093	29.269	1.00	48.95	DS4	ATOM	1105	CB	PHE	75	145.511	103.673	23.707	1.00	50.64	DS
ATOM	1053	OH	TYR	68	141.167	112.249	28.928	1.00	48.95	DS4	ATOM	1106	CG	PHE	75	145.634	105.149	23.475	1.00	50.64	DS
ATOM	1054	C	TYR	68	145.435	106.134	31.626	1.00	55.87	DS4	ATOM	1107	CD1	PHE	75	145.662	106.032	24.544	1.00	50.64	DS
ATOM	1055	O	TYR	68	144.711	105.139	31.567	1.00	55.87	DS4	ATOM	1108	CD2	PHE	75	145.761	105.655	22.191	1.00	50.64	DS
ATOM	1056	N	GLY	69	146.731	106.082	31.921	1.00	75.49	DS4	ATOM	1109	CE1	PHE	75	145.822	107.399	24.334	1.00	50.64	DS
ATOM	1057	CA	GLY	69	147.387	104.817	32.204	1.00	75.49	DS4	ATOM	1110	CE2	PHE	75	145.921	107.021	21.975	1.00	50.64	DS
ATOM	1058	C	GLY	69	146.778	103.656	31.444	1.00	75.49	DS4	ATOM	1111	CZ	PHE	75	145.953	107.889	23.048	1.00	50.64	DS
ATOM	1059	O	GLY	69	146.429	102.637	32.034	1.00	75.49	DS4	ATOM	1112	C	PHE	75	143.855	103.206	21.880	1.00	50.99	DS
ATOM	1060	N	ILE	70	146.654	103.808	30.130	1.00	72.46	DS4	ATOM	1113	O	PHE	75	142.965	103.946	21.446	1.00	50.99	DS
ATOM	1061	CA	ILE	70	146.069	102.773	29.293	1.00	72.46	DS4	ATOM	1114	N	ARG	76	144.633	102.455	21.099	1.00	39.69	DS
ATOM	1062	CB	ILE	70	144.859	103.342	28.543	1.00	49.68	DS4	ATOM	1115	CA	ARG	76	144.533	102.414	19.639	1.00	39.69	DS
ATOM	1063	CG2	ILE	70	144.955	103.092	27.055	1.00	49.68	DS4	ATOM	1116	CB	ARG	76	145.527	101.368	17.585	1.00	79.59	DS
ATOM	1064	CG1	ILE	70	143.599	102.713	29.087	1.00	49.68	DS4	ATOM	1117	CG	ARG	76	145.635	101.368	17.585	1.00	79.59	DS
ATOM	1065	CD1	ILE	70	142.407	103.145	28.310	1.00	49.68	DS4	ATOM	1118	CD	ARG	76	146.258	102.656	17.101	1.00	79.59	DS
ATOM	1066	C	ILE	70	147.060	102.150	28.311	1.00	72.46	DS4	ATOM	1119	NE	ARG	76	146.085	102.879	15.666	1.00	79.59	DS
ATOM	1067	O	ILE	70	148.042	102.782	27.908	1.00	72.46	DS4	ATOM	1120	CZ	ARG	76	146.724	102.219	14.703	1.00	79.59	DS
ATOM	1068	N	SER	71	146.790	100.901	27.936	1.00	59.69	DS4	ATOM	1121	NH1	ARG	76	147.603	101.265	15.003	1.00	79.59	DS
ATOM	1069	CA	SER	71	147.641	100.152	27.015	1.00	59.69	DS4	ATOM	1122	NH2	ARG	76	146.488	102.527	13.432	1.00	79.59	DS
ATOM	1070	CB	SER	71	147.279	98.670	27.050	1.00	74.52	DS4	ATOM	1123	C	ARG	76	143.118	102.078	19.141	1.00	39.69	DS
ATOM	1071	OG	SER	71	145.945	98.475	26.605	1.00	74.52	DS4	ATOM	1124	O	ARG	76	142.539	102.768	18.278	1.00	39.69	DS
ATOM	1072	C	SER	71	147.485	100.650	25.594	1.00	59.69	DS4	ATOM	1125	N	ASN	77	142.539	101.015	19.679	1.00	43.51	DS
ATOM	1073	O	SER	71	146.400	101.067	25.193	1.00	59.69	DS4	ATOM	1126	CA	ASN	77	141.206	100.615	19.263	1.00	43.51	DS
ATOM	1074	N	GLU	72	148.567	100.604	24.827	1.00	52.54	DS4	ATOM	1127	CB	ASN	77	140.794	99.331	19.988	1.00	79.34	DS
ATOM	1075	CA	GLU	72	148.497	101.043	23.446	1.00	52.54	DS4	ATOM	1128	CG	ASN	77	141.746	98.176	19.709	1.00	79.34	DS
ATOM	1076	CB	GLU	72	149.808	100.755	22.722	1.00	77.35	DS4	ATOM	1129	OD1	ASN	77	142.081	97.895	18.554	1.00	79.34	DS
ATOM	1077	CG	GLU	72	149.741	101.005	21.227	1.00	77.35	DS4	ATOM	1130	ND2	ASN	77	142.181	97.497	20.763	1.00	79.34	DS
ATOM	1078	CD	GLU	72	149.574	102.474	20.868	1.00	77.35	DS4	ATOM	1131	C	ASN	77	140.186	101.731	19.504	1.00	43.51	DS

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ATOM	1132	O	ASN	77	139.223	101.888	18.741	1.00	43.51	DS4	ATOM	1185	CD	LYS	84	135.476	102.074	12.392	1.00	68.13	DS
ATOM	1133	N	LEU	78	140.397	102.505	20.568	1.00	46.11	DS4	ATOM	1186	CE	LYS	84	136.755	101.248	12.224	1.00	68.13	DS
ATOM	1134	OR	LEU	78	139.515	103.620	20.882	1.00	46.11	DS4	ATOM	1187	NZ	LYS	84	136.609	99.825	12.668	1.00	68.13	DS
ATOM	1135	CB	LEU	78	139.894	104.241	22.209	1.00	33.96	DS4	ATOM	1188	C	LYS	84	133.567	106.723	12.551	1.00	62.70	DS
ATOM	1136	CB	LEU	78	138.934	103.872	23.326	1.00	33.96	DS4	ATOM	1189	O	LYS	84	132.848	107.177	11.655	1.00	62.70	DS
ATOM	1137	CDI	LEU	78	139.368	104.585	24.609	1.00	33.96	DS4	ATOM	1190	N	LYS	85	133.319	106.912	13.839	1.00	73.19	DS
ATOM	1138	CDI	LEU	78	137.508	104.263	22.917	1.00	33.96	DS4	ATOM	1191	CA	LYS	85	132.154	107.659	14.266	1.00	73.19	DS
ATOM	1139	C	LEU	78	139.668	104.659	19.804	1.00	46.11	DS4	ATOM	1192	CB	LYS	85	132.061	107.624	15.792	1.00	79.03	DS
ATOM	1140	O	LEU	78	138.694	105.256	19.357	1.00	46.11	DS4	ATOM	1193	CG	LYS	85	131.813	106.215	16.320	1.00	79.03	DS
ATOM	1141	N	PHE	79	140.910	104.882	19.393	1.00	35.64	DS4	ATOM	1194	CD	LYS	85	131.880	106.143	17.826	1.00	79.03	DS
ATOM	1142	OR	PHE	79	141.180	105.844	18.341	1.00	35.64	DS4	ATOM	1195	CE	LYS	85	130.781	106.943	18.477	1.00	79.03	DS
ATOM	1143	CB	PHE	79	142.676	105.959	18.071	1.00	49.36	DS4	ATOM	1196	NZ	LYS	85	130.950	106.934	19.955	1.00	79.03	DS
ATOM	1144	CG	PHE	79	142.994	106.930	16.990	1.00	49.36	DS4	ATOM	1197	C	LYS	85	132.225	109.086	13.746	1.00	73.19	DS
ATOM	1145	CDI	PHE	79	142.852	108.297	17.211	1.00	49.36	DS4	ATOM	1198	O	LYS	85	133.310	109.650	13.602	1.00	73.19	DS
ATOM	1146	CEI	PHE	79	143.328	106.482	15.717	1.00	49.36	DS4	ATOM	1199	N	LYS	86	131.061	109.654	13.445	1.00	67.06	DS
ATOM	1147	CEI	PHE	79	143.027	109.203	16.179	1.00	49.36	DS4	ATOM	1200	CA	LYS	86	130.968	111.020	12.941	1.00	67.06	DS
ATOM	1148	CE2	PHE	79	143.506	107.375	14.676	1.00	49.36	DS4	ATOM	1201	CB	LYS	86	129.502	111.404	12.725	1.00	83.64	DS
ATOM	1149	CZ	PHE	79	143.354	108.741	14.903	1.00	49.36	DS4	ATOM	1202	CG	LYS	86	128.772	110.600	11.666	1.00	83.64	DS
ATOM	1150	C	PHE	79	140.471	105.439	17.047	1.00	35.64	DS4	ATOM	1203	CD	LYS	86	127.384	111.171	11.429	1.00	83.64	DS
ATOM	1151	O	PHE	79	139.774	106.241	16.442	1.00	35.64	DS4	ATOM	1204	CE	LYS	86	126.695	110.511	10.241	1.00	83.64	DS
ATOM	1152	N	GLU	80	140.643	104.193	16.621	1.00	39.16	DS4	ATOM	1205	NZ	LYS	86	125.365	111.136	9.936	1.00	83.64	DS
ATOM	1153	CA	GLU	80	139.991	103.754	15.395	1.00	39.16	DS4	ATOM	1206	C	LYS	86	131.594	112.013	13.916	1.00	67.06	DS
ATOM	1154	CB	GLU	80	140.461	102.353	14.996	1.00	72.44	DS4	ATOM	1207	O	LYS	86	131.808	111.694	15.085	1.00	67.06	DS
ATOM	1155	CG	GLU	80	141.947	102.296	14.630	1.00	72.44	DS4	ATOM	1208	N	GLY	87	131.892	113.216	13.434	1.00	60.56	DS
ATOM	1156	CG	GLU	80	142.296	103.100	13.373	1.00	72.44	DS4	ATOM	1209	CA	GLY	87	132.452	114.235	14.307	1.00	60.56	DS
ATOM	1157	OE1	GLU	80	143.498	103.388	13.166	1.00	72.44	DS4	ATOM	1210	C	GLY	87	133.958	114.272	14.436	1.00	60.56	DS
ATOM	1158	OE2	GLU	80	141.379	103.434	12.588	1.00	72.44	DS4	ATOM	1211	O	GLY	87	134.629	113.242	14.338	1.00	60.56	DS
ATOM	1159	C	GLU	80	138.480	103.794	15.550	1.00	39.16	DS4	ATOM	1212	N	VAL	88	134.485	115.478	14.600	1.00	47.80	DS
ATOM	1160	O	GLU	80	137.755	103.789	14.562	1.00	39.16	DS4	ATOM	1213	CA	VAL	88	135.914	115.674	14.732	1.00	47.80	DS
ATOM	1161	N	GLU	81	138.006	103.836	16.792	1.00	63.45	DS4	ATOM	1214	CB	VAL	88	136.237	116.984	15.464	1.00	31.70	DS
ATOM	1162	CA	GLU	81	136.571	103.922	17.057	1.00	63.45	DS4	ATOM	1215	CGI	VAL	88	137.754	117.119	15.652	1.00	31.70	DS
ATOM	1163	CB	GLU	81	136.273	103.685	18.533	1.00	76.76	DS4	ATOM	1216	CGI	VAL	88	135.685	118.159	14.676	1.00	31.70	DS
ATOM	1164	CG	GLU	81	135.686	102.347	18.857	1.00	76.76	DS4	ATOM	1217	C	VAL	88	136.544	114.536	15.498	1.00	47.80	DS
ATOM	1165	OE1	GLU	81	134.543	102.454	19.841	1.00	76.76	DS4	ATOM	1218	O	VAL	88	136.412	114.442	16.718	1.00	47.80	DS
ATOM	1166	OE1	GLU	81	134.444	102.891	19.436	1.00	76.76	DS4	ATOM	1219	N	THR	89	137.230	113.668	14.769	1.00	40.58	DS
ATOM	1167	OE2	GLU	81	134.747	102.107	21.021	1.00	76.76	DS4	ATOM	1220	CA	THR	89	137.892	112.530	15.382	1.00	40.58	DS
ATOM	1168	C	GLU	81	136.163	105.341	16.730	1.00	63.45	DS4	ATOM	1221	CB	THR	89	138.913	111.921	14.405	1.00	46.58	DS
ATOM	1169	O	GLU	81	135.232	105.594	15.969	1.00	63.45	DS4	ATOM	1222	OGI	THR	89	138.222	111.444	13.241	1.00	46.58	DS
ATOM	1170	N	ALA	82	136.692	106.268	17.331	1.00	45.83	DS4	ATOM	1223	CG2	THR	89	139.657	110.772	15.059	1.00	46.58	DS
ATOM	1171	CA	ALA	82	136.640	107.677	17.153	1.00	45.83	DS4	ATOM	1224	C	THR	89	138.591	112.952	16.675	1.00	40.58	DS
ATOM	1172	CB	ALA	82	137.471	108.461	18.146	1.00	37.73	DS4	ATOM	1225	O	THR	89	138.372	112.376	17.732	1.00	40.58	DS
ATOM	1173	C	ALA	82	136.940	108.151	15.739	1.00	45.83	DS4	ATOM	1226	N	GLY	90	139.410	113.987	16.579	1.00	62.53	DS
ATOM	1174	O	ALA	82	136.647	109.293	15.388	1.00	45.83	DS4	ATOM	1227	CA	GLY	90	140.139	114.468	17.734	1.00	62.53	DS
ATOM	1175	N	SER	83	137.535	107.290	14.924	1.00	59.72	DS4	ATOM	1228	C	GLY	90	139.386	114.474	19.045	1.00	62.53	DS
ATOM	1176	CA	SER	83	137.861	107.691	13.569	1.00	59.72	DS4	ATOM	1229	O	GLY	90	139.784	113.797	19.991	1.00	62.53	DS
ATOM	1177	CB	SER	83	139.137	107.002	13.094	1.00	69.34	DS4	ATOM	1230	N	SER	91	138.304	115.241	19.118	1.00	60.66	DS
ATOM	1178	CG	SER	83	140.237	107.343	13.918	1.00	69.34	DS4	ATOM	1231	CA	SER	91	137.548	115.314	20.356	1.00	60.66	DS
ATOM	1179	C	SER	83	136.726	107.330	12.646	1.00	59.72	DS4	ATOM	1232	CB	SER	91	136.634	116.547	20.358	1.00	75.10	DS
ATOM	1180	O	SER	83	136.566	107.928	11.583	1.00	59.72	DS4	ATOM	1233	OG	SER	91	135.838	116.614	19.197	1.00	75.10	DS
ATOM	1181	N	LYS	84	135.931	106.350	13.053	1.00	62.70	DS4	ATOM	1234	C	SER	91	136.758	114.039	20.635	1.00	60.66	DS
ATOM	1182	CA	LYS	84	134.815	105.913	12.230	1.00	62.70	DS4	ATOM	1235	O	SER	91	136.778	113.529	21.755	1.00	60.66	DS
ATOM	1183	CB	LYS	84	134.554	104.420	12.455	1.00	68.13	DS4	ATOM	1236	N	VAL	92	136.075	113.510	19.629	1.00	41.40	DS
ATOM	1184	CG	LYS	84	135.746	103.545	12.115	1.00	68.13	DS4	ATOM	1237	CA	VAL	92	135.319	112.274	19.820	1.00	41.40	DS

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ATOM	1238	CB	VAL	92	134.900	111.672	18.484	1.00	30.08	DS4	ATOM	1291	N	SER	99	135.160	108.587	29.103	1.00	37.43	DS-
ATOM	1239	CG2 VAL	92	134.290	110.291	18.699	1.00	30.08	DS4	ATOM	1292	CA	SER	99	133.979	107.778	29.418	1.00	37.43	DS-	
ATOM	1240	CG2 VAL	92	133.919	112.600	17.803	1.00	30.08	DS4	ATOM	1293	CB	SER	99	133.139	107.547	28.170	1.00	38.58	DS-	
ATOM	1241	C VAL	92	136.177	111.241	20.552	1.00	41.40	DS4	ATOM	1294	OG	SER	99	132.682	108.777	27.664	1.00	38.58	DS-	
ATOM	1242	O VAL	92	135.686	110.473	21.383	1.00	41.40	DS4	ATOM	1295	C SER	99	134.301	106.426	30.068	1.00	37.43	DS-		
ATOM	1243	N PHE	93	137.462	111.233	20.220	1.00	60.70	DS4	ATOM	1296	O SER	99	133.402	105.624	30.363	1.00	37.43	DS		
ATOM	1244	CA PHE	93	138.423	110.332	20.831	1.00	60.70	DS4	ATOM	1297	N ARG	100	135.583	106.164	30.286	1.00	57.46	DS		
ATOM	1245	CB PHE	93	139.794	110.530	20.180	1.00	48.39	DS4	ATOM	1298	CA ARG	100	135.957	104.924	30.936	1.00	57.46	DS		
ATOM	1246	CG PHE	93	140.859	109.619	20.710	1.00	48.39	DS4	ATOM	1299	CB ARG	100	137.476	104.725	30.908	1.00	52.59	DS		
ATOM	1247	CD1 PHE	93	142.188	110.011	20.703	1.00	48.39	DS4	ATOM	1300	CG ARG	100	138.046	104.443	29.526	1.00	52.59	DS		
ATOM	1248	CD2 PHE	93	140.539	108.359	21.207	1.00	48.39	DS4	ATOM	1301	CD ARG	100	139.563	104.420	29.560	1.00	52.59	DS		
ATOM	1249	CE1 PHE	93	143.184	109.165	21.186	1.00	48.39	DS4	ATOM	1302	NE ARG	100	140.099	103.332	30.380	1.00	52.59	DS		
ATOM	1250	CE2 PHE	93	141.531	107.505	21.692	1.00	48.39	DS4	ATOM	1303	C2 ARG	100	140.005	102.041	30.066	1.00	52.59	DS		
ATOM	1251	CZ PHE	93	142.854	107.911	21.681	1.00	48.39	DS4	ATOM	1304	NH1 ARG	100	139.390	101.677	28.945	1.00	52.59	DS		
ATOM	1252	C PHE	93	138.500	110.663	22.321	1.00	60.70	DS4	ATOM	1305	NH2 ARG	100	140.532	101.117	30.866	1.00	52.59	DS		
ATOM	1253	O PHE	93	138.262	109.808	23.177	1.00	60.70	DS4	ATOM	1306	C ARG	100	135.474	105.036	32.374	1.00	57.46	DS		
ATOM	1254	N LEU	94	138.828	111.914	22.624	1.00	51.83	DS4	ATOM	1307	O ARG	100	135.734	106.034	33.054	1.00	57.46	DS		
ATOM	1255	CA LEU	94	138.935	112.349	24.009	1.00	51.83	DS4	ATOM	1308	N LEU	101	134.751	104.021	32.825	1.00	68.24	DS		
ATOM	1256	CB LEU	94	139.240	113.845	24.069	1.00	41.46	DS4	ATOM	1309	CA LEU	101	134.246	103.993	34.188	1.00	68.24	DS		
ATOM	1257	CG LEU	94	140.662	114.245	23.664	1.00	41.46	DS4	ATOM	1310	CB LEU	101	133.711	102.600	34.518	1.00	42.68	DS		
ATOM	1258	CD1 LEU	94	140.733	115.758	23.558	1.00	41.46	DS4	ATOM	1311	CG LEU	101	133.213	102.431	35.947	1.00	42.68	DS		
ATOM	1259	CD2 LEU	94	141.673	113.721	24.691	1.00	41.46	DS4	ATOM	1312	CD1 LEU	101	132.068	103.397	36.178	1.00	42.68	DS		
ATOM	1260	C LEU	94	137.665	112.044	24.793	1.00	51.83	DS4	ATOM	1313	CD2 LEU	101	132.766	101.000	36.175	1.00	42.68	DS		
ATOM	1261	O LEU	94	137.719	111.678	25.967	1.00	51.83	DS4	ATOM	1314	C LEU	101	135.349	104.348	35.179	1.00	68.24	DS		
ATOM	1262	N GLY	95	136.518	112.191	24.142	1.00	74.00	DS4	ATOM	1315	O LEU	101	135.156	105.167	36.073	1.00	68.24	DS		
ATOM	1263	CA GLY	95	135.271	111.907	24.823	1.00	74.00	DS4	ATOM	1316	N ASP	102	136.511	103.730	35.012	1.00	50.04	DS		
ATOM	1264	C GLY	95	134.993	110.231	26.514	1.00	74.00	DS4	ATOM	1317	CA ASP	102	137.618	103.984	35.911	1.00	50.04	DS		
ATOM	1265	O GLY	95	135.614	109.552	24.456	1.00	51.18	DS4	ATOM	1318	CB ASP	102	138.802	103.024	35.624	1.00	76.25	DS		
ATOM	1266	N LEU	96	135.936	107.335	24.789	1.00	51.18	DS4	ATOM	1319	CG ASP	102	139.641	103.421	34.408	1.00	76.25	DS		
ATOM	1267	CA LEU	96	135.660	108.138	23.522	1.00	36.48	DS4	ATOM	1320	OD1 ASP	102	139.078	103.824	33.366	1.00	76.25	DS		
ATOM	1268	CB LEU	96	134.659	107.010	22.743	1.00	36.48	DS4	ATOM	1321	OD2 ASP	102	140.884	103.302	34.493	1.00	76.25	DS		
ATOM	1269	CG LEU	96	133.668	108.190	22.780	1.00	36.48	DS4	ATOM	1322	C ASP	102	138.051	105.439	35.863	1.00	50.04	DS		
ATOM	1270	CD1 LEU	96	135.044	106.629	21.329	1.00	36.48	DS4	ATOM	1323	O ASP	102	138.525	105.974	36.864	1.00	50.04	DS		
ATOM	1271	CD2 LEU	96	136.667	107.794	25.880	1.00	51.18	DS4	ATOM	1324	N ASN	103	137.877	106.098	34.721	1.00	56.31	DS		
ATOM	1272	C LEU	96	136.435	106.893	26.688	1.00	51.18	DS4	ATOM	1325	CA ASN	103	138.270	107.498	34.636	1.00	56.31	DS		
ATOM	1273	O LEU	96	137.786	108.501	25.905	1.00	51.38	DS4	ATOM	1326	CB ASN	103	138.317	107.976	33.191	1.00	41.86	DS		
ATOM	1274	N LEU	97	137.786	108.501	25.905	1.00	51.38	DS4	ATOM	1327	CG ASN	103	138.469	109.487	33.087	1.00	41.86	DS		
ATOM	1275	CA LEU	97	138.774	108.249	26.939	1.00	51.38	DS4	ATOM	1328	OD1 ASN	103	139.535	110.053	33.374	1.00	41.86	DS		
ATOM	1276	CB LEU	97	140.048	109.043	26.665	1.00	55.24	DS4	ATOM	1329	ND2 ASN	103	137.389	110.151	32.684	1.00	41.86	DS		
ATOM	1277	CG LEU	97	141.043	108.465	25.671	1.00	55.24	DS4	ATOM	1330	C ASN	103	137.261	108.328	35.404	1.00	56.31	DS		
ATOM	1278	CD1 LEU	97	142.218	109.415	25.502	1.00	55.24	DS4	ATOM	1331	O ASN	103	137.623	109.132	36.262	1.00	56.31	DS		
ATOM	1279	CD2 LEU	97	141.518	107.130	26.192	1.00	55.24	DS4	ATOM	1332	N VAL	104	135.989	108.132	35.084	1.00	47.04	DS		
ATOM	1280	C LEU	97	138.199	108.669	28.297	1.00	51.38	DS4	ATOM	1333	CA VAL	104	134.924	108.846	35.756	1.00	47.04	DS		
ATOM	1281	O LEU	97	138.427	108.012	29.314	1.00	51.38	DS4	ATOM	1334	CB VAL	104	133.583	108.218	35.447	1.00	25.43	DS		
ATOM	1282	N LEU	98	137.448	109.767	28.302	1.00	63.48	DS4	ATOM	1335	CG1 VAL	104	132.482	109.008	36.115	1.00	25.43	DS		
ATOM	1283	CA GLU	98	136.859	110.282	29.529	1.00	63.48	DS4	ATOM	1336	CG2 VAL	104	133.390	108.152	33.948	1.00	25.43	DS		
ATOM	1284	CB GLU	98	136.758	112.605	30.579	1.00	58.41	DS4	ATOM	1337	C VAL	104	135.134	108.806	37.265	1.00	47.04	DS		
ATOM	1285	CG GLU	98	136.492	111.755	29.359	1.00	58.41	DS4	ATOM	1338	O VAL	104	135.186	109.844	37.921	1.00	47.04	DS		
ATOM	1286	CD GLU	98	138.240	112.836	30.781	1.00	58.41	DS4	ATOM	1339	N VAL	105	135.249	107.610	37.825	1.00	59.33	DS		
ATOM	1287	OE1 GLU	98	138.908	113.179	29.790	1.00	58.41	DS4	ATOM	1340	CA VAL	105	135.463	107.495	39.258	1.00	59.33	DS		
ATOM	1288	OE2 GLU	98	138.743	112.682	31.915	1.00	58.41	DS4	ATOM	1341	CB VAL	105	135.859	106.054	39.634	1.00	34.35	DS		
ATOM	1289	C GLU	98	136.621	109.503	29.955	1.00	63.48	DS4	ATOM	1342	CG1 VAL	105	136.451	105.983	41.045	1.00	34.35	DS		
ATOM	1290	O GLU	98	135.090	109.739	31.039	1.00	63.48	DS4	ATOM	1343	CG2 VAL	105	134.615	105.192	39.553	1.00	34.35	DS		

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ATOM	1344	C	VAL	105	136.522	108.494	39.700	1.00	59.33	DS4	ATOM	1397	N	VAL	112	141.782	109.260	44.506	1.00	61.16	DS
ATOM	1345	O	VAL	105	136.341	109.192	40.691	1.00	59.33	DS4	ATOM	1398	CA	VAL	112	142.735	110.357	44.398	1.00	61.16	DS
ATOM	1346	AR	TYR	106	137.616	108.581	38.955	1.00	56.01	DS4	ATOM	1399	CB	VAL	112	143.793	110.279	45.524	1.00	61.99	DS
ATOM	1347	CA	TYR	106	138.673	109.532	39.283	1.00	56.01	DS4	ATOM	1400	CG1	VAL	112	145.031	111.078	45.151	1.00	61.99	DS
ATOM	1348	CB	TYR	106	139.831	109.408	38.309	1.00	51.38	DS4	ATOM	1401	CG2	VAL	112	143.209	110.825	46.812	1.00	61.99	DS
ATOM	1349	CG	TYR	106	140.747	110.608	38.350	1.00	51.38	DS4	ATOM	1402	C	VAL	112	143.451	110.341	43.052	1.00	61.16	DS
ATOM	1350	CD1	TYR	106	141.698	110.747	39.365	1.00	51.38	DS4	ATOM	1403	O	VAL	112	143.918	111.378	42.570	1.00	61.16	DS
ATOM	1351	CE1	TYR	106	142.524	111.863	39.431	1.00	51.38	DS4	ATOM	1404	N	THR	113	143.525	109.161	42.444	1.00	63.55	DS
ATOM	1352	CD2	TYR	106	141.645	111.621	37.395	1.00	51.38	DS4	ATOM	1405	CA	THR	113	144.208	109.009	41.167	1.00	63.55	DS
ATOM	1353	CE2	TYR	106	141.462	112.742	37.452	1.00	51.38	DS4	ATOM	1406	CB	THR	113	145.539	108.268	41.336	1.00	63.55	DS
ATOM	1354	CE2	TYR	106	142.399	112.857	38.475	1.00	51.38	DS4	ATOM	1407	CG1	THR	113	146.343	108.893	42.452	1.00	60.67	DS
ATOM	1355	OH	TYR	106	143.195	113.975	38.564	1.00	51.38	DS4	ATOM	1408	CG2	THR	113	145.287	106.890	41.647	1.00	60.67	DS
ATOM	1356	C	TYR	106	138.121	110.942	39.171	1.00	56.01	DS4	ATOM	1409	C	THR	113	143.405	108.224	40.154	1.00	63.55	DS
ATOM	1357	O	TYR	106	138.293	111.768	40.060	1.00	56.01	DS4	ATOM	1410	O	THR	113	142.259	107.851	40.403	1.00	63.55	DS
ATOM	1358	N	ARG	107	137.486	111.213	38.042	1.00	75.61	DS4	ATOM	1411	N	ARG	114	144.030	107.988	39.001	1.00	51.16	DS
ATOM	1359	CA	ARG	107	136.893	112.510	37.795	1.00	75.61	DS4	ATOM	1412	CA	ARG	114	143.417	107.214	37.936	1.00	51.16	DS
ATOM	1360	CB	ARG	107	136.146	112.483	36.458	1.00	53.50	DS4	ATOM	1413	CB	ARG	114	143.981	107.638	36.583	1.00	48.23	DS
ATOM	1361	CG	ARG	107	136.994	112.800	35.228	1.00	53.50	DS4	ATOM	1414	CG	ARG	114	143.425	108.958	36.086	1.00	48.23	DS
ATOM	1362	CD	ARG	107	137.195	114.309	35.081	1.00	53.50	DS4	ATOM	1415	CD	ARG	114	142.947	108.832	34.645	1.00	48.23	DS
ATOM	1363	NE	ARG	107	137.805	114.700	33.809	1.00	53.50	DS4	ATOM	1416	NE	ARG	114	142.106	109.947	34.217	1.00	48.23	DS
ATOM	1364	CZ	ARG	107	139.100	114.946	33.630	1.00	53.50	DS4	ATOM	1417	CZ	ARG	114	142.487	111.220	34.214	1.00	48.23	DS
ATOM	1365	NH1	ARG	107	139.957	115.848	34.636	1.00	53.50	DS4	ATOM	1418	NH1	ARG	114	143.710	111.559	33.801	1.00	48.23	DS
ATOM	1366	NH2	ARG	107	139.538	115.305	32.435	1.00	53.50	DS4	ATOM	1419	NH2	ARG	114	141.639	112.155	33.819	1.00	48.23	DS
ATOM	1367	C	ARG	107	135.941	112.924	38.927	1.00	75.61	DS4	ATOM	1420	C	ARG	114	143.730	105.749	38.230	1.00	51.16	DS
ATOM	1368	O	ARG	107	135.891	114.103	39.293	1.00	75.61	DS4	ATOM	1421	O	ARG	114	142.909	104.859	38.004	1.00	51.16	DS
ATOM	1369	N	LEU	108	135.198	111.964	39.484	1.00	60.58	DS4	ATOM	1422	N	ARG	115	144.921	105.499	38.755	1.00	63.37	DS
ATOM	1370	CA	LEU	108	134.250	112.255	40.566	1.00	60.58	DS4	ATOM	1423	CA	ARG	115	145.283	104.138	39.101	1.00	63.37	DS
ATOM	1371	CB	LEU	108	133.089	111.267	40.543	1.00	44.88	DS4	ATOM	1424	CB	ARG	115	146.738	104.064	39.579	1.00	70.76	DS
ATOM	1372	CG	LEU	108	132.117	111.499	39.396	1.00	44.88	DS4	ATOM	1425	CG	ARG	115	147.771	104.278	38.481	1.00	70.76	DS
ATOM	1373	CD1	LEU	108	130.907	110.586	39.551	1.00	44.88	DS4	ATOM	1426	CD	ARG	115	149.171	103.938	38.966	1.00	70.76	DS
ATOM	1374	CD2	LEU	108	134.828	112.291	41.976	1.00	60.58	DS4	ATOM	1427	NE	ARG	115	150.077	103.677	37.852	1.00	70.76	DS
ATOM	1375	C	LEU	108	134.082	112.271	42.953	1.00	60.58	DS4	ATOM	1428	CZ	ARG	115	151.275	103.110	37.972	1.00	70.76	DS
ATOM	1376	O	LEU	108	136.150	112.332	42.078	1.00	67.21	DS4	ATOM	1429	NH1	ARG	115	151.732	102.741	39.163	1.00	70.76	DS
ATOM	1377	N	GLY	109	136.759	111.194	44.287	1.00	67.21	DS4	ATOM	1430	NH2	ARG	115	152.014	102.889	36.892	1.00	70.76	DS
ATOM	1378	CA	GLY	109	137.309	111.247	45.388	1.00	67.21	DS4	ATOM	1431	C	ARG	115	144.338	103.694	40.212	1.00	63.37	DS
ATOM	1380	O	GLY	109	136.117	110.108	43.871	1.00	60.24	DS4	ATOM	1432	O	ARG	115	143.612	102.715	40.053	1.00	63.37	DS
ATOM	1381	N	PHE	110	136.090	108.925	44.719	1.00	60.24	DS4	ATOM	1433	N	GLN	116	144.337	104.438	41.320	1.00	71.43	DS
ATOM	1382	CA	PHE	110	133.353	107.788	44.032	1.00	45.98	DS4	ATOM	1434	CA	GLN	116	143.494	104.139	42.477	1.00	71.43	DS
ATOM	1383	CB	PHE	110	133.918	108.077	43.763	1.00	45.98	DS4	ATOM	1435	CB	GLN	116	143.500	105.318	43.446	1.00	68.05	DS
ATOM	1384	CG	PHE	110	133.304	109.192	44.317	1.00	45.98	DS4	ATOM	1436	CG	GLN	116	143.027	104.982	44.860	1.00	68.05	DS
ATOM	1385	CD1	PHE	110	133.162	107.213	42.978	1.00	45.98	DS4	ATOM	1437	CD	GLN	116	143.008	106.196	45.772	1.00	68.05	DS
ATOM	1386	CD2	PHE	110	131.947	109.443	42.091	1.00	45.98	DS4	ATOM	1438	OE1	GLN	116	142.059	106.978	45.755	1.00	68.05	DS
ATOM	1387	CE1	PHE	110	131.808	107.447	42.743	1.00	45.98	DS4	ATOM	1439	NE2	GLN	116	144.059	106.368	46.558	1.00	68.05	DS
ATOM	1388	CE2	PHE	110	131.195	108.562	43.297	1.00	45.98	DS4	ATOM	1440	C	GLN	116	142.058	103.830	42.068	1.00	71.43	DS
ATOM	1389	CZ	PHE	110	137.530	108.507	46.993	1.00	60.24	DS4	ATOM	1441	O	GLN	116	141.481	102.822	42.484	1.00	71.43	DS
ATOM	1390	O	PHE	110	137.911	108.267	46.141	1.00	60.24	DS4	ATOM	1442	N	ALA	117	141.477	104.705	41.258	1.00	42.67	DS
ATOM	1391	C	PHE	110	138.331	108.432	43.932	1.00	60.14	DS4	ATOM	1443	CB	ALA	117	140.114	104.500	40.786	1.00	42.67	DS
ATOM	1392	N	ALA	111	139.732	108.056	44.063	1.00	60.14	DS4	ATOM	1444	CA	ALA	117	139.715	105.616	39.827	1.00	43.85	DS
ATOM	1393	CA	ALA	111	140.079	106.983	43.051	1.00	87.35	DS4	ATOM	1445	C	ALA	117	140.026	103.148	40.084	1.00	42.67	DS
ATOM	1394	CB	ALA	111	140.622	109.271	43.861	1.00	60.14	DS4	ATOM	1446	O	ALA	117	139.060	102.402	40.256	1.00	42.67	DS
ATOM	1395	C	ALA	111	140.263	110.202	43.140	1.00	60.14	DS4	ATOM	1447	N	ARG	118	141.045	102.835	39.291	1.00	67.92	DS
ATOM	1396	O	ALA	111						DS4	ATOM	1448	CA	ARG	118	141.070	101.572	38.574	1.00	67.92	DS
ATOM										DS4	ATOM	1449	CB	ARG	118	142.398	101.403	37.817	1.00	58.81	DS

ATOM	1450	CG	ARG	118	142.354	100.343	36.718	1.00	58.81	DS4	ATOM	1503	N	GLY	124	135.522	95.847	43.057	1.00	65.76	DS
ATOM	1451	CD	ARG	118	143.736	99.978	36.169	1.00	58.81	DS4	ATOM	1504	CA	GLY	124	134.080	95.908	43.266	1.00	65.76	DS
ATOM	1452	NE	ARG	118	143.647	98.872	35.211	1.00	58.81	DS4	ATOM	1505	C	GLY	124	133.505	97.106	44.003	1.00	65.76	DS
ATOM	1453	C2	ARG	118	143.334	99.006	33.923	1.00	58.81	DS4	ATOM	1506	O	GLY	124	132.284	97.298	44.012	1.00	65.76	DS
ATOM	1454	NH1	ARG	118	143.263	97.936	33.144	1.00	58.81	DS4	ATOM	1507	N	HIS	125	134.376	97.910	44.612	1.00	60.07	DS
ATOM	1455	NH2	ARG	118	143.117	100.211	33.407	1.00	58.81	DS4	ATOM	1508	CA	HIS	125	133.968	99.094	45.368	1.00	60.07	DS
ATOM	1456	C	ARG	118	140.891	100.441	39.583	1.00	67.92	DS4	ATOM	1509	CB	HIS	125	135.202	99.794	45.938	1.00	69.25	DS
ATOM	1457	O	ARG	118	140.068	99.550	39.388	1.00	67.92	DS4	ATOM	1510	CG	HIS	125	136.127	98.882	46.679	1.00	69.25	DS
ATOM	1458	N	GLN	119	141.647	100.490	40.675	1.00	71.26	DS4	ATOM	1511	CD2	HIS	125	137.473	98.743	46.630	1.00	69.25	DS
ATOM	1459	CA	GLN	119	141.560	99.447	41.693	1.00	71.26	DS4	ATOM	1512	NH1	HIS	125	135.685	97.994	47.635	1.00	69.25	DS
ATOM	1460	CG	GLN	119	142.638	99.647	42.764	1.00	50.69	DS4	ATOM	1513	CE1	HIS	125	136.719	97.350	48.146	1.00	69.25	DS
ATOM	1461	CG	GLN	119	142.882	98.407	43.604	1.00	50.69	DS4	ATOM	1514	NE2	HIS	125	137.816	97.786	47.554	1.00	69.25	DS
ATOM	1462	CD	GLN	119	144.072	98.538	44.545	1.00	50.69	DS4	ATOM	1515	C	HIS	125	133.139	100.132	44.602	1.00	60.07	DS
ATOM	1463	OE1	GLN	119	144.057	99.333	45.476	1.00	50.69	DS4	ATOM	1516	O	HIS	125	132.847	101.198	45.143	1.00	60.07	DS
ATOM	1464	NE2	GLN	119	145.111	97.755	44.299	1.00	50.69	DS4	ATOM	1517	N	HIS	126	132.752	99.833	43.363	1.00	56.14	DS
ATOM	1465	C	GLN	119	140.179	99.398	42.346	1.00	71.26	DS4	ATOM	1518	CA	ILE	126	131.976	100.785	42.568	1.00	56.14	DS
ATOM	1466	O	GLN	119	139.612	98.324	42.539	1.00	71.26	DS4	ATOM	1519	CB	ILE	126	132.825	101.322	41.410	1.00	45.79	DS
ATOM	1467	N	LEU	120	139.634	100.558	42.689	1.00	51.36	DS4	ATOM	1520	CG2	ILE	126	131.996	102.204	40.492	1.00	45.79	DS
ATOM	1468	CA	LEU	120	138.322	100.589	43.304	1.00	51.36	DS4	ATOM	1521	CG1	ILE	126	133.993	102.115	41.988	1.00	45.79	DS
ATOM	1469	CB	LEU	120	137.890	102.032	43.543	1.00	47.68	DS4	ATOM	1522	CD1	ILE	126	133.553	103.302	42.811	1.00	45.79	DS
ATOM	1470	CG	LEU	120	138.750	102.719	44.601	1.00	47.68	DS4	ATOM	1523	C	ILE	126	130.664	100.243	42.014	1.00	56.14	DS
ATOM	1471	CD1	LEU	120	138.363	104.165	44.720	1.00	47.68	DS4	ATOM	1524	N	ILE	126	129.485	99.036	41.891	1.00	56.14	DS
ATOM	1472	CD2	LEU	120	138.570	102.017	45.922	1.00	47.68	DS4	ATOM	1525	C	THR	127	129.757	101.159	41.682	1.00	52.38	DS
ATOM	1473	C	LEU	120	137.338	99.883	42.390	1.00	51.36	DS4	ATOM	1526	CA	THR	127	128.435	100.828	41.147	1.00	52.38	DS
ATOM	1474	O	LEU	120	136.643	98.963	42.802	1.00	51.36	DS4	ATOM	1527	CB	THR	127	127.335	101.116	42.212	1.00	79.11	DS
ATOM	1475	N	VAL	121	137.280	100.316	41.140	1.00	70.97	DS4	ATOM	1528	OG1	THR	127	127.076	99.922	42.957	1.00	79.11	DS
ATOM	1476	CA	VAL	121	136.383	99.697	40.178	1.00	70.97	DS4	ATOM	1529	CG2	THR	127	126.032	101.627	41.560	1.00	79.11	DS
ATOM	1477	CB	VAL	121	136.618	100.283	38.766	1.00	52.45	DS4	ATOM	1530	C	THR	127	128.032	101.627	41.560	1.00	52.38	DS
ATOM	1478	CG1	VAL	121	135.790	99.535	37.742	1.00	52.45	DS4	ATOM	1531	O	THR	127	128.650	102.703	39.666	1.00	52.38	DS
ATOM	1479	CG2	VAL	121	136.256	101.764	38.756	1.00	52.45	DS4	ATOM	1532	N	VAL	128	127.193	101.116	39.067	1.00	52.41	DS
ATOM	1480	C	VAL	121	136.634	98.186	40.160	1.00	70.97	DS4	ATOM	1533	CA	VAL	128	127.760	101.826	37.870	1.00	52.41	DS
ATOM	1481	O	VAL	121	135.705	97.379	40.244	1.00	70.97	DS4	ATOM	1534	CB	VAL	128	127.523	101.376	36.600	1.00	56.53	DS
ATOM	1482	N	ARG	122	137.907	97.819	40.074	1.00	58.17	DS4	ATOM	1535	CG1	VAL	128	126.855	101.959	35.361	1.00	56.53	DS
ATOM	1483	CA	ARG	122	138.326	96.423	40.038	1.00	58.17	DS4	ATOM	1536	CG2	VAL	128	128.967	101.847	36.662	1.00	56.53	DS
ATOM	1484	CB	ARG	122	139.847	96.362	39.906	1.00	64.28	DS4	ATOM	1537	C	VAL	128	125.279	101.549	37.691	1.00	52.41	DS
ATOM	1485	CG	ARG	122	140.320	95.783	38.594	1.00	64.28	DS4	ATOM	1538	O	VAL	128	124.891	100.551	37.088	1.00	52.41	DS
ATOM	1486	CD	ARG	122	140.145	94.287	38.591	1.00	64.28	DS4	ATOM	1539	N	ASN	129	124.460	102.442	38.235	1.00	61.16	DS
ATOM	1487	NE	ARG	122	139.271	93.828	37.523	1.00	64.28	DS4	ATOM	1540	CA	ASN	129	123.010	102.317	38.167	1.00	61.16	DS
ATOM	1488	CZ	ARG	122	138.929	92.557	37.353	1.00	64.28	DS4	ATOM	1541	CB	ASN	129	122.554	102.073	36.735	1.00	61.65	DS
ATOM	1489	NH1	ARG	122	139.392	91.636	38.184	1.00	64.28	DS4	ATOM	1542	CG	ASN	129	123.060	103.123	35.799	1.00	61.65	DS
ATOM	1490	NH2	ARG	122	138.132	92.203	36.354	1.00	64.28	DS4	ATOM	1543	OD1	ASN	129	123.192	104.290	36.177	1.00	61.65	DS
ATOM	1491	C	ARG	122	137.867	95.607	41.250	1.00	58.17	DS4	ATOM	1544	ND2	ASN	129	123.341	102.731	34.567	1.00	61.65	DS
ATOM	1492	O	ARG	122	137.206	94.580	41.093	1.00	58.17	DS4	ATOM	1545	C	ASN	129	122.570	101.162	39.026	1.00	61.16	DS
ATOM	1493	N	HIS	123	138.219	96.067	42.451	1.00	58.90	DS4	ATOM	1546	O	ASN	129	121.645	100.433	38.662	1.00	61.16	DS
ATOM	1494	CA	HIS	123	137.846	95.384	43.686	1.00	58.90	DS4	ATOM	1547	N	GLY	130	123.235	101.008	40.168	1.00	57.90	DS
ATOM	1495	CB	HIS	123	138.639	95.939	44.868	1.00	64.91	DS4	ATOM	1548	CA	GLY	130	122.910	99.913	41.056	1.00	57.90	DS
ATOM	1496	CG	HIS	123	140.110	95.672	44.795	1.00	64.91	DS4	ATOM	1549	C	GLY	130	123.904	98.786	40.853	1.00	57.90	DS
ATOM	1497	CD2	HIS	123	141.168	96.375	45.264	1.00	64.91	DS4	ATOM	1550	O	GLY	130	124.846	98.662	41.636	1.00	57.90	DS
ATOM	1498	ND1	HIS	123	140.633	94.518	44.252	1.00	64.91	DS4	ATOM	1551	N	ARG	131	123.717	97.977	39.804	1.00	69.34	DS
ATOM	1499	CE1	HIS	123	141.947	94.520	44.393	1.00	64.91	DS4	ATOM	1552	CA	ARG	131	124.619	96.857	39.523	1.00	69.34	DS
ATOM	1500	NE2	HIS	123	142.297	95.637	45.006	1.00	64.91	DS4	ATOM	1553	CB	ARG	131	124.439	96.323	38.096	1.00	100128.84	DS
ATOM	1501	C	HIS	123	136.352	95.451	44.025	1.00	58.90	DS4	ATOM	1554	CG	ARG	131	123.085	95.732	37.791	1.00	100128.84	DS
ATOM	1502	O	HIS	123	135.966	95.160	45.157	1.00	58.90	DS4	ATOM	1555	CD	ARG	131	122.124	96.803	37.325	1.00	100128.84	DS

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ATOM	1556	NE	ARG	131	120.796	96.258	37.067	1.00128.84	DS4	ATOM	1609	N	TYR	138	135.013	99.790	31.284	1.00	54.53	DS	
ATOM	1557	C2	ARG	131	119.793	96.954	36.542	1.00128.84	DS4	ATOM	1610	CA	TYR	138	133.575	99.882	31.068	1.00	54.53	DS	
ATOM	1558	ARG1	ARG	131	119.969	98.227	36.216	1.00128.84	DS4	ATOM	1611	CB	TYR	138	132.823	99.552	32.354	1.00	52.20	DS	
ATOM	1559	NH2	ARG	131	118.613	96.379	36.347	1.00128.84	DS4	ATOM	1612	CG	TYR	138	131.322	99.702	32.234	1.00	52.20	DS	
ATOM	1560	C	ARG	131	126.061	97.300	39.684	1.00	69.34	DS4	ATOM	1613	CD1	TYR	138	130.513	98.616	31.893	1.00	52.20	DS
ATOM	1561	O	ARG	131	126.431	98.390	39.239	1.00	69.34	DS4	ATOM	1614	CE1	TYR	138	129.134	98.758	31.757	1.00	52.20	DS
ATOM	1562	N	ARG	132	126.873	96.465	40.324	1.00	62.66	DS4	ATOM	1615	CD2	TYR	138	130.712	100.936	32.439	1.00	52.20	DS
ATOM	1563	CA	ARG	132	128.271	96.809	40.504	1.00	62.66	DS4	ATOM	1616	CE2	TYR	138	129.341	101.089	32.306	1.00	52.20	DS
ATOM	1564	CB	ARG	132	128.869	96.125	41.740	1.00	94.92	DS4	ATOM	1617	C2	TYR	138	128.558	99.998	31.964	1.00	52.20	DS
ATOM	1565	CG	ARG	132	129.340	94.697	41.542	1.00	94.92	DS4	ATOM	1618	OH	TYR	138	127.201	100.166	31.826	1.00	52.20	DS
ATOM	1566	NE	ARG	132	130.340	94.327	42.632	1.00	94.92	DS4	ATOM	1619	C	TYR	138	133.209	101.292	30.610	1.00	54.53	DS
ATOM	1567	NE	ARG	132	130.667	92.904	42.631	1.00	94.92	DS4	ATOM	1620	O	TYR	138	133.597	102.278	31.237	1.00	54.53	DS
ATOM	1568	C2	ARG	132	129.822	91.939	42.984	1.00	94.92	DS4	ATOM	1621	N	ARG	139	132.452	101.392	29.526	1.00	42.49	DS
ATOM	1569	NH1	ARG	132	128.589	92.233	43.374	1.00	94.92	DS4	ATOM	1622	CA	ARG	139	132.077	102.703	29.020	1.00	42.49	DS
ATOM	1570	NH2	ARG	132	130.206	90.673	42.943	1.00	94.92	DS4	ATOM	1623	CB	ARG	139	131.924	102.669	27.507	1.00	43.77	DS
ATOM	1571	C	ARG	132	129.027	96.381	39.260	1.00	62.66	DS4	ATOM	1624	CG	ARG	139	131.422	103.983	26.946	1.00	43.77	DS
ATOM	1572	O	ARG	132	128.706	95.368	38.651	1.00	62.66	DS4	ATOM	1625	CD	ARG	139	131.467	103.973	25.447	1.00	43.77	DS
ATOM	1573	N	VAL	133	130.020	97.176	38.888	1.00	51.81	DS4	ATOM	1626	NE	ARG	139	132.812	103.670	24.983	1.00	43.77	DS
ATOM	1574	CA	VAL	133	130.846	96.919	37.721	1.00	51.81	DS4	ATOM	1627	C2	ARG	139	133.122	103.489	23.711	1.00	43.77	DS
ATOM	1575	CB	VAL	133	130.584	97.985	36.642	1.00	44.59	DS4	ATOM	1628	NH1	ARG	139	132.174	103.593	22.788	1.00	43.77	DS
ATOM	1576	CG1	VAL	133	131.618	97.870	35.543	1.00	44.59	DS4	ATOM	1629	NH2	ARG	139	134.367	103.183	23.372	1.00	43.77	DS
ATOM	1577	CG2	VAL	133	129.175	97.823	36.080	1.00	44.59	DS4	ATOM	1630	C	ARG	139	130.805	103.282	29.605	1.00	42.49	DS
ATOM	1578	C	VAL	133	132.311	96.979	38.141	1.00	51.81	DS4	ATOM	1631	O	ARG	139	129.706	102.791	29.328	1.00	42.49	DS
ATOM	1579	O	VAL	133	132.719	97.920	38.815	1.00	51.81	DS4	ATOM	1632	N	VAL	140	130.967	104.355	30.374	1.00	49.90	DS
ATOM	1580	N	ASP	134	133.098	95.978	37.756	1.00	52.95	DS4	ATOM	1633	CA	VAL	140	129.855	105.059	31.016	1.00	49.90	DS
ATOM	1581	CA	ASP	134	134.515	95.957	38.109	1.00	52.95	DS4	ATOM	1634	CB	VAL	140	130.380	106.027	32.096	1.00	52.26	DS
ATOM	1582	CB	ASP	134	134.851	94.703	38.909	1.00105.27	DS4	ATOM	1635	CG1	VAL	140	129.226	106.644	32.843	1.00	52.26	DS	
ATOM	1583	CG	ASP	134	133.548	93.286	37.553	1.00105.27	DS4	ATOM	1636	CG2	VAL	140	131.324	105.303	33.040	1.00	52.26	DS	
ATOM	1584	OD1	ASP	134	134.651	94.444	38.104	1.00105.27	DS4	ATOM	1637	C	VAL	140	129.068	105.890	30.001	1.00	49.90	DS	
ATOM	1585	OD2	ASP	134	135.582	92.615	38.017	1.00105.27	DS4	ATOM	1638	O	VAL	140	129.637	106.764	29.353	1.00	49.90	DS	
ATOM	1586	C	ASP	134	135.376	95.991	36.857	1.00	52.95	DS4	ATOM	1639	N	ARG	141	127.774	105.625	29.850	1.00	55.73	DS
ATOM	1587	O	ASP	134	136.528	95.550	36.876	1.00	52.95	DS4	ATOM	1640	CA	ARG	141	126.960	106.407	28.920	1.00	55.73	DS
ATOM	1588	N	LEU	135	134.809	96.519	35.775	1.00	62.29	DS4	ATOM	1641	CB	ARG	141	125.759	105.600	28.429	1.00	53.47	DS
ATOM	1589	CA	LEU	135	135.497	96.626	34.489	1.00	62.29	DS4	ATOM	1642	CG	ARG	141	126.074	104.371	27.616	1.00130.47	DS	
ATOM	1590	CG	LEU	135	134.541	96.214	33.376	1.00	25.73	DS4	ATOM	1643	CD	ARG	141	124.768	103.737	27.180	1.00130.47	DS	
ATOM	1591	CG	LEU	135	133.945	94.822	33.542	1.00	25.73	DS4	ATOM	1644	NE	ARG	141	124.951	102.470	26.483	1.00130.47	DS	
ATOM	1592	CD1	LEU	135	132.768	94.655	32.630	1.00	25.73	DS4	ATOM	1645	C2	ARG	141	123.951	101.718	26.029	1.00130.47	DS	
ATOM	1593	CD2	LEU	135	135.004	93.780	33.238	1.00	25.73	DS4	ATOM	1646	NH1	ARG	141	122.694	102.109	26.199	1.00130.47	DS	
ATOM	1594	C	LEU	135	135.965	98.063	34.266	1.00	62.29	DS4	ATOM	1647	NH2	ARG	141	124.205	100.574	25.405	1.00130.47	DS	
ATOM	1595	O	LEU	135	135.192	98.926	33.868	1.00	62.29	DS4	ATOM	1648	C	ARG	141	126.440	107.655	29.652	1.00	55.73	DS
ATOM	1596	N	PRO	136	137.248	98.330	34.502	1.00	34.10	DS4	ATOM	1649	O	ARG	141	126.639	107.803	30.857	1.00	55.73	DS
ATOM	1597	CD	PRO	136	138.288	97.355	34.841	1.00	46.42	DS4	ATOM	1650	N	PRO	142	125.778	108.578	28.930	1.00	81.71	DS
ATOM	1598	CA	PRO	136	137.828	99.662	34.339	1.00	34.10	DS4	ATOM	1651	CD	PRO	142	125.775	108.768	27.474	1.00	76.66	DS
ATOM	1599	CB	PRO	136	139.311	99.437	34.611	1.00	46.42	DS4	ATOM	1652	CA	PRO	142	125.259	109.778	29.593	1.00	81.71	DS
ATOM	1600	CG	PRO	136	139.332	98.240	35.482	1.00	46.42	DS4	ATOM	1653	CB	PRO	142	125.013	110.742	28.435	1.00	76.66	DS
ATOM	1601	C	PRO	136	137.612	100.239	32.961	1.00	34.10	DS4	ATOM	1654	CG	PRO	142	125.929	110.259	27.375	1.00	76.66	DS
ATOM	1602	O	PRO	136	137.551	101.445	32.788	1.00	34.10	DS4	ATOM	1655	C	PRO	142	123.961	109.427	30.302	1.00	81.71	DS
ATOM	1603	N	SER	137	137.516	99.376	31.965	1.00	66.02	DS4	ATOM	1656	O	PRO	142	123.056	108.853	29.696	1.00	81.71	DS
ATOM	1604	CA	SER	137	137.333	99.843	30.607	1.00	66.02	DS4	ATOM	1657	N	GLY	143	123.870	109.761	31.582	1.00	70.45	DS
ATOM	1605	CB	SER	137	138.015	98.877	29.643	1.00	90.63	DS4	ATOM	1658	CA	GLY	143	122.658	109.464	32.318	1.00	70.45	DS
ATOM	1606	OG	SER	137	137.606	97.544	29.891	1.00	90.63	DS4	ATOM	1659	C	GLY	143	122.847	108.439	33.414	1.00	70.45	DS
ATOM	1607	C	SER	137	135.862	99.966	30.278	1.00	66.02	DS4	ATOM	1660	O	GLY	143	121.966	108.246	34.248	1.00	70.45	DS
ATOM	1608	O	SER	137	135.496	100.214	29.132	1.00	66.02	DS4	ATOM	1661	N	ASP	144	123.993	107.775	33.426	1.00	61.05	DS

ATOM	1662	CA	ASP	144	124.249	106.775	34.447	1.00	61.05	DS4	ATOM	1715	CG	LYS	151	129.645	95.421	51.170	1.00	99.09	DS
ATOM	1663	CB	ASP	144	125.417	105.876	34.037	1.00	77.30	DS4	ATOM	1716	CD	LYS	151	127.530	95.879	50.240	1.00	99.09	DS
ATOM	1664	CD	ASP	144	125.165	105.137	32.738	1.00	77.30	DS4	ATOM	1717	CE	LYS	151	126.366	94.900	50.254	1.00	99.09	DS
ATOM	1665	OD1	ASP	144	124.000	104.763	32.481	1.00	77.30	DS4	ATOM	1718	N2	LYS	151	125.289	95.306	49.310	1.00	99.09	DS
ATOM	1666	OD2	ASP	144	126.140	104.917	31.983	1.00	77.30	DS4	ATOM	1719	C	LYS	151	130.896	98.500	51.805	1.00	52.65	DS
ATOM	1667	C	ASP	144	124.582	107.436	35.776	1.00	61.05	DS4	ATOM	1720	O	LYS	151	131.586	98.307	52.815	1.00	52.65	DS
ATOM	1668	O	ASP	144	124.940	108.613	35.815	1.00	61.05	DS4	ATOM	1721	N	SER	152	131.246	99.362	50.855	1.00	71.49	DS
ATOM	1669	N	GLU	145	124.448	106.671	36.858	1.00	65.90	DS4	ATOM	1722	CA	SER	152	132.502	100.096	50.940	1.00	71.49	DS
ATOM	1670	CA	GLU	145	124.778	107.138	38.206	1.00	65.90	DS4	ATOM	1723	CB	SER	152	133.175	100.134	49.574	1.00	59.47	DS
ATOM	1671	CB	GLU	145	123.613	106.926	39.176	1.00	37.42	DS4	ATOM	1724	OG	SER	152	133.268	98.839	49.018	1.00	59.47	DS
ATOM	1672	OG	GLU	145	122.299	107.568	38.781	1.00	37.42	DS4	ATOM	1725	C	SER	152	133.324	101.517	51.431	1.00	71.49	DS
ATOM	1673	CD	GLU	145	121.294	107.551	39.921	1.00	37.42	DS4	ATOM	1726	O	SER	152	133.302	102.161	51.803	1.00	71.49	DS
ATOM	1674	OE1	GLU	145	121.137	106.491	40.565	1.00	37.42	DS4	ATOM	1727	N	ARG	153	131.081	102.004	51.422	1.00	78.22	DS
ATOM	1675	OE2	GLU	145	120.658	108.597	40.171	1.00	37.42	DS4	ATOM	1728	CA	ARG	153	130.777	103.369	51.861	1.00	78.22	DS
ATOM	1676	C	GLU	145	125.957	106.296	38.679	1.00	65.90	DS4	ATOM	1729	CB	ARG	153	129.263	103.618	51.868	1.00	86.32	DS
ATOM	1677	O	GLU	145	125.873	105.071	38.719	1.00	65.90	DS4	ATOM	1730	CG	ARG	153	128.721	103.995	50.509	1.00	86.32	DS
ATOM	1678	N	ILE	146	127.058	106.936	39.038	1.00	66.44	DS4	ATOM	1731	CD	ARG	153	127.268	104.436	50.540	1.00	86.32	DS
ATOM	1679	CA	ILE	146	128.210	106.172	39.483	1.00	66.44	DS4	ATOM	1732	NE	ARG	153	125.058	103.453	50.032	1.00	86.32	DS
ATOM	1680	CB	ILE	146	130.689	105.814	39.212	1.00	65.07	DS4	ATOM	1733	C2	ARG	153	124.560	104.659	49.781	1.00	86.32	DS
ATOM	1681	CG2	ILE	146	129.227	106.294	37.222	1.00	65.07	DS4	ATOM	1734	NH1	ARG	153	124.276	102.385	49.923	1.00	86.32	DS
ATOM	1682	CG1	ILE	146	130.430	106.504	36.357	1.00	65.07	DS4	ATOM	1735	NH2	ARG	153	131.349	103.678	53.230	1.00	78.22	DS
ATOM	1683	CD1	ILE	146	128.426	106.289	40.984	1.00	66.44	DS4	ATOM	1736	C	ARG	153	131.405	104.838	53.639	1.00	76.42	DS
ATOM	1684	C	ILE	146	129.113	107.186	41.478	1.00	66.44	DS4	ATOM	1738	N	ASN	154	131.784	102.629	53.924	1.00	76.42	DS
ATOM	1685	O	ILE	146	127.829	105.338	41.695	1.00	69.35	DS4	ATOM	1740	CB	ASN	154	132.355	102.745	55.260	1.00	76.42	DS
ATOM	1686	N	ALA	147	127.876	105.288	43.141	1.00	69.35	DS4	ATOM	1743	ND2	ASN	154	130.250	101.871	56.373	1.00	59.86	DS
ATOM	1687	CB	ALA	147	126.532	104.807	43.672	1.00	62.48	DS4	ATOM	1742	OD1	ASN	154	129.812	102.850	56.980	1.00	59.86	DS
ATOM	1688	C	ALA	147	128.975	104.428	43.723	1.00	69.35	DS4	ATOM	1744	O	ASN	154	134.528	102.782	56.257	1.00	76.42	DS
ATOM	1690	O	ALA	147	129.448	103.478	43.104	1.00	69.35	DS4	ATOM	1745	C	ASN	154	134.417	102.257	54.072	1.00	76.88	DS
ATOM	1691	N	VAL	148	129.365	104.783	44.940	1.00	70.47	DS4	ATOM	1746	N	LEU	155	135.859	102.079	53.914	1.00	76.88	DS
ATOM	1692	CA	VAL	148	131.022	104.920	46.759	1.00	63.73	DS4	ATOM	1747	CA	LEU	155	135.859	102.079	53.914	1.00	76.88	DS
ATOM	1693	CB	VAL	148	131.783	104.050	47.752	1.00	63.73	DS4	ATOM	1748	CB	LEU	155	136.191	101.591	52.501	1.00	84.77	DS
ATOM	1694	CG1	VAL	148	129.639	102.874	46.304	1.00	70.47	DS4	ATOM	1749	CG	LEU	155	135.913	100.117	52.218	1.00	84.77	DS
ATOM	1695	CG2	VAL	148	128.556	103.037	46.871	1.00	70.47	DS4	ATOM	1750	CD1	LEU	155	136.255	99.810	50.777	1.00	84.77	DS
ATOM	1696	C	VAL	148	130.229	101.692	46.181	1.00	79.49	DS4	ATOM	1751	CD2	LEU	155	136.744	99.247	53.152	1.00	84.77	DS
ATOM	1698	N	ALA	149	129.652	100.477	46.728	1.00	79.49	DS4	ATOM	1752	C	LEU	155	136.627	103.355	54.195	1.00	76.88	DS
ATOM	1699	CA	ALA	149	130.651	99.335	46.612	1.00	101.82	DS4	ATOM	1753	O	LEU	155	137.572	103.256	55.582	1.00	76.88	DS
ATOM	1700	CB	ALA	149	129.225	100.653	48.179	1.00	79.49	DS4	ATOM	1754	N	GLU	156	138.398	104.387	55.521	1.00	70.02	DS
ATOM	1702	C	ALA	149	127.998	100.240	48.458	1.00	76.39	DS4	ATOM	1755	CA	GLU	156	139.685	103.876	56.160	1.00	99.21	DS
ATOM	1703	N	GLU	150	127.435	100.329	49.792	1.00	76.39	DS4	ATOM	1756	CB	GLU	156	140.504	104.951	56.838	1.00	99.21	DS
ATOM	1704	CB	GLU	150	126.101	99.579	49.832	1.00	100.87	DS4	ATOM	1757	CG	GLU	156	141.935	104.520	57.064	1.00	99.21	DS
ATOM	1705	CG	GLU	150	125.130	100.016	48.730	1.00	100.87	DS4	ATOM	1758	CD	GLU	156	142.741	104.624	56.116	1.00	99.21	DS
ATOM	1706	CG	GLU	150	125.642	99.721	47.312	1.00	100.87	DS4	ATOM	1759	OE1	GLU	156	142.252	104.063	58.182	1.00	99.21	DS
ATOM	1707	CD	GLU	150	125.509	98.560	46.860	1.00	100.87	DS4	ATOM	1760	OE2	GLU	156	138.752	105.293	54.339	1.00	70.02	DS
ATOM	1708	OE1	GLU	150	126.187	100.645	46.654	1.00	100.87	DS4	ATOM	1761	C	GLU	156	138.542	104.511	54.377	1.00	70.02	DS
ATOM	1709	OE2	GLU	150	128.418	99.738	50.790	1.00	76.39	DS4	ATOM	1763	N	LEU	157	139.284	104.675	53.289	1.00	81.31	DS
ATOM	1710	C	GLU	150	128.971	100.455	51.616	1.00	76.39	DS4	ATOM	1764	CA	LEU	157	139.704	105.381	52.088	1.00	81.31	DS
ATOM	1711	O	GLU	150	128.658	98.436	50.690	1.00	52.65	DS4	ATOM	1765	CB	LEU	157	140.233	104.382	51.058	1.00	80.31	DS
ATOM	1712	N	LYS	151	129.570	97.762	51.605	1.00	52.65	DS4	ATOM	1766	CG	LEU	157	141.467	104.781	50.241	1.00	80.31	DS
ATOM	1713	CA	LYS	151	129.849	96.342	51.119	1.00	99.09	DS4	ATOM	1767	CD1	LEU	157	141.575	103.854	49.043	1.00	80.31	DS

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ATOM	1768	CD2	LEU	157	141.377	106.231	49.787	1.00	80.31	DS4	ATOM	1821	OE2	GLU	163	134.537	114.960	55.549	1.00	98.38	DS4
ATOM	1769	C	LEU	157	138.603	106.214	51.444	1.00	81.31	DS4	ATOM	1822	C	GLU	163	135.992	115.346	51.914	1.00	83.37	DS4
ATOM	1770	0	LEU	157	138.786	107.399	51.184	1.00	81.31	DS4	ATOM	1823	O	GLU	163	135.264	116.272	51.561	1.00	83.37	DS4
ATOM	1771	N	ILE	158	137.463	105.590	51.180	1.00	78.89	DS4	ATOM	1824	N	ALA	164	137.309	115.329	51.714	1.00	68.59	DS4
ATOM	1772	CA	ILE	158	136.362	106.288	50.540	1.00	78.89	DS4	ATOM	1825	CA	ALA	164	138.011	116.424	51.055	1.00	68.59	DS4
ATOM	1773	CB	ILE	158	135.195	105.334	50.267	1.00	83.95	DS4	ATOM	1826	CB	ALA	164	139.420	115.997	50.704	1.00	64.54	DS4
ATOM	1774	CG2	ILE	158	134.056	106.076	49.569	1.00	83.95	DS4	ATOM	1827	C	ALA	164	137.263	116.846	49.796	1.00	68.59	DS4
ATOM	1775	CG1	ILE	158	135.685	104.183	49.393	1.00	83.95	DS4	ATOM	1828	O	ALA	164	137.466	117.939	49.275	1.00	68.59	DS4
ATOM	1776	CD1	ILE	158	134.634	103.147	49.107	1.00	83.95	DS4	ATOM	1829	N	MET	165	136.400	115.967	49.308	1.00	43.79	DS4
ATOM	1777	C	ILE	158	135.853	107.481	51.337	1.00	78.89	DS4	ATOM	1830	CA	MET	165	135.616	116.265	48.128	1.00	43.79	DS4
ATOM	1778	0	ILE	158	135.389	108.470	50.753	1.00	78.89	DS4	ATOM	1831	CB	MET	165	134.965	114.994	47.581	1.00	67.99	DS4
ATOM	1779	N	ARG	159	135.934	107.399	52.664	1.00	72.26	DS4	ATOM	1832	CG	MET	165	135.739	114.388	46.424	1.00	67.99	DS4
ATOM	1780	CA	ARG	159	135.472	108.509	53.487	1.00	72.26	DS4	ATOM	1833	SD	MET	165	136.066	115.629	45.129	1.00	67.99	DS4
ATOM	1781	CB	ARG	159	135.235	108.055	54.930	1.00	60.35	DS4	ATOM	1834	CE	MET	165	134.410	115.727	44.321	1.00	67.99	DS4
ATOM	1782	CG	ARG	159	133.975	107.208	55.063	1.00	60.35	DS4	ATOM	1835	C	MET	165	134.550	117.304	48.435	1.00	43.79	DS4
ATOM	1783	CD	ARG	159	133.438	107.163	56.484	1.00	60.35	DS4	ATOM	1836	O	MET	165	133.893	117.824	47.526	1.00	43.79	DS4
ATOM	1784	NE	ARG	159	132.145	106.482	56.539	1.00	60.35	DS4	ATOM	1837	N	LYS	166	134.377	117.595	49.722	1.00	88.15	DS4
ATOM	1785	CZ	ARG	159	131.411	106.342	57.640	1.00	60.35	DS4	ATOM	1838	CA	LYS	166	133.404	118.587	50.175	1.00	88.15	DS4
ATOM	1786	NH1	ARG	159	131.836	106.836	58.795	1.00	60.35	DS4	ATOM	1839	CB	LYS	166	133.369	118.651	51.704	1.00	84.36	DS4
ATOM	1787	NH2	ARG	159	130.248	105.706	57.588	1.00	60.35	DS4	ATOM	1840	CG	LYS	166	132.739	117.459	52.407	1.00	84.36	DS4
ATOM	1788	C	ARG	159	136.423	109.701	53.428	1.00	72.26	DS4	ATOM	1841	CD	LYS	166	132.860	117.642	53.918	1.00	84.36	DS4
ATOM	1789	O	ARG	159	135.971	110.840	53.324	1.00	72.26	DS4	ATOM	1842	CE	LYS	166	132.170	116.537	54.695	1.00	84.36	DS4
ATOM	1790	N	GLN	160	137.731	109.452	53.471	1.00	67.72	DS4	ATOM	1843	NZ	LYS	166	132.401	116.699	56.161	1.00	84.36	DS4
ATOM	1791	CA	GLN	160	138.706	110.543	53.387	1.00	67.72	DS4	ATOM	1844	C	LYS	166	133.808	119.956	49.637	1.00	88.15	DS4
ATOM	1792	CB	GLN	160	140.137	110.007	53.363	1.00	67.96	DS4	ATOM	1845	O	LYS	166	134.923	120.426	49.888	1.00	88.15	DS4
ATOM	1793	CG	GLN	160	140.612	109.339	54.629	1.00	67.96	DS4	ATOM	1846	N	GLY	167	132.901	120.588	48.898	1.00	128.06	DS4
ATOM	1794	CD	GLN	160	142.078	108.955	54.542	1.00	67.96	DS4	ATOM	1847	CA	GLY	167	133.189	121.893	48.335	1.00	128.06	DS4
ATOM	1795	OE1	GLN	160	142.935	109.803	54.294	1.00	67.96	DS4	ATOM	1848	C	GLY	167	133.688	121.805	46.905	1.00	128.06	DS4
ATOM	1796	NE2	GLN	160	142.373	107.672	54.739	1.00	67.96	DS4	ATOM	1849	O	GLY	167	133.127	122.439	46.009	1.00	128.06	DS4
ATOM	1797	C	GLN	160	138.498	111.364	52.113	1.00	67.72	DS4	ATOM	1850	N	ARG	168	134.745	121.022	46.694	1.00	104.81	DS4
ATOM	1798	O	GLN	160	138.284	112.577	52.165	1.00	67.72	DS4	ATOM	1851	CA	ARG	168	135.321	120.842	45.365	1.00	104.81	DS4
ATOM	1799	N	ASN	161	138.566	110.680	50.969	1.00	87.81	DS4	ATOM	1852	CB	ARG	168	136.172	119.576	45.316	1.00	114.70	DS4
ATOM	1800	CA	ASN	161	138.429	111.310	49.659	1.00	87.81	DS4	ATOM	1853	CG	ARG	168	137.546	119.668	45.949	1.00	114.70	DS4
ATOM	1801	CB	ASN	161	138.676	110.293	48.540	1.00	74.48	DS4	ATOM	1854	CD	ARG	168	138.332	118.426	45.554	1.00	114.70	DS4
ATOM	1802	CG	ASN	161	139.975	109.513	48.726	1.00	74.48	DS4	ATOM	1855	NE	ARG	168	139.720	118.429	46.002	1.00	114.70	DS4
ATOM	1803	OD1	ASN	161	141.019	110.070	49.084	1.00	74.48	DS4	ATOM	1856	CZ	ARG	168	140.597	117.483	45.608	1.00	114.70	DS4
ATOM	1804	ND2	ASN	161	139.914	108.215	48.466	1.00	74.48	DS4	ATOM	1857	NH1	ARG	168	140.222	116.471	44.907	1.00	114.70	DS4
ATOM	1805	C	ASN	161	137.088	111.979	49.439	1.00	87.81	DS4	ATOM	1858	NH2	ARG	168	141.846	117.545	46.121	1.00	114.70	DS4
ATOM	1806	O	ASN	161	137.037	113.101	48.941	1.00	87.81	DS4	ATOM	1859	C	ARG	168	134.241	120.729	44.301	1.00	104.81	DS4
ATOM	1807	N	LEU	162	136.001	111.296	49.787	1.00	65.62	DS4	ATOM	1860	O	ARG	168	133.321	119.920	44.427	1.00	104.81	DS4
ATOM	1808	CA	LEU	162	134.679	111.894	49.617	1.00	65.62	DS4	ATOM	1861	N	LYS	169	134.350	121.538	43.253	1.00	94.04	DS4
ATOM	1809	CB	LEU	162	133.588	110.854	49.827	1.00	71.43	DS4	ATOM	1862	CA	LYS	169	133.376	121.487	42.172	1.00	94.04	DS4
ATOM	1810	CG	LEU	162	133.018	110.394	48.485	1.00	71.43	DS4	ATOM	1863	CB	LYS	169	133.65	122.737	41.295	1.00	76.83	DS4
ATOM	1811	CD1	LEU	162	132.407	109.023	48.638	1.00	71.43	DS4	ATOM	1864	CG	LYS	169	133.177	124.052	41.996	1.00	76.83	DS4
ATOM	1812	CD2	LEU	162	131.999	111.402	47.969	1.00	71.43	DS4	ATOM	1865	CD	LYS	169	133.327	125.207	41.010	1.00	76.83	DS4
ATOM	1813	C	LEU	162	134.521	113.051	50.593	1.00	65.62	DS4	ATOM	1866	CE	LYS	169	132.950	126.547	41.622	1.00	76.83	DS4
ATOM	1814	O	LEU	162	133.649	113.909	50.429	1.00	65.62	DS4	ATOM	1867	NZ	LYS	169	133.097	127.671	40.647	1.00	76.83	DS4
ATOM	1815	N	GLU	163	135.388	113.063	51.605	1.00	83.37	DS4	ATOM	1868	C	LYS	169	133.687	120.258	41.326	1.00	94.04	DS4
ATOM	1816	CA	GLU	163	135.409	114.123	52.605	1.00	83.37	DS4	ATOM	1869	O	LYS	169	134.659	119.543	41.583	1.00	94.04	DS4
ATOM	1817	CB	GLU	163	136.299	113.730	53.792	1.00	98.38	DS4	ATOM	1870	N	VAL	170	132.869	120.030	40.306	1.00	72.61	DS4
ATOM	1818	CG	GLU	163	136.756	114.906	54.657	1.00	98.38	DS4	ATOM	1871	CA	VAL	170	133.045	118.888	39.419	1.00	72.61	DS4
ATOM	1819	CD	GLU	163	135.620	115.571	55.424	1.00	98.38	DS4	ATOM	1872	CB	VAL	170	132.041	117.766	39.797	1.00	52.55	DS4
ATOM	1820	OE1	GLU	163	135.818	116.705	55.912	1.00	98.38	DS4	ATOM	1873	CG1	VAL	170	131.578	117.001	38.567	1.00	52.55	DS4

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ATOM	1874	CG2 VAL	170	132.696	116.819	40.795	1.00	52.55	DS4	ATOM	1927	CG ASP	177	124.047	113.407	46.695	1.00108.56	DS.
ATOM	1875	C VAL	170	132.842	119.308	37.969	1.00	72.61	DS4	ATOM	1928	OD1 ASP	177	124.414	112.440	47.394	1.00108.56	DS.
ATOM	1876	VAL	170	132.132	120.274	37.699	1.00	72.61	DS4	ATOM	1929	OD2 ASP	177	123.140	114.192	47.041	1.00108.56	DS.
ATOM	1877	N GLY	171	133.475	118.586	37.044	1.00	38.39	DS4	ATOM	1930	C ASP	177	126.917	113.603	46.613	1.00 84.34	DS.
ATOM	1878	CA GLY	171	133.334	118.891	35.628	1.00	38.39	DS4	ATOM	1931	O ASP	177	126.741	112.415	46.875	1.00 84.34	DS.
ATOM	1879	C GLY	171	131.904	119.214	35.208	1.00	38.39	DS4	ATOM	1932	N VAL	178	127.810	114.357	47.245	1.00 56.14	DS.
ATOM	1880	O GLY	171	130.946	118.580	35.664	1.00	38.39	DS4	ATOM	1933	CA VAL	178	128.661	113.790	48.283	1.00 56.14	DS.
ATOM	1881	N PRO	172	131.729	120.204	34.324	1.00	51.92	DS4	ATOM	1934	CB VAL	178	129.618	114.846	48.826	1.00 53.59	DS.
ATOM	1882	CD PRO	172	132.795	120.940	33.626	1.00	48.21	DS4	ATOM	1935	CG1 VAL	178	130.202	114.177	49.631	1.00 53.59	DS.
ATOM	1883	CA PRO	172	130.412	120.621	33.838	1.00	51.92	DS4	ATOM	1936	CG2 VAL	178	130.202	115.642	49.680	1.00 53.59	DS.
ATOM	1884	PRO	172	130.738	121.816	32.952	1.00	48.21	DS4	ATOM	1937	C VAL	178	127.882	113.168	49.444	1.00 56.14	DS.
ATOM	1885	CG PRO	172	132.070	121.443	32.336	1.00	48.21	DS4	ATOM	1938	O VAL	178	128.471	112.594	50.367	1.00 56.14	DS.
ATOM	1886	C PRO	172	129.644	119.546	33.082	1.00	51.92	DS4	ATOM	1939	N GLU	179	126.556	113.285	49.384	1.00131.84	DS.
ATOM	1887	O PRO	172	128.473	119.749	32.747	1.00	51.92	DS4	ATOM	1940	CA GLU	179	125.667	112.740	50.408	1.00131.84	DS.
ATOM	1888	N TRP	173	130.294	118.416	32.793	1.00	61.80	DS4	ATOM	1941	CB GLU	179	124.220	113.178	50.148	1.00134.42	DS.
ATOM	1889	CA TRP	173	129.628	117.321	32.080	1.00	61.80	DS4	ATOM	1942	CG GLU	179	124.046	114.658	49.832	1.00134.42	DS.
ATOM	1890	CB TRP	173	130.533	116.741	30.979	1.00	45.76	DS4	ATOM	1943	CD GLU	179	123.964	115.531	51.068	1.00134.42	DS.
ATOM	1891	CG TRP	173	131.671	115.881	31.457	1.00	45.76	DS4	ATOM	1944	OE1 GLU	179	124.820	115.383	51.965	1.00134.42	DS.
ATOM	1892	CD2 TRP	173	132.978	116.323	31.830	1.00	45.76	DS4	ATOM	1945	OE2 GLU	179	123.043	116.373	51.134	1.00134.42	DS.
ATOM	1893	CE2 TRP	173	133.705	115.184	32.234	1.00	45.76	DS4	ATOM	1946	C GLU	179	125.737	111.221	50.354	1.00131.84	DS.
ATOM	1894	CE3 TRP	173	133.605	117.570	31.863	1.00	45.76	DS4	ATOM	1947	O GLU	179	126.469	110.593	51.118	1.00131.84	DS.
ATOM	1895	CD1 TRP	173	131.658	114.524	31.642	1.00	45.76	DS4	ATOM	1948	N GLY	180	124.967	110.642	49.438	1.00113.08	DS.
ATOM	1896	NE1 TRP	173	132.878	114.099	32.108	1.00	45.76	DS4	ATOM	1949	CA GLY	180	124.942	109.201	49.280	1.00113.08	DS.
ATOM	1897	C22 TRP	173	135.026	115.258	32.666	1.00	45.76	DS4	ATOM	1950	C GLY	180	126.107	108.725	48.441	1.00113.08	DS.
ATOM	1898	C23 TRP	173	134.915	117.643	32.290	1.00	45.76	DS4	ATOM	1951	O GLY	180	126.156	107.565	48.028	1.00113.08	DS.
ATOM	1899	CH2 TRP	173	135.613	116.496	33.687	1.00	45.76	DS4	ATOM	1952	N MET	181	127.047	109.630	48.186	1.00 91.85	DS.
ATOM	1900	C TRP	173	129.267	116.256	33.101	1.00	61.80	DS4	ATOM	1953	CA MET	181	128.229	109.312	47.397	1.00 91.85	DS.
ATOM	1901	O TRP	173	128.708	115.203	32.775	1.00	61.80	DS4	ATOM	1954	CB MET	181	129.038	108.225	48.107	1.00 77.99	DS.
ATOM	1902	N LEU	174	129.589	116.569	34.351	1.00	70.33	DS4	ATOM	1955	CG MET	181	129.308	108.535	49.568	1.00 77.99	DS.
ATOM	1903	CA LEU	174	129.317	115.697	35.477	1.00	70.33	DS4	ATOM	1956	SD MET	181	129.829	107.089	50.507	1.00 77.99	DS.
ATOM	1904	CB LEU	174	130.627	115.249	36.121	1.00	57.57	DS4	ATOM	1957	CE MET	181	131.417	107.836	51.263	1.00 77.99	DS.
ATOM	1905	CG LEU	174	131.550	114.330	35.333	1.00	57.57	DS4	ATOM	1958	C MET	181	127.809	108.836	46.009	1.00 91.85	DS.
ATOM	1906	CD1 LEU	174	132.774	114.017	36.175	1.00	57.57	DS4	ATOM	1959	O MET	181	128.173	107.744	45.580	1.00 91.85	DS.
ATOM	1907	CD2 LEU	174	130.810	113.051	34.981	1.00	70.33	DS4	ATOM	1960	N LYS	182	127.039	109.668	45.315	1.00 84.07	DS.
ATOM	1908	C LEU	174	128.475	116.426	36.520	1.00	70.33	DS4	ATOM	1961	CA LYS	182	126.554	109.343	43.982	1.00 84.07	DS.
ATOM	1909	O LEU	174	127.971	117.526	36.284	1.00	70.33	DS4	ATOM	1962	CB LYS	182	125.049	109.118	44.014	1.00 96.59	DS.
ATOM	1910	N SER	175	128.347	115.792	37.680	1.00	70.43	DS4	ATOM	1963	CG LYS	182	124.623	108.266	45.164	1.00 96.59	DS.
ATOM	1911	CA SER	175	127.597	116.321	38.812	1.00	70.43	DS4	ATOM	1964	CD LYS	182	123.136	108.037	45.171	1.00 96.59	DS.
ATOM	1912	CB SER	175	126.154	116.630	38.413	1.00	88.07	DS4	ATOM	1965	CE LYS	182	122.764	107.165	46.361	1.00 96.59	DS.
ATOM	1913	CG SER	175	125.454	115.442	38.095	1.00	88.07	DS4	ATOM	1966	NZ LYS	182	121.334	106.764	46.356	1.00 96.59	DS.
ATOM	1914	C SER	175	127.608	115.227	39.860	1.00	70.43	DS4	ATOM	1967	C LYS	182	126.857	110.477	43.025	1.00 84.07	DS.
ATOM	1915	O SER	175	127.426	114.059	39.538	1.00	70.43	DS4	ATOM	1968	O LYS	182	126.751	111.646	43.385	1.00 84.07	DS.
ATOM	1916	N LEU	176	127.836	115.585	41.112	1.00	84.03	DS4	ATOM	1969	N GLY	183	127.230	110.122	41.802	1.00 62.78	DS.
ATOM	1917	CA LEU	176	127.858	114.589	42.155	1.00	84.03	DS4	ATOM	1970	CA GLY	183	127.528	111.117	40.790	1.00 62.78	DS.
ATOM	1918	CB LEU	176	129.308	114.292	42.561	1.00	64.47	DS4	ATOM	1971	C GLY	183	126.798	110.741	39.522	1.00 62.78	DS.
ATOM	1919	CG LEU	176	129.871	114.705	43.922	1.00	64.47	DS4	ATOM	1972	O GLY	183	126.252	109.642	39.427	1.00 62.78	DS.
ATOM	1920	CD1 LEU	176	131.336	114.278	44.007	1.00	64.47	DS4	ATOM	1973	N LYS	184	126.769	111.647	38.552	1.00 67.25	DS.
ATOM	1921	CD2 LEU	176	129.757	116.203	44.115	1.00	64.47	DS4	ATOM	1974	CA LYS	184	126.102	111.363	37.290	1.00 67.25	DS.
ATOM	1922	C LEU	176	126.017	114.989	43.363	1.00	84.03	DS4	ATOM	1975	CB LYS	184	124.700	111.971	37.249	1.00 79.55	DS.
ATOM	1923	O LEU	176	126.493	116.099	43.435	1.00	84.03	DS4	ATOM	1976	CG LYS	184	123.609	111.033	37.698	1.00 79.55	DS.
ATOM	1924	N ASP	177	126.881	114.065	44.302	1.00	84.34	DS4	ATOM	1977	CD LYS	184	122.250	111.522	37.234	1.00 79.55	DS.
ATOM	1925	CA ASP	177	126.115	114.282	45.517	1.00	84.34	DS4	ATOM	1978	CE LYS	184	121.145	110.540	37.625	1.00 79.55	DS.
ATOM	1926	CB ASP	177	124.735	113.639	45.368	1.00108.56		DS4	ATOM	1979	NZ LYS	184	119.807	110.925	37.081	1.00 79.55	DS.

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ATOM	1980	C	LYS	184	126.876	111.857	36.088	1.00	67.25	DS4	ATOM	2033	C	ASP	190	135.278	118.699	24.962	1.00	56.16	DS-
ATOM	1981	O	GLY	184	127.430	112.959	36.088	1.00	67.25	DS4	ATOM	2034	O	ASP	190	135.740	118.942	26.071	1.00	56.16	DS-
ATOM	1982	N	PHE	185	126.911	111.016	35.062	1.00	46.77	DS4	ATOM	2035	N	ARG	191	135.993	118.775	23.853	1.00	57.22	DS-
ATOM	1983	CA	PHE	185	127.580	111.342	33.810	1.00	46.77	DS4	ATOM	2036	CA	ARG	191	137.396	119.145	23.892	1.00	57.22	DS-
ATOM	1984	CB	PHE	185	127.990	110.050	33.095	1.00	48.99	DS4	ATOM	2037	CB	ARG	191	137.890	119.439	22.475	1.00	68.55	DS-
ATOM	1985	CG	PHE	185	128.970	110.256	31.984	1.00	48.99	DS4	ATOM	2038	CG	ARG	191	139.280	120.012	22.425	1.00	68.55	DS-
ATOM	1986	CD1	PHE	185	130.303	110.526	32.261	1.00	48.99	DS4	ATOM	2039	CD	ARG	191	140.200	119.257	23.354	1.00	68.55	DS-
ATOM	1987	CD2	PHE	185	128.555	110.191	30.654	1.00	48.99	DS4	ATOM	2040	NE	ARG	191	141.584	119.682	23.195	1.00	68.55	DS-
ATOM	1988	CE1	PHE	185	131.211	110.732	31.230	1.00	48.99	DS4	ATOM	2041	CZ	ARG	191	142.526	119.525	24.118	1.00	68.55	DS-
ATOM	1989	CE2	PHE	185	129.454	110.396	29.622	1.00	48.99	DS4	ATOM	2042	NH1	ARG	191	142.238	118.952	25.282	1.00	68.55	DS-
ATOM	1990	CE2	PHE	185	130.786	110.667	29.910	1.00	48.99	DS4	ATOM	2043	NH2	ARG	191	143.759	119.931	23.868	1.00	68.55	DS-
ATOM	1991	C	PHE	185	126.506	112.086	33.005	1.00	46.77	DS4	ATOM	2044	C	ARG	191	137.693	120.331	24.816	1.00	57.22	DS-
ATOM	1992	O	PHE	185	125.618	111.465	32.402	1.00	46.77	DS4	ATOM	2045	O	ARG	191	138.679	120.313	25.552	1.00	57.22	DS-
ATOM	1993	N	LEU	186	126.590	113.416	33.011	1.00	40.35	DS4	ATOM	2046	N	GLU	192	136.840	121.352	24.786	1.00	67.67	DS-
ATOM	1994	CA	LEU	186	125.607	114.246	32.326	1.00	40.35	DS4	ATOM	2047	CA	GLU	192	137.048	122.530	25.618	1.00	67.67	DS-
ATOM	1995	CB	LEU	186	125.749	115.708	32.775	1.00	40.35	DS4	ATOM	2048	CB	GLU	192	136.127	123.672	25.177	1.00	136.23	DS-
ATOM	1996	CG	LEU	186	125.582	115.992	34.278	1.00	72.95	DS4	ATOM	2049	CG	GLU	192	136.441	124.255	23.800	1.00	136.23	DS-
ATOM	1997	CD1	LEU	186	125.813	117.460	34.553	1.00	72.95	DS4	ATOM	2050	CD	GLU	192	135.812	123.471	22.655	1.00	136.23	DS-
ATOM	1998	CD2	LEU	186	124.197	115.599	34.732	1.00	72.95	DS4	ATOM	2051	OE1	GLU	192	136.132	122.276	22.495	1.00	136.23	DS-
ATOM	1999	C	LEU	186	125.676	114.152	30.813	1.00	40.35	DS4	ATOM	2052	OE2	GLU	192	134.994	124.053	21.909	1.00	136.23	DS-
ATOM	2000	O	LEU	186	124.678	113.840	30.159	1.00	40.35	DS4	ATOM	2053	C	GLU	192	136.846	122.243	27.105	1.00	67.67	DS-
ATOM	2001	N	ARG	187	126.850	114.428	30.257	1.00	56.70	DS4	ATOM	2054	O	GLU	192	137.428	122.930	27.948	1.00	67.67	DS-
ATOM	2002	CA	ARG	187	127.030	114.366	28.816	1.00	56.70	DS4	ATOM	2055	N	ASP	193	136.033	121.229	27.420	1.00	55.92	DS-
ATOM	2003	CB	ARG	187	126.593	115.691	28.182	1.00	100.08.46	DS4	ATOM	2056	CA	ASP	193	135.744	120.842	28.810	1.00	55.92	DS-
ATOM	2004	CG	ARG	187	126.672	115.695	26.674	1.00	100.08.46	DS4	ATOM	2057	CB	ASP	193	134.626	119.794	28.851	1.00	78.33	DS-
ATOM	2005	CD	ARG	187	125.893	114.529	26.100	1.00	100.08.46	DS4	ATOM	2058	CG	ASP	193	133.270	120.359	28.467	1.00	78.33	DS-
ATOM	2006	NE	ARG	187	126.590	113.911	24.976	1.00	100.08.46	DS4	ATOM	2059	OD1	ASP	193	132.660	121.063	29.303	1.00	78.33	DS-
ATOM	2007	CZ	ARG	187	126.160	112.828	24.335	1.00	100.08.46	DS4	ATOM	2060	OD2	ASP	193	132.816	120.102	27.330	1.00	78.33	DS-
ATOM	2008	NH1	ARG	187	125.029	112.242	24.707	1.00	100.08.46	DS4	ATOM	2061	C	ASP	193	136.978	120.287	29.518	1.00	55.92	DS-
ATOM	2009	NH2	ARG	187	126.861	112.328	23.326	1.00	100.08.46	DS4	ATOM	2062	O	ASP	193	137.112	120.410	30.735	1.00	55.92	DS-
ATOM	2010	C	ARG	187	128.490	114.084	28.483	1.00	56.70	DS4	ATOM	2063	N	LEU	194	137.873	119.673	28.749	1.00	60.54	DS-
ATOM	2011	O	ARG	187	129.365	114.187	29.349	1.00	56.70	DS4	ATOM	2064	CA	LEU	194	139.095	119.106	29.302	1.00	60.54	DS-
ATOM	2012	N	LEU	188	128.755	113.707	27.236	1.00	53.13	DS4	ATOM	2065	CB	LEU	194	139.478	117.808	28.577	1.00	50.38	DS-
ATOM	2013	CA	LEU	188	130.129	113.452	26.815	1.00	53.13	DS4	ATOM	2066	CG	LEU	194	138.531	116.614	28.410	1.00	50.38	DS-
ATOM	2014	CB	LEU	188	130.167	112.914	25.387	1.00	48.54	DS4	ATOM	2067	CD1	LEU	194	137.946	116.226	29.749	1.00	50.38	DS-
ATOM	2015	CG	LEU	188	129.899	111.443	25.115	1.00	48.54	DS4	ATOM	2068	CD2	LEU	194	137.432	116.951	27.429	1.00	60.54	DS-
ATOM	2016	CD1	LEU	188	129.763	111.251	23.621	1.00	48.54	DS4	ATOM	2069	C	LEU	194	140.244	120.099	29.145	1.00	60.54	DS-
ATOM	2017	CD2	LEU	188	131.030	110.597	25.661	1.00	48.54	DS4	ATOM	2070	O	LEU	194	140.361	120.779	28.127	1.00	60.54	DS-
ATOM	2018	O	LEU	188	130.903	114.765	26.951	1.00	53.13	DS4	ATOM	2071	N	ALA	195	141.095	120.191	30.153	1.00	58.31	DS-
ATOM	2019	C	LEU	188	130.519	115.732	26.191	1.00	53.13	DS4	ATOM	2072	CA	ALA	195	142.233	121.088	30.057	1.00	58.31	DS-
ATOM	2020	N	PRO	189	132.000	114.823	27.616	1.00	45.48	DS4	ATOM	2073	CB	ALA	195	142.361	121.931	31.313	1.00	45.76	DS-
ATOM	2021	CD	PRO	189	132.708	113.746	28.316	1.00	34.03	DS4	ATOM	2074	C	ALA	195	143.449	120.203	29.898	1.00	58.31	DS-
ATOM	2022	CA	PRO	189	132.770	116.067	27.671	1.00	45.48	DS4	ATOM	2075	O	ALA	195	144.440	120.352	30.621	1.00	58.31	DS-
ATOM	2023	CB	PRO	189	133.921	115.723	28.604	1.00	34.03	DS4	ATOM	2076	N	LEU	196	143.368	119.270	28.955	1.00	51.63	DS-
ATOM	2024	CG	PRO	189	134.125	114.283	28.344	1.00	34.03	DS4	ATOM	2077	CA	LEU	196	144.469	118.349	28.724	1.00	51.63	DS-
ATOM	2025	C	PRO	189	133.257	116.477	26.284	1.00	45.48	DS4	ATOM	2078	CB	LEU	196	143.985	117.134	27.926	1.00	57.65	DS-
ATOM	2026	O	PRO	189	133.503	115.634	25.411	1.00	45.48	DS4	ATOM	2079	CG	LEU	196	143.191	116.116	28.758	1.00	57.65	DS-
ATOM	2027	N	ASP	190	133.379	117.782	26.078	1.00	56.16	DS4	ATOM	2080	CD1	LEU	196	142.387	115.187	27.865	1.00	57.65	DS-
ATOM	2028	CA	ASP	190	133.830	118.291	24.797	1.00	56.16	DS4	ATOM	2081	CD2	LEU	196	144.157	115.329	29.629	1.00	57.65	DS-
ATOM	2029	CB	ASP	190	132.990	119.495	24.380	1.00	100.40.52	DS4	ATOM	2082	C	LEU	196	145.613	119.023	28.002	1.00	51.63	DS-
ATOM	2030	CG	ASP	190	132.989	119.704	22.885	1.00	100.40.52	DS4	ATOM	2083	O	LEU	196	145.407	119.716	27.012	1.00	51.63	DS-
ATOM	2031	OD1	ASP	190	134.085	119.752	22.288	1.00	100.40.52	DS4	ATOM	2084	N	PRO	197	146.838	118.855	28.515	1.00	50.45	DS-
ATOM	2032	OD2	ASP	190	131.890	119.819	22.304	1.00	100.40.52	DS4	ATOM	2085	CD	PRO	197	147.169	118.102	29.738	1.00	37.42	DS-

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ATOM	2086	CA	PRO	197	148.041	119.440	27.913	1.00	50.45	DS4	ATOM	2139	CA	ILE	204	145.596	111.900	14.788	1.00	43.30	DS4
ATOM	2087	CB	PRO	197	149.066	119.310	29.023	1.00	37.42	DS4	ATOM	2140	CB	ILE	204	144.513	112.855	14.291	1.00	73.19	DS4
ATOM	2088	CG	PRO	197	148.678	117.993	29.650	1.00	37.42	DS4	ATOM	2141	CG2	ILE	204	143.969	112.379	12.951	1.00	73.19	DS4
ATOM	2089	C	PRO	197	148.377	118.554	26.718	1.00	50.45	DS4	ATOM	2142	CG1	ILE	204	143.389	112.922	15.318	1.00	73.19	DS4
ATOM	2090	O	PRO	197	149.462	117.980	26.634	1.00	50.45	DS4	ATOM	2143	CD1	ILE	204	142.250	113.819	14.901	1.00	73.19	DS4
ATOM	2091	N	VAL	198	147.423	118.448	25.800	1.00	66.87	DS4	ATOM	2144	C	ILE	204	146.650	111.735	13.709	1.00	43.30	DS4
ATOM	2092	CA	VAL	198	147.558	117.586	24.637	1.00	66.87	DS4	ATOM	2145	O	ILE	204	146.651	110.756	12.973	1.00	43.30	DS4
ATOM	2093	CB	VAL	198	146.818	116.250	24.887	1.00	69.45	DS4	ATOM	2146	N	GLU	205	147.561	112.694	13.629	1.00	60.44	DS4
ATOM	2094	CG1	VAL	198	146.685	115.460	23.594	1.00	69.45	DS4	ATOM	2147	CA	GLU	205	148.612	112.932	12.635	1.00	60.44	DS4
ATOM	2095	CG2	VAL	198	147.553	115.447	25.942	1.00	69.45	DS4	ATOM	2148	CB	GLU	205	149.417	113.939	12.672	1.00	69.83	DS4
ATOM	2096	CG	VAL	198	147.002	118.181	23.356	1.00	66.87	DS4	ATOM	2149	CG	GLU	205	148.668	115.120	12.119	1.00	69.83	DS4
ATOM	2097	O	VAL	198	145.932	118.784	23.351	1.00	66.87	DS4	ATOM	2150	CD	GLU	205	149.519	116.372	12.087	1.00	69.83	DS4
ATOM	2098	N	ASN	199	147.734	117.993	22.264	1.00	47.47	DS4	ATOM	2151	OE1	GLU	205	149.095	117.374	11.465	1.00	69.83	DS4
ATOM	2099	CA	ASN	199	147.288	118.468	20.967	1.00	47.47	DS4	ATOM	2152	OE2	GLU	205	150.614	116.354	12.690	1.00	69.83	DS4
ATOM	2100	CB	ASN	199	148.435	119.154	20.233	1.00	50.78	DS4	ATOM	2153	C	GLU	205	149.532	111.437	12.837	1.00	60.44	DS4
ATOM	2101	CG1	ASN	199	147.984	119.790	18.942	1.00	50.78	DS4	ATOM	2154	O	GLU	205	149.979	110.815	11.879	1.00	60.44	DS4
ATOM	2102	OD1	ASN	199	146.803	119.721	18.586	1.00	50.78	DS4	ATOM	2155	N	PHE	206	149.810	111.105	14.084	1.00	42.52	DS4
ATOM	2103	ND2	ASN	199	148.914	120.411	18.228	1.00	47.47	DS4	ATOM	2156	CA	PHE	206	150.678	109.981	14.381	1.00	42.52	DS4
ATOM	2104	C	ASN	199	146.857	117.214	20.214	1.00	47.47	DS4	ATOM	2157	CB	PHE	206	150.966	109.949	15.879	1.00	22.89	DS4
ATOM	2105	O	ASN	199	147.669	116.570	19.558	1.00	47.47	DS4	ATOM	2158	CG	PHE	206	151.655	108.708	16.341	1.00	22.89	DS4
ATOM	2106	N	GLU	200	145.589	116.844	20.317	1.00	63.08	DS4	ATOM	2159	CD1	PHE	206	153.021	108.703	16.571	1.00	22.89	DS4
ATOM	2107	CA	GLU	200	145.156	115.633	19.641	1.00	63.08	DS4	ATOM	2160	CD2	PHE	206	150.932	107.544	16.584	1.00	22.89	DS4
ATOM	2108	CB	GLU	200	143.672	115.341	19.896	1.00	52.63	DS4	ATOM	2161	CE1	PHE	206	153.658	107.552	17.049	1.00	22.89	DS4
ATOM	2109	CG	GLU	200	142.743	116.333	19.271	1.00	52.63	DS4	ATOM	2162	CE2	PHE	206	151.560	106.392	17.058	1.00	22.89	DS4
ATOM	2110	CD	GLU	200	142.490	117.545	20.154	1.00	52.63	DS4	ATOM	2163	CZ	PHE	206	152.916	106.400	17.291	1.00	22.89	DS4
ATOM	2111	OE1	GLU	200	143.372	117.903	20.977	1.00	52.63	DS4	ATOM	2164	O	PHE	206	150.065	108.654	13.936	1.00	42.52	DS4
ATOM	2112	OE2	GLU	200	141.400	118.145	20.005	1.00	52.63	DS4	ATOM	2165	C	PHE	206	150.776	107.745	13.532	1.00	42.52	DS4
ATOM	2113	C	GLU	200	145.415	115.693	18.143	1.00	63.08	DS4	ATOM	2166	N	TYR	207	148.752	108.513	14.020	1.00	42.20	DS4
ATOM	2114	O	GLU	200	145.376	114.661	17.467	1.00	63.08	DS4	ATOM	2167	CA	TYR	207	148.168	107.257	13.592	1.00	42.20	DS4
ATOM	2115	N	ASN	201	145.686	116.885	17.615	1.00	45.79	DS4	ATOM	2168	CB	TYR	207	146.885	106.953	14.374	1.00	43.16	DS4
ATOM	2116	CA	ASN	201	145.948	116.990	16.183	1.00	45.79	DS4	ATOM	2169	CG	TYR	207	147.171	106.464	15.775	1.00	43.16	DS4
ATOM	2117	CB	ASN	201	146.180	118.446	15.757	1.00	78.35	DS4	ATOM	2170	CD1	TYR	207	146.418	106.906	16.868	1.00	43.16	DS4
ATOM	2118	CG	ASN	201	145.648	118.739	14.346	1.00	78.35	DS4	ATOM	2171	CE1	TYR	207	146.732	106.512	18.173	1.00	43.16	DS4
ATOM	2119	OD1	ASN	201	144.470	118.509	14.054	1.00	78.35	DS4	ATOM	2172	CD2	TYR	207	148.237	105.606	16.022	1.00	43.16	DS4
ATOM	2120	ND2	ASN	201	146.515	119.252	13.474	1.00	78.35	DS4	ATOM	2173	CE2	TYR	207	148.555	105.204	17.317	1.00	43.16	DS4
ATOM	2121	C	ASN	201	147.184	116.144	15.911	1.00	45.79	DS4	ATOM	2174	CZ	TYR	207	147.806	105.661	18.384	1.00	43.16	DS4
ATOM	2122	O	ASN	201	147.219	115.361	14.962	1.00	45.79	DS4	ATOM	2175	OH	TYR	207	148.149	105.276	19.658	1.00	43.16	DS4
ATOM	2123	N	LEU	202	148.190	116.282	16.765	1.00	41.42	DS4	ATOM	2176	C	TYR	207	147.897	107.283	12.104	1.00	42.20	DS4
ATOM	2124	CA	LEU	202	149.401	115.499	16.616	1.00	41.42	DS4	ATOM	2177	O	TYR	207	147.210	106.403	11.581	1.00	42.20	DS4
ATOM	2125	CB	LEU	202	150.454	115.967	17.598	1.00	37.53	DS4	ATOM	2178	N	SER	208	148.447	108.292	11.428	1.00	55.58	DS4
ATOM	2126	CG	LEU	202	150.819	117.433	17.484	1.00	37.53	DS4	ATOM	2179	CA	SER	208	148.288	108.451	9.981	1.00	55.58	DS4
ATOM	2127	CD1	LEU	202	151.894	117.755	18.512	1.00	37.53	DS4	ATOM	2180	CB	SER	208	148.284	109.928	9.593	1.00	93.71	DS4
ATOM	2128	CD2	LEU	202	151.294	117.727	16.075	1.00	37.53	DS4	ATOM	2181	OG	SER	208	147.144	110.581	10.110	1.00	93.71	DS4
ATOM	2129	C	LEU	202	149.131	114.013	16.855	1.00	41.42	DS4	ATOM	2182	C	SER	208	149.403	107.761	9.220	1.00	55.58	DS4
ATOM	2130	O	LEU	202	149.875	113.160	16.378	1.00	41.42	DS4	ATOM	2183	O	SER	208	149.166	107.170	8.172	1.00	55.58	DS4
ATOM	2131	N	VAL	203	148.085	113.689	17.849	1.00	55.96	DS4	ATOM	2184	N	ARG	209	150.619	107.854	9.754	1.00	74.22	DS4
ATOM	2132	CA	VAL	203	147.790	112.283	17.849	1.00	55.96	DS4	ATOM	2185	CA	ARG	209	151.802	107.254	10.205	1.00	74.22	DS4
ATOM	2133	CB	VAL	203	146.826	112.088	19.055	1.00	33.94	DS4	ATOM	2186	CB	ARG	209	152.893	107.065	9.149	1.00	107.56	DS4
ATOM	2134	CG1	VAL	203	146.393	110.626	19.149	1.00	33.94	DS4	ATOM	2187	CG	ARG	209	154.099	106.283	9.720	1.00	107.56	DS4
ATOM	2135	CG2	VAL	203	147.529	112.495	20.349	1.00	33.94	DS4	ATOM	2188	CD	ARG	209	155.141	106.177	10.810	1.00	107.56	DS4
ATOM	2136	C	VAL	203	147.176	111.686	16.587	1.00	55.96	DS4	ATOM	2189	NE	ARG	209	155.728	107.479	11.107	1.00	107.56	DS4
ATOM	2137	O	VAL	203	147.567	110.686	16.145	1.00	55.96	DS4	ATOM	2190	CZ	ARG	209	156.809	107.968	10.506	1.00	107.56	DS4
ATOM	2138	N	ILE	204	146.224	112.398	15.995	1.00	43.30	DS4	ATOM	2191	NH1	ARG	209	157.434	107.257	9.573	1.00	107.56	DS4

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ATOM	2192	NH2	ARG	209	157.260	109.173	10.836	1.00107.56	DS4	ATOM	2245	CG2	ILE	8	205.182	142.390	19.433	1.00	96.64	CS
ATOM	2193	C	ARG	209	151.485	105.920	8.493	1.00 74.22	DS4	ATOM	2246	CG1	ILE	8	203.172	141.028	18.838	1.00	96.64	CS
ATOM	2194	ARG	209	151.552	105.795	7.269	1.00 74.22	DS4	ATOM	2247	CD1	ILE	8	203.024	140.267	20.142	1.00	96.64	CS	
ATOM	2195	ZN+2	ZN2	300	-1.954	-3.058	1.723	1.00 71.67	DS4	ATOM	2248	C	ILE	8	206.208	141.933	16.673	1.00	66.76	CS
ATOM	2196	C	GLY	2	205.398	128.791	7.377	1.00 67.91	CS3	ATOM	2249	O	ILE	8	206.675	142.973	16.202	1.00	66.76	CS
ATOM	2197	O	GLY	2	206.129	129.041	6.433	1.00 67.91	CS3	ATOM	2250	N	GLY	9	206.932	140.835	16.892	1.00	78.26	CS
ATOM	2198	N	GLY	2	204.326	126.556	7.559	1.00 67.91	CS3	ATOM	2251	CA	GLY	9	208.353	140.803	16.589	1.00	78.26	CS
ATOM	2199	CA	GLY	2	205.439	127.440	8.044	1.00 67.91	CS3	ATOM	2252	C	GLY	9	208.678	141.433	15.245	1.00	78.26	CS
ATOM	2200	N	ASN	3	204.548	129.668	7.876	1.00 51.82	CS3	ATOM	2253	O	GLY	9	209.773	141.967	15.027	1.00	78.26	CS
ATOM	2201	CA	ASN	3	204.393	130.994	7.298	1.00 51.82	CS3	ATOM	2254	N	PHE	10	207.713	141.368	14.336	1.00	58.61	CS
ATOM	2202	CG	ASN	3	203.104	131.047	6.472	1.00 86.67	CS3	ATOM	2255	CA	PHE	10	207.883	141.931	13.011	1.00	58.61	CS
ATOM	2203	CG	ASN	3	203.155	130.183	5.247	1.00 86.67	CS3	ATOM	2256	CB	PHE	10	206.822	141.360	12.061	1.00	50.96	CS
ATOM	2204	OD1	ASN	3	203.864	130.496	4.294	1.00 86.67	CS3	ATOM	2257	CG	PHE	10	206.862	141.954	10.671	1.00	50.96	CS
ATOM	2205	ND2	ASN	3	202.399	129.088	5.255	1.00 86.67	CS3	ATOM	2258	CD1	PHE	10	208.030	141.914	9.909	1.00	50.96	CS
ATOM	2206	C	ASN	3	204.302	132.114	8.334	1.00 51.82	CS3	ATOM	2259	CD2	PHE	10	205.733	142.545	10.119	1.00	50.96	CS
ATOM	2207	O	ASN	3	204.173	131.886	9.551	1.00 51.82	CS3	ATOM	2260	CE1	PHE	10	208.064	142.453	8.623	1.00	50.96	CS
ATOM	2208	N	LYS	4	204.326	133.337	7.819	1.00 56.79	CS3	ATOM	2261	CE2	PHE	10	205.762	143.085	8.831	1.00	50.96	CS
ATOM	2209	CA	LYS	4	204.192	134.550	8.620	1.00 56.79	CS3	ATOM	2262	C2	PHE	10	206.926	143.039	8.086	1.00	50.96	CS
ATOM	2210	CB	LYS	4	202.701	134.827	8.860	1.00 50.80	CS3	ATOM	2263	C	PHE	10	207.734	143.438	13.088	1.00	58.61	CS
ATOM	2211	CG	LYS	4	201.811	133.596	8.883	1.00 50.80	CS3	ATOM	2264	O	PHE	10	208.377	144.180	12.343	1.00	58.61	CS
ATOM	2212	CD	LYS	4	200.815	133.664	7.745	1.00 50.80	CS3	ATOM	2265	N	ARG	11	206.891	143.875	14.017	1.00	67.96	CS
ATOM	2213	CE	LYS	4	199.910	132.462	7.750	1.00 50.80	CS3	ATOM	2266	CA	ARG	11	206.582	145.283	14.191	1.00	67.96	CS
ATOM	2214	NZ	LYS	4	198.766	132.715	6.842	1.00 50.80	CS3	ATOM	2267	CB	ARG	11	205.097	145.405	14.524	1.00	67.96	CS
ATOM	2215	C	LYS	4	204.958	134.756	9.936	1.00 56.79	CS3	ATOM	2268	CG	ARG	11	204.525	146.747	14.198	1.00	155.76	CS
ATOM	2216	O	LYS	4	204.975	133.895	10.828	1.00 56.79	CS3	ATOM	2269	CD	ARG	11	204.459	146.935	12.701	1.00	155.76	CS
ATOM	2217	N	ILE	5	205.577	135.932	10.035	1.00 66.27	CS3	ATOM	2270	NE	ARG	11	204.099	148.296	12.317	1.00	155.76	CS
ATOM	2218	CA	ILE	5	206.330	136.331	11.219	1.00 66.27	CS3	ATOM	2271	C2	ARG	11	204.961	149.308	12.263	1.00	155.76	CS
ATOM	2219	CB	ILE	5	207.133	137.659	11.020	1.00 53.29	CS3	ATOM	2272	NH1	ARG	11	206.241	149.112	12.566	1.00	155.76	CS
ATOM	2220	CG2	ILE	5	208.593	137.381	10.762	1.00 53.29	CS3	ATOM	2273	NH2	ARG	11	204.547	150.517	11.909	1.00	155.76	CS
ATOM	2221	CG1	ILE	5	206.473	138.502	9.934	1.00 53.29	CS3	ATOM	2274	C	ARG	11	207.403	146.079	15.223	1.00	67.96	CS
ATOM	2222	CD1	ILE	5	204.973	138.721	10.148	1.00 53.29	CS3	ATOM	2275	O	ARG	11	207.401	147.315	15.186	1.00	67.96	CS
ATOM	2223	C	ILE	5	205.367	136.647	12.343	1.00 66.27	CS3	ATOM	2276	N	LEU	12	208.099	145.387	16.129	1.00	50.36	CS
ATOM	2224	O	ILE	5	204.157	136.798	12.132	1.00 66.27	CS3	ATOM	2277	CA	LEU	12	208.888	146.043	17.177	1.00	50.36	CS
ATOM	2225	N	HIS	6	205.928	136.760	13.539	1.00 53.67	CS3	ATOM	2278	CB	LEU	12	210.015	145.126	17.646	1.00	37.27	CS
ATOM	2226	CA	HIS	6	205.161	137.149	14.696	1.00 53.67	CS3	ATOM	2279	CG	LEU	12	209.529	143.898	18.416	1.00	37.27	CS
ATOM	2227	CB	HIS	6	206.071	137.222	15.897	1.00 72.84	CS3	ATOM	2280	CD1	LEU	12	210.681	143.214	19.132	1.00	37.27	CS
ATOM	2228	CG	HIS	6	205.337	137.297	17.184	1.00 72.84	CS3	ATOM	2281	CD2	LEU	12	208.507	144.340	19.419	1.00	37.27	CS
ATOM	2229	CD2	HIS	6	204.933	138.354	17.856	1.00 72.84	CS3	ATOM	2282	C	LEU	12	209.460	147.408	16.821	1.00	50.36	CS
ATOM	2230	ND1	HIS	6	204.999	136.176	17.909	1.00 72.84	CS3	ATOM	2283	O	LEU	12	209.563	148.297	17.669	1.00	50.36	CS
ATOM	2231	CE1	HIS	6	204.317	136.540	18.979	1.00 72.84	CS3	ATOM	2284	N	GLY	13	209.838	147.577	15.564	1.00	93.13	CS
ATOM	2232	NE2	HIS	6	204.202	137.858	18.970	1.00 72.84	CS3	ATOM	2285	CA	GLY	13	210.370	148.855	15.142	1.00	93.13	CS
ATOM	2233	C	HIS	6	204.735	138.565	14.305	1.00 53.67	CS3	ATOM	2286	C	GLY	13	209.381	149.961	15.450	1.00	93.13	CS
ATOM	2234	O	HIS	6	205.568	139.378	13.888	1.00 53.67	CS3	ATOM	2287	O	GLY	13	209.711	150.943	16.118	1.00	93.13	CS
ATOM	2235	N	PRO	7	203.440	138.884	14.410	1.00 60.64	CS3	ATOM	2288	N	ILE	14	208.158	149.800	14.959	1.00	70.57	CS
ATOM	2236	CD	PRO	7	202.276	138.084	14.820	1.00 47.94	CS3	ATOM	2289	CA	ILE	14	207.124	150.790	15.198	1.00	70.57	CS
ATOM	2237	CB	PRO	7	203.046	140.244	14.023	1.00 60.64	CS3	ATOM	2290	CB	ILE	14	206.696	151.476	13.885	1.00	90.46	CS
ATOM	2238	CA	PRO	7	201.521	140.194	14.090	1.00 47.94	CS3	ATOM	2291	CG2	ILE	14	205.933	152.759	14.196	1.00	90.46	CS
ATOM	2239	CG	PRO	7	201.265	139.144	15.125	1.00 47.94	CS3	ATOM	2292	CG1	ILE	14	207.933	151.778	13.027	1.00	90.46	CS
ATOM	2240	C	PRO	7	203.663	141.322	14.906	1.00 60.64	CS3	ATOM	2293	CD1	ILE	14	208.959	152.694	13.693	1.00	90.46	CS
ATOM	2241	O	PRO	7	203.758	142.494	14.509	1.00 60.64	CS3	ATOM	2294	C	ILE	14	205.919	150.122	15.850	1.00	70.57	CS
ATOM	2242	N	ILE	8	204.094	140.914	16.098	1.00 66.76	CS3	ATOM	2295	O	ILE	14	206.048	149.049	16.440	1.00	70.57	CS
ATOM	2243	CA	ILE	8	204.728	141.837	17.032	1.00 66.76	CS3	ATOM	2296	N	THR	15	204.758	150.760	15.731	1.00	53.22	CS
ATOM	2244	CB	ILE	8	204.624	141.340	18.487	1.00 96.64	CS3	ATOM	2297	CA	THR	15	203.506	150.285	16.316	1.00	53.22	CS

ATOM	2298	CB	THR	15	202.470	149.976	15.215	1.00	80.98	CS3	ATOM	2351	N	ARG	21	212.403	147.117	28.535	1.00112.76	CS.
ATOM	2299	OG1 THR	15	202.815	148.759	14.550	1.00	80.98	CS3	ATOM	2352	CA	ARG	21	213.267	148.150	27.962	1.00112.76	CS.	
ATOM	2300	SG2 THR	15	202.428	151.108	14.192	1.00	80.98	CS3	ATOM	2353	CB	ARG	21	212.409	149.285	27.396	1.00118.89	CS.	
ATOM	2301	C THR	15	203.630	149.074	17.254	1.00	53.22	CS3	ATOM	2354	CG	ARG	21	211.271	149.707	28.300	1.00118.89	CS.	
ATOM	2302	O THR	15	202.932	148.062	17.089	1.00	53.22	CS3	ATOM	2355	CD	ARG	21	210.180	150.409	27.510	1.00118.89	CS.	
ATOM	2303	N ARG	16	204.515	149.196	18.244	1.00	58.86	CS3	ATOM	2356	NE	ARG	21	208.939	150.490	28.274	1.00118.89	CS.	
ATOM	2304	CA ARG	16	204.746	148.142	19.223	1.00	58.86	CS3	ATOM	2357	C2	ARG	21	207.743	150.723	27.741	1.00118.89	CS.	
ATOM	2305	CB ARG	16	204.713	146.775	18.550	1.00	66.12	CS3	ATOM	2358	NH1 ARG	21	207.622	150.901	26.430	1.00118.89	CS.		
ATOM	2306	CG ARG	16	204.138	145.701	19.424	1.00	66.12	CS3	ATOM	2359	NH2 ARG	21	206.665	150.770	28.517	1.00118.89	CS.		
ATOM	2307	CD ARG	16	202.660	145.927	19.611	1.00	66.12	CS3	ATOM	2360	C ARG	21	214.292	148.716	28.939	1.00112.76	CS.		
ATOM	2308	NE ARG	16	202.093	144.970	20.553	1.00	66.12	CS3	ATOM	2361	O ARG	21	214.038	149.717	29.601	1.00127.60	CS.		
ATOM	2309	CG ARG	16	200.790	144.846	20.801	1.00	66.12	CS3	ATOM	2362	N TRP	22	215.455	148.077	29.016	1.00127.60	CS.		
ATOM	2310	NH1 ARG	16	199.906	145.622	20.169	1.00	66.12	CS3	ATOM	2363	CA TRP	22	216.503	148.534	29.915	1.00127.60	CS.		
ATOM	2311	NH2 ARG	16	200.367	143.942	21.684	1.00	66.12	CS3	ATOM	2364	CB TRP	22	217.146	147.376	30.652	1.00 83.32	CS.		
ATOM	2312	C ARG	16	206.101	148.318	19.907	1.00	58.86	CS3	ATOM	2365	CG TRP	22	216.290	146.218	30.836	1.00 83.32	CS.		
ATOM	2313	O ARG	16	207.143	148.277	19.244	1.00	58.86	CS3	ATOM	2366	CD2 TRP	22	216.714	144.861	30.863	1.00 83.32	CS.		
ATOM	2314	N ASP	17	206.086	148.520	21.226	1.00	54.01	CS3	ATOM	2367	CE2 TRP	22	215.590	144.078	31.196	1.00 83.32	CS.		
ATOM	2315	CA ASP	17	207.323	148.679	21.997	1.00	54.01	CS3	ATOM	2368	CE3 TRP	22	217.945	144.224	30.651	1.00 83.32	CS.		
ATOM	2316	CB ASP	17	207.200	149.802	23.034	1.00109.73	CS3	ATOM	2369	CD1 TRP	22	214.960	146.214	31.128	1.00 83.32	CS.			
ATOM	2317	CG ASP	17	206.904	151.153	22.404	1.00109.73	CS3	ATOM	2370	NE1 TRP	22	214.528	144.931	31.347	1.00 83.32	CS.			
ATOM	2318	OD1 ASP	17	207.624	151.547	21.463	1.00109.73	CS3	ATOM	2371	C22 TRP	22	215.654	142.690	31.316	1.00 83.32	CS.			
ATOM	2319	OD2 ASP	17	205.953	151.829	22.853	1.00109.73	CS3	ATOM	2372	C23 TRP	22	218.009	142.839	30.770	1.00 83.32	CS.			
ATOM	2320	C ASP	17	207.608	147.360	22.697	1.00	54.01	CS3	ATOM	2373	CH2 TRP	22	216.869	142.089	31.104	1.00 83.32	CS.		
ATOM	2321	O ASP	17	206.743	146.479	22.759	1.00	54.01	CS3	ATOM	2374	C TRP	22	217.597	149.241	29.150	1.00127.60	CS.		
ATOM	2322	N TRP	18	208.827	147.225	23.209	1.00	81.45	CS3	ATOM	2375	O TRP	22	217.327	150.073	28.281	1.00127.60	CS.		
ATOM	2323	CA TRP	18	209.253	146.005	23.887	1.00	81.45	CS3	ATOM	2376	N TRP	23	218.841	148.891	29.476	1.00 61.48	CS.		
ATOM	2324	CB TRP	18	210.771	146.023	24.092	1.00	67.93	CS3	ATOM	2377	CA TRP	23	219.994	149.498	28.823	1.00 61.48	CS.		
ATOM	2325	CG TRP	18	211.615	145.832	22.843	1.00	67.93	CS3	ATOM	2378	CB TRP	23	220.275	150.893	29.420	1.00201.09	CS.		
ATOM	2326	CD2 TRP	18	211.800	146.765	21.767	1.00	67.93	CS3	ATOM	2379	CG TRP	23	220.474	150.965	30.931	1.00201.09	CS.		
ATOM	2327	CE2 TRP	18	212.748	146.201	20.881	1.00	67.93	CS3	ATOM	2380	CD1 TRP	23	221.597	150.398	31.542	1.00201.09	CS.		
ATOM	2328	CE3 TRP	18	211.261	148.023	21.466	1.00	67.93	CS3	ATOM	2381	CE1 TRP	23	221.804	150.509	32.920	1.00201.09	CS.		
ATOM	2329	CD1 TRP	18	212.430	144.768	22.565	1.00	67.93	CS3	ATOM	2382	CD2 TRP	23	219.559	151.642	31.742	1.00201.09	CS.		
ATOM	2330	NE1 TRP	18	213.114	144.984	21.393	1.00	67.93	CS3	ATOM	2383	CE2 TRP	23	219.756	151.757	33.117	1.00201.09	CS.		
ATOM	2331	C22 TRP	18	213.171	146.852	19.715	1.00	67.93	CS3	ATOM	2384	C2 TRP	23	220.880	151.188	33.698	1.00201.09	CS.		
ATOM	2332	C23 TRP	18	211.685	148.674	20.300	1.00	67.93	CS3	ATOM	2385	CH TRP	23	221.079	151.296	35.056	1.00201.09	CS.		
ATOM	2333	CH2 TRP	18	212.630	148.084	19.442	1.00	67.93	CS3	ATOM	2386	C TYR	23	221.273	148.660	28.800	1.00 61.48	CS.		
ATOM	2334	C TRP	18	208.575	145.819	25.240	1.00	81.45	CS3	ATOM	2387	O TYR	23	221.456	147.696	29.573	1.00 61.48	CS.		
ATOM	2335	O TRP	18	207.943	146.740	25.752	1.00	81.45	CS3	ATOM	2388	N ALA	24	222.134	149.063	27.868	1.00146.18	CS.		
ATOM	2336	N GLU	19	208.706	144.620	25.808	1.00	64.91	CS3	ATOM	2389	CA ALA	24	223.425	148.458	27.582	1.00146.18	CS.		
ATOM	2337	CA GLU	19	208.134	144.315	27.121	1.00	64.91	CS3	ATOM	2390	CB ALA	24	224.413	149.557	27.240	1.00 38.89	CS.		
ATOM	2338	CB GLU	19	207.596	142.876	27.171	1.00110.49	CS3	ATOM	2391	C ALA	24	224.046	147.517	28.611	1.00146.18	CS.			
ATOM	2339	CG GLU	19	206.265	142.649	26.454	1.00110.49	CS3	ATOM	2392	O ALA	24	224.939	147.916	29.357	1.00146.18	CS.			
ATOM	2340	CD GLU	19	205.642	141.288	26.785	1.00110.49	CS3	ATOM	2393	N GLY	25	223.578	146.271	28.650	1.00106.49	CS.			
ATOM	2341	OE1 GLU	19	205.348	141.042	27.974	1.00110.49	CS3	ATOM	2394	CA GLY	25	224.158	145.293	29.558	1.00106.49	CS.			
ATOM	2342	OE2 GLU	19	205.445	140.460	25.865	1.00110.49	CS3	ATOM	2395	C GLY	25	225.069	144.421	28.703	1.00106.49	CS.			
ATOM	2343	C GLU	19	209.184	144.501	28.224	1.00	64.91	CS3	ATOM	2396	O GLY	25	224.818	144.319	27.503	1.00106.49	CS.		
ATOM	2344	O GLU	19	208.862	144.497	29.403	1.00	64.91	CS3	ATOM	2397	N LYS	26	226.119	143.814	29.263	1.00 74.71	CS.		
ATOM	2345	N SER	20	210.441	144.651	27.831	1.00	74.13	CS3	ATOM	2398	CA LYS	26	227.005	142.953	28.455	1.00 74.71	CS.		
ATOM	2346	CA SER	20	211.529	144.857	28.783	1.00	74.13	CS3	ATOM	2399	CB LYS	26	228.166	143.767	27.877	1.00101.98	CS.		
ATOM	2347	CB SER	20	212.277	143.541	29.072	1.00	40.35	CS3	ATOM	2400	CG LYS	26	227.673	144.853	26.944	1.00101.98	CS.		
ATOM	2348	OG SER	20	211.410	142.512	29.552	1.00	40.35	CS3	ATOM	2401	CD LYS	26	228.724	145.388	25.996	1.00101.98	CS.		
ATOM	2349	C SER	20	212.480	145.850	28.134	1.00	74.13	CS3	ATOM	2402	CE LYS	26	228.057	146.377	25.040	1.00101.98	CS.		
ATOM	2350	O SER	20	213.265	145.472	27.268	1.00	74.13	CS3	ATOM	2403	NZ LYS	26	228.985	147.001	24.057	1.00101.98	CS.		

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ATOM	2404	C	LYS	26	227.533	141.739	29.218	1.00	74.71	CS3	ATOM	2457	N	LEU	32	220.717	139.702	33.939	1.00	66.32	CS-
ATOM	2405	O	LYS	26	227.491	140.611	28.719	1.00	74.71	CS3	ATOM	2458	CA	LEU	32	219.675	140.697	34.064	1.00	66.32	CS-
ATOM	2406	AM	LYS	27	228.049	141.968	30.417	1.00	90.87	CS3	ATOM	2459	CB	LEU	32	220.161	142.004	33.448	1.00	62.84	CS-
ATOM	2407	CA	LYS	27	228.526	140.868	31.238	1.00	90.87	CS3	ATOM	2460	CG	LEU	32	220.041	143.242	34.330	1.00	62.84	CS-
ATOM	2408	CB	LYS	27	229.711	141.303	32.102	1.00	107.70	CS3	ATOM	2461	CD1	LEU	32	220.628	144.483	33.636	1.00	62.84	CS-
ATOM	2409	CG	LYS	27	230.974	141.629	31.331	1.00	107.70	CS3	ATOM	2462	CD2	LEU	32	218.576	143.441	34.647	1.00	62.84	CS-
ATOM	2410	CD	LYS	27	232.174	141.737	32.267	1.00	107.70	CS3	ATOM	2463	C	LEU	32	218.389	140.257	33.379	1.00	66.32	CS-
ATOM	2411	CE	LYS	27	233.484	141.870	31.493	1.00	107.70	CS3	ATOM	2464	O	LEU	32	217.297	140.605	33.826	1.00	66.32	CS-
ATOM	2412	N2	LYS	27	234.658	141.986	32.402	1.00	107.70	CS3	ATOM	2465	N	LEU	33	218.524	139.495	32.295	1.00	103.41	CS-
ATOM	2413	C	LYS	27	227.333	140.553	32.128	1.00	90.87	CS3	ATOM	2466	CA	LEU	33	217.376	139.013	31.523	1.00	103.41	CS-
ATOM	2414	LYS	27	227.316	139.570	32.876	1.00	90.87	CS3	ATOM	2467	CB	LEU	33	217.794	138.657	30.094	1.00	79.73	CS-	
ATOM	2415	N	GLN	28	226.321	141.406	32.020	1.00	113.60	CS3	ATOM	2468	CG	LEU	33	216.709	138.285	29.070	1.00	79.73	CS-
ATOM	2416	CA	GLN	28	225.121	141.272	32.821	1.00	113.60	CS3	ATOM	2469	CD1	LEU	33	217.372	138.162	27.707	1.00	79.73	CS-
ATOM	2417	CB	GLN	28	224.827	142.596	33.506	1.00	111.55	CS3	ATOM	2470	CD2	LEU	33	215.993	136.989	29.439	1.00	79.73	CS-
ATOM	2418	CG	GLN	28	225.996	143.177	34.247	1.00	111.55	CS3	ATOM	2471	C	LEU	33	216.728	137.800	32.139	1.00	103.41	CS-
ATOM	2419	CD	GLN	28	225.720	144.590	34.677	1.00	111.55	CS3	ATOM	2472	O	LEU	33	215.508	137.748	32.288	1.00	103.41	CS-
ATOM	2420	OE1	GLN	28	224.759	144.851	35.405	1.00	111.55	CS3	ATOM	2473	N	LEU	34	217.546	136.812	32.472	1.00	60.54	CS-
ATOM	2421	NE2	GLN	28	226.550	145.522	34.218	1.00	111.55	CS3	ATOM	2474	CA	LEU	34	217.024	135.592	33.052	1.00	60.54	CS-
ATOM	2422	C	GLN	28	223.898	140.859	32.025	1.00	113.60	CS3	ATOM	2475	CB	LEU	34	218.137	134.765	33.687	1.00	38.45	CS-
ATOM	2423	O	GLN	28	223.137	139.996	32.465	1.00	113.60	CS3	ATOM	2476	CG	LEU	34	217.794	133.274	33.814	1.00	38.45	CS-
ATOM	2424	N	TYR	29	223.710	141.479	30.861	1.00	65.02	CS3	ATOM	2477	CD1	LEU	34	218.906	132.567	34.591	1.00	38.45	CS-
ATOM	2425	CA	TYR	29	222.550	141.202	30.014	1.00	65.02	CS3	ATOM	2478	CD2	LEU	34	216.454	133.076	34.506	1.00	38.45	CS-
ATOM	2426	CB	TYR	29	222.908	141.328	28.535	1.00	62.73	CS3	ATOM	2479	C	LEU	34	216.024	135.970	34.118	1.00	60.54	CS-
ATOM	2427	CG	TYR	29	221.707	141.616	27.652	1.00	62.73	CS3	ATOM	2480	O	LEU	34	214.963	135.353	34.230	1.00	60.54	CS-
ATOM	2428	CD1	TYR	29	221.555	142.863	27.031	1.00	62.73	CS3	ATOM	2481	N	GLU	35	216.372	136.996	34.895	1.00	87.46	CS-
ATOM	2429	CE1	TYR	29	220.468	143.128	26.194	1.00	62.73	CS3	ATOM	2482	CA	GLU	35	215.516	137.482	35.972	1.00	87.46	CS-
ATOM	2430	CD2	TYR	29	220.733	140.638	27.420	1.00	62.73	CS3	ATOM	2483	CB	GLU	35	216.069	138.800	36.522	1.00	102.38	CS-
ATOM	2431	CE2	TYR	29	219.637	140.887	26.587	1.00	62.73	CS3	ATOM	2484	CG	GLU	35	215.422	139.256	37.824	1.00	102.38	CS-
ATOM	2432	C2	TYR	29	219.511	142.134	25.973	1.00	62.73	CS3	ATOM	2485	CD	GLU	35	216.285	140.244	38.603	1.00	102.38	CS-
ATOM	2433	OH	TYR	29	218.445	142.378	25.128	1.00	62.73	CS3	ATOM	2486	OE1	GLU	35	217.394	139.861	39.041	1.00	102.38	CS-
ATOM	2434	C	TYR	29	221.891	139.848	30.251	1.00	65.02	CS3	ATOM	2487	OE2	GLU	35	215.851	141.403	38.779	1.00	102.38	CS-
ATOM	2435	O	TYR	29	220.714	139.792	30.582	1.00	65.02	CS3	ATOM	2488	C	GLU	35	214.087	137.676	35.474	1.00	87.46	CS-
ATOM	2436	N	ARG	30	222.637	138.760	30.088	1.00	76.86	CS3	ATOM	2489	O	GLU	35	213.160	137.015	35.948	1.00	87.46	CS-
ATOM	2437	CA	ARG	30	222.055	137.436	30.295	1.00	76.86	CS3	ATOM	2490	N	ASP	36	213.920	138.569	34.504	1.00	69.36	CS-
ATOM	2438	CB	ARG	30	223.098	136.341	30.040	1.00	82.63	CS3	ATOM	2491	CA	ASP	36	212.604	138.843	33.944	1.00	69.36	CS-
ATOM	2439	CG	ARG	30	224.367	136.507	30.824	1.00	82.63	CS3	ATOM	2492	CB	ASP	36	212.734	139.545	32.600	1.00	101.95	CS-
ATOM	2440	CD	ARG	30	225.348	135.382	30.562	1.00	82.63	CS3	ATOM	2493	CG	ASP	36	213.325	140.919	32.732	1.00	101.95	CS-
ATOM	2441	NE	ARG	30	226.690	135.732	31.029	1.00	82.63	CS3	ATOM	2494	OD1	ASP	36	213.017	141.778	31.876	1.00	101.95	CS-
ATOM	2442	C2	ARG	30	227.379	136.797	30.612	1.00	82.63	CS3	ATOM	2495	OD2	ASP	36	214.097	141.133	33.693	1.00	101.95	CS-
ATOM	2443	NH1	ARG	30	226.862	137.634	29.713	1.00	82.63	CS3	ATOM	2496	C	ASP	36	211.723	137.623	33.764	1.00	69.36	CS-
ATOM	2444	NH2	ARG	30	228.590	137.034	31.097	1.00	82.63	CS3	ATOM	2497	O	ASP	36	210.541	137.663	34.092	1.00	69.36	CS-
ATOM	2445	C	ARG	30	221.457	137.275	31.696	1.00	76.86	CS3	ATOM	2498	N	GLN	37	212.290	136.548	33.226	1.00	118.56	CS-
ATOM	2446	O	ARG	30	220.320	136.820	31.844	1.00	76.86	CS3	ATOM	2499	CA	GLN	37	211.527	135.325	33.001	1.00	89.94	CS-
ATOM	2447	N	HIS	31	222.227	137.655	32.714	1.00	80.73	CS3	ATOM	2500	CB	GLN	37	212.350	134.328	32.169	1.00	89.94	CS-
ATOM	2448	CA	HIS	31	221.801	137.569	34.114	1.00	80.73	CS3	ATOM	2501	CG	GLN	37	211.998	134.315	30.671	1.00	89.94	CS-
ATOM	2449	CB	HIS	31	222.926	138.054	35.027	1.00	67.30	CS3	ATOM	2502	CD	GLN	37	211.871	135.714	30.070	1.00	89.94	CS-
ATOM	2450	CG	HIS	31	224.210	137.304	34.869	1.00	67.30	CS3	ATOM	2503	OE1	GLN	37	212.818	136.504	30.089	1.00	89.94	CS-
ATOM	2451	CD2	HIS	31	225.422	137.698	34.407	1.00	67.30	CS3	ATOM	2504	NE2	GLN	37	210.691	136.022	29.535	1.00	89.94	CS-
ATOM	2452	ND1	HIS	31	224.352	135.984	35.243	1.00	67.30	CS3	ATOM	2505	C	GLN	37	211.088	134.705	34.325	1.00	118.56	CS-
ATOM	2453	CE1	HIS	31	225.598	135.599	35.024	1.00	67.30	CS3	ATOM	2506	O	GLN	37	210.043	134.056	34.399	1.00	118.56	CS-
ATOM	2454	NE2	HIS	31	226.269	136.620	34.517	1.00	67.30	CS3	ATOM	2507	N	ARG	38	211.891	134.907	35.365	1.00	100.00	CS-
ATOM	2455	C	HIS	31	220.573	138.449	34.341	1.00	80.73	CS3	ATOM	2508	CA	ARG	38	211.562	134.402	36.694	1.00	100.00	CS-
ATOM	2456	O	HIS	31	219.542	138.012	34.862	1.00	80.73	CS3	ATOM	2509	CB	ARG	38	212.731	134.638	37.645	1.00	98.52	CS-

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ATOM	2510	CG	ARG	38	213.971	133.858	37.298	1.00	98.52	CS3	ATOM	2563	OE2	GLU	44	204.551	135.750	31.348	1.00108.96	CS.	
ATOM	2511	CD	ARG	38	213.831	132.405	37.717	1.00	98.52	CS3	ATOM	2564	C	GLU	44	200.981	133.385	35.598	1.00	86.54	CS.
ATOM	2512	NE	ARG	38	214.958	131.594	37.257	1.00	98.52	CS3	ATOM	2565	O	GLU	44	199.803	133.056	35.466	1.00	86.54	CS.
ATOM	2513	CZ	ARG	38	216.240	131.910	37.438	1.00	98.52	CS3	ATOM	2566	N	LVS	45	201.841	132.743	36.386	1.00107.99	CS.	
ATOM	2514	NH1	ARG	38	216.570	133.032	38.073	1.00	98.52	CS3	ATOM	2567	CA	LVS	45	201.476	131.561	37.163	1.00107.99	CS.	
ATOM	2515	NH2	ARG	38	217.194	131.103	36.983	1.00	98.52	CS3	ATOM	2568	CB	LVS	45	202.712	130.986	37.869	1.00	99.45	CS.
ATOM	2516	C	ARG	38	210.357	135.225	37.138	1.00100.00	CS3	ATOM	2569	CG	LVS	45	203.191	129.641	37.328	1.00	99.45	CS.	
ATOM	2517	O	ARG	38	209.355	134.693	37.629	1.00100.00	CS3	ATOM	2570	CD	LVS	45	202.129	128.559	37.517	1.00	99.45	CS.	
ATOM	2518	N	ILE	39	210.482	136.537	36.952	1.00	82.24	CS3	ATOM	2571	CE	LVS	45	202.596	127.204	36.990	1.00	99.45	CS.
ATOM	2519	CA	ILE	39	209.429	137.485	37.279	1.00	82.24	CS3	ATOM	2572	NZ	LVS	45	201.559	126.144	37.173	1.00	99.45	CS.
ATOM	2520	CG	ILE	39	209.793	138.889	36.789	1.00	70.32	CS3	ATOM	2573	C	LVS	45	200.402	131.846	38.208	1.00107.99	CS.	
ATOM	2521	CG2	ILE	39	208.570	139.793	36.835	1.00	70.32	CS3	ATOM	2574	O	LVS	45	199.678	130.938	38.620	1.00107.99	CS.	
ATOM	2522	CG1	ILE	39	210.961	139.435	37.612	1.00	70.32	CS3	ATOM	2575	N	GLU	46	200.302	133.100	38.640	1.00	92.60	CS.
ATOM	2523	CD1	ILE	39	211.391	140.840	37.195	1.00	70.32	CS3	ATOM	2576	CA	GLU	46	199.316	133.471	39.650	1.00	92.60	CS.
ATOM	2524	C	ILE	39	208.163	137.043	36.565	1.00	82.24	CS3	ATOM	2577	CB	GLU	46	200.013	134.115	40.852	1.00147.39	CS.	
ATOM	2525	O	ILE	39	207.276	136.443	37.178	1.00	82.24	CS3	ATOM	2578	CG	GLU	46	200.376	133.109	41.931	1.00147.39	CS.	
ATOM	2526	N	ARG	40	208.094	137.341	35.267	1.00	73.92	CS3	ATOM	2579	CD	GLU	46	199.151	132.377	42.463	1.00147.39	CS.	
ATOM	2527	CA	ARG	40	206.954	136.970	34.430	1.00	73.92	CS3	ATOM	2580	OE1	GLU	46	198.348	133.001	43.193	1.00147.39	CS.	
ATOM	2528	CB	ARG	40	207.346	137.013	32.945	1.00	60.50	CS3	ATOM	2581	OE2	GLU	46	198.983	131.181	42.141	1.00147.39	CS.	
ATOM	2529	CG	ARG	40	207.678	138.411	32.410	1.00	60.50	CS3	ATOM	2582	C	GLU	46	198.201	134.383	39.163	1.00	92.60	CS.
ATOM	2530	CD	ARG	40	207.862	138.393	30.902	1.00	60.50	CS3	ATOM	2583	O	GLU	46	197.037	133.974	39.106	1.00	92.60	CS.
ATOM	2531	NE	ARG	40	207.847	139.729	30.303	1.00	60.50	CS3	ATOM	2584	N	LEU	47	198.564	135.615	38.822	1.00	89.05	CS.
ATOM	2532	CZ	ARG	40	208.904	140.536	30.217	1.00	60.50	CS3	ATOM	2585	CA	LEU	47	197.611	136.614	38.344	1.00	89.05	CS.
ATOM	2533	NH1	ARG	40	210.084	140.145	30.697	1.00	60.50	CS3	ATOM	2586	CB	LEU	47	198.352	137.888	37.938	1.00	60.67	CS.
ATOM	2534	NH2	ARG	40	208.785	141.730	29.639	1.00	60.50	CS3	ATOM	2587	CG	LEU	47	199.037	138.702	39.035	1.00	60.67	CS.
ATOM	2535	C	ARG	40	206.487	135.563	34.794	1.00	73.92	CS3	ATOM	2588	CD1	LEU	47	199.850	137.774	39.955	1.00	60.67	CS.
ATOM	2536	O	ARG	40	205.284	135.278	34.818	1.00	73.92	CS3	ATOM	2589	CD2	LEU	47	199.916	139.792	38.375	1.00	60.67	CS.
ATOM	2537	N	GLY	41	207.457	134.700	35.093	1.00	70.25	CS3	ATOM	2590	C	LEU	47	196.744	136.173	37.166	1.00	89.05	CS.
ATOM	2538	CA	GLY	41	207.171	133.324	35.465	1.00	70.25	CS3	ATOM	2591	O	LEU	47	196.200	137.018	36.449	1.00	89.05	CS.
ATOM	2539	C	GLY	41	206.043	133.152	36.464	1.00	70.25	CS3	ATOM	2592	N	TYR	48	196.609	134.867	36.954	1.00	87.23	CS.
ATOM	2540	O	GLY	41	205.017	132.554	36.137	1.00	70.25	CS3	ATOM	2593	CA	TYR	48	195.805	134.391	35.844	1.00	87.23	CS.
ATOM	2541	N	LEU	42	206.219	133.679	37.676	1.00112.23	CS3	ATOM	2594	CB	TYR	48	195.757	132.856	35.827	1.00101.29	CS.		
ATOM	2542	CA	LEU	42	205.197	133.553	38.714	1.00112.23	CS3	ATOM	2595	CG	TYR	48	194.958	132.305	34.661	1.00101.29	CS.		
ATOM	2543	CB	LEU	42	205.782	133.853	40.102	1.00145.99	CS3	ATOM	2596	CD1	TYR	48	194.732	133.088	33.513	1.00101.29	CS.		
ATOM	2544	CG	LEU	42	206.022	132.639	41.014	1.00145.99	CS3	ATOM	2597	CE1	TYR	48	193.977	132.615	32.445	1.00101.29	CS.		
ATOM	2545	CD1	LEU	42	206.349	133.115	42.422	1.00145.99	CS3	ATOM	2598	CE2	TYR	48	194.408	131.020	34.704	1.00101.29	CS.		
ATOM	2546	CD2	LEU	42	204.781	131.748	41.049	1.00145.99	CS3	ATOM	2599	CE2	TYR	48	193.649	130.531	33.633	1.00101.29	CS.		
ATOM	2547	C	LEU	42	203.955	134.410	38.505	1.00112.23	CS3	ATOM	2600	C2	TYR	48	193.437	131.339	32.506	1.00101.29	CS.		
ATOM	2548	O	LEU	42	202.841	133.966	38.793	1.00112.23	CS3	ATOM	2601	OH	TYR	48	192.685	130.881	31.444	1.00101.29	CS.		
ATOM	2549	N	LEU	43	204.137	135.629	38.010	1.00	86.60	CS3	ATOM	2602	C	TYR	48	194.394	134.971	35.931	1.00	87.23	CS.
ATOM	2550	CA	LEU	43	203.001	136.521	37.793	1.00	86.60	CS3	ATOM	2603	O	TYR	48	193.897	135.578	34.974	1.00	87.23	CS.
ATOM	2551	CB	LEU	43	203.463	137.818	37.151	1.00	74.50	CS3	ATOM	2604	N	SER	49	193.769	134.801	37.093	1.00	79.54	CS.
ATOM	2552	CG	LEU	43	204.897	138.196	37.491	1.00	74.50	CS3	ATOM	2605	CA	SER	49	192.412	135.288	37.341	1.00	79.54	CS.
ATOM	2553	CD1	LEU	43	205.169	139.579	36.898	1.00	74.50	CS3	ATOM	2606	CB	SER	49	191.970	134.850	38.733	1.00	97.58	CS.
ATOM	2554	CD2	LEU	43	205.118	138.171	39.002	1.00	74.50	CS3	ATOM	2607	OG	SER	49	192.938	135.229	39.690	1.00	97.58	CS.
ATOM	2555	C	LEU	43	201.958	135.862	36.899	1.00	86.60	CS3	ATOM	2608	C	SER	49	192.262	136.807	37.212	1.00	79.54	CS.
ATOM	2556	O	LEU	43	200.759	135.881	37.198	1.00	86.60	CS3	ATOM	2609	O	SER	49	191.164	137.319	36.986	1.00	79.54	CS.
ATOM	2557	N	GLU	44	202.423	135.289	35.794	1.00	86.54	CS3	ATOM	2610	N	ALA	50	193.362	137.530	37.367	1.00	49.85	CS.
ATOM	2558	CA	GLU	44	201.538	134.601	34.870	1.00	86.54	CS3	ATOM	2611	CA	ALA	50	193.312	138.978	37.252	1.00	49.85	CS.
ATOM	2559	CB	GLU	44	202.319	134.172	33.629	1.00108.96	CS3	ATOM	2612	CB	ALA	50	194.577	139.587	37.852	1.00	62.01	CS.	
ATOM	2560	CG	GLU	44	202.618	135.320	32.680	1.00108.96	CS3	ATOM	2613	C	ALA	50	193.163	139.399	35.788	1.00	49.85	CS.	
ATOM	2561	CD	GLU	44	203.620	134.950	31.603	1.00108.96	CS3	ATOM	2614	O	ALA	50	192.510	140.400	35.465	1.00	49.85	CS.	
ATOM	2562	OE1	GLU	44	203.472	133.863	31.003	1.00108.96	CS3	ATOM	2615	N	GLY	51	193.767	138.615	34.903	1.00111.13	CS.		

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ATOM	2616	CA	GLY	51	193.722	138.932	33.491	1.00111.13	CS3	ATOM	2669	CG	GLU	58	211.916	151.085	32.458	1.00106.93	CS.
ATOM	2617	C	GLY	51	195.055	139.541	33.103	1.00111.13	CS3	ATOM	2670	CD	GLU	58	210.917	152.098	31.933	1.00106.93	CS.
ATOM	2618	GLY	51	195.155	140.745	32.861	1.00111.13	CS3	ATOM	2671	OE1	GLU	58	209.818	151.680	31.504	1.00106.93	CS.	
ATOM	2619	N	LEU	52	196.084	138.698	33.069	1.0086.79	CS3	ATOM	2672	OE2	GLU	58	211.233	153.309	31.936	1.00106.93	CS.
ATOM	2620	CA	LEU	52	197.445	139.104	32.713	1.0086.79	CS3	ATOM	2673	C	GLU	58	213.074	148.598	34.341	1.0074.85	CS.
ATOM	2621	CB	LEU	52	198.398	137.936	32.928	1.0090.44	CS3	ATOM	2674	O	GLU	58	212.889	147.920	35.355	1.0074.85	CS.
ATOM	2622	CG	LEU	52	197.971	136.687	32.134	1.0090.44	CS3	ATOM	2675	N	ARG	59	214.225	149.230	34.099	1.0099.98	CS.
ATOM	2623	CD1	LEU	52	199.146	135.707	32.028	1.0090.44	CS3	ATOM	2676	CA	ARG	59	215.334	149.137	35.056	1.0099.98	CS.
ATOM	2624	CD2	LEU	52	196.730	136.035	32.785	1.0090.44	CS3	ATOM	2677	CB	ARG	59	216.102	147.827	34.862	1.0073.23	CS.
ATOM	2625	C	LEU	52	197.482	139.489	31.245	1.0086.79	CS3	ATOM	2678	CG	ARG	59	215.300	146.567	35.106	1.0073.23	CS.
ATOM	2626	LEU	52	197.263	138.649	30.382	1.0086.79	CS3	ATOM	2679	CD	ARG	59	216.113	145.587	35.911	1.0073.23	CS.	
ATOM	2627	N	ALA	53	197.757	140.747	30.943	1.0080.84	CS3	ATOM	2680	NE	ARG	59	215.631	144.224	35.744	1.0073.23	CS.
ATOM	2628	CA	ALA	53	197.798	141.141	29.544	1.0080.84	CS3	ATOM	2681	C2	ARG	59	216.116	143.183	36.413	1.0073.23	CS.
ATOM	2629	CB	ALA	53	196.862	142.317	29.302	1.0028.00	CS3	ATOM	2682	NH1	ARG	59	217.095	143.361	37.298	1.0073.23	CS.
ATOM	2630	C	ALA	53	199.208	141.493	29.087	1.0080.84	CS3	ATOM	2683	NH2	ARG	59	215.641	141.961	36.187	1.0073.23	CS.
ATOM	2631	O	ALA	53	199.538	141.360	27.906	1.0080.84	CS3	ATOM	2684	C	ARG	59	216.357	150.274	35.065	1.0099.98	CS.
ATOM	2632	N	ARG	54	200.047	141.928	30.020	1.0083.90	CS3	ATOM	2685	O	ARG	59	216.388	151.116	34.160	1.0099.98	CS.
ATOM	2633	CA	ARG	54	201.397	142.315	29.657	1.0083.90	CS3	ATOM	2686	N	ALA	60	217.196	150.265	36.107	1.00111.27	CS.
ATOM	2634	CB	ARG	54	201.335	143.425	28.612	1.0099.69	CS3	ATOM	2687	CA	ALA	60	218.268	151.247	36.311	1.00111.27	CS.
ATOM	2635	CG	ARG	54	202.670	143.794	28.019	1.0099.69	CS3	ATOM	2688	CB	ALA	60	217.688	152.656	36.463	1.0060.48	CS.
ATOM	2636	CD	ARG	54	202.596	145.176	27.400	1.0099.69	CS3	ATOM	2689	C	ALA	60	219.102	150.889	37.545	1.00111.27	CS.
ATOM	2637	NE	ARG	54	203.773	145.483	26.594	1.0099.69	CS3	ATOM	2690	O	ALA	60	219.714	151.761	38.164	1.00111.27	CS.
ATOM	2638	C2	ARG	54	204.128	146.711	26.233	1.0099.69	CS3	ATOM	2691	N	ALA	61	219.104	149.601	37.887	1.00125.01	CS.
ATOM	2639	NH1	ARG	54	203.400	147.756	26.610	1.0099.69	CS3	ATOM	2692	CA	ALA	61	219.843	149.043	39.030	1.00125.01	CS.
ATOM	2640	NH2	ARG	54	205.209	146.895	25.489	1.0099.69	CS3	ATOM	2693	CB	ALA	61	221.257	149.630	39.099	1.00125.01	CS.
ATOM	2641	C	ARG	54	202.221	142.799	30.842	1.0083.90	CS3	ATOM	2694	C	ALA	61	219.151	149.222	40.373	1.00125.01	CS.
ATOM	2642	O	ARG	54	201.818	143.710	31.561	1.0083.90	CS3	ATOM	2695	O	ALA	61	218.733	150.326	40.723	1.00125.01	CS.
ATOM	2643	N	VAL	55	203.385	142.190	31.026	1.0073.81	CS3	ATOM	2696	N	ASP	62	219.036	148.121	41.116	1.00139.71	CS.
ATOM	2644	CA	VAL	55	204.296	142.557	32.100	1.0073.81	CS3	ATOM	2697	CA	ASP	62	218.415	148.115	42.442	1.00139.71	CS.
ATOM	2645	CB	VAL	55	205.009	141.325	32.693	1.0048.25	CS3	ATOM	2698	CB	ASP	62	219.393	148.677	43.477	1.00145.34	CS.
ATOM	2646	CG1	VAL	55	206.160	141.784	33.596	1.0048.25	CS3	ATOM	2699	CG	ASP	62	220.582	147.772	43.707	1.00145.34	CS.
ATOM	2647	CG2	VAL	55	204.026	140.456	33.462	1.0048.25	CS3	ATOM	2700	OD1	ASP	62	220.378	146.660	44.238	1.00145.34	CS.
ATOM	2648	C	VAL	55	205.395	143.461	31.564	1.0073.81	CS3	ATOM	2701	OD2	ASP	62	221.714	148.168	43.356	1.00145.34	CS.
ATOM	2649	O	VAL	55	206.235	143.007	30.796	1.0073.81	CS3	ATOM	2702	C	ASP	62	217.091	148.871	42.557	1.00139.71	CS.
ATOM	2650	N	ASP	56	205.399	144.728	31.961	1.00100.74	CS3	ATOM	2703	O	ASP	62	216.637	149.175	43.665	1.00139.71	CS.
ATOM	2651	CA	ASP	56	206.453	145.643	31.530	1.00100.74	CS3	ATOM	2704	N	ASN	63	216.478	149.199	41.420	1.00166.46	CS.
ATOM	2652	CB	ASP	56	205.904	147.058	31.337	1.0097.90	CS3	ATOM	2705	CA	ASN	63	215.210	149.898	41.406	1.00166.46	CS.
ATOM	2653	CG	ASP	56	205.233	147.240	29.997	1.0097.90	CS3	ATOM	2706	CB	ASN	63	215.455	151.403	41.306	1.00147.83	CS.
ATOM	2654	OD1	ASP	56	204.560	146.288	29.852	1.0097.90	CS3	ATOM	2707	CG	ASN	63	216.149	151.956	42.533	1.00147.83	CS.
ATOM	2655	OD2	ASP	56	205.369	148.331	29.399	1.0097.90	CS3	ATOM	2708	OD1	ASN	63	215.634	151.856	43.649	1.00147.83	CS.
ATOM	2656	C	ASP	56	207.544	145.656	32.596	1.00100.74	CS3	ATOM	2709	ND2	ASN	63	217.327	152.539	42.337	1.00147.83	CS.
ATOM	2657	O	ASP	56	207.258	145.780	33.788	1.00100.74	CS3	ATOM	2710	C	ASN	63	214.372	149.420	40.239	1.00166.46	CS.
ATOM	2658	N	ILE	57	208.795	145.518	32.175	1.0067.76	CS3	ATOM	2711	O	ASN	63	213.894	150.206	39.423	1.00166.46	CS.
ATOM	2659	CA	ILE	57	209.890	145.524	33.129	1.0067.76	CS3	ATOM	2712	N	VAL	64	213.894	150.206	39.423	1.00166.46	CS.
ATOM	2660	CB	ILE	57	210.538	144.138	33.234	1.0053.74	CS3	ATOM	2713	CA	VAL	64	214.211	148.105	40.178	1.00132.35	CS.
ATOM	2661	CG2	ILE	57	211.839	144.228	34.036	1.0053.74	CS3	ATOM	2714	CB	VAL	64	213.441	147.448	39.137	1.00132.35	CS.
ATOM	2662	CG1	ILE	57	211.839	144.228	34.036	1.0053.74	CS3	ATOM	2715	CG1	VAL	64	213.334	145.955	39.445	1.0058.30	CS.
ATOM	2663	CD1	ILE	57	209.542	143.160	33.864	1.0053.74	CS3	ATOM	2716	CG2	VAL	64	212.969	145.187	38.187	1.0058.30	CS.
ATOM	2664	C	ILE	57	210.103	141.755	34.071	1.0053.74	CS3	ATOM	2717	C	VAL	64	214.643	145.462	40.069	1.0058.30	CS.
ATOM	2665	O	ILE	57	210.963	146.547	32.782	1.0067.76	CS3	ATOM	2718	O	VAL	64	212.036	148.049	39.064	1.00132.35	CS.
ATOM	2666	N	GLU	58	211.753	146.332	31.867	1.0067.76	CS3	ATOM	2719	N	ALA	65	211.493	148.487	40.079	1.00132.35	CS.
ATOM	2667	CA	GLU	58	210.984	147.658	33.521	1.0074.85	CS3	ATOM	2720	CA	ALA	65	211.450	148.066	37.668	1.00119.48	CS.
ATOM	2668	CB	GLU	58	211.965	148.714	33.297	1.0074.85	CS3	ATOM	2721	CB	ALA	65	210.111	148.627	37.678	1.00119.48	CS.
ATOM	2668	CB	GLU	58	211.288	150.076	33.380	1.00106.93	CS3	ATOM	2721	CB	ALA	65	210.010	149.314	36.306	1.0064.03	CS.

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ATOM	2722	C	ALA	65	208.993	147.592	37.839	1.00119.48	CS3	ATOM	2775	O	LVS	72	192.301	142.768	38.888	1.00	94.15	CS:	
ATOM	2723	O	ALA	65	208.597	147.277	38.962	1.00119.48	CS3	ATOM	2776	N	PRO	73	192.174	144.890	38.103	1.00	89.33	CS:	
ATOM	2724	N	VAL	66	208.486	147.073	36.721	1.00	99.16	CS3	ATOM	2777	CD	PRO	73	191.474	146.002	37.437	1.00	83.12	CS:
ATOM	2725	CA	VAL	66	207.401	146.086	36.722	1.00	99.16	CS3	ATOM	2778	CA	PRO	73	193.226	145.399	38.991	1.00	89.33	CS:
ATOM	2726	CB	VAL	66	207.493	145.110	37.926	1.00	46.37	CS3	ATOM	2779	CB	PRO	73	193.178	146.911	38.757	1.00	83.12	CS:
ATOM	2727	CG1	VAL	66	206.344	144.096	37.869	1.00	46.37	CS3	ATOM	2780	CG	PRO	73	191.749	147.151	38.375	1.00	83.12	CS:
ATOM	2728	CG2	VAL	66	208.849	144.404	37.925	1.00	46.37	CS3	ATOM	2781	C	PRO	73	192.987	145.017	40.441	1.00	89.33	CS:
ATOM	2729	C	VAL	66	206.042	146.776	36.777	1.00	99.16	CS3	ATOM	2782	O	PRO	73	193.921	144.965	41.246	1.00	89.33	CS:
ATOM	2730	O	VAL	66	205.615	147.243	37.830	1.00	99.16	CS3	ATOM	2783	N	GLY	74	191.726	144.744	40.762	1.00	78.49	CS:
ATOM	2731	N	THR	67	205.362	146.828	35.639	1.00	70.40	CS3	ATOM	2784	CA	GLY	74	191.380	144.355	42.113	1.00	78.49	CS:
ATOM	2732	CB	THR	67	204.051	147.464	35.544	1.00	70.40	CS3	ATOM	2785	C	GLY	74	192.057	143.057	42.509	1.00	78.49	CS:
ATOM	2733	CG	THR	67	204.126	148.722	34.632	1.00	65.62	CS3	ATOM	2786	O	GLY	74	192.881	143.031	43.423	1.00	78.49	CS:
ATOM	2734	OG1	THR	67	205.024	149.673	35.221	1.00	65.62	CS3	ATOM	2787	N	VAL	75	191.724	141.981	41.807	1.00	70.33	CS:
ATOM	2735	CG2	THR	67	202.748	149.364	34.446	1.00	65.62	CS3	ATOM	2788	CA	VAL	75	192.285	140.665	42.093	1.00	70.33	CS:
ATOM	2736	C	THR	67	202.996	146.499	34.999	1.00	70.40	CS3	ATOM	2789	CB	VAL	75	192.021	139.693	40.908	1.00	78.26	CS:
ATOM	2737	O	THR	67	202.501	146.671	33.883	1.00	70.40	CS3	ATOM	2790	CG1	VAL	75	192.170	138.247	41.367	1.00	78.26	CS:
ATOM	2738	N	VAL	68	202.661	145.481	35.787	1.00	62.57	CS3	ATOM	2791	CG2	VAL	75	190.629	139.929	40.338	1.00	78.26	CS:
ATOM	2739	CA	VAL	68	201.659	144.492	35.389	1.00	62.57	CS3	ATOM	2792	C	VAL	75	193.795	140.727	42.385	1.00	70.33	CS:
ATOM	2740	CB	VAL	68	201.332	143.537	36.580	1.00	61.67	CS3	ATOM	2793	O	VAL	75	194.336	139.903	43.138	1.00	70.33	CS:
ATOM	2741	CG1	VAL	68	199.990	142.838	36.365	1.00	61.67	CS3	ATOM	2794	N	VAL	76	194.465	141.713	41.793	1.00	114.20	CS:
ATOM	2742	CG2	VAL	68	202.435	142.495	36.729	1.00	61.67	CS3	ATOM	2795	CA	VAL	76	195.905	141.885	41.978	1.00	114.20	CS:
ATOM	2743	C	VAL	68	200.357	145.145	34.891	1.00	62.57	CS3	ATOM	2796	CB	VAL	76	196.516	142.821	40.888	1.00	111.82	CS:
ATOM	2744	O	VAL	68	199.800	146.011	35.567	1.00	62.57	CS3	ATOM	2797	CG1	VAL	76	197.996	142.500	40.686	1.00	111.82	CS:
ATOM	2745	N	HIS	69	199.890	144.739	33.705	1.00	67.04	CS3	ATOM	2798	CG2	VAL	76	195.753	142.677	39.582	1.00	111.82	CS:
ATOM	2746	CA	HIS	69	198.638	145.254	33.130	1.00	67.04	CS3	ATOM	2799	C	VAL	76	196.193	142.496	43.348	1.00	114.20	CS:
ATOM	2747	CB	HIS	69	198.801	145.558	31.652	1.00	60.55	CS3	ATOM	2800	O	VAL	76	196.834	141.876	44.203	1.00	114.20	CS:
ATOM	2748	CG	HIS	69	199.695	146.720	31.381	1.00	60.55	CS3	ATOM	2801	N	ILE	77	195.707	143.719	43.541	1.00	119.45	CS:
ATOM	2749	CD2	HIS	69	201.045	146.828	31.389	1.00	60.55	CS3	ATOM	2802	CA	ILE	77	195.899	144.461	44.782	1.00	119.45	CS:
ATOM	2750	ND1	HIS	69	199.211	147.971	31.061	1.00	60.55	CS3	ATOM	2803	CB	ILE	77	194.954	145.670	44.843	1.00	59.58	CS:
ATOM	2751	CE1	HIS	69	200.225	148.799	30.881	1.00	60.55	CS3	ATOM	2804	CG2	ILE	77	195.167	146.413	46.153	1.00	59.58	CS:
ATOM	2752	NE2	HIS	69	201.349	148.130	31.074	1.00	60.55	CS3	ATOM	2805	CG1	ILE	77	195.182	146.578	43.626	1.00	59.58	CS:
ATOM	2753	C	HIS	69	197.550	144.206	33.318	1.00	67.04	CS3	ATOM	2806	CD1	ILE	77	196.576	147.168	46.048	1.00	59.58	CS:
ATOM	2754	O	HIS	69	197.737	143.027	32.979	1.00	67.04	CS3	ATOM	2807	C	ILE	77	195.685	143.637	46.048	1.00	119.45	CS:
ATOM	2755	N	VAL	70	196.414	144.639	33.863	1.00	107.53	CS3	ATOM	2808	O	ILE	77	196.604	143.469	46.846	1.00	119.45	CS:
ATOM	2756	CA	VAL	70	195.321	143.718	34.147	1.00	107.53	CS3	ATOM	2809	N	GLY	78	194.465	142.351	47.406	1.00	129.74	CS:
ATOM	2757	CB	VAL	70	195.329	143.331	35.648	1.00	88.34	CS3	ATOM	2810	CA	GLY	78	194.145	143.100	48.318	1.00	129.74	CS:
ATOM	2758	CG1	VAL	70	194.562	142.050	35.857	1.00	88.34	CS3	ATOM	2811	C	GLY	78	193.188	143.100	48.318	1.00	129.74	CS:
ATOM	2759	CG2	VAL	70	196.755	143.192	36.156	1.00	88.34	CS3	ATOM	2812	O	GLY	78	192.744	144.201	47.978	1.00	129.74	CS:
ATOM	2760	C	VAL	70	193.924	144.242	33.910	1.00	107.53	CS3	ATOM	2813	N	ARG	79	192.868	142.508	49.470	1.00	133.67	CS:
ATOM	2761	O	VAL	70	193.716	145.441	33.647	1.00	107.53	CS3	ATOM	2814	CA	ARG	79	191.961	143.125	50.445	1.00	133.67	CS:
ATOM	2762	N	ALA	71	192.972	143.318	33.715	1.00	91.79	CS3	ATOM	2815	CB	ARG	79	191.647	142.131	51.569	1.00	124.29	CS:
ATOM	2763	CA	ALA	71	191.582	143.658	33.439	1.00	91.79	CS3	ATOM	2816	CG	ARG	79	192.887	141.586	52.243	1.00	124.29	CS:
ATOM	2764	CB	ALA	71	190.901	142.510	32.709	1.00	63.52	CS3	ATOM	2817	CD	ARG	79	192.593	140.550	53.303	1.00	124.29	CS:
ATOM	2765	C	ALA	71	190.892	143.912	34.783	1.00	91.79	CS3	ATOM	2818	NE	ARG	79	193.828	140.122	55.055	1.00	124.29	CS:
ATOM	2766	O	ALA	71	190.082	144.833	34.912	1.00	91.79	CS3	ATOM	2819	CZ	ARG	79	193.885	139.375	55.055	1.00	124.29	CS:
ATOM	2767	N	LVS	72	191.233	143.085	35.774	1.00	94.15	CS3	ATOM	2820	NH1	ARG	79	192.767	138.960	55.641	1.00	124.29	CS:
ATOM	2768	CA	LVS	72	190.685	143.180	37.132	1.00	94.15	CS3	ATOM	2821	NH2	ARG	79	195.062	139.049	55.578	1.00	124.29	CS:
ATOM	2769	CB	LVS	72	190.111	141.825	37.570	1.00	78.90	CS3	ATOM	2822	C	ARG	79	192.585	144.398	51.031	1.00	133.67	CS:
ATOM	2770	CG	LVS	72	189.322	141.098	36.492	1.00	78.90	CS3	ATOM	2823	O	ARG	79	193.437	144.341	51.926	1.00	133.67	CS:
ATOM	2771	CD	LVS	72	188.648	139.838	37.024	1.00	78.90	CS3	ATOM	2824	N	GLY	80	192.148	145.546	50.516	1.00	107.67	CS:
ATOM	2772	CE	LVS	72	187.425	140.175	37.870	1.00	78.90	CS3	ATOM	2825	CA	GLY	80	192.674	146.819	50.973	1.00	107.67	CS:
ATOM	2773	NZ	LVS	72	186.567	138.986	38.150	1.00	78.90	CS3	ATOM	2826	C	GLY	80	194.027	147.089	50.343	1.00	107.67	CS:
ATOM	2774	C	LVS	72	191.794	143.596	38.114	1.00	94.15	CS3	ATOM	2827	O	GLY	80	194.382	148.237	50.060	1.00	107.67	CS:

ATOM	2828	N	GLY	81	194.778	146.014	50.118	1.00108.15	CS3	ATOM	2881	CG	LEU	87	201.238	139.166	44.461	1.00	69.20	CS
ATOM	2829	CA	GLY	81	196.096	146.117	49.521	1.00108.15	CS3	ATOM	2882	CD1	LEU	87	200.529	139.758	43.256	1.00	69.20	CS
ATOM	2830	O	GLY	81	197.022	145.078	50.123	1.00108.15	CS3	ATOM	2883	CD2	LEU	87	201.408	137.668	44.296	1.00	69.20	CS
ATOM	2831	O	GLY	81	198.242	145.235	50.080	1.00108.15	CS3	ATOM	2884	C	LEU	87	204.739	140.226	45.874	1.00117.32	CS	
ATOM	2832	N	GLU	82	196.443	144.009	50.672	1.00154.23	CS3	ATOM	2885	O	LEU	87	205.840	139.677	45.814	1.00117.32	CS	
ATOM	2833	CA	GLU	82	197.217	142.943	51.310	1.00154.23	CS3	ATOM	2886	N	ARG	88	204.586	141.545	45.993	1.00	88.84	CS
ATOM	2834	CB	GLU	82	196.307	142.103	52.219	1.00125.16	CS3	ATOM	2887	CA	ARG	88	205.723	142.466	46.037	1.00	88.84	CS
ATOM	2835	CG	GLU	82	195.762	140.817	51.591	1.00125.16	CS3	ATOM	2888	CB	ARG	88	205.259	143.850	46.505	1.00130.32	CS	
ATOM	2836	CD	GLU	82	196.755	139.663	51.621	1.00125.16	CS3	ATOM	2889	CG	ARG	88	206.007	145.023	45.867	1.00130.32	CS	
ATOM	2837	OE1	GLU	82	197.225	139.309	52.724	1.00125.16	CS3	ATOM	2890	CD	ARG	88	205.248	146.338	46.092	1.00130.32	CS	
ATOM	2838	OE2	GLU	82	197.065	139.106	50.544	1.00125.16	CS3	ATOM	2891	NE	ARG	88	205.767	147.447	45.290	1.00130.32	CS	
ATOM	2839	C	GLU	82	197.958	142.020	50.336	1.00154.23	CS3	ATOM	2892	CZ	ARG	88	205.148	148.618	45.144	1.00130.32	CS	
ATOM	2840	O	GLU	82	199.048	141.535	50.654	1.00154.23	CS3	ATOM	2893	NH1	ARG	88	203.985	148.836	45.747	1.00130.32	CS	
ATOM	2841	N	ARG	83	197.375	141.760	49.164	1.00	90.51	ATOM	2894	NH2	ARG	88	205.685	149.572	44.388	1.00130.32	CS	
ATOM	2842	CA	ARG	83	198.028	140.886	48.188	1.00	90.51	ATOM	2895	C	ARG	88	206.824	141.935	46.956	1.00	88.84	CS
ATOM	2843	CB	ARG	83	197.040	140.400	47.128	1.00	94.66	ATOM	2896	O	ARG	88	208.011	142.168	46.721	1.00	88.84	CS
ATOM	2844	CG	ARG	83	197.739	139.632	46.030	1.00	94.66	ATOM	2897	N	GLU	89	206.425	141.219	48.002	1.00121.07	CS	
ATOM	2845	CD	ARG	83	196.790	138.863	45.146	1.00	94.66	ATOM	2898	CA	GLU	89	207.394	140.641	48.922	1.00121.07	CS	
ATOM	2846	NE	ARG	83	197.541	137.878	44.376	1.00	94.66	ATOM	2899	CB	GLU	89	206.742	140.298	50.261	1.00144.83	CS	
ATOM	2847	CZ	ARG	83	197.054	136.713	43.964	1.00	94.66	ATOM	2900	CG	GLU	89	207.705	139.659	51.252	1.00144.83	CS	
ATOM	2848	NH1	ARG	83	195.799	136.375	44.242	1.00	94.66	ATOM	2901	CD	GLU	89	207.054	139.324	52.578	1.00144.83	CS	
ATOM	2849	NH2	ARG	83	197.833	135.874	43.293	1.00	94.66	ATOM	2902	OE1	GLU	89	206.043	138.586	52.579	1.00144.83	CS	
ATOM	2850	C	ARG	83	199.205	141.563	47.499	1.00	90.51	ATOM	2903	OE2	GLU	89	207.556	139.796	53.620	1.00144.83	CS	
ATOM	2851	O	ARG	83	200.258	140.950	47.334	1.00	90.51	ATOM	2904	C	GLU	89	207.950	139.376	53.620	1.00144.83	CS	
ATOM	2852	N	ILE	84	199.024	142.819	47.092	1.00	92.43	ATOM	2905	O	GLU	89	209.161	139.169	48.250	1.00121.07	CS	
ATOM	2853	CA	ILE	84	200.092	143.566	46.435	1.00	92.43	ATOM	2906	N	GLU	90	207.056	138.532	47.762	1.00142.61	CS	
ATOM	2854	CB	ILE	84	199.635	145.009	46.062	1.00	92.35	ATOM	2907	CA	GLU	90	207.454	137.291	47.096	1.00142.61	CS	
ATOM	2855	CG2	ILE	84	198.892	145.639	47.231	1.00	92.35	ATOM	2908	CB	GLU	90	206.240	136.631	46.428	1.00135.46	CS	
ATOM	2856	CG1	ILE	84	200.844	145.844	45.613	1.00	92.35	ATOM	2909	CG	GLU	90	205.901	135.218	46.922	1.00135.46	CS	
ATOM	2857	CD1	ILE	84	200.517	147.266	45.218	1.00	92.35	ATOM	2910	CD	GLU	90	207.049	134.220	46.757	1.00135.46	CS	
ATOM	2858	C	ILE	84	201.274	143.612	47.398	1.00	92.43	ATOM	2911	OE1	GLU	90	206.802	133.001	46.902	1.00135.46	CS	
ATOM	2859	O	ILE	84	202.380	144.032	47.050	1.00	92.43	ATOM	2912	OE2	GLU	90	208.196	134.647	46.490	1.00135.46	CS	
ATOM	2860	N	ARG	85	201.016	143.164	48.620	1.00111.96	CS3	ATOM	2913	C	GLU	90	208.489	137.642	46.033	1.00142.61	CS	
ATOM	2861	CA	ARG	85	202.027	143.094	49.663	1.00111.96	CS3	ATOM	2914	O	GLU	90	209.404	136.870	45.747	1.00142.61	CS	
ATOM	2862	CB	ARG	85	201.357	143.212	51.042	1.00130.18	CS3	ATOM	2915	N	LEU	91	208.321	138.827	45.457	1.00	99.69	CS
ATOM	2863	CG	ARG	85	202.298	143.092	52.227	1.00130.18	CS3	ATOM	2916	CA	LEU	91	209.209	139.343	44.430	1.00	99.69	CS
ATOM	2864	CD	ARG	85	203.329	144.196	52.191	1.00130.18	CS3	ATOM	2917	CB	LEU	91	208.703	140.717	43.977	1.00	87.33	CS
ATOM	2865	NE	ARG	85	204.518	143.848	52.958	1.00130.18	CS3	ATOM	2918	CG	LEU	91	209.654	141.839	43.538	1.00	87.33	CS
ATOM	2866	CZ	ARG	85	205.664	144.520	52.896	1.00130.18	CS3	ATOM	2919	CD1	LEU	91	208.854	142.848	42.726	1.00	87.33	CS
ATOM	2867	NH1	ARG	85	205.772	145.578	52.102	1.00130.18	CS3	ATOM	2920	CD2	LEU	91	210.307	142.521	44.747	1.00	87.33	CS
ATOM	2868	NH2	ARG	85	206.706	144.130	53.622	1.00130.18	CS3	ATOM	2921	C	LEU	91	210.657	139.436	44.908	1.00	99.69	CS
ATOM	2869	C	ARG	85	202.698	141.725	49.514	1.00111.96	CS3	ATOM	2922	O	LEU	91	211.570	138.943	44.240	1.00	99.69	CS
ATOM	2870	O	ARG	85	203.913	141.624	49.328	1.00111.96	CS3	ATOM	2923	N	ALA	92	210.865	140.069	46.061	1.00	96.51	CS
ATOM	2871	N	VAL	86	201.881	140.677	49.581	1.00111.73	CS3	ATOM	2924	CA	ALA	92	212.208	140.222	46.612	1.00	96.51	CS
ATOM	2872	CA	VAL	86	202.354	139.305	49.458	1.00111.73	CS3	ATOM	2925	CB	ALA	92	212.179	141.144	47.812	1.00	96.51	CS
ATOM	2873	CB	VAL	86	201.172	138.320	49.327	1.00	89.56	ATOM	2926	C	ALA	92	212.804	138.871	47.000	1.00	96.51	CS
ATOM	2874	CG1	VAL	86	201.658	136.895	49.551	1.00	89.56	ATOM	2927	O	ALA	92	214.022	138.702	47.009	1.00	96.51	CS
ATOM	2875	CG2	VAL	86	200.074	138.685	50.312	1.00	89.56	ATOM	2928	N	LYS	93	211.942	137.913	47.331	1.00153.68	CS	
ATOM	2876	C	VAL	86	203.247	139.139	48.235	1.00111.73	CS3	ATOM	2929	CA	LYS	93	212.390	136.570	47.689	1.00153.68	CS	
ATOM	2877	O	VAL	86	204.385	138.682	48.344	1.00111.73	CS3	ATOM	2930	CB	LYS	93	211.220	135.744	48.236	1.00112.94	CS	
ATOM	2878	N	LEU	87	202.721	139.512	47.072	1.00117.32	CS3	ATOM	2931	CG	LYS	93	210.936	135.937	49.715	1.00112.94	CS	
ATOM	2879	CA	LEU	87	203.464	139.395	45.825	1.00117.32	CS3	ATOM	2932	CD	LYS	93	212.068	135.364	50.568	1.00112.94	CS	
ATOM	2880	CB	LEU	87	202.602	139.843	44.636	1.00	69.20	CS3	ATOM	2933	CE	LYS	93	211.761	135.461	52.061	1.00112.94	CS

ATOM	2934	NZ	LVS	93	212.856	134.899	52.907	1.00112.94	CS3	ATOM	2987	CB	LEU	101	204.777	145.772	42.082	1.00	90.62	CS:	
ATOM	2935	C	LVS	93	212.929	135.917	46.420	1.00153.68	CS3	ATOM	2988	CG	LEU	101	204.307	144.375	41.649	1.00	90.62	CS:	
ATOM	2936	N	LVS	93	213.432	134.792	46.443	1.00153.68	CS3	ATOM	2989	CD1	LEU	101	203.973	143.531	42.881	1.00	90.62	CS:	
ATOM	2937	N	LEU	94	212.816	136.648	45.315	1.00	99.05	CS3	ATOM	2990	CD2	LEU	101	203.094	144.496	40.740	1.00	90.62	CS:
ATOM	2938	CA	LEU	94	213.263	136.179	44.009	1.00	99.05	CS3	ATOM	2991	C	LEU	101	203.823	147.735	40.865	1.00	79.37	CS:
ATOM	2939	CB	LEU	94	212.084	136.254	43.031	1.00	76.36	CS3	ATOM	2992	O	LEU	101	203.246	148.129	41.873	1.00	79.37	CS:
ATOM	2940	CG	LEU	94	212.129	135.583	41.658	1.00	76.36	CS3	ATOM	2993	N	ASN	102	203.432	148.065	39.638	1.00	87.32	CS:
ATOM	2941	CD1	LEU	94	210.713	135.506	41.093	1.00	76.36	CS3	ATOM	2994	CA	ASN	102	202.311	148.978	39.424	1.00	87.32	CS:
ATOM	2942	CD2	LEU	94	213.045	136.353	40.723	1.00	76.36	CS3	ATOM	2995	CB	ASN	102	202.818	150.261	38.762	1.00	96.62	CS:
ATOM	2943	C	LEU	94	214.426	137.053	43.537	1.00	99.05	CS3	ATOM	2996	CG	ASN	102	203.974	150.887	39.509	1.00	96.62	CS:
ATOM	2944	N	LEU	94	215.469	136.551	43.123	1.00	99.05	CS3	ATOM	2997	OD1	ASN	102	203.772	151.659	40.453	1.00	96.62	CS:
ATOM	2945	N	THR	95	214.242	138.366	43.616	1.00146.75	CS3	ATOM	2998	ND2	ASN	102	205.199	150.546	39.101	1.00	96.62	CS:	
ATOM	2946	CA	THR	95	215.280	139.303	43.209	1.00146.75	CS3	ATOM	2999	C	ASN	102	201.154	148.451	38.585	1.00	87.32	CS:	
ATOM	2947	CB	THR	95	214.808	140.188	42.024	1.00	86.41	CS3	ATOM	3000	O	ASN	102	201.189	148.558	37.360	1.00	87.32	CS:
ATOM	2948	OG1	THR	95	214.288	141.436	42.513	1.00	86.41	CS3	ATOM	3001	N	VAL	103	200.122	147.909	39.231	1.00	82.81	CS:
ATOM	2949	CG2	THR	95	213.713	139.477	41.240	1.00	86.41	CS3	ATOM	3002	CA	VAL	103	198.946	147.417	38.507	1.00	82.81	CS:
ATOM	2950	C	THR	95	215.623	140.211	44.386	1.00146.75	CS3	ATOM	3003	CB	VAL	103	197.875	146.856	39.475	1.00	64.40	CS:	
ATOM	2951	O	THR	95	214.770	140.974	44.848	1.00146.75	CS3	ATOM	3004	CG1	VAL	103	196.625	146.466	38.703	1.00	64.40	CS:	
ATOM	2952	N	GLY	96	216.853	140.120	44.891	1.00109.28	CS3	ATOM	3005	CG2	VAL	103	198.425	145.652	40.218	1.00	64.40	CS:	
ATOM	2953	CA	GLY	96	217.230	140.989	45.991	1.00109.28	CS3	ATOM	3006	C	VAL	103	198.323	148.566	37.699	1.00	82.81	CS:	
ATOM	2954	C	GLY	96	216.890	142.382	45.497	1.00109.28	CS3	ATOM	3007	O	VAL	103	198.090	149.655	38.225	1.00	82.81	CS:	
ATOM	2955	O	GLY	96	216.189	143.153	46.157	1.00109.28	CS3	ATOM	3008	N	GLN	104	198.075	148.332	36.415	1.00	92.46	CS:	
ATOM	2956	N	LVS	97	217.386	142.667	44.297	1.00124.60	CS3	ATOM	3009	CA	GLN	104	197.486	149.363	35.578	1.00	92.46	CS:	
ATOM	2957	CA	LVS	97	217.194	143.916	43.564	1.00124.60	CS3	ATOM	3010	CB	GLN	104	198.526	149.933	34.618	1.00	95.88	CS:	
ATOM	2958	CB	LVS	97	216.548	143.576	42.218	1.00	91.99	CS3	ATOM	3011	CG	GLN	104	198.120	151.281	34.056	1.00	95.88	CS:
ATOM	2959	CD	LVS	97	217.389	142.649	40.778	1.00	91.99	CS3	ATOM	3012	CD	GLN	104	199.100	151.830	33.032	1.00	95.88	CS:
ATOM	2960	CE	LVS	97	218.603	143.377	40.778	1.00	91.99	CS3	ATOM	3013	OE1	GLN	104	200.315	151.831	33.247	1.00	95.88	CS:
ATOM	2961	CE	LVS	97	219.313	142.549	39.715	1.00	91.99	CS3	ATOM	3014	NE2	GLN	104	198.569	152.314	31.913	1.00	95.88	CS:
ATOM	2962	NZ	LVS	97	220.352	143.342	39.000	1.00	91.99	CS3	ATOM	3015	C	GLN	104	196.333	148.755	34.797	1.00	92.46	CS:
ATOM	2963	C	LVS	97	216.455	145.122	44.177	1.00124.60	CS3	ATOM	3016	O	GLN	104	196.545	148.080	33.793	1.00	92.46	CS:	
ATOM	2964	O	LVS	97	216.962	146.242	44.097	1.00124.60	CS3	ATOM	3017	N	GLU	105	195.114	149.404	35.273	1.00	109.33	CS:	
ATOM	2965	N	ASN	98	215.276	144.902	44.767	1.00	99.07	CS3	ATOM	3018	CA	GLU	105	193.891	148.482	34.667	1.00	109.33	CS:
ATOM	2966	CA	ASN	98	214.447	145.980	45.347	1.00	99.07	CS3	ATOM	3019	CB	GLU	105	192.664	149.176	35.270	1.00	112.74	CS:
ATOM	2967	CB	ASN	98	215.318	147.076	45.990	1.00138.72	CS3	ATOM	3020	CG	GLU	105	191.349	148.442	35.005	1.00	112.74	CS:	
ATOM	2968	CG	ASN	98	214.512	148.304	46.416	1.00138.72	CS3	ATOM	3021	CD	GLU	105	189.952	150.178	34.133	1.00	112.74	CS:	
ATOM	2969	OD1	ASN	98	214.057	149.093	45.581	1.00138.72	CS3	ATOM	3022	OE1	GLU	105	189.337	149.241	36.025	1.00	112.74	CS:	
ATOM	2970	ND2	ASN	98	214.332	148.465	47.723	1.00138.72	CS3	ATOM	3023	OE2	GLU	105	193.829	148.599	33.144	1.00	109.33	CS:	
ATOM	2971	C	ASN	98	213.618	146.563	44.199	1.00	99.07	CS3	ATOM	3024	C	GLU	105	193.346	147.525	32.559	1.00	89.54	CS:
ATOM	2972	O	ASN	98	214.100	147.408	43.435	1.00	99.07	CS3	ATOM	3025	O	GLU	105	194.197	149.625	32.552	1.00	109.33	CS:
ATOM	2973	N	VAL	99	212.366	146.129	44.083	1.00122.79	CS3	ATOM	3026	N	VAL	106	193.346	147.525	32.552	1.00	89.54	CS:	
ATOM	2974	CA	VAL	99	211.539	146.576	42.968	1.00122.79	CS3	ATOM	3027	CA	VAL	106	193.189	147.431	31.075	1.00	89.54	CS:	
ATOM	2975	CB	VAL	99	211.551	145.466	41.864	1.00117.04	CS3	ATOM	3028	CB	VAL	106	193.313	145.956	30.585	1.00	101.83	CS:	
ATOM	2976	CG1	VAL	99	211.819	144.108	42.501	1.00117.04	CS3	ATOM	3029	CG1	VAL	106	193.049	145.879	29.091	1.00	101.83	CS:	
ATOM	2977	CG2	VAL	99	210.245	145.440	41.089	1.00117.04	CS3	ATOM	3030	CG2	VAL	106	194.697	145.408	30.895	1.00	101.83	CS:	
ATOM	2978	C	VAL	99	210.100	147.028	43.232	1.00122.79	CS3	ATOM	3031	C	VAL	106	191.807	147.957	30.691	1.00	89.54	CS:	
ATOM	2979	O	VAL	99	209.468	146.627	44.214	1.00122.79	CS3	ATOM	3032	O	VAL	106	190.783	147.347	31.012	1.00	89.54	CS:	
ATOM	2980	N	ALA	100	209.605	147.873	42.324	1.00130.31	CS3	ATOM	3033	N	GLN	107	191.789	149.100	30.016	1.00	119.41	CS:	
ATOM	2981	CA	ALA	100	208.247	148.413	42.368	1.00130.31	CS3	ATOM	3034	CA	GLN	107	190.547	149.722	29.574	1.00	119.41	CS:	
ATOM	2982	CB	ALA	100	208.115	149.582	41.367	1.00	52.66	CS3	ATOM	3035	CB	GLN	107	190.800	151.186	29.213	1.00	126.67	CS:
ATOM	2983	C	ALA	100	207.211	147.324	42.047	1.00130.31	CS3	ATOM	3036	CG	GLN	107	192.275	151.542	29.118	1.00	126.67	CS:	
ATOM	2984	O	ALA	100	207.396	146.157	42.402	1.00130.31	CS3	ATOM	3037	CD	GLN	107	193.051	150.568	28.252	1.00	126.67	CS:	
ATOM	2985	N	LEU	101	206.133	147.720	41.371	1.00	79.37	CS3	ATOM	3038	OE1	GLN	107	192.703	150.338	27.094	1.00	126.67	CS:
ATOM	2986	CA	LEU	101	205.038	146.822	40.989	1.00	79.37	CS3	ATOM	3039	NE2	GLN	107	194.107	149.985	28.814	1.00	126.67	CS:

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ATOM	3040	C	GLN	107	189.980	148.972	28.372	1.00119.41	CS3	ATOM	3093	CB	LEU	115	192.421	139.740	27.216	1.00	76.67	CS	
ATOM	3041	O	GLN	107	190.318	149.264	27.221	1.00119.41	CS3	ATOM	3094	CG	LEU	115	193.356	140.425	28.222	1.00	76.67	CS	
ATOM	3042	ASN	108	189.114	148.005	28.671	1.00	86.02	CS3	ATOM	3095	CD1	LEU	115	192.774	141.749	28.665	1.00	76.67	CS	
ATOM	3043	CA	ASN	108	188.450	147.147	27.686	1.00	86.02	CS3	ATOM	3096	CD2	LEU	115	193.565	139.506	29.424	1.00	76.67	CS
ATOM	3044	CB	ASN	108	188.049	147.932	26.425	1.00	75.75	CS3	ATOM	3097	C	LEU	115	192.005	137.627	25.894	1.00	61.24	CS
ATOM	3045	CG	ASN	108	187.070	147.160	25.548	1.00	75.75	CS3	ATOM	3098	O	LEU	115	191.676	136.483	26.245	1.00	61.24	CS
ATOM	3046	OD1	ASN	108	186.361	146.264	26.022	1.00	75.75	CS3	ATOM	3099	N	VAL	116	191.537	138.222	24.795	1.00	36.12	CS
ATOM	3047	ND2	ASN	108	187.012	147.515	24.271	1.00	75.75	CS3	ATOM	3100	CA	VAL	116	190.578	137.550	23.919	1.00	36.12	CS
ATOM	3048	C	ASN	108	189.306	145.949	27.300	1.00	86.02	CS3	ATOM	3101	CB	VAL	116	190.488	138.241	22.544	1.00	49.83	CS
ATOM	3049	O	ASN	108	190.061	145.989	26.333	1.00	86.02	CS3	ATOM	3102	CG1	VAL	116	189.106	137.998	21.941	1.00	49.83	CS
ATOM	3050	PRO	109	189.195	144.859	28.067	1.00	97.41	CS3	ATOM	3103	CG2	VAL	116	190.781	139.735	22.676	1.00	49.83	CS	
ATOM	3051	CD	PRO	109	188.203	144.626	29.132	1.00	89.55	CS3	ATOM	3104	C	VAL	116	191.016	136.096	23.701	1.00	36.12	CS
ATOM	3052	CA	PRO	109	189.964	143.642	27.794	1.00	97.41	CS3	ATOM	3105	O	VAL	116	190.189	135.192	23.589	1.00	36.12	CS
ATOM	3053	CB	PRO	109	189.577	142.728	28.959	1.00	89.55	CS3	ATOM	3106	N	ALA	117	192.332	135.894	23.655	1.00	53.90	CS
ATOM	3054	CG	PRO	109	188.145	143.110	29.197	1.00	89.55	CS3	ATOM	3107	CA	ALA	117	192.929	134.576	23.464	1.00	53.90	CS
ATOM	3055	C	PRO	109	189.515	143.084	26.446	1.00	97.41	CS3	ATOM	3108	CB	ALA	117	194.448	134.704	23.332	1.00	53.90	CS
ATOM	3056	O	PRO	109	190.161	142.218	25.850	1.00	97.41	CS3	ATOM	3109	C	ALA	117	192.592	133.672	24.631	1.00	53.90	CS
ATOM	3057	N	ASN	110	188.390	143.614	25.981	1.00	94.54	CS3	ATOM	3110	O	ALA	117	191.869	132.682	24.471	1.00	53.90	CS
ATOM	3058	CA	ASN	110	187.783	143.210	24.727	1.00	94.54	CS3	ATOM	3111	N	GLN	118	193.142	134.022	25.796	1.00	65.10	CS
ATOM	3059	CB	ASN	110	186.356	143.753	24.666	1.00113.40	CS3	ATOM	3112	CA	GLN	118	192.928	133.277	27.038	1.00	65.10	CS	
ATOM	3060	CG	ASN	110	185.417	142.824	23.946	1.00113.40	CS3	ATOM	3113	CB	GLN	118	193.455	134.082	28.227	1.00	93.27	CS	
ATOM	3061	OD1	ASN	110	185.432	141.611	24.177	1.00113.40	CS3	ATOM	3114	CG	GLN	118	194.917	134.478	28.121	1.00	93.27	CS	
ATOM	3062	ND2	ASN	110	184.581	143.383	23.075	1.00113.40	CS3	ATOM	3115	CD	GLN	118	195.238	135.708	28.947	1.00	93.27	CS	
ATOM	3063	C	ASN	110	188.595	143.686	23.527	1.00	94.54	CS3	ATOM	3116	OE1	GLN	118	196.052	135.534	29.979	1.00	93.27	CS
ATOM	3064	O	ASN	110	188.160	143.569	22.386	1.00	94.54	CS3	ATOM	3117	NE2	GLN	118	191.429	133.073	27.190	1.00	65.10	CS
ATOM	3065	N	LEU	111	189.773	144.235	23.794	1.00	84.13	CS3	ATOM	3118	O	GLN	118	190.960	132.010	27.619	1.00	65.10	CS
ATOM	3066	CA	LEU	111	190.657	144.696	22.731	1.00	84.13	CS3	ATOM	3119	N	ARG	119	190.697	134.126	26.830	1.00	71.59	CS
ATOM	3067	CB	LEU	111	190.589	146.222	22.564	1.00	48.27	CS3	ATOM	3120	N	ARG	119	189.246	134.146	26.871	1.00	71.59	CS
ATOM	3068	CG	LEU	111	189.285	146.871	22.085	1.00	48.27	CS3	ATOM	3121	CA	ARG	119	188.756	135.425	26.194	1.00102.97	CS	
ATOM	3069	CD1	LEU	111	189.609	148.245	21.476	1.00	48.27	CS3	ATOM	3122	CB	ARG	119	187.268	135.493	25.930	1.00102.97	CS	
ATOM	3070	CD2	LEU	111	188.594	145.996	21.043	1.00	48.27	CS3	ATOM	3123	CD	ARG	119	186.460	135.593	27.218	1.00102.97	CS	
ATOM	3071	C	LEU	111	192.098	144.273	23.022	1.00	84.13	CS3	ATOM	3124	CG	ARG	119	185.029	135.624	26.931	1.00102.97	CS	
ATOM	3072	O	LEU	111	193.046	144.855	22.490	1.00	84.13	CS3	ATOM	3125	NE	ARG	119	184.073	135.583	27.851	1.00102.97	CS	
ATOM	3073	N	SER	112	192.252	143.266	23.880	1.00	78.09	CS3	ATOM	3126	CZ	ARG	119	184.802	135.512	29.139	1.00102.97	CS	
ATOM	3074	CA	SER	112	193.568	142.746	24.235	1.00	78.09	CS3	ATOM	3127	NH1	ARG	119	188.706	132.917	26.137	1.00102.97	CS	
ATOM	3075	CB	SER	112	193.743	142.669	25.748	1.00119.80	CS3	ATOM	3128	NH2	ARG	119	187.907	132.148	26.689	1.00	71.59	CS	
ATOM	3076	CG	SER	112	193.747	143.956	26.321	1.00119.80	CS3	ATOM	3129	C	ARG	119	188.706	132.917	26.137	1.00	71.59	CS	
ATOM	3077	C	SER	112	193.716	141.355	23.661	1.00	78.09	CS3	ATOM	3130	O	ARG	119	187.907	132.148	26.689	1.00	71.59	CS
ATOM	3078	O	SER	112	193.232	140.379	24.1245	1.00	78.09	CS3	ATOM	3131	N	VAL	120	189.163	132.733	24.897	1.00	55.99	CS
ATOM	3079	N	ALA	113	194.390	141.273	22.518	1.00	52.75	CS3	ATOM	3132	CA	VAL	120	188.729	131.612	24.067	1.00	55.99	CS
ATOM	3080	CA	ALA	113	194.606	140.001	21.850	1.00	52.75	CS3	ATOM	3133	CB	VAL	120	189.088	131.845	22.588	1.00	45.31	CS
ATOM	3081	CB	ALA	113	195.755	140.129	20.847	1.00	81.91	CS3	ATOM	3134	CG1	VAL	120	188.596	130.668	21.750	1.00	45.31	CS
ATOM	3082	C	ALA	113	194.906	138.886	22.854	1.00	52.75	CS3	ATOM	3135	CG2	VAL	120	188.460	133.150	22.094	1.00	45.31	CS
ATOM	3083	O	ALA	113	194.287	137.816	22.822	1.00	52.75	CS3	ATOM	3136	C	VAL	120	189.320	130.279	24.518	1.00	55.99	CS
ATOM	3084	N	PRO	114	195.850	139.135	23.773	1.00	45.31	CS3	ATOM	3137	O	VAL	120	188.630	129.253	24.539	1.00	55.99	CS
ATOM	3085	CD	PRO	114	196.637	140.369	23.954	1.00	41.95	CS3	ATOM	3138	N	ALA	121	190.601	130.294	24.869	1.00	60.33	CS
ATOM	3086	CA	PRO	114	197.212	138.123	24.774	1.00	45.31	CS3	ATOM	3139	CA	ALA	121	191.264	129.086	25.340	1.00	60.33	CS
ATOM	3087	CB	PRO	114	197.249	138.842	25.632	1.00	41.95	CS3	ATOM	3140	CB	ALA	121	192.654	129.419	25.823	1.00	27.90	CS
ATOM	3088	CG	PRO	114	197.847	139.854	24.666	1.00	41.95	CS3	ATOM	3141	C	ALA	121	190.428	128.540	26.489	1.00	60.33	CS
ATOM	3089	C	PRO	114	195.002	137.695	25.577	1.00	45.31	CS3	ATOM	3142	O	ALA	121	190.175	127.337	26.577	1.00	60.33	CS
ATOM	3090	O	PRO	114	194.794	136.512	25.850	1.00	45.31	CS3	ATOM	3143	N	GLU	122	189.997	129.452	27.359	1.00	85.14	CS
ATOM	3091	N	LEU	115	194.199	138.680	25.946	1.00	61.24	CS3	ATOM	3144	CA	GLU	122	189.167	129.120	28.515	1.00	85.14	CS
ATOM	3092	CA	LEU	115	193.009	138.417	26.722	1.00	61.24	CS3	ATOM	3145	CB	GLU	122	188.719	130.396	29.222	1.00162.69	CS	

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ATOM	3146	CG	GLU	122	189.733	131.012	30.155	1.00162.69	CS3	ATOM	3199	O	ARG	127	181.809	122.668	25.771	1.00	67.80	CS	
ATOM	3147	CD	GLU	122	189.324	132.408	30.583	1.00162.69	CS3	ATOM	3200	N	PHE	128	183.276	124.240	25.128	1.00	77.72	CS	
ATOM	3148	OE1	GLU	122	188.101	132.663	30.679	1.00162.69	CS3	ATOM	3201	CA	PHE	128	182.295	125.029	24.395	1.00	77.72	CS	
ATOM	3149	OE2	GLU	122	190.224	133.244	30.828	1.00162.69	CS3	ATOM	3202	CB	PHE	128	182.469	126.517	24.704	1.00103.74	CS		
ATOM	3150	C	GLU	122	187.922	128.346	28.102	1.00	85.14	CS3	ATOM	3203	CG	PHE	128	181.911	126.932	26.029	1.00103.74	CS	
ATOM	3151	O	GLU	122	187.761	127.166	28.442	1.00	85.14	CS3	ATOM	3204	CD1	PHE	128	182.092	126.138	27.158	1.00103.74	CS	
ATOM	3152	N	GLN	123	187.041	129.032	27.373	1.00	56.81	CS3	ATOM	3205	CD2	PHE	128	181.224	128.134	26.157	1.00103.74	CS	
ATOM	3153	CA	GLN	123	185.797	128.430	26.920	1.00	56.81	CS3	ATOM	3206	CE1	PHE	128	181.595	126.537	28.399	1.00103.74	CS	
ATOM	3154	CB	GLN	123	185.137	129.303	25.849	1.00	59.97	CS3	ATOM	3207	CE2	PHE	128	180.724	128.542	27.393	1.00103.74	CS	
ATOM	3155	CG	GLN	123	184.718	130.679	26.340	1.00	59.97	CS3	ATOM	3208	C2	PHE	128	180.910	127.742	28.516	1.00103.74	CS	
ATOM	3156	OE1	GLN	123	183.746	131.372	25.387	1.00	59.97	CS3	ATOM	3209	C	PHE	128	182.458	124.817	22.893	1.00103.74	CS	
ATOM	3157	OE1	GLN	123	182.626	130.888	25.156	1.00	59.97	CS3	ATOM	3210	O	PHE	128	183.540	124.460	22.417	1.00	77.72	CS
ATOM	3158	NE2	GLN	123	184.169	132.510	24.823	1.00	59.97	CS3	ATOM	3211	N	ALA	129	181.377	125.035	22.150	1.00	83.50	CS
ATOM	3159	C	GLN	123	186.060	127.034	26.376	1.00	56.81	CS3	ATOM	3212	CA	ALA	129	181.423	124.898	20.703	1.00	83.50	CS
ATOM	3160	O	GLN	123	185.305	126.095	26.655	1.00	56.81	CS3	ATOM	3213	CB	ALA	129	180.069	125.257	20.092	1.00111.33	CS	
ATOM	3161	N	ILE	124	187.151	126.899	25.627	1.00	60.09	CS3	ATOM	3214	C	ALA	129	182.498	125.874	20.235	1.00	83.50	CS
ATOM	3162	CA	ILE	124	187.514	125.622	25.029	1.00	60.09	CS3	ATOM	3215	O	ALA	129	182.325	127.100	19.304	1.00	83.50	CS
ATOM	3163	CB	ILE	124	188.714	125.799	24.079	1.00	68.70	CS3	ATOM	3216	N	VAL	130	183.613	125.322	19.770	1.00	50.32	CS
ATOM	3164	CG2	ILE	124	189.086	124.467	23.442	1.00	68.70	CS3	ATOM	3217	CA	VAL	130	184.737	126.129	19.316	1.00	50.32	CS
ATOM	3165	CG1	ILE	124	188.348	126.813	22.992	1.00	68.70	CS3	ATOM	3218	CB	VAL	130	185.800	125.243	18.688	1.00	37.22	CS
ATOM	3166	CD1	ILE	124	189.478	127.136	22.035	1.00	68.70	CS3	ATOM	3219	CG1	VAL	130	187.127	125.981	18.665	1.00	37.22	CS
ATOM	3167	C	ILE	124	187.840	124.567	26.088	1.00	60.09	CS3	ATOM	3220	CG2	VAL	130	185.882	123.911	19.465	1.00	37.22	CS
ATOM	3168	O	ILE	124	187.460	123.388	25.964	1.00	60.09	CS3	ATOM	3221	C	VAL	130	184.359	127.221	18.325	1.00	50.32	CS
ATOM	3169	N	GLU	125	188.536	124.997	27.136	1.00	82.45	CS3	ATOM	3222	O	VAL	130	184.519	128.405	18.613	1.00	50.32	CS
ATOM	3170	CA	GLU	125	188.910	124.091	28.207	1.00	82.45	CS3	ATOM	3223	N	ARG	131	183.850	126.823	17.164	1.00	72.35	CS
ATOM	3171	CB	GLU	125	189.822	124.801	29.196	1.00	96.15	CS3	ATOM	3224	CA	ARG	131	183.464	127.789	16.143	1.00	72.35	CS
ATOM	3172	CG	GLU	125	191.027	125.421	28.541	1.00	96.15	CS3	ATOM	3225	CB	ARG	131	182.684	127.096	15.023	1.00116.12	CS	
ATOM	3173	CD	GLU	125	192.261	125.307	29.396	1.00	96.15	CS3	ATOM	3226	CG	ARG	131	182.610	127.897	13.730	1.00116.12	CS	
ATOM	3174	OE1	GLU	125	192.257	125.835	30.529	1.00	96.15	CS3	ATOM	3227	CD	ARG	131	182.094	127.897	13.730	1.00116.12	CS	
ATOM	3175	OE2	GLU	125	193.238	124.682	28.939	1.00	96.15	CS3	ATOM	3228	NE	ARG	131	182.695	125.824	12.450	1.00116.12	CS	
ATOM	3176	C	GLU	125	187.655	123.610	28.905	1.00	82.45	CS3	ATOM	3229	C2	ARG	131	182.626	124.840	11.594	1.00116.12	CS	
ATOM	3177	O	GLU	125	187.591	122.473	29.380	1.00	82.45	CS3	ATOM	3230	NH1	ARG	131	181.565	124.916	10.796	1.00116.12	CS	
ATOM	3178	N	ARG	126	186.652	124.483	28.949	1.00	86.79	CS3	ATOM	3231	NH2	ARG	131	183.419	123.775	11.537	1.00116.12	CS	
ATOM	3179	CA	ARG	126	185.383	124.162	29.588	1.00	86.79	CS3	ATOM	3232	C	ARG	131	182.616	128.890	16.771	1.00	72.35	CS
ATOM	3180	CB	ARG	126	184.663	125.442	29.988	1.00103.48	CS3	ATOM	3233	O	ARG	131	182.770	130.074	16.451	1.00	72.35	CS	
ATOM	3181	CG	ARG	126	185.336	126.183	31.113	1.00103.48	CS3	ATOM	3234	N	ARG	132	181.725	128.487	17.676	1.00	80.03	CS	
ATOM	3182	CD	ARG	126	184.630	127.488	31.366	1.00103.48	CS3	ATOM	3235	CA	ARG	132	180.848	129.424	18.380	1.00	80.03	CS	
ATOM	3183	NE	ARG	126	185.323	128.277	32.373	1.00103.48	CS3	ATOM	3236	CB	ARG	132	179.895	128.655	19.295	1.00137.60	CS		
ATOM	3184	C2	ARG	126	185.056	129.554	32.622	1.00103.48	CS3	ATOM	3237	CG	ARG	132	178.315	128.698	21.232	1.00137.60	CS		
ATOM	3185	NH1	ARG	126	184.108	130.177	31.930	1.00103.48	CS3	ATOM	3238	CD	ARG	132	177.266	127.845	20.674	1.00137.60	CS		
ATOM	3186	NH2	ARG	126	185.737	130.209	33.555	1.00103.48	CS3	ATOM	3239	NE	ARG	132	177.266	127.845	20.674	1.00137.60	CS		
ATOM	3187	C	ARG	126	184.471	123.314	28.709	1.00	86.79	CS3	ATOM	3240	C2	ARG	132	176.066	128.284	20.298	1.00137.60	CS	
ATOM	3188	O	ARG	126	184.460	122.795	29.185	1.00	86.79	CS3	ATOM	3241	NH1	ARG	132	175.754	129.570	20.419	1.00137.60	CS	
ATOM	3189	N	ARG	127	184.835	123.181	27.434	1.00	67.80	CS3	ATOM	3242	NH2	ARG	132	175.174	127.435	19.802	1.00137.60	CS	
ATOM	3190	CA	ARG	127	184.085	122.383	26.462	1.00	67.80	CS3	ATOM	3243	C	ARG	132	181.679	130.397	19.213	1.00	80.03	CS
ATOM	3191	CB	ARG	127	183.531	121.125	27.123	1.00	68.88	CS3	ATOM	3244	O	ARG	132	181.662	131.611	18.979	1.00	80.03	CS
ATOM	3192	CG	ARG	127	184.549	120.423	27.963	1.00	68.88	CS3	ATOM	3245	N	ALA	133	182.406	129.844	20.182	1.00	62.99	CS
ATOM	3193	CD	ARG	127	183.995	119.188	28.618	1.00	68.88	CS3	ATOM	3246	CA	ALA	133	183.254	130.630	21.066	1.00	62.99	CS
ATOM	3194	NE	ARG	127	184.948	118.687	29.601	1.00	68.88	CS3	ATOM	3247	CB	ALA	133	184.139	129.708	21.869	1.00	47.28	CS
ATOM	3195	C2	ARG	127	184.919	117.465	30.120	1.00	68.88	CS3	ATOM	3248	C	ALA	133	184.109	131.611	20.271	1.00	62.99	CS
ATOM	3196	NH1	ARG	127	183.972	116.614	29.745	1.00	68.88	CS3	ATOM	3249	O	ALA	133	184.395	132.725	20.720	1.00	62.99	CS
ATOM	3197	NH2	ARG	127	185.841	117.092	31.004	1.00	68.88	CS3	ATOM	3250	N	ILE	134	184.510	131.179	19.082	1.00	54.66	CS
ATOM	3198	C	ARG	127	182.950	123.118	25.756	1.00	67.80	CS3	ATOM	3251	CA	ILE	134	185.334	131.986	18.194	1.00	54.66	CS

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ATOM	3252	CB	ILE	134	185.869	131.148	17.023	1.00	60.43	CS3	ATOM	3305	NH2	ARG	140	182.297	135.301	24.345	1.00	80.76	CS3
ATOM	3253	CG	ILE	134	186.788	131.994	16.178	1.00	60.43	CS3	ATOM	3306	C	ARG	140	184.137	142.399	20.268	1.00	69.18	CS3
ATOM	3254	CG	ILE	134	186.603	129.914	17.550	1.00	60.43	CS3	ATOM	3307	O	ARG	140	183.905	143.611	20.236	1.00	69.18	CS3
ATOM	3255	CDI	ILE	134	186.947	128.914	16.483	1.00	60.43	CS3	ATOM	3308	N	VAL	141	185.337	141.858	20.056	1.00	52.11	CS3
ATOM	3256	C	ILE	134	184.541	133.140	17.606	1.00	54.66	CS3	ATOM	3309	CA	VAL	141	186.504	142.654	19.716	1.00	52.11	CS3
ATOM	3257	O	ILE	134	184.931	134.298	17.747	1.00	54.66	CS3	ATOM	3310	CB	VAL	141	187.632	141.637	18.151	1.00	71.43	CS3
ATOM	3258	N	LYS	135	183.438	132.814	16.932	1.00	68.39	CS3	ATOM	3311	CG1	VAL	141	188.809	142.676	19.703	1.00	71.43	CS3
ATOM	3259	CA	LYS	135	182.595	133.830	16.317	1.00	68.39	CS3	ATOM	3312	CG2	VAL	141	188.064	140.736	20.197	1.00	71.43	CS3
ATOM	3260	CB	LYS	135	181.346	133.194	15.719	1.00	78.70	CS3	ATOM	3313	C	VAL	141	186.036	143.582	18.613	1.00	52.11	CS3
ATOM	3261	CG	LYS	135	181.612	132.259	14.564	1.00	78.70	CS3	ATOM	3314	O	VAL	141	186.248	144.799	18.637	1.00	52.11	CS3
ATOM	3262	CG	LYS	135	180.298	131.775	13.961	1.00	78.70	CS3	ATOM	3315	N	MET	142	185.365	142.975	17.651	1.00	72.70	CS3
ATOM	3263	CE	LYS	135	180.497	130.941	12.694	1.00	78.70	CS3	ATOM	3316	CA	MET	142	184.855	143.700	16.512	1.00	72.70	CS3
ATOM	3264	NZ	LYS	135	179.202	130.640	11.987	1.00	78.70	CS3	ATOM	3317	CB	MET	142	184.357	142.691	15.465	1.00	70.49	CS3
ATOM	3265	C	LYS	135	182.201	134.863	17.368	1.00	68.39	CS3	ATOM	3318	CG	MET	142	184.482	143.150	14.025	1.00	70.49	CS3
ATOM	3266	O	LYS	135	182.217	136.076	17.100	1.00	68.39	CS3	ATOM	3319	SD	MET	142	186.012	144.071	13.729	1.00	70.49	CS3
ATOM	3267	N	GLN	136	181.847	134.372	18.559	1.00	60.32	CS3	ATOM	3320	CE	MET	142	185.330	145.560	12.882	1.00	70.49	CS3
ATOM	3268	CA	GLN	136	181.474	135.229	19.689	1.00	60.32	CS3	ATOM	3321	C	MET	142	183.731	144.617	16.983	1.00	72.70	CS3
ATOM	3269	CG	GLN	136	181.313	134.386	20.953	1.00	66.97	CS3	ATOM	3322	O	MET	142	183.652	145.789	16.581	1.00	72.70	CS3
ATOM	3270	CG	GLN	136	179.881	134.084	20.953	1.00	66.97	CS3	ATOM	3323	N	GLU	143	182.894	144.086	17.872	1.00	90.23	CS3
ATOM	3271	CD	GLN	136	179.765	132.781	22.130	1.00	66.97	CS3	ATOM	3324	CA	GLU	143	181.743	144.819	18.396	1.00	90.23	CS3
ATOM	3272	OE1	GLN	136	180.623	132.457	22.972	1.00	66.97	CS3	ATOM	3325	CB	GLU	143	180.753	143.821	19.000	1.00	90.23	CS3
ATOM	3273	NE2	GLN	136	178.697	132.022	21.857	1.00	66.97	CS3	ATOM	3326	CG	GLU	143	179.295	144.242	18.901	1.00	124.30	CS3
ATOM	3274	C	GLN	136	182.589	136.242	19.908	1.00	60.32	CS3	ATOM	3327	CD	GLU	143	178.344	143.053	18.985	1.00	124.30	CS3
ATOM	3275	O	GLN	136	182.371	137.456	19.848	1.00	60.32	CS3	ATOM	3328	OE1	GLU	143	178.360	142.304	20.014	1.00	124.30	CS3
ATOM	3276	N	ALA	137	183.784	135.704	20.153	1.00	50.68	CS3	ATOM	3329	OE2	GLU	143	177.584	142.829	18.016	1.00	124.30	CS3
ATOM	3277	CB	ALA	137	185.004	136.474	20.378	1.00	50.68	CS3	ATOM	3330	C	GLU	143	182.033	145.945	19.401	1.00	90.23	CS3
ATOM	3278	CA	ALA	137	186.201	135.536	20.366	1.00	26.92	CS3	ATOM	3331	O	GLU	143	181.102	146.577	19.998	1.00	67.35	CS3
ATOM	3279	C	ALA	137	185.221	137.587	19.350	1.00	50.68	CS3	ATOM	3332	N	SER	144	183.309	146.197	19.696	1.00	67.35	CS3
ATOM	3280	O	ALA	137	185.537	138.731	19.705	1.00	50.68	CS3	ATOM	3333	CA	SER	144	183.690	147.262	20.624	1.00	67.35	CS3
ATOM	3281	N	VAL	138	185.076	137.250	18.074	1.00	64.53	CS3	ATOM	3334	CB	SER	144	183.903	146.695	22.035	1.00	55.88	CS3
ATOM	3282	CA	VAL	138	185.264	138.247	17.035	1.00	64.53	CS3	ATOM	3335	OG	SER	144	185.121	145.985	22.158	1.00	55.88	CS3
ATOM	3283	CB	VAL	138	185.278	137.601	15.622	1.00	55.82	CS3	ATOM	3336	C	SER	144	184.962	147.967	20.140	1.00	67.35	CS3
ATOM	3284	CG1	VAL	138	185.581	138.660	14.551	1.00	55.82	CS3	ATOM	3337	O	SER	144	186.054	147.770	20.688	1.00	67.35	CS3
ATOM	3285	CG2	VAL	138	186.327	136.497	15.582	1.00	55.82	CS3	ATOM	3338	N	GLY	145	184.810	148.800	19.113	1.00	84.73	CS3
ATOM	3286	C	VAL	138	184.138	139.259	17.158	1.00	64.53	CS3	ATOM	3339	CA	GLY	145	185.948	149.504	18.551	1.00	84.73	CS3
ATOM	3287	O	VAL	138	184.382	140.463	17.162	1.00	64.53	CS3	ATOM	3340	C	GLY	145	186.555	148.631	17.473	1.00	84.73	CS3
ATOM	3288	N	GLN	139	182.909	138.773	17.286	1.00	86.74	CS3	ATOM	3341	O	GLY	145	185.831	148.136	16.608	1.00	84.73	CS3
ATOM	3289	CA	GLN	139	181.778	139.675	17.423	1.00	86.74	CS3	ATOM	3342	N	ALA	146	187.872	148.433	17.540	1.00	77.11	CS3
ATOM	3290	CB	GLN	139	180.466	138.953	17.131	1.00	79.22	CS3	ATOM	3343	CA	ALA	146	188.627	147.603	16.591	1.00	77.11	CS3
ATOM	3291	CG	GLN	139	179.927	139.209	15.725	1.00	79.22	CS3	ATOM	3344	CB	ALA	146	188.522	146.125	16.985	1.00	33.15	CS3
ATOM	3292	CD	GLN	139	179.693	140.693	15.431	1.00	79.22	CS3	ATOM	3345	C	ALA	146	188.239	147.762	15.125	1.00	77.11	CS3
ATOM	3293	OE1	GLN	139	179.092	141.047	14.410	1.00	79.22	CS3	ATOM	3346	O	ALA	146	187.073	147.628	14.761	1.00	77.11	CS3
ATOM	3294	NE2	GLN	139	180.174	141.563	16.317	1.00	79.22	CS3	ATOM	3347	N	LYS	147	189.225	148.081	14.279	1.00	64.32	CS3
ATOM	3295	C	GLN	139	181.722	140.307	18.804	1.00	86.74	CS3	ATOM	3348	CA	LYS	147	188.947	148.181	12.860	1.00	64.32	CS3
ATOM	3296	O	GLN	139	180.665	140.388	19.424	1.00	86.74	CS3	ATOM	3349	CB	LYS	147	189.860	149.239	12.218	1.00	84.37	CS3
ATOM	3297	N	ARG	140	182.884	140.738	19.277	1.00	69.18	CS3	ATOM	3350	CG	LYS	147	189.528	150.682	12.639	1.00	84.37	CS3
ATOM	3298	CA	ARG	140	183.047	141.397	20.570	1.00	69.18	CS3	ATOM	3351	CD	LYS	147	189.945	151.733	11.590	1.00	84.37	CS3
ATOM	3299	CB	ARG	140	183.573	140.443	21.637	1.00	80.76	CS3	ATOM	3352	CE	LYS	147	191.457	151.730	11.329	1.00	84.37	CS3
ATOM	3300	CG	ARG	140	182.578	139.507	22.251	1.00	80.76	CS3	ATOM	3353	NZ	LYS	147	191.933	152.732	10.320	1.00	84.37	CS3
ATOM	3301	CD	ARG	140	183.296	138.689	23.307	1.00	80.76	CS3	ATOM	3354	C	LYS	147	189.094	146.827	12.156	1.00	64.32	CS3
ATOM	3302	NE	ARG	140	182.531	137.520	23.728	1.00	80.76	CS3	ATOM	3355	O	LYS	147	189.024	146.747	10.930	1.00	64.32	CS3
ATOM	3303	CG	ARG	140	183.071	136.324	23.971	1.00	80.76	CS3	ATOM	3356	N	GLY	148	189.276	145.770	12.949	1.00	47.67	CS3
ATOM	3304	NH1	ARG	140	184.387	136.149	23.830	1.00	80.76	CS3	ATOM	3357	CA	GLY	148	189.404	144.430	12.402	1.00	47.67	CS3

ATOM	3358	C	GLY	148	189.939	143.409	13.395	1.00	47.67	CS3	ATOM	3411	NE	ARG	156	192.425	114.703	19.312	1.00	46.62	CS.
ATOM	3359	O	GLY	148	190.675	143.769	14.316	1.00	47.67	CS3	ATOM	3412	CZ	ARG	156	192.457	113.533	19.952	1.00	46.62	CS.
ATOM	3360	N	ALA	149	189.590	142.136	13.214	1.00	36.50	CS3	ATOM	3413	NH1	ARG	156	193.437	113.254	20.810	1.00	46.62	CS.
ATOM	3361	CA	ALA	149	190.066	141.099	14.122	1.00	36.50	CS3	ATOM	3414	NH2	ARG	156	191.503	112.636	19.738	1.00	46.62	CS.
ATOM	3362	C	ALA	149	189.338	141.200	15.442	1.00	34.71	CS3	ATOM	3415	C	ARG	156	190.154	119.078	18.325	1.00	53.20	CS.
ATOM	3363	C	ALA	149	189.910	139.693	13.560	1.00	36.50	CS3	ATOM	3416	O	ARG	156	189.720	118.816	19.438	1.00	53.20	CS.
ATOM	3364	O	ALA	149	189.057	139.458	12.698	1.00	36.50	CS3	ATOM	3417	N	ILE	157	189.624	119.984	17.514	1.00	59.69	CS.
ATOM	3365	N	LYS	150	190.734	138.767	14.058	1.00	50.27	CS3	ATOM	3418	CA	ILE	157	188.414	120.707	17.835	1.00	59.69	CS.
ATOM	3366	CA	LYS	150	190.718	137.361	13.632	1.00	50.27	CS3	ATOM	3419	CB	ILE	157	187.908	121.458	16.587	1.00	59.78	CS.
ATOM	3367	CB	LYS	150	191.739	137.105	12.512	1.00	31.39	CS3	ATOM	3420	CG2	ILE	157	186.491	121.933	16.793	1.00	59.78	CS.
ATOM	3368	CG	LYS	150	191.512	137.883	11.231	1.00	31.39	CS3	ATOM	3421	CG1	ILE	157	188.848	122.623	16.279	1.00	59.78	CS.
ATOM	3369	CD	LYS	150	192.516	137.507	10.133	1.00	31.39	CS3	ATOM	3422	CDI	ILE	157	188.392	123.497	15.111	1.00	59.78	CS.
ATOM	3370	CE	LYS	150	192.227	138.276	8.829	1.00	31.39	CS3	ATOM	3423	C	ILE	157	187.354	119.707	18.294	1.00	59.69	CS.
ATOM	3371	NZ	LYS	150	193.276	138.099	7.780	1.00	31.39	CS3	ATOM	3424	O	ILE	157	187.054	118.729	17.596	1.00	59.69	CS.
ATOM	3372	C	LYS	150	191.079	136.448	14.793	1.00	50.27	CS3	ATOM	3425	O	GLY	158	186.787	119.952	19.472	1.00	58.48	CS.
ATOM	3373	N	LYS	150	191.922	136.788	15.622	1.00	50.27	CS3	ATOM	3426	CA	GLY	158	185.765	119.066	19.989	1.00	55.37	CS.
ATOM	3374	N	VAL	151	190.458	135.281	14.850	1.00	61.67	CS3	ATOM	3427	C	GLY	158	186.279	117.668	20.264	1.00	55.37	CS.
ATOM	3375	CA	VAL	151	190.769	134.333	15.914	1.00	61.67	CS3	ATOM	3428	O	GLY	159	185.526	116.695	20.176	1.00	55.37	CS.
ATOM	3376	CB	VAL	151	189.591	134.164	16.902	1.00	37.80	CS3	ATOM	3429	N	GLY	159	187.565	117.566	20.590	1.00	58.48	CS.
ATOM	3377	CG1	VAL	151	189.959	133.181	18.000	1.00	37.80	CS3	ATOM	3430	CA	GLY	159	188.165	116.278	20.896	1.00	58.48	CS.
ATOM	3378	CG2	VAL	151	189.213	135.512	17.492	1.00	37.80	CS3	ATOM	3431	C	GLY	159	188.212	115.324	19.727	1.00	58.48	CS.
ATOM	3379	O	VAL	151	191.038	133.010	15.229	1.00	61.67	CS3	ATOM	3432	O	GLY	159	188.553	114.155	19.903	1.00	58.48	CS.
ATOM	3380	N	ILE	151	190.395	132.691	14.227	1.00	61.67	CS3	ATOM	3433	N	ALA	160	187.871	115.823	18.539	1.00	80.97	CS.
ATOM	3381	N	ILE	152	191.987	132.245	15.757	1.00	56.90	CS3	ATOM	3434	CA	ALA	160	187.868	115.022	17.314	1.00	80.97	CS.
ATOM	3382	CA	ILE	152	192.332	130.959	15.163	1.00	56.90	CS3	ATOM	3435	CB	ALA	160	187.481	115.903	16.126	1.00	72.17	CS.
ATOM	3383	CB	ILE	152	193.675	131.030	14.378	1.00	33.36	CS3	ATOM	3436	C	ALA	160	189.232	114.368	17.065	1.00	80.97	CS.
ATOM	3384	CG2	ILE	152	194.041	129.640	13.848	1.00	33.36	CS3	ATOM	3437	O	ALA	160	190.274	115.021	17.179	1.00	80.97	CS.
ATOM	3385	CG1	ILE	152	193.579	132.050	13.239	1.00	33.36	CS3	ATOM	3438	N	GLU	161	189.212	113.081	16.716	1.00	51.10	CS.
ATOM	3386	CD1	ILE	152	194.912	132.427	12.633	1.00	33.36	CS3	ATOM	3439	CA	GLU	161	190.438	112.311	16.463	1.00	51.10	CS.
ATOM	3387	C	ILE	152	192.505	129.898	16.230	1.00	56.90	CS3	ATOM	3440	CB	GLU	161	190.050	110.880	16.078	1.00	45.00	CS.
ATOM	3388	O	ILE	152	193.283	130.077	17.175	1.00	56.90	CS3	ATOM	3441	CG	GLU	161	191.213	109.900	16.105	1.00	45.00	CS.
ATOM	3389	N	VAL	153	191.784	128.794	16.092	1.00	52.09	CS3	ATOM	3442	CD	GLU	161	190.743	108.451	16.130	1.00	45.00	CS.
ATOM	3390	CA	VAL	153	191.941	127.717	17.053	1.00	52.09	CS3	ATOM	3443	OE1	GLU	161	191.597	107.543	16.010	1.00	45.00	CS.
ATOM	3391	CB	VAL	153	190.579	127.199	17.593	1.00	43.32	CS3	ATOM	3444	OE2	GLU	161	191.313	112.945	15.383	1.00	51.10	CS.
ATOM	3392	CG1	VAL	153	189.794	125.971	18.494	1.00	43.32	CS3	ATOM	3445	C	GLU	161	192.538	112.802	15.400	1.00	51.10	CS.
ATOM	3393	CG2	VAL	153	189.880	128.311	18.376	1.00	43.32	CS3	ATOM	3446	O	GLU	161	190.680	113.655	14.452	1.00	67.08	CS.
ATOM	3394	C	VAL	153	192.677	126.623	16.303	1.00	52.09	CS3	ATOM	3447	N	GLN	162	191.377	114.339	13.361	1.00	67.08	CS.
ATOM	3395	O	VAL	153	192.453	126.417	15.110	1.00	52.09	CS3	ATOM	3448	CA	GLN	162	190.566	114.209	12.070	1.00	67.08	CS.
ATOM	3396	N	SER	154	193.576	125.954	17.016	1.00	64.36	CS3	ATOM	3449	CB	GLN	162	191.199	113.344	10.995	1.00	67.08	CS.
ATOM	3397	CA	SER	154	194.409	124.887	16.479	1.00	64.36	CS3	ATOM	3450	CG	GLN	162	192.461	113.958	10.432	1.00	67.08	CS.
ATOM	3398	CB	SER	154	195.371	124.408	17.548	1.00	67.84	CS3	ATOM	3451	CD	GLN	162	193.470	113.126	10.219	1.00	67.08	CS.
ATOM	3399	OG	SER	154	194.649	123.691	18.538	1.00	67.84	CS3	ATOM	3452	OE1	GLN	162	192.526	115.168	10.219	1.00	67.08	CS.
ATOM	3400	C	SER	154	193.617	123.690	16.008	1.00	64.36	CS3	ATOM	3453	NE2	GLN	162	191.536	115.818	13.716	1.00	67.08	CS.
ATOM	3401	O	SER	154	192.742	123.809	15.154	1.00	64.36	CS3	ATOM	3454	C	GLN	162	190.542	116.533	13.887	1.00	67.08	CS.
ATOM	3402	N	GLY	155	193.923	122.531	16.590	1.00	53.06	CS3	ATOM	3455	O	GLN	162	192.785	116.268	13.829	1.00	47.77	CS.
ATOM	3403	CA	GLY	155	193.249	121.311	16.188	1.00	53.06	CS3	ATOM	3456	N	ALA	163	193.082	117.663	14.167	1.00	47.77	CS.
ATOM	3404	C	GLY	155	192.923	120.310	17.276	1.00	53.06	CS3	ATOM	3457	CA	ALA	163	194.571	117.833	14.372	1.00	61.98	CS.
ATOM	3405	O	GLY	155	193.542	120.282	18.339	1.00	53.06	CS3	ATOM	3458	CB	ALA	163	192.571	118.603	13.072	1.00	47.77	CS.
ATOM	3406	N	ARG	156	191.967	119.452	16.933	1.00	53.20	CS3	ATOM	3459	C	ALA	163	192.877	118.390	11.895	1.00	47.77	CS.
ATOM	3407	CA	ARG	156	191.384	118.408	17.768	1.00	53.20	CS3	ATOM	3460	O	ALA	163	191.868	119.645	13.450	1.00	47.65	CS.
ATOM	3408	CB	ARG	156	192.299	117.940	18.892	1.00	46.62	CS3	ATOM	3461	N	ARG	164	191.347	120.579	12.457	1.00	47.65	CS.
ATOM	3409	CG	ARG	156	193.258	116.877	18.444	1.00	46.62	CS3	ATOM	3462	CA	ARG	164	189.804	120.642	12.534	1.00	66.04	CS.
ATOM	3410	CD	ARG	156	193.420	115.760	19.476	1.00	46.62	CS3	ATOM	3463	CB	ARG	164						CS.

ATOM	3464	CG	ARG	164	189.133	119.270	12.725	1.00	66.04	CS3	ATOM	3517	OE1	GLN	170	182.110	141.487	12.176	1.00	84.45	CS3
ATOM	3465	CD	ARG	164	187.643	119.198	12.320	1.00	66.04	CS3	ATOM	3518	NE2	GLN	170	182.257	139.424	13.075	1.00	84.45	CS3
ATOM	3466	NE1	ARG	164	186.725	119.981	13.149	1.00	66.04	CS3	ATOM	3519	C	GLN	170	186.962	142.010	10.133	1.00	37.86	CS3
ATOM	3467	C2	ARG	164	186.501	121.284	12.990	1.00	66.04	CS3	ATOM	3520	O	GLN	170	187.920	142.233	10.878	1.00	37.86	CS3
ATOM	3468	NH1	ARG	164	187.130	121.952	12.033	1.00	66.04	CS3	ATOM	3521	N	GLY	171	186.624	142.818	9.126	1.00	49.22	CS3
ATOM	3469	NH2	ARG	164	185.644	121.922	13.777	1.00	66.04	CS3	ATOM	3522	CA	GLY	171	187.361	144.043	8.579	1.00	49.22	CS3
ATOM	3470	C	ARG	164	191.954	121.953	12.699	1.00	47.65	CS3	ATOM	3523	O	GLY	171	188.845	143.853	8.579	1.00	49.22	CS3
ATOM	3471	O	ARG	164	193.027	122.057	13.278	1.00	47.65	CS3	ATOM	3524	O	GLY	171	189.404	142.799	8.861	1.00	49.22	CS3
ATOM	3472	N	THR	165	191.272	122.997	12.241	1.00	50.41	CS3	ATOM	3525	N	ARG	172	189.494	144.881	8.038	1.00	48.62	CS3
ATOM	3473	CA	THR	165	191.732	124.366	12.422	1.00	50.41	CS3	ATOM	3526	CA	ARG	172	190.923	144.820	7.729	1.00	48.62	CS3
ATOM	3474	OE1	THR	165	192.940	124.667	11.533	1.00	43.14	CS3	ATOM	3527	CB	ARG	172	191.457	146.212	7.373	1.00	77.50	CS3
ATOM	3475	OE1	THR	165	194.111	124.084	12.120	1.00	43.14	CS3	ATOM	3528	CG	ARG	172	190.706	146.903	6.247	1.00	77.50	CS3
ATOM	3476	CG2	THR	165	193.150	126.172	11.385	1.00	43.14	CS3	ATOM	3529	CD	ARG	172	191.635	147.505	5.183	1.00	77.50	CS3
ATOM	3477	C	THR	165	190.601	125.320	12.095	1.00	50.41	CS3	ATOM	3530	NE1	ARG	172	192.485	148.605	5.647	1.00	77.50	CS3
ATOM	3478	O	THR	165	190.153	125.386	10.948	1.00	50.41	CS3	ATOM	3531	CZ	ARG	172	193.640	148.449	6.297	1.00	77.50	CS3
ATOM	3479	N	GLU	166	190.146	126.062	13.107	1.00	53.01	CS3	ATOM	3532	NH1	ARG	172	194.098	147.231	6.575	1.00	77.50	CS3
ATOM	3480	CA	GLU	166	189.039	126.987	12.926	1.00	53.01	CS3	ATOM	3533	NH2	ARG	172	194.355	149.513	6.651	1.00	77.50	CS3
ATOM	3481	CB	GLU	166	188.065	126.855	14.087	1.00	92.26	CS3	ATOM	3534	C	ARG	172	191.776	144.244	8.858	1.00	48.62	CS3
ATOM	3482	CG	GLU	166	186.614	126.815	13.636	1.00	92.26	CS3	ATOM	3535	O	ARG	172	191.605	144.595	10.020	1.00	48.62	CS3
ATOM	3483	CD	GLU	166	186.363	125.785	12.544	1.00	92.26	CS3	ATOM	3536	N	VAL	173	192.690	143.346	8.499	1.00	54.07	CS3
ATOM	3484	OE1	GLU	166	186.672	124.591	12.754	1.00	92.26	CS3	ATOM	3537	CA	VAL	173	193.618	142.724	9.446	1.00	54.07	CS3
ATOM	3485	OE2	GLU	166	185.854	126.176	11.473	1.00	92.26	CS3	ATOM	3538	CB	VAL	173	193.010	141.465	10.071	1.00	36.35	CS3
ATOM	3486	C	GLU	166	189.442	128.438	12.724	1.00	53.01	CS3	ATOM	3539	CG1	VAL	173	193.950	140.908	11.151	1.00	36.35	CS3
ATOM	3487	O	GLU	166	190.455	128.908	13.249	1.00	53.01	CS3	ATOM	3540	CG2	VAL	173	191.642	141.789	10.652	1.00	36.35	CS3
ATOM	3488	N	TRP	167	188.601	129.140	11.975	1.00	60.85	CS3	ATOM	3541	C	VAL	173	194.876	142.357	8.648	1.00	54.07	CS3
ATOM	3489	CA	TRP	167	188.819	130.528	11.577	1.00	60.85	CS3	ATOM	3542	O	VAL	173	195.300	141.199	8.618	1.00	54.07	CS3
ATOM	3490	CB	TRP	167	188.414	130.653	10.126	1.00	73.15	CS3	ATOM	3543	N	PRO	174	195.490	143.368	7.998	1.00	68.64	CS3
ATOM	3491	CG	TRP	167	189.531	130.861	9.235	1.00	73.15	CS3	ATOM	3544	CD	PRO	174	195.061	144.768	8.191	1.00	49.15	CS3
ATOM	3492	CD2	TRP	167	189.814	132.056	8.525	1.00	73.15	CS3	ATOM	3545	CA	PRO	174	196.691	143.331	7.151	1.00	68.64	CS3
ATOM	3493	CE2	TRP	167	190.966	131.820	7.769	1.00	73.15	CS3	ATOM	3546	CB	PRO	174	196.761	144.752	6.610	1.00	49.15	CS3
ATOM	3494	CE3	TRP	167	189.197	133.308	8.455	1.00	73.15	CS3	ATOM	3547	CG	PRO	174	196.279	145.544	7.775	1.00	68.64	CS3
ATOM	3495	CD1	TRP	167	190.492	129.967	8.903	1.00	73.15	CS3	ATOM	3548	C	PRO	174	198.006	142.930	7.792	1.00	68.64	CS3
ATOM	3496	NE1	TRP	167	191.362	130.534	8.019	1.00	73.15	CS3	ATOM	3549	O	PRO	174	198.836	143.791	8.081	1.00	56.69	CS3
ATOM	3497	C22	TRP	167	191.527	132.796	6.946	1.00	73.15	CS3	ATOM	3550	N	LEU	175	198.214	141.634	7.995	1.00	56.69	CS3
ATOM	3498	C23	TRP	167	189.748	134.278	7.639	1.00	73.15	CS3	ATOM	3551	CA	LEU	175	199.462	141.174	8.592	1.00	37.52	CS3
ATOM	3499	CH2	TRP	167	190.903	134.017	6.893	1.00	73.15	CS3	ATOM	3552	CB	LEU	175	199.511	139.643	9.691	1.00	37.52	CS3
ATOM	3500	C	TRP	167	188.151	131.670	12.330	1.00	60.85	CS3	ATOM	3553	CG	LEU	175	199.585	137.860	10.385	1.00	37.52	CS3
ATOM	3501	O	TRP	167	188.249	131.771	13.544	1.00	60.85	CS3	ATOM	3554	CD1	LEU	175	198.092	139.864	10.716	1.00	37.52	CS3
ATOM	3502	N	ALA	168	187.505	132.545	11.551	1.00	47.80	CS3	ATOM	3555	CD2	LEU	175	200.681	141.672	7.814	1.00	56.69	CS3
ATOM	3503	CA	ALA	168	186.766	133.738	12.014	1.00	47.80	CS3	ATOM	3556	C	LEU	175	201.780	141.768	8.361	1.00	56.69	CS3
ATOM	3504	CB	ALA	168	186.261	133.550	13.446	1.00	72.73	CS3	ATOM	3557	O	LEU	175	200.488	141.999	6.542	1.00	58.84	CS3
ATOM	3505	C	ALA	168	187.536	135.049	11.906	1.00	47.80	CS3	ATOM	3558	N	HIS	176	201.602	142.453	5.727	1.00	58.84	CS3
ATOM	3506	O	ALA	168	188.590	135.224	12.521	1.00	47.80	CS3	ATOM	3559	CA	HIS	176	201.309	142.236	4.246	1.00	76.18	CS3
ATOM	3507	N	ALA	169	186.981	135.978	11.135	1.00	43.25	CS3	ATOM	3560	CB	HIS	176	201.830	140.941	3.710	1.00	76.18	CS3
ATOM	3508	CA	ALA	169	187.616	137.268	10.943	1.00	43.25	CS3	ATOM	3561	CG	HIS	176	202.883	140.673	2.903	1.00	76.18	CS3
ATOM	3509	CB	ALA	169	188.747	137.107	9.985	1.00	46.68	CS3	ATOM	3562	CD2	HIS	176	201.238	139.727	3.988	1.00	76.18	CS3
ATOM	3510	C	ALA	169	186.654	138.351	10.432	1.00	43.25	CS3	ATOM	3563	NE1	HIS	176	201.901	138.767	3.369	1.00	76.18	CS3
ATOM	3511	O	ALA	169	185.675	138.046	9.753	1.00	43.25	CS3	ATOM	3564	CD1	HIS	176	202.903	139.315	2.703	1.00	76.18	CS3
ATOM	3512	N	GLN	170	186.934	139.614	10.764	1.00	37.86	CS3	ATOM	3565	NE2	HIS	176	201.971	143.900	5.922	1.00	58.84	CS3
ATOM	3513	CA	GLN	170	186.108	140.745	10.318	1.00	37.86	CS3	ATOM	3566	C	HIS	176	203.149	144.255	5.896	1.00	58.84	CS3
ATOM	3514	CB	GLN	170	184.973	141.018	11.321	1.00	84.45	CS3	ATOM	3567	O	HIS	176	200.959	144.734	6.112	1.00	71.67	CS3
ATOM	3515	CG	GLN	170	183.809	140.009	11.283	1.00	84.45	CS3	ATOM	3568	N	THR	177	201.170	146.167	6.261	1.00	71.67	CS3
ATOM	3516	CD	GLN	170	182.648	140.374	12.225	1.00	84.45	CS3	ATOM	3569	CA	THR	177						CS3

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ATOM	3570	CB	THR	177	199.826	146.923	6.202	1.00	64.36	CS3	ATOM	3623	N	TYR	184	198.650	140.997	18.884	1.00	44.49	CS:
ATOM	3571	OGA	THR	177	200.055	148.271	5.779	1.00	64.36	CS3	ATOM	3624	CA	TYR	184	198.696	139.555	18.742	1.00	44.49	CS:
ATOM	3572	OG2	THR	177	199.172	146.952	7.575	1.00	64.36	CS3	ATOM	3625	CB	TYR	184	199.990	139.128	18.035	1.00	62.39	CS:
ATOM	3573	C	THR	177	201.915	146.629	7.513	1.00	71.67	CS3	ATOM	3626	CB	TYR	184	200.212	137.631	18.026	1.00	62.39	CS:
ATOM	3574	O	THR	177	202.747	147.541	7.429	1.00	71.67	CS3	ATOM	3627	CD1	TYR	184	199.595	136.816	17.076	1.00	62.39	CS:
ATOM	3575	N	LEU	178	201.632	145.991	8.653	1.00	77.59	CS3	ATOM	3628	CE1	TYR	184	199.756	135.419	17.106	1.00	62.39	CS:
ATOM	3576	CA	LEU	178	202.235	146.386	9.932	1.00	77.59	CS3	ATOM	3629	CD2	TYR	184	200.997	137.021	19.007	1.00	62.39	CS:
ATOM	3577	CB	LEU	178	203.179	145.295	10.475	1.00	56.80	CS3	ATOM	3630	CE2	TYR	184	201.163	135.630	19.049	1.00	62.39	CS:
ATOM	3578	CG	LEU	178	202.597	144.215	11.425	1.00	56.80	CS3	ATOM	3631	CZ	TYR	184	200.542	134.835	18.096	1.00	62.39	CS:
ATOM	3579	CD1	LEU	178	202.178	144.827	12.742	1.00	56.80	CS3	ATOM	3632	OH	TYR	184	200.718	133.465	18.126	1.00	62.39	CS:
ATOM	3580	CD2	LEU	178	201.425	143.524	10.778	1.00	56.80	CS3	ATOM	3633	C	TYR	184	198.652	138.912	20.111	1.00	44.49	CS:
ATOM	3581	O	LEU	178	202.894	147.787	9.832	1.00	77.59	CS3	ATOM	3634	O	TYR	184	199.297	139.372	21.050	1.00	44.49	CS:
ATOM	3582	O	LEU	178	204.021	148.013	9.345	1.00	77.59	CS3	ATOM	3635	N	GLY	185	197.900	137.837	20.233	1.00	49.39	CS:
ATOM	3583	N	ARG	179	202.051	148.706	10.277	1.00	79.63	CS3	ATOM	3636	CA	GLY	185	197.853	137.185	21.515	1.00	49.39	CS:
ATOM	3584	CA	ARG	179	202.177	150.147	10.344	1.00	79.63	CS3	ATOM	3637	C	GLY	185	197.661	135.707	21.327	1.00	49.39	CS:
ATOM	3585	CG	ARG	179	202.354	150.729	8.950	1.00	70.00	CS3	ATOM	3638	O	GLY	185	196.843	135.287	20.508	1.00	49.39	CS:
ATOM	3586	CG	ARG	179	202.332	152.242	8.855	1.00	70.00	CS3	ATOM	3639	N	PHE	186	198.409	134.913	22.079	1.00	52.17	CS:
ATOM	3587	CD	ARG	179	200.950	152.804	8.575	1.00	70.00	CS3	ATOM	3640	CA	PHE	186	198.289	133.476	21.976	1.00	52.17	CS:
ATOM	3588	NE	ARG	179	200.447	152.458	7.250	1.00	70.00	CS3	ATOM	3641	CB	PHE	186	199.598	132.856	21.502	1.00	58.02	CS:
ATOM	3589	CZ	ARG	179	199.707	153.268	6.489	1.00	70.00	CS3	ATOM	3642	CG	PHE	186	199.614	131.353	21.576	1.00	58.02	CS:
ATOM	3590	NH1	ARG	179	199.382	154.483	6.914	1.00	70.00	CS3	ATOM	3643	CD1	PHE	186	200.502	130.694	22.841	1.00	58.02	CS:
ATOM	3591	NH2	ARG	179	199.281	152.863	5.298	1.00	70.00	CS3	ATOM	3644	CD2	PHE	186	198.731	130.595	20.811	1.00	58.02	CS:
ATOM	3592	C	ARG	179	200.717	150.198	10.715	1.00	79.63	CS3	ATOM	3645	CE1	PHE	186	198.734	129.195	20.888	1.00	58.02	CS:
ATOM	3593	O	ARG	179	200.074	151.235	10.717	1.00	79.63	CS3	ATOM	3646	CE2	PHE	186	200.514	129.300	22.506	1.00	58.02	CS:
ATOM	3594	N	ALA	180	198.851	148.701	11.349	1.00	80.78	CS3	ATOM	3647	CZ	PHE	186	199.629	128.548	21.739	1.00	58.02	CS:
ATOM	3595	CA	ALA	180	198.512	147.283	10.941	1.00	43.22	CS3	ATOM	3648	C	PHE	186	197.911	132.864	23.302	1.00	52.17	CS:
ATOM	3596	CB	ALA	180	198.661	148.825	12.832	1.00	80.78	CS3	ATOM	3649	O	PHE	186	198.446	133.219	24.347	1.00	52.17	CS:
ATOM	3597	C	ALA	180	198.661	148.825	12.832	1.00	80.78	CS3	ATOM	3650	N	ALA	187	196.983	131.927	23.249	1.00	55.45	CS:
ATOM	3598	O	ALA	180	197.402	149.578	13.319	1.00	80.78	CS3	ATOM	3651	CA	ALA	187	196.549	131.234	24.442	1.00	55.45	CS:
ATOM	3599	N	ASN	181	199.492	148.072	13.540	1.00	57.79	CS3	ATOM	3652	CB	ALA	187	195.132	131.669	24.806	1.00	49.34	CS:
ATOM	3600	CA	ASN	181	199.418	148.010	14.985	1.00	57.79	CS3	ATOM	3653	C	ALA	187	196.602	129.727	24.181	1.00	55.45	CS:
ATOM	3601	CB	ASN	181	198.996	149.341	15.618	1.00	83.33	CS3	ATOM	3654	O	ALA	187	196.147	129.239	23.138	1.00	55.45	CS:
ATOM	3602	CG	ASN	181	198.554	149.179	17.059	1.00	83.33	CS3	ATOM	3655	N	LEU	188	197.179	128.999	25.127	1.00	47.30	CS:
ATOM	3603	OD1	ASN	181	199.113	148.376	17.811	1.00	83.33	CS3	ATOM	3656	CA	LEU	188	197.278	127.549	25.033	1.00	47.30	CS:
ATOM	3604	ND2	ASN	181	197.546	149.948	17.454	1.00	83.33	CS3	ATOM	3657	CB	LEU	188	198.287	127.052	26.068	1.00	57.80	CS:
ATOM	3605	C	ASN	181	198.339	146.980	15.166	1.00	57.79	CS3	ATOM	3658	CG	LEU	188	199.215	125.893	25.705	1.00	57.80	CS:
ATOM	3606	O	ASN	181	197.154	147.281	15.345	1.00	57.79	CS3	ATOM	3659	CD1	LEU	188	198.575	124.568	26.076	1.00	57.80	CS:
ATOM	3607	N	ILE	182	198.777	145.744	15.056	1.00	66.43	CS3	ATOM	3660	CD2	LEU	188	199.556	125.968	24.226	1.00	57.80	CS:
ATOM	3608	CA	ILE	182	197.897	144.621	15.196	1.00	66.43	CS3	ATOM	3661	C	LEU	188	195.874	127.000	25.314	1.00	47.30	CS:
ATOM	3609	CB	ILE	182	198.065	143.693	13.978	1.00	61.38	CS3	ATOM	3662	O	LEU	188	194.893	127.637	24.953	1.00	47.30	CS:
ATOM	3610	CG2	ILE	182	197.130	142.500	14.091	1.00	61.38	CS3	ATOM	3663	N	ALA	189	195.764	125.838	25.949	1.00	38.79	CS:
ATOM	3611	CD1	ILE	182	197.807	144.498	12.695	1.00	61.38	CS3	ATOM	3664	CA	ALA	189	194.452	125.255	26.258	1.00	38.79	CS:
ATOM	3612	CG1	ILE	182	197.984	143.718	11.409	1.00	61.38	CS3	ATOM	3665	CB	ALA	189	193.437	125.499	25.099	1.00	2.09	CS:
ATOM	3613	C	ILE	182	198.315	143.943	16.496	1.00	66.43	CS3	ATOM	3666	C	ALA	189	194.572	123.759	26.534	1.00	38.79	CS:
ATOM	3614	N	ILE	182	199.474	143.560	16.665	1.00	66.43	CS3	ATOM	3667	O	ALA	189	194.106	122.933	25.750	1.00	38.79	CS:
ATOM	3615	N	ASP	183	197.384	143.844	17.438	1.00	59.40	CS3	ATOM	3668	N	ARG	190	195.202	123.419	27.653	1.00	63.89	CS:
ATOM	3616	CA	ASP	183	197.712	143.205	18.696	1.00	59.40	CS3	ATOM	3669	CA	ARG	190	195.379	122.027	28.038	1.00	63.89	CS:
ATOM	3617	CB	ASP	183	196.766	143.672	19.807	1.00	97.01	CS3	ATOM	3670	CB	ARG	190	196.131	121.973	29.368	1.00	77.17	CS:
ATOM	3618	CG	ASP	183	197.215	143.214	21.188	1.00	97.01	CS3	ATOM	3671	CG	ARG	190	197.405	122.839	29.389	1.00	77.17	CS:
ATOM	3619	OD1	ASP	183	196.550	143.581	22.181	1.00	97.01	CS3	ATOM	3672	CD	ARG	190	198.212	122.694	30.696	1.00	77.17	CS:
ATOM	3620	OD2	ASP	183	198.229	142.486	21.281	1.00	97.01	CS3	ATOM	3673	NE	ARG	190	198.876	121.393	30.864	1.00	77.17	CS:
ATOM	3621	C	ASP	183	197.603	141.702	18.483	1.00	59.40	CS3	ATOM	3674	CZ	ARG	190	198.256	120.230	31.088	1.00	77.17	CS:
ATOM	3622	O	ASP	183	196.609	141.199	17.947	1.00	59.40	CS3	ATOM	3675	NH1	ARG	190	196.933	120.165	31.177	1.00	77.17	CS:

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ATOM	3676	NH2	ARG	190	198.966	119.116	31.232	1.00	77.17	CS3	ATOM	3729	CA	VAL	198	194.524	129.818	20.309	1.00	49.03	CS
ATOM	3677	C	ARG	190	194.008	121.330	28.136	1.00	63.89	CS3	ATOM	3730	CB	VAL	198	193.543	130.081	21.449	1.00	40.60	CS
ATOM	3678	OH	ARG	190	193.073	121.847	28.749	1.00	63.89	CS3	ATOM	3731	CG1	VAL	198	192.568	131.193	21.051	1.00	40.60	CS
ATOM	3679	N	THR	191	193.897	120.158	27.521	1.00	76.60	CS3	ATOM	3732	CG2	VAL	198	192.798	128.792	21.788	1.00	40.60	CS
ATOM	3680	CA	THR	191	192.640	119.410	27.495	1.00	76.60	CS3	ATOM	3733	C	VAL	198	195.186	131.140	19.932	1.00	49.03	CS
ATOM	3681	CB	THR	191	191.985	119.475	26.110	1.00	60.24	CS3	ATOM	3734	O	VAL	198	195.906	131.735	20.729	1.00	49.03	CS
ATOM	3682	OG1	THR	191	191.694	120.834	25.781	1.00	60.24	CS3	ATOM	3735	N	LYS	199	194.935	131.610	18.720	1.00	51.98	CS
ATOM	3683	CG2	THR	191	190.717	118.651	26.079	1.00	60.24	CS3	ATOM	3736	CA	LYS	199	195.537	132.858	18.301	1.00	51.98	CS
ATOM	3684	O	THR	191	192.826	117.937	27.788	1.00	76.60	CS3	ATOM	3737	CB	LYS	199	196.329	132.672	17.008	1.00	67.92	CS
ATOM	3685	C	THR	191	193.938	117.420	27.774	1.00	76.60	CS3	ATOM	3738	CG	LYS	199	197.539	131.775	17.139	1.00	67.92	CS
ATOM	3686	OH	THR	192	191.714	117.262	28.033	1.00	65.37	CS3	ATOM	3739	CD	LYS	199	198.327	131.727	15.840	1.00	67.92	CS
ATOM	3687	CA	THR	192	191.728	115.838	28.291	1.00	65.37	CS3	ATOM	3740	CE	LYS	199	199.099	130.419	15.729	1.00	67.92	CS
ATOM	3688	CB	THR	192	190.296	115.328	28.495	1.00	68.03	CS3	ATOM	3741	NZ	LYS	199	199.853	130.333	14.453	1.00	67.92	CS
ATOM	3689	OG1	THR	192	189.866	115.678	29.815	1.00	68.03	CS3	ATOM	3742	C	LYS	199	194.518	133.960	18.101	1.00	51.98	CS
ATOM	3690	CG2	THR	192	190.212	113.811	28.279	1.00	68.03	CS3	ATOM	3743	O	LYS	199	193.448	133.738	17.523	1.00	51.98	CS
ATOM	3691	C	THR	192	192.336	115.144	27.084	1.00	65.37	CS3	ATOM	3744	N	ILE	200	194.871	135.155	18.567	1.00	43.23	CS
ATOM	3692	O	THR	192	193.148	114.228	27.216	1.00	65.37	CS3	ATOM	3745	CA	ILE	200	194.009	136.316	18.445	1.00	43.23	CS
ATOM	3693	N	TYR	193	191.945	115.537	25.899	1.00	86.87	CS3	ATOM	3746	CB	ILE	200	193.547	136.816	19.818	1.00	172.65	CS
ATOM	3694	CA	TYR	193	192.447	115.000	24.673	1.00	86.87	CS3	ATOM	3747	CG2	ILE	200	192.627	138.020	19.651	1.00	172.65	CS
ATOM	3695	CB	TYR	193	191.344	114.998	23.610	1.00	79.57	CS3	ATOM	3748	CG1	ILE	200	192.852	135.686	20.575	1.00	172.65	CS
ATOM	3696	CG	TYR	193	190.596	116.306	23.478	1.00	79.57	CS3	ATOM	3749	CD1	ILE	200	191.620	135.142	19.894	1.00	172.65	CS
ATOM	3697	CD1	TYR	193	191.154	117.350	22.796	1.00	79.57	CS3	ATOM	3750	C	ILE	200	194.743	137.454	17.776	1.00	43.23	CS
ATOM	3698	CEL	TYR	193	189.454	118.587	22.651	1.00	79.57	CS3	ATOM	3751	O	ILE	200	195.867	137.788	18.164	1.00	49.31	CS
ATOM	3699	CEL	TYR	193	189.318	116.454	24.019	1.00	79.57	CS3	ATOM	3752	N	PHE	201	194.098	138.050	16.780	1.00	49.31	CS
ATOM	3700	CE2	TYR	193	188.609	117.646	23.882	1.00	79.57	CS3	ATOM	3753	CA	PHE	201	194.667	139.179	16.049	1.00	49.31	CS
ATOM	3701	CZ	TYR	193	189.180	118.707	23.196	1.00	79.57	CS3	ATOM	3754	CB	PHE	201	195.924	137.823	14.256	1.00	63.75	CS
ATOM	3702	OH	TYR	193	188.471	119.879	23.045	1.00	86.87	CS3	ATOM	3755	CG	PHE	201	194.860	138.858	14.550	1.00	63.75	CS
ATOM	3703	C	TYR	193	193.719	115.654	24.139	1.00	86.87	CS3	ATOM	3756	CD1	PHE	201	195.697	136.468	14.511	1.00	63.75	CS
ATOM	3704	O	TYR	193	194.309	115.163	23.181	1.00	86.87	CS3	ATOM	3757	CD2	PHE	201	197.151	138.207	13.709	1.00	63.75	CS
ATOM	3705	N	GLY	194	194.144	116.754	24.757	1.00	55.31	CS3	ATOM	3758	CEL	PHE	201	196.681	135.507	14.222	1.00	63.75	CS
ATOM	3706	CA	GLY	194	195.364	117.409	24.317	1.00	55.31	CS3	ATOM	3759	CE2	PHE	201	198.140	137.255	13.418	1.00	63.75	CS
ATOM	3707	C	GLY	194	195.354	118.920	24.152	1.00	55.31	CS3	ATOM	3760	CZ	PHE	201	197.904	135.903	16.137	1.00	63.75	CS
ATOM	3708	O	GLY	194	194.307	119.569	24.208	1.00	55.31	CS3	ATOM	3761	C	PHE	201	193.691	140.338	16.137	1.00	49.31	CS
ATOM	3709	N	VAL	195	196.548	119.469	23.927	1.00	53.39	CS3	ATOM	3762	O	PHE	201	192.526	140.184	15.763	1.00	49.31	CS
ATOM	3710	CA	VAL	195	196.753	120.903	23.754	1.00	53.39	CS3	ATOM	3763	N	ILE	202	194.140	141.494	16.620	1.00	53.46	CS
ATOM	3711	CB	VAL	195	198.256	121.235	23.679	1.00	102.70	CS3	ATOM	3764	CA	ILE	202	193.240	142.649	16.673	1.00	53.46	CS
ATOM	3712	CG1	VAL	195	198.451	122.715	23.398	1.00	102.70	CS3	ATOM	3765	CB	ILE	202	192.872	143.036	18.123	1.00	66.90	CS
ATOM	3713	CG2	VAL	195	198.940	120.845	24.972	1.00	102.70	CS3	ATOM	3766	CG2	ILE	202	191.698	144.026	18.096	1.00	66.90	CS
ATOM	3714	C	VAL	195	196.107	121.435	22.488	1.00	53.39	CS3	ATOM	3767	CG1	ILE	202	192.491	141.779	18.921	1.00	66.90	CS
ATOM	3715	O	VAL	195	196.130	120.772	21.460	1.00	53.39	CS3	ATOM	3768	CD1	ILE	202	191.983	142.048	20.328	1.00	66.90	CS
ATOM	3716	N	LEU	196	195.525	122.628	22.563	1.00	44.88	CS3	ATOM	3769	C	ILE	202	193.845	143.857	15.965	1.00	53.46	CS
ATOM	3717	CA	LEU	196	194.916	123.248	21.393	1.00	44.88	CS3	ATOM	3770	O	ILE	202	194.986	144.235	16.211	1.00	53.46	CS
ATOM	3718	CB	LEU	196	193.396	123.025	21.362	1.00	48.09	CS3	ATOM	3771	N	PHE	203	193.073	144.457	15.076	1.00	72.24	CS
ATOM	3719	CG	LEU	196	192.762	121.695	21.822	1.00	48.09	CS3	ATOM	3772	CA	PHE	203	193.553	145.602	14.322	1.00	72.24	CS
ATOM	3720	CD1	LEU	196	191.343	121.655	21.272	1.00	48.09	CS3	ATOM	3773	CB	PHE	203	193.107	145.460	12.865	1.00	33.00	CS
ATOM	3721	CD2	LEU	196	193.516	120.459	21.334	1.00	48.09	CS3	ATOM	3774	CG	PHE	203	193.525	146.590	11.986	1.00	33.00	CS
ATOM	3722	C	LEU	196	195.224	124.744	21.453	1.00	44.88	CS3	ATOM	3775	CD1	PHE	203	194.802	147.127	12.079	1.00	33.00	CS
ATOM	3723	O	LEU	196	194.638	125.475	22.243	1.00	44.88	CS3	ATOM	3776	CD2	PHE	203	192.656	147.086	11.021	1.00	33.00	CS
ATOM	3724	N	GLY	197	196.154	125.194	20.622	1.00	47.56	CS3	ATOM	3777	CEL	PHE	203	195.219	148.147	11.214	1.00	33.00	CS
ATOM	3725	CA	GLY	197	196.529	126.596	20.622	1.00	47.56	CS3	ATOM	3778	CE2	PHE	203	193.056	148.106	10.146	1.00	33.00	CS
ATOM	3726	C	GLY	197	195.460	127.563	20.144	1.00	47.56	CS3	ATOM	3779	CZ	PHE	203	194.344	148.638	10.244	1.00	33.00	CS
ATOM	3727	O	GLY	197	194.628	127.216	20.298	1.00	47.56	CS3	ATOM	3780	C	PHE	203	193.045	146.913	14.919	1.00	72.24	CS
ATOM	3728	N	VAL	198	195.489	128.786	20.683	1.00	49.03	CS3	ATOM	3781	O	PHE	203	191.857	147.044	15.221	1.00	72.24	CS

ATOM	3782	N	LEU	204	193.954	147.875	15.087	1.00	88.70	CS3	ATOM	3835	O	ASP	4	251.932	125.646	2.533	1.00	66.01	VTI
ATOM	3783	CA	LEU	204	193.625	149.186	15.656	1.00	88.70	CS3	ATOM	3836	N	ARG	5	251.553	123.689	3.590	1.00	90.59	VTI
ATOM	3784	CB	LEU	204	194.210	149.317	17.060	1.00	52.47	CS3	ATOM	3837	CA	ARG	5	251.648	124.310	4.897	1.00	90.59	VTI
ATOM	3785	CG	LEU	204	194.088	148.119	17.993	1.00	52.47	CS3	ATOM	3838	CB	ARG	5	251.246	123.323	6.004	1.00	98.33	VTI
ATOM	3786	CD	LEU	204	195.019	148.283	19.189	1.00	52.47	CS3	ATOM	3839	CD	ARG	5	252.341	122.516	6.663	1.00	98.33	VTI
ATOM	3787	CD2	LEU	204	192.648	147.982	18.437	1.00	52.47	CS3	ATOM	3840	CD	ARG	5	251.886	122.202	8.096	1.00	98.33	VTI
ATOM	3788	C	LEU	204	194.211	150.303	14.804	1.00	88.70	CS3	ATOM	3841	NE	ARG	5	252.668	121.181	8.802	1.00	98.33	VTI
ATOM	3789	O	LEU	204	195.405	150.300	14.500	1.00	88.70	CS3	ATOM	3842	C2	ARG	5	252.473	120.831	10.077	1.00	98.33	VTI
ATOM	3790	N	GLY	205	193.379	151.266	14.436	1.00	114.70	CS3	ATOM	3843	NH1	ARG	5	251.525	121.418	10.805	1.00	98.33	VTI
ATOM	3791	CA	GLY	205	193.857	152.382	13.635	1.00	114.70	CS3	ATOM	3844	NH2	ARG	5	253.217	119.879	10.628	1.00	98.33	VTI
ATOM	3792	CG	GLY	205	194.825	152.046	12.504	1.00	114.70	CS3	ATOM	3845	C	ARG	5	252.992	124.957	5.183	1.00	90.59	VTI
ATOM	3793	O	GLY	205	194.478	151.333	11.561	1.00	114.70	CS3	ATOM	3846	O	ARG	5	253.156	125.625	6.199	1.00	90.59	VTI
ATOM	3794	N	GLU	206	196.045	152.565	12.595	1.00	83.65	CS3	ATOM	3847	N	ARG	6	253.954	124.789	4.282	1.00	79.50	VTI
ATOM	3795	CA	GLU	206	197.049	152.335	11.572	1.00	83.65	CS3	ATOM	3848	CA	ARG	6	255.247	125.417	4.494	1.00	79.50	VTI
ATOM	3796	CB	GLU	206	196.438	152.562	10.182	1.00	99.58	CS3	ATOM	3849	CB	ARG	6	256.353	124.368	4.691	1.00	63.83	VTI
ATOM	3797	CG	GLU	206	197.268	152.034	9.013	1.00	99.58	CS3	ATOM	3850	CG	ARG	6	256.658	123.504	3.498	1.00	63.83	VTI
ATOM	3798	CD	GLU	206	196.496	152.026	7.696	1.00	99.58	CS3	ATOM	3851	CD	ARG	6	257.983	122.751	3.688	1.00	63.83	VTI
ATOM	3799	O	GLU	206	197.090	151.675	6.650	1.00	99.58	CS3	ATOM	3852	NE	ARG	6	257.884	121.573	4.549	1.00	63.83	VTI
ATOM	3800	O	GLU	206	195.292	152.366	7.711	1.00	99.58	CS3	ATOM	3853	C2	ARG	6	259.925	120.723	3.899	1.00	63.83	VTI
ATOM	3801	C	GLU	206	198.247	153.267	11.789	1.00	83.65	CS3	ATOM	3854	NH1	ARG	6	258.819	120.628	4.625	1.00	63.83	VTI
ATOM	3802	O	GLU	206	199.027	153.057	12.725	1.00	83.65	CS3	ATOM	3855	NH2	ARG	6	258.639	119.570	5.405	1.00	63.83	VTI
ATOM	3803	N	VAL	207	198.368	154.296	10.942	1.00	94.28	CS3	ATOM	3856	C	ARG	6	255.601	126.401	3.377	1.00	79.50	VTI
ATOM	3804	CA	VAL	207	199.479	155.271	10.966	1.00	94.28	CS3	ATOM	3857	O	ARG	6	256.699	127.356	3.172	1.00	49.74	VTI
ATOM	3805	CB	VAL	207	198.956	156.726	10.755	1.00	66.20	CS3	ATOM	3858	N	THR	7	254.881	128.426	2.190	1.00	49.74	VTI
ATOM	3806	CG1	VAL	207	200.110	157.730	10.877	1.00	66.20	CS3	ATOM	3859	CB	THR	7	254.410	128.009	0.752	1.00	61.36	VTI
ATOM	3807	CG2	VAL	207	198.286	156.846	9.386	1.00	66.20	CS3	ATOM	3860	CB	THR	7	253.095	127.435	0.794	1.00	61.36	VTI
ATOM	3808	C	VAL	207	200.408	155.271	12.189	1.00	94.28	CS3	ATOM	3861	O	THR	7	255.365	127.008	0.166	1.00	61.36	VTI
ATOM	3809	O	VAL	207	199.916	155.113	13.325	1.00	94.28	CS3	ATOM	3862	CG2	THR	7	254.102	129.663	2.667	1.00	49.74	VTI
ATOM	3810	O	XTL	207	201.632	155.455	11.988	1.00	66.20	CS3	ATOM	3863	C	THR	7	253.359	129.596	3.647	1.00	49.74	VTI
ATOM	3811	C	GLY	1	249.054	126.672	-1.907	1.00	58.92	VTHX	ATOM	3864	N	ARG	8	253.281	130.791	1.990	1.00	68.27	VTI
ATOM	3812	O	GLY	1	249.672	126.378	-0.879	1.00	58.92	VTHX	ATOM	3865	CA	ARG	8	253.583	132.011	2.373	1.00	68.27	VTI
ATOM	3813	N	GLY	1	250.766	125.438	-3.200	1.00	58.92	VTHX	ATOM	3866	CB	ARG	8	253.917	133.133	1.382	1.00	119.50	VTI
ATOM	3814	CA	GLY	1	249.702	126.485	-3.259	1.00	58.92	VTHX	ATOM	3867	CG	ARG	8	253.622	134.539	1.881	1.00	119.50	VTI
ATOM	3815	N	LYS	2	247.812	127.150	-1.898	1.00	72.02	VTHX	ATOM	3868	CG	ARG	8	254.515	134.909	3.059	1.00	119.50	VTI
ATOM	3816	CA	LYS	2	247.093	127.384	-0.649	1.00	72.02	VTHX	ATOM	3869	CD	ARG	8	254.246	136.260	3.547	1.00	119.50	VTI
ATOM	3817	CB	LYS	2	245.616	127.689	-0.913	1.00	55.41	VTHX	ATOM	3870	NE	ARG	8	254.790	136.787	4.641	1.00	119.50	VTI
ATOM	3818	CD	LYS	2	245.360	128.998	-1.633	1.00	55.41	VTHX	ATOM	3871	C2	ARG	8	255.642	136.077	5.372	1.00	119.50	VTI
ATOM	3819	CE	LYS	2	243.877	129.200	-1.893	1.00	55.41	VTHX	ATOM	3872	NH1	ARG	8	252.070	131.749	2.385	1.00	68.27	VTI
ATOM	3820	CE	LYS	2	242.188	130.399	-3.364	1.00	55.41	VTHX	ATOM	3873	NH2	ARG	8	251.420	131.843	3.433	1.00	68.27	VTI
ATOM	3821	NZ	LYS	2	242.186	126.192	0.285	1.00	72.02	VTHX	ATOM	3874	C	ARG	8	251.526	131.403	1.216	1.00	65.13	VTI
ATOM	3822	C	LYS	2	246.873	126.297	1.468	1.00	40.92	VTHX	ATOM	3875	O	ARG	9	249.781	130.823	-0.396	1.00	85.82	VTI
ATOM	3823	O	LYS	2	247.632	125.059	-0.238	1.00	40.92	VTHX	ATOM	3876	N	ARG	9	249.919	132.042	-1.267	1.00	85.82	VTI
ATOM	3824	N	GLY	3	249.094	122.666	0.650	1.00	66.01	VTHX	ATOM	3877	CA	ARG	9	249.376	133.130	-4.771	1.00	85.82	VTI
ATOM	3825	CA	GLY	3	247.715	123.877	0.592	1.00	40.92	VTHX	ATOM	3878	CB	ARG	9	249.666	133.020	-3.478	1.00	85.82	VTI
ATOM	3826	C	GLY	3	249.058	123.493	1.173	1.00	40.92	VTHX	ATOM	3879	CG	ARG	9	249.546	131.788	-2.702	1.00	85.82	VTI
ATOM	3827	O	GLY	3	250.154	124.044	0.650	1.00	66.01	VTHX	ATOM	3880	CD	ARG	9	249.919	132.042	-1.267	1.00	85.82	VTI
ATOM	3828	N	ASP	4	251.496	123.724	1.158	1.00	66.01	VTHX	ATOM	3881	NE	ARG	9	249.376	133.130	-4.771	1.00	85.82	VTI
ATOM	3829	CA	ASP	4	252.568	124.210	0.181	1.00	121.64	VTHX	ATOM	3882	C2	ARG	9	249.919	132.042	-1.267	1.00	85.82	VTI
ATOM	3830	CB	ASP	4	253.938	123.623	0.476	1.00	121.64	VTHX	ATOM	3883	NH1	ARG	9	249.520	134.298	-5.385	1.00	85.82	VTI
ATOM	3831	CG	ASP	4	254.269	123.450	1.669	1.00	121.64	VTHX	ATOM	3884	NH2	ARG	9	249.633	129.992	1.951	1.00	65.13	VTI
ATOM	3832	OD1	ASP	4	254.686	123.348	-0.489	1.00	121.64	VTHX	ATOM	3885	C	ARG	9	250.441	128.950	2.052	1.00	64.76	VTI
ATOM	3833	OD2	ASP	4	251.673	124.436	2.495	1.00	66.01	VTHX	ATOM	3886	O	ARG	9						VTI
ATOM	3834	C	ASP	4						VTHX	ATOM	3887	N	GLY	10						VTI

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ATOM	3888	CA	GLY	10	250.072	127.834	2.896	1.00	64.76	VTX	ATOM	3941	CG2	THR	16	248.191	128.630	11.559	1.00	55.88	VTF
ATOM	3889	C	GLY	10	249.845	128.289	4.324	1.00	64.76	VTX	ATOM	3942	C	THR	16	250.350	131.649	10.653	1.00	68.42	VTF
ATOM	3890	GLY	10	249.007	127.737	5.038	1.00	64.76	VTX	ATOM	3943	O	THR	16	250.439	132.352	9.637	1.00	68.42	VTF	
ATOM	3891	N	LYS	11	250.593	129.301	4.750	1.00	73.06	VTX	ATOM	3944	N	TYR	17	251.340	131.477	11.523	1.00	66.14	VTF
ATOM	3892	CA	LYS	11	250.458	129.813	6.107	1.00	73.06	VTX	ATOM	3945	CA	TYR	17	252.641	132.089	11.366	1.00	66.14	VTF
ATOM	3893	CB	LYS	11	251.741	130.542	6.533	1.00	44.74	VTX	ATOM	3946	CB	TYR	17	252.775	133.287	12.287	1.00	50.40	VTF
ATOM	3894	CG	LYS	11	252.559	129.809	7.600	1.00	44.74	VTX	ATOM	3947	CG	TYR	17	251.821	134.398	11.961	1.00	50.40	VTF
ATOM	3895	CD	LYS	11	252.908	128.403	7.147	1.00	44.74	VTX	ATOM	3948	CD1	TYR	17	250.578	134.475	12.577	1.00	50.40	VTF
ATOM	3896	CE	LYS	11	253.917	127.729	8.059	1.00	44.74	VTX	ATOM	3949	CE1	TYR	17	249.698	135.508	12.285	1.00	50.40	VTF
ATOM	3897	NZ	LYS	11	253.368	127.469	9.402	1.00	44.74	VTX	ATOM	3950	CD2	TYR	17	252.164	135.382	11.035	1.00	50.40	VTF
ATOM	3898	LYS	11	249.260	130.748	6.193	1.00	73.06	VTX	ATOM	3951	CE2	TYR	17	251.295	136.419	10.730	1.00	50.40	VTF	
ATOM	3899	O	LYS	11	248.485	130.689	7.144	1.00	73.06	VTX	ATOM	3952	C2	TYR	17	250.061	136.479	11.361	1.00	50.40	VTF
ATOM	3900	N	ILE	12	249.113	131.605	5.190	1.00	45.07	VTX	ATOM	3953	OH	TYR	17	249.199	137.515	11.079	1.00	50.40	VTF
ATOM	3901	CA	ILE	12	248.001	132.544	5.153	1.00	45.07	VTX	ATOM	3954	C	TYR	17	253.696	131.071	11.721	1.00	66.14	VTF
ATOM	3902	CB	ILE	12	248.059	133.439	3.899	1.00	36.63	VTX	ATOM	3955	O	TYR	17	253.455	130.166	12.520	1.00	66.14	VTF
ATOM	3903	CG2	ILE	12	246.855	134.363	3.857	1.00	36.63	VTX	ATOM	3956	N	GLY	18	254.869	131.226	11.122	1.00	75.01	VTF
ATOM	3904	CG1	ILE	12	249.350	134.246	3.890	1.00	36.63	VTX	ATOM	3957	CA	GLY	18	255.962	130.310	11.379	1.00	75.01	VTF
ATOM	3905	CD1	ILE	12	249.499	135.114	2.660	1.00	36.63	VTX	ATOM	3958	C	GLY	18	257.186	130.749	10.609	1.00	75.01	VTF
ATOM	3906	C	ILE	12	246.674	131.797	5.119	1.00	45.07	VTX	ATOM	3959	O	GLY	18	257.321	131.924	10.264	1.00	75.01	VTF
ATOM	3907	O	ILE	12	245.720	132.177	5.793	1.00	45.07	VTX	ATOM	3960	N	LYS	19	258.080	129.811	10.323	1.00	75.98	VTF
ATOM	3908	N	TRP	13	246.618	130.739	4.319	1.00	68.82	VTX	ATOM	3961	CA	LYS	19	259.279	130.164	9.595	1.00	75.98	VTF
ATOM	3909	CA	TRP	13	245.405	129.950	4.177	1.00	68.82	VTX	ATOM	3962	CB	LYS	19	260.248	128.983	9.522	1.00	74.03	VTF
ATOM	3910	CB	TRP	13	245.613	128.838	3.153	1.00	63.05	VTX	ATOM	3963	CG	LYS	19	261.608	129.389	8.952	1.00	74.03	VTF
ATOM	3911	CG	TRP	13	244.336	128.186	2.713	1.00	63.05	VTX	ATOM	3964	CD	LYS	19	262.654	128.293	9.053	1.00	74.03	VTF
ATOM	3912	CD2	TRP	13	243.751	126.995	3.250	1.00	63.05	VTX	ATOM	3965	CE	LYS	19	262.454	127.233	8.000	1.00	74.03	VTF
ATOM	3913	CE2	TRP	13	242.549	126.771	2.554	1.00	63.05	VTX	ATOM	3966	NZ	LYS	19	263.559	126.253	8.076	1.00	74.03	VTF
ATOM	3914	CE3	TRP	13	244.127	126.095	4.255	1.00	63.05	VTX	ATOM	3967	C	LYS	19	258.954	130.636	8.191	1.00	75.98	VTF
ATOM	3915	CD1	TRP	13	243.488	128.624	1.740	1.00	63.05	VTX	ATOM	3968	O	LYS	19	259.793	131.259	7.542	1.00	75.98	VTF
ATOM	3916	NE1	TRP	13	242.413	127.780	1.638	1.00	63.05	VTX	ATOM	3969	N	TYR	20	257.738	130.359	7.723	1.00	91.93	VTF
ATOM	3917	C22	TRP	13	241.720	125.688	2.827	1.00	63.05	VTX	ATOM	3970	CA	TYR	20	257.358	130.754	6.373	1.00	91.93	VTF
ATOM	3918	C23	TRP	13	243.303	125.018	4.527	1.00	63.05	VTX	ATOM	3971	CB	TYR	20	256.745	129.571	5.654	1.00	54.49	VTF
ATOM	3919	CH2	TRP	13	242.114	124.823	3.815	1.00	63.05	VTX	ATOM	3972	CG	TYR	20	257.740	128.457	5.489	1.00	54.49	VTF
ATOM	3920	C	TRP	13	245.028	129.333	5.507	1.00	68.82	VTX	ATOM	3973	CD1	TYR	20	257.868	127.464	6.461	1.00	54.49	VTF
ATOM	3921	O	TRP	13	243.860	129.332	5.897	1.00	68.82	VTX	ATOM	3974	CE1	TYR	20	258.854	126.483	6.360	1.00	54.49	VTF
ATOM	3922	N	ARG	14	246.021	128.793	6.198	1.00	54.91	VTX	ATOM	3975	CD2	TYR	20	258.621	128.439	4.402	1.00	54.49	VTF
ATOM	3923	CA	ARG	14	245.766	128.173	7.484	1.00	54.91	VTX	ATOM	3976	CE2	TYR	20	259.613	127.467	4.294	1.00	54.49	VTF
ATOM	3924	CB	ARG	14	246.840	127.128	7.792	1.00	61.75	VTX	ATOM	3977	C2	TYR	20	259.725	126.496	5.278	1.00	54.49	VTF
ATOM	3925	CG	ARG	14	246.497	125.727	7.334	1.00	61.75	VTX	ATOM	3978	OH	TYR	20	260.735	125.564	6.241	1.00	54.49	VTF
ATOM	3926	CD	ARG	14	247.560	124.778	7.830	1.00	61.75	VTX	ATOM	3979	C	TYR	20	256.454	131.966	5.210	1.00	91.93	VTF
ATOM	3927	NE	ARG	14	247.173	123.365	7.803	1.00	61.75	VTX	ATOM	3980	O	TYR	20	256.227	132.463	5.139	1.00	91.93	VTF
ATOM	3928	CZ	ARG	14	247.982	122.365	8.166	1.00	61.75	VTX	ATOM	3981	N	ARG	21	255.943	132.443	7.366	1.00	93.46	VTF
ATOM	3929	NH1	ARG	14	249.218	122.614	8.578	1.00	61.75	VTX	ATOM	3982	CA	ARG	21	255.088	133.620	7.384	1.00	93.46	VTF
ATOM	3930	NH2	ARG	14	247.554	121.111	8.130	1.00	61.75	VTX	ATOM	3983	CB	ARG	21	253.621	133.235	7.176	1.00	56.34	VTF
ATOM	3931	C	ARG	14	245.699	129.214	8.600	1.00	54.91	VTX	ATOM	3984	CG	ARG	21	252.672	134.425	7.697	1.00	56.34	VTF
ATOM	3932	O	ARG	14	245.504	128.872	9.768	1.00	54.91	VTX	ATOM	3985	CD	ARG	21	251.259	134.095	7.459	1.00	56.34	VTF
ATOM	3933	N	GLY	15	245.852	130.484	8.234	1.00	69.21	VTX	ATOM	3986	NE	ARG	21	250.318	135.187	7.224	1.00	56.34	VTF
ATOM	3934	CA	GLY	15	245.802	131.556	9.216	1.00	69.21	VTX	ATOM	3987	CZ	ARG	21	249.079	135.221	7.711	1.00	56.34	VTF
ATOM	3935	C	GLY	15	246.779	131.354	10.358	1.00	69.21	VTX	ATOM	3988	NH1	ARG	21	248.625	134.222	8.467	1.00	56.34	VTF
ATOM	3936	O	GLY	15	246.411	131.407	11.530	1.00	69.21	VTX	ATOM	3989	NH2	ARG	21	248.289	136.251	7.434	1.00	56.34	VTF
ATOM	3937	N	THR	16	248.037	131.114	11.009	1.00	68.42	VTX	ATOM	3990	C	ARG	21	255.281	134.177	8.779	1.00	93.46	VTF
ATOM	3938	CA	THR	16	249.068	130.905	11.007	1.00	68.42	VTX	ATOM	3991	O	ARG	21	254.374	134.134	9.606	1.00	93.46	VTF
ATOM	3939	CB	THR	16	249.409	129.415	11.156	1.00	55.88	VTX	ATOM	3992	N	PRO	22	256.483	134.693	9.067	1.00	101.16	VTF
ATOM	3940	OG1	THR	16	249.895	128.916	9.908	1.00	55.88	VTX	ATOM	3993	CD	PRO	22	257.644	134.834	8.176	1.00	68.58	VTF

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ATOM	3994	CA	PRO	22	256.771	135.248	10.391	1.00116.10	VTXHX	ATOM	4047	CG2	ILE	4	107.542	76.464	11.136	1.00	35.36	PS1	
ATOM	3995	CB	PRO	22	258.256	135.601	10.305	1.00	68.58	VTXHX	ATOM	4048	CG1	ILE	4	106.582	75.350	9.085	1.00	35.36	PS1
ATOM	3996	CD	PRO	22	258.771	134.750	9.154	1.00	68.58	VTXHX	ATOM	4049	CD1	ILE	4	105.150	75.861	9.312	1.00	35.36	PS1
ATOM	3997	C	PRO	22	255.904	136.467	10.672	1.00116.10	VTXHX	ATOM	4050	C	ILE	4	109.534	74.220	11.249	1.00	38.96	PS1	
ATOM	3998	O	PRO	22	255.287	137.019	9.759	1.00116.10	VTXHX	ATOM	4051	O	ILE	4	108.998	73.466	12.055	1.00	38.96	PS1	
ATOM	3999	N	ARG	23	255.856	136.882	11.935	1.00	98.48	VTXHX	ATOM	4052	N	ARG	5	110.768	74.680	11.404	1.00	39.16	PS1
ATOM	4000	CA	ARG	23	255.064	138.043	12.326	1.00	98.48	VTXHX	ATOM	4053	CA	ARG	5	111.550	74.298	12.575	1.00	39.16	PS1
ATOM	4001	CB	ARG	23	255.112	138.213	13.838	1.00104.12	VTXHX	ATOM	4054	CB	ARG	5	112.338	73.021	12.270	1.00	55.46	PS1	
ATOM	4002	CG	ARG	23	254.432	137.093	14.566	1.00104.12	VTXHX	ATOM	4055	CG	ARG	5	113.513	73.227	11.341	1.00	55.46	PS1	
ATOM	4003	CD	ARG	23	252.986	136.994	14.140	1.00104.12	VTXHX	ATOM	4056	CD	ARG	5	113.873	72.945	10.630	1.00	55.46	PS1	
ATOM	4004	NE	ARG	23	252.335	135.862	14.783	1.00104.12	VTXHX	ATOM	4057	NE	ARG	5	115.169	72.024	9.958	1.00	55.46	PS1	
ATOM	4005	CZ	ARG	23	252.092	135.784	16.087	1.00104.12	VTXHX	ATOM	4058	CZ	ARG	5	115.572	71.192	8.998	1.00	55.46	PS1	
ATOM	4006	NH1	ARG	23	252.441	136.784	16.887	1.00104.12	VTXHX	ATOM	4059	NH1	ARG	5	114.783	70.209	8.584	1.00	55.46	PS1	
ATOM	4007	NH2	ARG	23	251.518	134.699	16.595	1.00104.12	VTXHX	ATOM	4060	NH2	ARG	5	116.768	71.346	8.450	1.00	55.46	PS1	
ATOM	4008	C	ARG	23	255.525	139.329	11.643	1.00	98.48	VTXHX	ATOM	4061	C	ARG	5	112.515	75.379	13.018	1.00	39.16	PS1
ATOM	4009	O	ARG	23	254.696	140.110	11.172	1.00	98.48	VTXHX	ATOM	4062	O	ARG	5	112.551	76.461	12.444	1.00	39.16	PS1
ATOM	4010	N	LVS	24	256.844	139.534	11.611	1.00128.87	VTXHX	ATOM	4063	N	LEU	6	113.299	75.063	14.038	1.00	48.70	PS1	
ATOM	4011	CA	LVS	24	257.492	140.693	10.980	1.00128.87	VTXHX	ATOM	4064	CA	LEU	6	114.287	75.986	14.568	1.00	48.70	PS1	
ATOM	4012	CB	LVS	24	256.638	141.958	11.121	1.00124.00	VTXHX	ATOM	4065	CB	LEU	6	114.432	75.782	16.078	1.00	52.65	PS1	
ATOM	4013	CG	LVS	24	255.760	142.230	9.908	1.00124.00	VTXHX	ATOM	4066	CG	LEU	6	113.303	76.344	16.946	1.00	52.65	PS1	
ATOM	4014	CD	LVS	24	254.916	143.469	10.092	1.00124.00	VTXHX	ATOM	4067	CD1	LEU	6	111.955	75.867	16.423	1.00	52.65	PS1	
ATOM	4015	CE	LVS	24	254.059	143.715	8.867	1.00124.00	VTXHX	ATOM	4068	CD2	LEU	6	113.522	75.930	18.391	1.00	52.65	PS1	
ATOM	4016	NZ	LVS	24	253.304	144.991	8.983	1.00124.00	VTXHX	ATOM	4069	C	LEU	6	115.645	75.801	13.890	1.00	48.70	PS1	
ATOM	4017	C	LVS	24	258.888	140.962	11.537	1.00128.87	VTXHX	ATOM	4070	O	LEU	6	115.953	74.717	13.388	1.00	48.70	PS1	
ATOM	4018	O	LVS	24	259.302	140.231	12.460	1.00128.87	VTXHX	ATOM	4071	N	ALA	7	116.441	76.871	13.867	1.00	36.37	PS1	
ATOM	4019	CG	LVS	24	259.553	141.898	11.040	1.00152.93	VTXHX	ATOM	4072	CA	ALA	7	117.778	76.855	13.270	1.00	36.37	PS1	
ATOM	4020	CB	MET	1	108.430	66.330	3.916	1.00	56.67	PS16	ATOM	4073	CB	ALA	7	117.765	77.617	11.984	1.00	9.90	PS1
ATOM	4021	CG	MET	1	107.179	66.876	4.555	1.00	56.67	PS16	ATOM	4074	C	ALA	7	118.740	77.504	14.259	1.00	36.37	PS1
ATOM	4022	SD	MET	1	106.867	66.033	6.107	1.00	56.67	PS16	ATOM	4075	O	ALA	7	118.623	78.687	14.582	1.00	36.37	PS1
ATOM	4023	CE	MET	1	108.193	66.733	7.106	1.00	56.67	PS16	ATOM	4076	N	ARG	8	119.683	76.724	14.761	1.00	61.71	PS1
ATOM	4024	C	MET	1	109.422	68.581	3.634	1.00	77.35	PS16	ATOM	4077	CA	ARG	8	120.636	77.236	15.733	1.00	61.71	PS1
ATOM	4025	O	MET	1	110.270	68.602	4.524	1.00	77.35	PS16	ATOM	4078	CB	ARG	8	121.625	76.150	16.124	1.00	48.05	PS1
ATOM	4026	N	MET	1	110.336	66.686	2.392	1.00	77.35	PS16	ATOM	4079	CG	ARG	8	121.560	75.754	17.562	1.00	48.05	PS1
ATOM	4027	CA	MET	1	109.080	67.282	2.927	1.00	77.35	PS16	ATOM	4080	CD	ARG	8	122.413	76.637	18.442	1.00	48.05	PS1
ATOM	4028	N	VAL	2	109.749	69.657	3.243	1.00	52.59	PS16	ATOM	4081	NE	ARG	8	122.452	76.094	19.796	1.00	48.05	PS1
ATOM	4029	CA	VAL	2	109.004	70.971	3.820	1.00	52.59	PS16	ATOM	4082	CZ	ARG	8	123.412	76.357	20.674	1.00	48.05	PS1
ATOM	4030	CB	VAL	2	108.346	72.069	2.970	1.00	59.16	PS16	ATOM	4083	NH1	ARG	8	124.414	77.163	20.331	1.00	48.05	PS1
ATOM	4031	CG1	VAL	2	107.015	71.569	2.432	1.00	59.16	PS16	ATOM	4084	NH2	ARG	8	123.387	75.802	21.882	1.00	48.05	PS1
ATOM	4032	CG2	VAL	2	108.165	73.334	3.797	1.00	59.16	PS16	ATOM	4085	C	ARG	8	121.398	78.407	15.173	1.00	61.71	PS1
ATOM	4033	C	VAL	2	108.546	71.095	5.262	1.00	52.59	PS16	ATOM	4086	O	ARG	8	122.163	78.255	14.223	1.00	61.71	PS1
ATOM	4034	O	VAL	2	107.417	70.743	5.604	1.00	52.59	PS16	ATOM	4087	N	PHE	9	121.197	79.579	15.761	1.00	49.33	PS1
ATOM	4035	N	LVS	3	109.435	71.606	6.105	1.00	44.06	PS16	ATOM	4088	CA	PHE	9	121.904	80.760	15.301	1.00	49.33	PS1
ATOM	4036	CA	LVS	3	109.133	71.769	7.515	1.00	44.06	PS16	ATOM	4089	CB	PHE	9	120.953	81.686	14.563	1.00	46.65	PS1
ATOM	4037	CB	LVS	3	110.052	70.875	8.339	1.00	63.83	PS16	ATOM	4090	CG	PHE	9	121.065	81.587	13.093	1.00	46.65	PS1
ATOM	4038	CG	LVS	3	109.795	69.391	8.203	1.00	63.83	PS16	ATOM	4091	CD1	PHE	9	122.068	82.258	12.425	1.00	46.65	PS1
ATOM	4039	CD	LVS	3	110.286	68.710	9.466	1.00	63.83	PS16	ATOM	4092	CD2	PHE	9	120.201	80.781	12.375	1.00	46.65	PS1
ATOM	4040	CE	LVS	3	110.497	67.225	9.285	1.00	63.83	PS16	ATOM	4093	CE1	PHE	9	122.213	82.133	11.053	1.00	46.65	PS1
ATOM	4041	NZ	LVS	3	111.212	66.646	10.461	1.00	63.83	PS16	ATOM	4094	CE2	PHE	9	120.330	80.641	11.001	1.00	46.65	PS1
ATOM	4042	C	LVS	3	109.231	73.195	8.068	1.00	44.06	PS16	ATOM	4095	CZ	PHE	9	121.343	81.319	10.336	1.00	46.65	PS1
ATOM	4043	O	LVS	3	109.718	74.116	7.412	1.00	44.06	PS16	ATOM	4096	C	PHE	9	122.576	81.514	16.424	1.00	49.33	PS1
ATOM	4044	N	ILE	4	108.737	73.362	9.288	1.00	38.96	PS16	ATOM	4097	O	PHE	9	123.235	82.523	16.187	1.00	49.33	PS1
ATOM	4045	CA	ILE	4	108.803	74.630	9.994	1.00	38.96	PS16	ATOM	4098	N	GLY	10	122.436	81.018	17.645	1.00	31.91	PS1
ATOM	4046	CB	ILE	4	107.412	75.160	10.363	1.00	35.36	PS16	ATOM	4099	CA	GLY	10	123.033	81.718	18.763	1.00	31.91	PS1

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ATOM	4100	C	GLY	10	124.546	81.810	18.755	1.00	31.91	PS16	ATOM	4153	CA	TYR	17	116.942	79.877	17.050	1.00	39.90	PS
ATOM	4101	O	GLY	10	125.161	82.480	17.925	1.00	31.91	PS16	ATOM	4154	CB	TYR	17	116.056	78.719	17.487	1.00	60.15	PS
ATOM	4102	M	SER	11	125.129	81.124	19.727	1.00	58.11	PS16	ATOM	4155	CG	TYR	17	116.721	77.816	18.485	1.00	60.15	PS
ATOM	4103	CA	SER	11	126.562	81.047	19.928	1.00	58.11	PS16	ATOM	4156	CD1	TYR	17	116.963	78.243	19.787	1.00	60.15	PS
ATOM	4104	CB	SER	11	127.146	82.421	20.187	1.00	42.61	PS16	ATOM	4157	CE1	TYR	17	117.578	77.410	20.719	1.00	60.15	PS
ATOM	4105	OG	SER	11	126.621	82.933	21.385	1.00	42.61	PS16	ATOM	4158	CD2	TYR	17	117.114	76.534	19.134	1.00	60.15	PS
ATOM	4106	C	SER	11	126.690	80.180	21.168	1.00	58.11	PS16	ATOM	4159	CE2	TYR	17	117.730	75.692	18.058	1.00	60.15	PS
ATOM	4107	O	SER	11	125.694	79.873	21.819	1.00	58.11	PS16	ATOM	4160	CZ	TYR	17	117.957	76.135	20.348	1.00	60.15	PS
ATOM	4108	N	LYS	12	127.908	79.786	21.503	1.00	59.78	PS16	ATOM	4161	OH	TYR	17	118.551	75.297	21.263	1.00	60.15	PS
ATOM	4109	CA	LYS	12	128.103	78.915	22.646	1.00	59.78	PS16	ATOM	4162	C	TYR	17	116.176	80.788	16.111	1.00	39.90	PS
ATOM	4110	CG	LYS	12	129.589	78.712	22.900	1.00	50.87	PS16	ATOM	4163	O	TYR	17	115.806	81.901	14.477	1.00	39.90	PS
ATOM	4111	CG	LYS	12	130.005	77.288	23.228	1.00	50.87	PS16	ATOM	4164	N	ARG	18	115.956	80.313	14.891	1.00	44.11	PS
ATOM	4112	CD	LYS	12	131.350	77.349	23.927	1.00	50.87	PS16	ATOM	4165	CA	ARG	18	115.210	81.067	13.902	1.00	44.11	PS
ATOM	4113	CE	LYS	12	132.274	76.222	23.544	1.00	50.87	PS16	ATOM	4166	CB	ARG	18	116.091	81.473	12.725	1.00	57.71	PS
ATOM	4114	N2	LYS	12	133.597	76.422	24.211	1.00	50.87	PS16	ATOM	4167	CG	ARG	18	116.993	82.638	12.972	1.00	57.71	PS
ATOM	4115	C	LYS	12	127.426	79.458	23.896	1.00	59.78	PS16	ATOM	4168	CD	ARG	18	117.601	83.113	11.665	1.00	57.71	PS
ATOM	4116	O	LYS	12	127.691	80.581	24.338	1.00	59.78	PS16	ATOM	4169	NE	ARG	18	118.527	84.227	11.864	1.00	57.71	PS
ATOM	4117	N	HIS	13	126.543	78.637	24.453	1.00	67.22	PS16	ATOM	4170	CZ	ARG	18	119.205	84.821	10.886	1.00	57.71	PS
ATOM	4118	CA	HIS	13	125.801	78.977	25.654	1.00	67.22	PS16	ATOM	4171	NH1	ARG	18	119.064	84.414	9.632	1.00	57.71	PS
ATOM	4119	CB	HIS	13	126.757	79.171	26.823	1.00	82.60	PS16	ATOM	4172	NH2	ARG	18	120.027	85.819	11.162	1.00	57.71	PS
ATOM	4120	CG	HIS	13	127.439	77.910	27.239	1.00	82.60	PS16	ATOM	4173	C	ARG	18	114.105	80.192	13.366	1.00	44.11	PS
ATOM	4121	CD2	HIS	13	128.750	77.617	27.410	1.00	82.60	PS16	ATOM	4174	O	ARG	18	114.368	79.279	12.595	1.00	44.11	PS
ATOM	4122	ND1	HIS	13	126.746	76.752	27.519	1.00	82.60	PS16	ATOM	4175	N	ILE	19	112.871	80.452	13.768	1.00	33.73	PS
ATOM	4123	CE1	HIS	13	127.601	75.798	27.844	1.00	82.60	PS16	ATOM	4176	CA	ILE	19	111.750	79.664	13.265	1.00	33.73	PS
ATOM	4124	NE2	HIS	13	128.930	76.298	27.785	1.00	82.60	PS16	ATOM	4177	CB	ILE	19	110.419	80.184	13.842	1.00	47.72	PS
ATOM	4125	C	HIS	13	124.466	80.199	25.496	1.00	67.22	PS16	ATOM	4178	CG2	ILE	19	109.240	79.626	13.061	1.00	47.72	PS
ATOM	4126	O	HIS	13	124.930	80.753	26.482	1.00	67.22	PS16	ATOM	4179	CG1	ILE	19	110.366	79.830	15.332	1.00	47.72	PS
ATOM	4127	N	ASN	14	124.699	80.601	24.252	1.00	35.64	PS16	ATOM	4180	CD1	ILE	19	109.092	80.216	16.025	1.00	47.72	PS
ATOM	4128	CA	ASN	14	123.877	81.770	23.941	1.00	35.64	PS16	ATOM	4181	C	ILE	19	111.799	79.793	11.747	1.00	33.73	PS
ATOM	4129	CG	ASN	14	124.971	82.998	23.698	1.00	83.85	PS16	ATOM	4182	O	ILE	19	111.591	80.869	11.193	1.00	33.73	PS
ATOM	4130	CB	ASN	14	123.971	84.285	23.570	1.00	83.85	PS16	ATOM	4183	N	VAL	20	112.055	78.676	11.084	1.00	50.10	PS
ATOM	4131	OD1	ASN	14	123.107	84.579	24.397	1.00	83.85	PS16	ATOM	4184	CA	VAL	20	112.238	78.673	9.648	1.00	50.10	PS
ATOM	4132	ND2	ASN	14	124.268	85.067	22.534	1.00	83.85	PS16	ATOM	4185	CB	VAL	20	113.718	78.423	9.387	1.00	37.21	PS
ATOM	4133	C	ASN	14	123.050	81.459	22.697	1.00	35.64	PS16	ATOM	4186	CG1	VAL	20	113.906	77.666	8.107	1.00	37.21	PS
ATOM	4134	O	ASN	14	123.031	82.222	21.731	1.00	35.64	PS16	ATOM	4187	CG2	VAL	20	114.456	79.735	9.388	1.00	37.21	PS
ATOM	4135	N	PRO	15	122.340	80.323	22.722	1.00	44.40	PS16	ATOM	4188	C	VAL	20	111.427	77.674	8.841	1.00	50.10	PS
ATOM	4136	CD	PRO	15	122.019	79.608	23.966	1.00	37.49	PS16	ATOM	4189	O	VAL	20	111.980	76.665	9.368	1.00	50.10	PS
ATOM	4137	CA	PRO	15	121.490	79.838	21.634	1.00	44.40	PS16	ATOM	4190	N	VAL	21	111.256	77.960	7.554	1.00	35.98	PS
ATOM	4138	CB	PRO	15	120.857	78.601	22.231	1.00	37.49	PS16	ATOM	4191	CA	VAL	21	110.544	77.062	6.646	1.00	35.98	PS
ATOM	4139	CG	PRO	15	120.664	79.031	23.638	1.00	37.49	PS16	ATOM	4192	CB	VAL	21	109.484	77.797	5.805	1.00	47.03	PS
ATOM	4140	C	PRO	15	120.437	80.846	21.271	1.00	44.40	PS16	ATOM	4193	CG1	VAL	21	108.888	76.850	4.762	1.00	47.03	PS
ATOM	4141	O	PRO	15	119.908	81.518	22.145	1.00	44.40	PS16	ATOM	4194	CG2	VAL	21	108.404	78.351	6.708	1.00	47.03	PS
ATOM	4142	N	HIS	16	120.139	80.935	19.980	1.00	38.39	PS16	ATOM	4195	C	VAL	21	111.949	76.505	5.673	1.00	35.98	PS
ATOM	4143	CA	HIS	16	119.119	81.831	19.438	1.00	38.39	PS16	ATOM	4196	O	VAL	21	111.576	77.180	4.716	1.00	35.98	PS
ATOM	4144	CB	HIS	16	119.696	83.214	19.104	1.00	58.21	PS16	ATOM	4197	N	THR	22	112.035	75.280	5.901	1.00	60.21	PS
ATOM	4145	CG	HIS	16	119.801	84.128	20.283	1.00	58.21	PS16	ATOM	4198	CA	THR	22	113.044	74.689	5.031	1.00	60.21	PS
ATOM	4146	CD2	HIS	16	119.006	85.144	20.696	1.00	58.21	PS16	ATOM	4199	CB	THR	22	115.406	74.598	5.784	1.00	53.47	PS
ATOM	4147	ND1	HIS	16	120.808	84.026	21.220	1.00	58.21	PS16	ATOM	4200	CG1	THR	22	114.290	74.077	4.907	1.00	53.47	PS
ATOM	4148	CE1	HIS	16	120.630	84.938	22.160	1.00	58.21	PS16	ATOM	4201	CG2	THR	22	114.290	73.716	7.012	1.00	53.47	PS
ATOM	4149	NE2	HIS	16	119.544	85.630	21.865	1.00	58.21	PS16	ATOM	4202	C	THR	22	112.624	73.307	4.543	1.00	60.21	PS
ATOM	4150	C	HIS	16	118.631	81.170	18.165	1.00	38.39	PS16	ATOM	4203	O	THR	22	111.527	72.850	4.840	1.00	60.21	PS
ATOM	4151	O	HIS	16	119.316	81.204	17.146	1.00	38.39	PS16	ATOM	4204	N	ASP	23	113.481	72.661	3.762	1.00	34.97	PS
ATOM	4152	N	TYR	17	117.453	80.566	18.217	1.00	39.90	PS16	ATOM	4205	CA	ASP	23	113.206	71.309	3.274	1.00	34.97	PS

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ATOM	4206	CB	ASP	23	113.887	71.094	1.908	1.00	43.04	PS16	ATOM	4259	N	ASP	29	121.207	74.178	10.044	1.00	40.22	PS.
ATOM	4207	CG	ASP	23	113.716	69.677	1.365	1.00	43.04	PS16	ATOM	4260	CA	ASP	29	121.681	75.555	9.950	1.00	40.22	PS.
ATOM	4208	OD1	ASP	23	114.258	68.712	1.954	1.00	43.04	PS16	ATOM	4261	CB	ASP	29	122.965	75.729	10.762	1.00	52.73	PS.
ATOM	4209	OD2	ASP	23	113.044	69.522	0.334	1.00	43.04	PS16	ATOM	4262	CG	ASP	29	122.718	75.731	12.260	1.00	52.73	PS1
ATOM	4210	C	ASP	23	113.794	70.377	4.358	1.00	34.97	PS16	ATOM	4263	OD1	ASP	29	123.711	75.805	13.017	1.00	52.73	PS1
ATOM	4211	O	ASP	23	114.880	70.627	4.875	1.00	34.97	PS16	ATOM	4264	OD2	ASP	29	121.538	75.669	12.681	1.00	52.73	PS1
ATOM	4212	N	ALA	24	113.071	69.315	4.704	1.00	44.37	PS16	ATOM	4265	C	ASP	29	121.942	75.997	8.522	1.00	40.22	PS1
ATOM	4213	CA	ALA	24	113.505	68.386	5.745	1.00	44.37	PS16	ATOM	4266	O	ASP	29	122.614	77.004	8.295	1.00	40.22	PS.
ATOM	4214	CB	ALA	24	112.587	67.173	5.768	1.00	44.37	PS16	ATOM	4267	N	GLY	30	121.399	75.249	7.566	1.00	54.67	PS.
ATOM	4215	C	ALA	24	114.946	67.935	5.611	1.00	44.37	PS16	ATOM	4268	CA	GLY	30	121.602	75.568	6.164	1.00	54.67	PS.
ATOM	4216	O	ALA	24	115.635	67.710	6.609	1.00	44.37	PS16	ATOM	4269	C	GLY	30	120.596	76.540	5.584	1.00	54.67	PS.
ATOM	4217	N	ARG	25	115.407	67.825	4.373	1.00	42.11	PS16	ATOM	4270	O	GLY	30	119.797	77.138	6.314	1.00	54.67	PS.
ATOM	4218	CA	ARG	25	116.757	67.356	4.091	1.00	42.11	PS16	ATOM	4271	N	LYS	31	120.628	76.683	4.260	1.00	40.81	PS.
ATOM	4219	CB	ARG	25	116.783	66.813	2.664	1.00	40.26	PS16	ATOM	4272	CA	LYS	31	119.737	77.593	3.548	1.00	40.81	PS.
ATOM	4220	CG	ARG	25	115.817	65.678	2.456	1.00	40.26	PS16	ATOM	4273	CB	LYS	31	120.087	77.630	2.057	1.00	57.15	PS.
ATOM	4221	CD	ARG	25	115.642	65.301	0.998	1.00	40.26	PS16	ATOM	4274	CG	LYS	31	119.122	78.480	1.248	1.00	57.15	PS.
ATOM	4222	NE	ARG	25	114.926	66.337	0.262	1.00	40.26	PS16	ATOM	4275	CD	LYS	31	119.587	78.704	-0.168	1.00	57.15	PS.
ATOM	4223	CZ	ARG	25	114.432	66.186	-0.963	1.00	40.26	PS16	ATOM	4276	CE	LYS	31	119.515	77.432	-0.979	1.00	57.15	PS.
ATOM	4224	NH1	ARG	25	114.567	65.028	-1.602	1.00	40.26	PS16	ATOM	4277	NZ	LYS	31	120.085	77.255	-2.356	1.00	40.81	PS1
ATOM	4225	NH2	ARG	25	113.812	67.204	-1.552	1.00	40.26	PS16	ATOM	4278	C	LYS	31	118.266	77.255	3.682	1.00	40.81	PS1
ATOM	4226	C	ARG	25	117.959	68.296	4.296	1.00	42.11	PS16	ATOM	4279	O	LYS	31	117.812	76.245	3.166	1.00	40.81	PS.
ATOM	4227	O	ARG	25	119.095	67.845	4.213	1.00	42.11	PS16	ATOM	4280	N	TYR	32	117.588	78.106	4.498	1.00	34.02	PS1
ATOM	4228	N	ARG	26	117.750	69.578	4.568	1.00	38.60	PS16	ATOM	4281	CA	TYR	32	116.085	77.867	4.365	1.00	34.02	PS1
ATOM	4229	CA	ARG	26	118.901	70.457	4.715	1.00	38.60	PS16	ATOM	4282	CB	TYR	32	115.560	78.392	5.823	1.00	46.90	PS1
ATOM	4230	CG	ARG	26	118.508	71.912	4.514	1.00	47.30	PS16	ATOM	4283	CD1	TYR	32	116.129	79.716	6.276	1.00	46.90	PS1
ATOM	4231	CD	ARG	26	118.396	72.266	3.078	1.00	47.30	PS16	ATOM	4284	CG1	TYR	32	117.224	79.763	7.141	1.00	46.90	PS1
ATOM	4232	CD	ARG	26	118.879	73.660	2.800	1.00	47.30	PS16	ATOM	4285	CE1	TYR	32	117.717	80.980	7.617	1.00	46.90	PS1
ATOM	4233	NE	ARG	26	118.591	73.963	1.406	1.00	47.30	PS16	ATOM	4286	CD2	TYR	32	115.543	80.920	5.885	1.00	46.90	PS1
ATOM	4234	CZ	ARG	26	119.935	73.550	0.389	1.00	47.30	PS16	ATOM	4287	CE2	TYR	32	116.030	82.143	6.350	1.00	46.90	PS1
ATOM	4235	NH1	ARG	26	120.424	72.833	0.622	1.00	47.30	PS16	ATOM	4288	CZ	TYR	32	117.112	82.165	7.216	1.00	46.90	PS1
ATOM	4236	NH2	ARG	26	118.955	73.814	-0.859	1.00	47.30	PS16	ATOM	4289	OH	TYR	32	117.574	83.364	7.699	1.00	34.02	PS1
ATOM	4237	C	ARG	26	119.607	70.355	6.029	1.00	38.60	PS16	ATOM	4290	C	TYR	32	115.322	78.521	3.362	1.00	34.02	PS1
ATOM	4238	O	ARG	26	119.127	69.697	6.934	1.00	38.60	PS16	ATOM	4291	N	TYR	32	115.882	79.299	2.587	1.00	34.02	PS1
ATOM	4239	N	LYS	27	120.770	70.993	6.120	1.00	47.60	PS16	ATOM	4292	O	ILE	33	114.034	78.200	3.270	1.00	39.73	PS1
ATOM	4240	CA	LYS	27	121.496	71.035	7.378	1.00	47.60	PS16	ATOM	4293	CA	ILE	33	113.165	78.732	2.220	1.00	39.73	PS1
ATOM	4241	CB	LYS	27	122.757	71.898	7.274	1.00	38.55	PS16	ATOM	4294	CB	ILE	33	111.973	77.789	1.973	1.00	36.15	PS1
ATOM	4242	CG	LYS	27	123.745	71.560	6.170	1.00	38.55	PS16	ATOM	4295	CG2	ILE	33	111.101	78.320	0.870	1.00	36.15	PS1
ATOM	4243	CD	LYS	27	124.967	72.487	6.274	1.00	38.55	PS16	ATOM	4296	CG1	ILE	33	112.490	76.410	1.569	1.00	36.15	PS1
ATOM	4244	CE	LYS	27	126.013	72.099	5.265	1.00	38.55	PS16	ATOM	4297	CD1	ILE	33	111.536	75.287	1.881	1.00	36.15	PS1
ATOM	4245	NZ	LYS	27	125.359	71.800	3.950	1.00	38.55	PS16	ATOM	4298	C	ILE	33	112.652	80.112	2.595	1.00	39.73	PS1
ATOM	4246	C	LYS	27	120.485	71.798	8.229	1.00	47.60	PS16	ATOM	4299	O	ILE	33	112.506	80.975	1.735	1.00	39.73	PS1
ATOM	4247	O	LYS	27	119.532	72.502	7.678	1.00	47.60	PS16	ATOM	4300	N	GLU	34	112.389	80.308	3.883	1.00	45.24	PS1
ATOM	4248	N	ARG	28	119.561	71.688	9.549	1.00	62.24	PS16	ATOM	4301	CA	GLU	34	111.910	81.578	4.397	1.00	45.24	PS1
ATOM	4249	CA	ARG	28	119.594	72.416	10.349	1.00	62.24	PS16	ATOM	4302	CB	GLU	34	110.459	81.797	4.025	1.00	48.45	PS1
ATOM	4250	CB	ARG	28	119.610	71.960	11.813	1.00	26.53	PS16	ATOM	4303	CG	GLU	34	109.942	83.136	4.475	1.00	48.45	PS1
ATOM	4251	CD	ARG	28	120.721	72.503	12.680	1.00	26.53	PS16	ATOM	4304	CD	GLU	34	108.462	83.316	4.191	1.00	48.45	PS1
ATOM	4252	CD	ARG	28	120.212	72.619	14.102	1.00	26.53	PS16	ATOM	4305	OE1	GLU	34	108.011	82.931	3.083	1.00	48.45	PS1
ATOM	4253	NE	ARG	28	121.209	72.288	15.123	1.00	26.53	PS16	ATOM	4306	OE2	GLU	34	107.755	83.855	5.074	1.00	48.45	PS1
ATOM	4254	CZ	ARG	28	122.358	72.934	15.306	1.00	26.53	PS16	ATOM	4307	C	GLU	34	112.021	81.617	5.904	1.00	45.24	PS1
ATOM	4255	NH1	ARG	28	122.668	73.962	14.532	1.00	26.53	PS16	ATOM	4308	O	GLU	34	111.998	80.577	6.563	1.00	45.24	PS1
ATOM	4256	NH2	ARG	28	123.200	72.553	16.260	1.00	26.53	PS16	ATOM	4309	N	LYS	35	112.153	82.818	6.452	1.00	66.72	PS1
ATOM	4257	C	ARG	28	119.925	73.890	10.256	1.00	62.24	PS16	ATOM	4310	CA	LYS	35	112.233	82.981	7.895	1.00	66.72	PS1
ATOM	4258	O	ARG	28	119.039	74.744	10.351	1.00	62.24	PS16	ATOM	4311	CB	LYS	35	113.276	84.028	8.267	1.00	46.63	PS1

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ATOM	4312	CG	LVS	35	113.488	84.166	9.764	1.00	46.63	PS16	ATOM	4365	CB	PRO	41	116.405	79.102	24.546	1.00	92.69	PS:
ATOM	4313	CD	LVS	35	114.512	85.250	10.106	1.00	46.63	PS16	ATOM	4366	CG	PRO	41	116.627	79.212	23.102	1.00	92.69	PS:
ATOM	4314	AB	LVS	35	114.826	85.264	11.602	1.00	46.63	PS16	ATOM	4367	C	PRO	41	115.328	80.616	26.218	1.00	57.46	PS:
ATOM	4315	NZ	LVS	35	115.821	86.306	12.019	1.00	46.63	PS16	ATOM	4368	O	PRO	41	114.539	80.218	27.070	1.00	57.46	PS:
ATOM	4316	C	LVS	35	110.858	83.464	8.300	1.00	66.72	PS16	ATOM	4369	N	ARG	42	116.269	81.512	26.467	1.00	58.83	PS:
ATOM	4317	O	LVS	35	110.277	84.310	7.627	1.00	66.72	PS16	ATOM	4370	CA	ARG	42	116.454	82.040	27.805	1.00	58.83	PS:
ATOM	4318	N	ILE	36	110.315	82.927	9.380	1.00	43.22	PS16	ATOM	4371	CB	ARG	42	117.950	82.155	28.070	1.00	52.25	PS:
ATOM	4319	CA	ILE	36	108.991	83.360	9.789	1.00	43.22	PS16	ATOM	4372	CG	ARG	42	118.680	80.900	27.646	1.00	52.25	PS:
ATOM	4320	CB	ILE	36	107.930	82.294	9.495	1.00	33.26	PS16	ATOM	4373	CD	ARG	42	120.112	80.956	28.020	1.00	52.25	PS:
ATOM	4321	CG2	ILE	36	107.794	82.105	7.992	1.00	33.26	PS16	ATOM	4374	NE	ARG	42	120.757	82.095	27.399	1.00	52.25	PS:
ATOM	4322	CG1	ILE	36	108.302	80.993	10.214	1.00	33.26	PS16	ATOM	4375	CZ	ARG	42	121.972	82.515	27.724	1.00	52.25	PS:
ATOM	4323	CD1	ILE	36	107.244	79.895	10.127	1.00	33.26	PS16	ATOM	4376	NH1	ARG	42	122.661	81.879	28.665	1.00	52.25	PS:
ATOM	4324	C	ILE	36	108.950	83.709	11.260	1.00	43.22	PS16	ATOM	4377	NH2	ARG	42	122.492	83.572	27.117	1.00	52.25	PS:
ATOM	4325	O	ILE	36	107.897	84.042	11.798	1.00	43.22	PS16	ATOM	4378	C	ARG	42	115.748	83.352	28.103	1.00	58.83	PS:
ATOM	4326	N	GLY	37	110.101	83.646	11.913	1.00	42.11	PS16	ATOM	4379	O	ARG	42	116.018	83.991	29.120	1.00	58.83	PS:
ATOM	4327	CA	GLY	37	110.133	84.000	13.317	1.00	42.11	PS16	ATOM	4380	N	LVS	43	114.833	83.739	27.224	1.00	69.88	PS:
ATOM	4328	C	GLY	37	111.474	83.710	13.935	1.00	42.11	PS16	ATOM	4381	CA	LVS	43	114.084	84.969	27.411	1.00	69.88	PS:
ATOM	4329	O	GLY	37	112.419	83.369	13.235	1.00	42.11	PS16	ATOM	4382	CB	LVS	43	112.912	84.732	28.365	1.00	54.55	PS:
ATOM	4330	N	TYR	38	111.556	83.860	15.248	1.00	57.35	PS16	ATOM	4383	CG	LVS	43	112.113	83.451	28.132	1.00	54.55	PS:
ATOM	4331	CA	TYR	38	112.776	83.578	15.972	1.00	57.35	PS16	ATOM	4384	CD	LVS	43	112.589	82.312	29.013	1.00	54.55	PS:
ATOM	4332	CB	TYR	38	113.745	84.760	15.894	1.00	58.46	PS16	ATOM	4385	CE	LVS	43	111.707	81.087	28.843	1.00	54.55	PS:
ATOM	4333	CG	TYR	38	113.258	86.059	16.490	1.00	58.46	PS16	ATOM	4386	NZ	LVS	43	112.244	79.955	29.653	1.00	54.55	PS:
ATOM	4334	CD1	TYR	38	113.243	86.254	17.871	1.00	58.46	PS16	ATOM	4387	C	LVS	43	114.992	86.037	28.012	1.00	69.88	PS:
ATOM	4335	CE1	TYR	38	112.854	87.474	18.424	1.00	58.46	PS16	ATOM	4388	O	LVS	43	114.704	86.557	29.094	1.00	69.88	PS:
ATOM	4336	CD2	TYR	38	112.863	87.117	15.670	1.00	58.46	PS16	ATOM	4389	N	THR	44	116.092	86.353	27.330	1.00	79.08	PS:
ATOM	4337	CE2	TYR	38	112.470	88.344	16.209	1.00	58.46	PS16	ATOM	4390	CA	THR	44	117.021	87.239	27.837	1.00	79.08	PS:
ATOM	4338	CZ	TYR	38	112.470	88.515	17.587	1.00	58.46	PS16	ATOM	4391	CB	THR	44	118.415	87.260	27.194	1.00	73.67	PS:
ATOM	4339	OH	TYR	38	112.102	89.727	18.129	1.00	58.46	PS16	ATOM	4392	OG1	THR	44	119.093	85.961	27.636	1.00	73.67	PS:
ATOM	4340	C	TYR	38	112.390	83.252	17.404	1.00	57.35	PS16	ATOM	4393	CG2	THR	44	118.288	87.229	25.769	1.00	73.67	PS:
ATOM	4341	O	TYR	38	111.267	83.515	17.829	1.00	57.35	PS16	ATOM	4394	C	THR	44	116.518	88.778	27.607	1.00	79.08	PS:
ATOM	4342	N	TYR	39	113.319	82.679	18.150	1.00	43.15	PS16	ATOM	4395	O	THR	44	117.117	89.740	28.090	1.00	79.08	PS:
ATOM	4343	CA	TYR	39	113.031	82.275	19.510	1.00	43.15	PS16	ATOM	4396	N	THR	45	115.425	88.903	26.862	1.00	64.02	PS:
ATOM	4344	CB	TYR	39	112.495	80.838	19.473	1.00	58.39	PS16	ATOM	4397	CA	THR	45	114.840	90.206	26.588	1.00	64.02	PS:
ATOM	4345	CG	TYR	39	112.529	80.103	20.793	1.00	58.39	PS16	ATOM	4398	CB	THR	45	115.286	90.729	25.234	1.00	65.12	PS:
ATOM	4346	CD1	TYR	39	111.753	79.838	23.063	1.00	58.39	PS16	ATOM	4399	OG1	THR	45	114.720	89.915	24.203	1.00	65.12	PS:
ATOM	4347	CE1	TYR	39	111.528	78.529	21.866	1.00	58.39	PS16	ATOM	4400	CG2	THR	45	116.806	90.689	25.139	1.00	65.12	PS:
ATOM	4348	CE2	TYR	39	113.308	78.712	23.199	1.00	58.39	PS16	ATOM	4401	C	THR	45	113.322	90.072	26.603	1.00	64.02	PS:
ATOM	4349	CEZ	TYR	39	112.526	78.014	24.363	1.00	58.39	PS16	ATOM	4402	O	THR	45	112.790	88.987	26.377	1.00	64.02	PS:
ATOM	4350	CZ	TYR	39	112.483	78.014	24.363	1.00	58.39	PS16	ATOM	4403	N	PRO	46	112.603	91.180	26.858	1.00	63.00	PS:
ATOM	4351	OH	TYR	39	114.257	82.353	20.403	1.00	43.15	PS16	ATOM	4404	CD	PRO	46	113.103	92.563	26.770	1.00	63.00	PS:
ATOM	4352	C	TYR	39	115.310	81.790	20.073	1.00	43.15	PS16	ATOM	4405	CA	PRO	46	111.138	91.179	26.910	1.00	63.00	PS:
ATOM	4353	N	ASP	40	114.121	83.052	21.529	1.00	49.65	PS16	ATOM	4406	CB	PRO	46	110.807	92.649	27.113	1.00	65.17	PS:
ATOM	4354	CA	ASP	40	115.217	83.179	22.491	1.00	49.65	PS16	ATOM	4407	CG	PRO	46	111.870	93.315	26.324	1.00	65.17	PS:
ATOM	4355	CB	ASP	40	115.375	84.629	22.927	1.00	60.61	PS16	ATOM	4408	C	PRO	46	110.524	90.633	25.640	1.00	63.00	PS:
ATOM	4356	CB	ASP	40	116.464	84.809	23.953	1.00	60.61	PS16	ATOM	4409	O	PRO	46	109.376	90.202	25.623	1.00	63.00	PS:
ATOM	4357	CG	ASP	40	116.657	85.956	24.415	1.00	60.61	PS16	ATOM	4410	N	ASP	47	111.308	90.662	24.573	1.00	78.00	PS:
ATOM	4358	OD1	ASP	40	117.121	83.806	24.295	1.00	60.61	PS16	ATOM	4411	CA	ASP	47	110.851	90.183	23.287	1.00	78.00	PS:
ATOM	4359	OD2	ASP	40	114.877	82.298	23.636	1.00	49.65	PS16	ATOM	4412	CB	ASP	47	111.081	91.262	22.236	1.00	109.05	PS:
ATOM	4360	C	ASP	40	114.108	82.688	24.572	1.00	49.65	PS16	ATOM	4413	CG	ASP	47	110.618	90.841	20.867	1.00	109.05	PS:
ATOM	4361	O	ASP	41	115.465	81.094	23.753	1.00	57.46	PS16	ATOM	4414	OD1	ASP	47	110.859	91.601	19.906	1.00	109.05	PS:
ATOM	4362	N	PRO	41	116.572	80.693	22.871	1.00	92.69	PS16	ATOM	4415	OD2	ASP	47	110.010	89.755	20.756	1.00	109.05	PS:
ATOM	4363	CD	PRO	41	115.274	80.091	24.802	1.00	57.46	PS16	ATOM	4416	C	ASP	47	111.606	88.922	22.901	1.00	78.00	PS:
ATOM	4364	CA	PRO	41						PS16	ATOM	4417	O	ASP	47	112.502	88.968	22.057	1.00	78.00	PS:

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ATOM	4418	N	TRP	48	111.246	87.794	23.508	1.00	53.73	PS16	ATOM	4471	N	GLU	54	100.934	85.114	10.385	1.00	63.24	PS1
ATOM	4419	CA	TRP	48	111.925	86.543	23.199	1.00	53.73	PS16	ATOM	4472	CA	GLU	54	100.313	85.109	9.074	1.00	63.24	PS1
ATOM	4420	CB	TRP	48	112.332	85.807	24.484	1.00	69.57	PS16	ATOM	4473	CB	GLU	54	100.282	86.509	8.467	1.00	63.52	PS1
ATOM	4421	CG	TRP	48	111.227	85.561	25.463	1.00	69.57	PS16	ATOM	4474	CG	GLU	54	99.531	86.517	7.147	1.00	63.52	PS1
ATOM	4422	CD	TRP	48	110.442	84.369	25.595	1.00	69.57	PS16	ATOM	4475	CD	GLU	54	98.295	85.619	7.194	1.00	63.52	PS1
ATOM	4423	CE	TRP	48	109.572	84.562	26.684	1.00	69.57	PS16	ATOM	4476	OE1	GLU	54	97.344	85.941	7.940	1.00	63.52	PS1
ATOM	4424	CE3	TRP	48	110.392	83.155	24.899	1.00	69.57	PS16	ATOM	4477	OE2	GLU	54	98.279	84.581	6.496	1.00	63.52	PS1
ATOM	4425	CD1	TRP	48	110.805	86.403	26.444	1.00	69.57	PS16	ATOM	4478	C	GLU	54	100.977	84.155	8.095	1.00	63.24	PS1
ATOM	4426	NE1	TRP	48	109.812	85.813	27.185	1.00	69.57	PS16	ATOM	4479	O	GLU	54	100.307	83.313	7.491	1.00	63.24	PS1
ATOM	4427	CE2	TRP	48	108.661	83.587	27.098	1.00	69.57	PS16	ATOM	4480	N	ARG	55	102.290	84.283	7.939	1.00	70.99	PS1
ATOM	4428	CB	TRP	48	109.484	82.184	25.314	1.00	69.57	PS16	ATOM	4481	CA	ARG	55	103.025	83.433	7.012	1.00	70.99	PS1
ATOM	4429	CH2	TRP	48	108.633	82.409	26.404	1.00	69.57	PS16	ATOM	4482	CB	ARG	55	104.459	83.912	6.900	1.00	49.51	PS1
ATOM	4430	C	TRP	48	111.183	85.579	22.281	1.00	53.73	PS16	ATOM	4483	CG	ARG	55	104.623	85.222	6.161	1.00	49.51	PS1
ATOM	4431	O	TRP	48	110.488	84.392	22.273	1.00	53.73	PS16	ATOM	4484	CD	ARG	55	105.166	84.976	4.769	1.00	49.51	PS1
ATOM	4432	N	LEU	49	109.508	85.193	20.583	1.00	58.49	PS16	ATOM	4485	NE	ARG	55	104.140	84.545	3.828	1.00	49.51	PS1
ATOM	4433	CA	LEU	49	108.741	84.118	21.360	1.00	36.79	PS16	ATOM	4486	CZ	ARG	55	104.408	83.890	2.707	1.00	49.51	PS1
ATOM	4434	CG	LEU	49	108.022	83.124	20.440	1.00	36.79	PS16	ATOM	4487	NH1	ARG	55	105.661	83.585	2.407	1.00	49.51	PS1
ATOM	4435	CG	LEU	49	108.995	82.045	20.027	1.00	36.79	PS16	ATOM	4488	NH2	ARG	55	103.433	83.572	1.871	1.00	49.51	PS1
ATOM	4436	CD1	LEU	49	106.828	82.511	21.139	1.00	36.79	PS16	ATOM	4489	C	ARG	55	103.011	81.961	7.398	1.00	70.99	PS1
ATOM	4437	CD2	LEU	49	108.536	85.881	19.632	1.00	58.49	PS16	ATOM	4490	O	ARG	55	102.865	81.091	6.535	1.00	70.99	PS1
ATOM	4438	C	LEU	49	107.400	86.171	19.995	1.00	41.62	PS16	ATOM	4491	N	ALA	56	103.183	81.674	8.684	1.00	63.20	PS1
ATOM	4439	O	LEU	49	108.995	86.136	18.408	1.00	41.62	PS16	ATOM	4492	CA	ALA	56	103.068	80.229	9.133	1.00	63.20	PS1
ATOM	4440	N	LYS	50	108.114	86.759	17.408	1.00	41.62	PS16	ATOM	4493	CB	ALA	56	101.911	79.641	8.519	1.00	63.20	PS1
ATOM	4441	CA	LYS	50	108.896	87.815	16.611	1.00	93.76	PS16	ATOM	4494	C	ALA	56	102.011	78.718	7.710	1.00	63.20	PS1
ATOM	4442	CG	LYS	50	108.169	88.294	15.334	1.00	93.76	PS16	ATOM	4495	O	ALA	56	100.748	80.160	8.906	1.00	56.20	PS1
ATOM	4443	CD	LYS	50	109.143	89.143	14.485	1.00	93.76	PS16	ATOM	4496	N	ARG	57	99.465	79.675	8.419	1.00	56.20	PS1
ATOM	4444	CE	LYS	50	108.702	89.248	13.026	1.00	93.76	PS16	ATOM	4497	CA	ARG	57	98.347	80.666	8.747	1.00	66.69	PS1
ATOM	4445	CE	LYS	50	108.797	87.955	12.275	1.00	93.76	PS16	ATOM	4498	CB	ARG	57	98.033	80.824	10.228	1.00	66.69	PS1
ATOM	4446	NZ	LYS	50	107.709	85.601	16.511	1.00	41.62	PS16	ATOM	4499	CG	ARG	57	97.069	81.989	10.436	1.00	66.69	PS1
ATOM	4447	C	LYS	50	108.413	84.595	16.468	1.00	41.62	PS16	ATOM	4500	CD	ARG	57	96.811	82.247	11.847	1.00	66.69	PS1
ATOM	4448	O	LYS	50	106.588	85.705	15.804	1.00	45.33	PS16	ATOM	4501	NE	ARG	57	95.758	81.786	12.506	1.00	66.69	PS1
ATOM	4449	N	VAL	51	106.213	84.586	14.953	1.00	45.33	PS16	ATOM	4502	CZ	ARG	57	94.854	81.045	11.879	1.00	66.69	PS1
ATOM	4450	CA	VAL	51	105.347	83.562	15.726	1.00	56.10	PS16	ATOM	4503	NH1	ARG	57	95.619	82.057	13.795	1.00	66.69	PS1
ATOM	4451	CB	VAL	51	106.102	83.063	16.964	1.00	56.10	PS16	ATOM	4504	NH2	ARG	57	99.516	79.472	6.922	1.00	56.20	PS1
ATOM	4452	CG1	VAL	51	105.524	84.883	13.637	1.00	45.33	PS16	ATOM	4505	C	ARG	57	100.351	80.238	6.234	1.00	51.37	PS1
ATOM	4453	CG2	VAL	51	105.076	83.997	12.811	1.00	45.33	PS16	ATOM	4506	O	ARG	57	100.439	80.040	4.800	1.00	51.37	PS1
ATOM	4454	C	VAL	51	105.410	86.106	13.408	1.00	47.44	PS16	ATOM	4507	N	TYR	58	101.220	81.149	4.093	1.00	37.54	PS1
ATOM	4455	O	VAL	52	104.401	86.404	12.136	1.00	47.44	PS16	ATOM	4508	CA	TYR	58	101.584	80.724	2.683	1.00	37.54	PS1
ATOM	4456	N	ASP	52	105.406	86.526	10.985	1.00	75.85	PS16	ATOM	4509	CB	TYR	58	102.892	80.359	2.350	1.00	37.54	PS1
ATOM	4457	CA	ASP	52	104.727	86.550	9.617	1.00	75.85	PS16	ATOM	4510	CG	TYR	58	103.207	79.879	1.065	1.00	37.54	PS1
ATOM	4458	CB	ASP	52	104.401	86.404	12.136	1.00	47.44	PS16	ATOM	4511	CD1	TYR	58	100.600	80.605	0.420	1.00	37.54	PS1
ATOM	4459	CG	ASP	52	104.871	87.536	9.271	1.00	75.85	PS16	ATOM	4512	CE1	TYR	58	102.202	79.765	0.106	1.00	37.54	PS1
ATOM	4460	OD1	ASP	52	104.871	87.536	9.271	1.00	75.85	PS16	ATOM	4513	CE2	TYR	58	102.483	79.274	-1.159	1.00	37.54	PS1
ATOM	4461	OD2	ASP	52	102.441	85.130	12.681	1.00	63.20	PS16	ATOM	4514	CZ	TYR	58	101.149	78.724	4.546	1.00	51.37	PS1
ATOM	4462	C	ASP	52	103.569	84.582	10.805	1.00	47.44	PS16	ATOM	4515	OH	TYR	58	100.640	77.866	3.835	1.00	51.37	PS1
ATOM	4463	O	ASP	52	102.457	84.080	12.526	1.00	63.20	PS16	ATOM	4516	C	TYR	58	102.333	78.576	5.130	1.00	57.75	PS1
ATOM	4464	N	VAL	53	100.361	84.199	13.589	1.00	36.16	PS16	ATOM	4517	O	TYR	59	103.106	77.362	4.936	1.00	57.75	PS1
ATOM	4465	CA	VAL	53	99.148	84.914	13.019	1.00	36.16	PS16	ATOM	4518	N	TRP	59	104.457	77.474	5.650	1.00	52.55	PS1
ATOM	4466	CB	VAL	53	100.929	84.888	14.833	1.00	36.16	PS16	ATOM	4519	CA	TRP	59	105.406	78.329	4.848	1.00	52.55	PS1
ATOM	4467	CG1	VAL	53	100.806	84.044	11.156	1.00	63.20	PS16	ATOM	4520	CA	TRP	59	105.866	78.062	3.521	1.00	52.55	PS1
ATOM	4468	CG2	VAL	53	100.192	83.047	10.793	1.00	63.20	PS16	ATOM	4521	CB	TRP	59						PS1
ATOM	4469	O	VAL	53						PS16	ATOM	4522	CG	TRP	59						PS1
ATOM	4470	O	VAL	53						PS16	ATOM	4523	CD2	TRP	59						PS1

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ATOM	4524	CE2	TRP	59	106.622	79.176	3.108	1.00	52.55	PS16	ATOM	4577	C	PRO	66	106.982	70.784	13.140	1.00	50.30	PS
ATOM	4525	CE3	TRP	59	105.707	76.991	2.640	1.00	52.55	PS16	ATOM	4578	O	PRO	66	106.355	69.790	13.515	1.00	50.30	PS
ATOM	4526	SP1	TRP	59	105.899	79.563	5.183	1.00	52.55	PS16	ATOM	4579	N	THR	67	108.218	71.073	13.541	1.00	53.10	PS
ATOM	4527	NE1	TRP	59	106.628	80.078	4.140	1.00	52.55	PS16	ATOM	4580	CA	THR	67	108.918	70.259	14.530	1.00	53.10	PS
ATOM	4528	C22	TRP	59	107.216	79.247	1.849	1.00	52.55	PS16	ATOM	4581	CB	THR	67	110.140	70.887	14.970	1.00	55.56	PS
ATOM	4529	C23	TRP	59	106.297	77.061	1.389	1.00	52.55	PS16	ATOM	4582	OBI	THR	67	111.240	70.978	13.861	1.00	55.56	PS
ATOM	4530	CH2	TRP	59	107.042	78.180	1.005	1.00	52.55	PS16	ATOM	4583	CG2	THR	67	110.856	70.056	16.082	1.00	55.56	PS
ATOM	4531	C	TRP	59	102.331	76.125	5.361	1.00	57.75	PS16	ATOM	4584	C	THR	67	108.020	70.340	15.750	1.00	53.10	PS
ATOM	4532	O	TRP	59	102.260	75.144	4.608	1.00	47.77	PS16	ATOM	4585	O	THR	67	107.175	71.232	15.831	1.00	53.10	PS
ATOM	4533	N	LEU	60	101.742	76.166	6.552	1.00	47.77	PS16	ATOM	4586	N	ASP	68	108.183	69.446	16.714	1.00	50.03	PS
ATOM	4534	CA	LEU	60	100.928	75.051	7.014	1.00	47.77	PS16	ATOM	4587	CA	ASP	68	107.327	69.567	17.875	1.00	50.03	PS
ATOM	4535	CB	LEU	60	100.266	75.411	8.323	1.00	32.42	PS16	ATOM	4588	CB	ASP	68	107.530	68.399	18.848	1.00	85.70	PS
ATOM	4536	CG	LEU	60	101.238	75.665	9.456	1.00	32.42	PS16	ATOM	4589	CG	ASP	68	106.678	67.180	18.481	1.00	85.70	PS
ATOM	4537	CD1	LEU	60	100.513	76.421	10.551	1.00	32.42	PS16	ATOM	4590	OD1	ASP	68	105.560	67.374	17.958	1.00	85.70	PS
ATOM	4538	CD2	LEU	60	101.805	74.340	9.974	1.00	32.42	PS16	ATOM	4591	OD2	ASP	68	107.110	66.033	18.725	1.00	85.70	PS
ATOM	4539	C	LEU	60	99.856	74.830	5.949	1.00	47.77	PS16	ATOM	4592	C	ASP	68	107.615	70.918	18.533	1.00	50.03	PS
ATOM	4540	O	LEU	60	99.514	73.702	5.609	1.00	47.77	PS16	ATOM	4593	O	ASP	68	106.749	71.798	18.555	1.00	50.03	PS
ATOM	4541	N	SER	61	99.330	75.930	5.425	1.00	53.64	PS16	ATOM	4594	N	THR	69	108.837	71.102	19.025	1.00	52.64	PS
ATOM	4542	CA	SER	61	98.322	75.870	4.389	1.00	53.64	PS16	ATOM	4595	CA	THR	69	109.226	72.357	19.666	1.00	52.64	PS
ATOM	4543	CB	SER	61	98.015	77.278	3.867	1.00	86.31	PS16	ATOM	4596	CB	THR	69	110.719	72.373	19.980	1.00	68.56	PS
ATOM	4544	OG	SER	61	97.679	77.261	2.485	1.00	86.31	PS16	ATOM	4597	OG1	THR	69	111.031	71.250	20.809	1.00	68.56	PS
ATOM	4545	O	SER	61	98.779	75.003	3.225	1.00	53.64	PS16	ATOM	4598	CG2	THR	69	111.902	73.595	20.702	1.00	68.56	PS
ATOM	4546	C	SER	61	97.957	74.405	2.530	1.00	64.45	PS16	ATOM	4599	C	THR	69	108.902	73.595	18.831	1.00	52.64	PS
ATOM	4547	N	VAL	62	100.085	74.914	3.006	1.00	64.45	PS16	ATOM	4600	O	THR	69	108.721	74.681	19.370	1.00	52.64	PS
ATOM	4548	CA	VAL	62	100.551	74.140	1.872	1.00	48.41	PS16	ATOM	4601	N	ALA	70	108.838	73.442	17.516	1.00	54.36	PS
ATOM	4549	CB	VAL	62	101.427	74.983	0.961	1.00	48.41	PS16	ATOM	4602	CA	ALA	70	108.513	74.573	16.664	1.00	54.36	PS
ATOM	4550	CG1	VAL	62	101.171	74.574	-0.468	1.00	48.41	PS16	ATOM	4603	CB	ALA	70	108.899	74.279	15.226	1.00	42.78	PS
ATOM	4551	CG2	VAL	62	101.142	76.460	1.168	1.00	48.41	PS16	ATOM	4604	C	ALA	70	107.020	74.858	16.755	1.00	54.36	PS
ATOM	4552	C	VAL	62	101.276	72.832	2.133	1.00	64.45	PS16	ATOM	4605	O	ALA	70	106.613	76.013	16.847	1.00	54.36	PS
ATOM	4553	N	VAL	62	101.675	72.159	1.188	1.00	64.45	PS16	ATOM	4606	N	ARG	71	106.208	73.802	16.734	1.00	61.38	PS
ATOM	4554	O	GLY	63	101.457	72.462	3.394	1.00	48.27	PS16	ATOM	4607	CA	ARG	71	104.754	73.937	16.811	1.00	61.38	PS
ATOM	4555	CA	GLY	63	102.116	71.200	3.675	1.00	48.27	PS16	ATOM	4608	CB	ARG	71	104.090	72.568	16.694	1.00	50.84	PS
ATOM	4556	C	GLY	63	103.268	71.243	4.552	1.00	48.27	PS16	ATOM	4609	CG	ARG	71	102.603	72.608	16.948	1.00	50.84	PS
ATOM	4557	O	GLY	63	103.853	70.213	4.955	1.00	48.27	PS16	ATOM	4610	CD	ARG	71	101.988	71.226	16.988	1.00	50.84	PS
ATOM	4558	N	ALA	64	103.615	72.426	5.138	1.00	55.08	PS16	ATOM	4611	NE	ARG	71	101.469	70.811	15.685	1.00	50.84	PS
ATOM	4559	CA	ALA	64	104.708	72.536	6.089	1.00	55.08	PS16	ATOM	4612	CG	ARG	71	102.051	69.902	14.903	1.00	50.84	PS
ATOM	4560	CB	ALA	64	104.939	73.995	6.459	1.00	85.30	PS16	ATOM	4613	NH1	ARG	71	103.183	69.315	15.303	1.00	50.84	PS
ATOM	4561	C	ALA	64	104.360	71.716	7.333	1.00	55.08	PS16	ATOM	4614	NH2	ARG	71	101.500	69.574	13.732	1.00	50.84	PS
ATOM	4562	O	ALA	64	103.231	71.763	7.834	1.00	55.08	PS16	ATOM	4615	C	ARG	71	104.321	74.583	18.120	1.00	61.38	PS
ATOM	4563	N	GLN	65	105.334	70.954	7.816	1.00	47.06	PS16	ATOM	4616	O	ARG	71	103.399	74.401	18.157	1.00	61.38	PS
ATOM	4564	CA	GLN	65	105.132	70.124	8.987	1.00	47.06	PS16	ATOM	4617	N	ARG	72	104.993	74.189	19.194	1.00	66.65	PS
ATOM	4565	CB	GLN	65	105.454	67.686	9.333	1.00	41.95	PS16	ATOM	4618	CA	ARG	72	104.718	74.696	20.527	1.00	66.65	PS
ATOM	4566	CG	GLN	65	103.120	67.754	8.763	1.00	41.95	PS16	ATOM	4619	CB	ARG	72	105.593	73.956	21.527	1.00	61.23	PS
ATOM	4567	CD	GLN	65	102.922	67.693	7.547	1.00	41.95	PS16	ATOM	4620	CG	ARG	72	105.856	74.710	22.793	1.00	61.23	PS
ATOM	4568	OE1	GLN	65	102.135	67.876	9.639	1.00	41.95	PS16	ATOM	4621	CD	ARG	72	107.226	74.348	23.276	1.00	61.23	PS
ATOM	4569	NE2	GLN	65	106.073	70.631	10.051	1.00	47.06	PS16	ATOM	4622	NE	ARG	72	107.741	75.341	24.201	1.00	61.23	PS
ATOM	4570	C	GLN	65	107.284	70.490	9.948	1.00	47.06	PS16	ATOM	4623	CA	ARG	72	109.017	75.454	24.557	1.00	61.23	PS
ATOM	4571	O	GLN	65	105.528	71.239	11.096	1.00	50.30	PS16	ATOM	4624	NH1	ARG	72	109.893	74.554	25.398	1.00	61.23	PS
ATOM	4572	N	PRO	66	104.131	71.680	11.224	1.00	38.52	PS16	ATOM	4625	NH2	ARG	72	104.971	76.196	20.632	1.00	66.65	PS
ATOM	4573	CD	PRO	66	106.361	71.773	12.178	1.00	50.30	PS16	ATOM	4626	C	ARG	72	104.321	76.891	21.418	1.00	66.65	PS
ATOM	4574	CB	PRO	66	105.431	72.721	12.905	1.00	38.52	PS16	ATOM	4627	O	ARG	73	105.939	76.689	19.863	1.00	64.96	PS
ATOM	4575	CA	PRO	66	104.064	72.076	12.676	1.00	38.52	PS16	ATOM	4628	N	LEU	73	106.253	78.112	19.865	1.00	64.96	PS
ATOM	4576	CG	PRO	66							ATOM	4629	CA	LEU	73						PS

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ATOM	4630	CB	LEU	73	107.656	78.372	19.307	1.00	60.83	PS16	ATOM	4683	CG	PHE	80	98.148	75.758	15.824	1.00	51.78	PS
ATOM	4631	CG	LEU	73	108.825	77.844	20.147	1.00	60.83	PS16	ATOM	4684	CDI	PHE	80	99.304	75.880	16.607	1.00	51.78	PS
ATOM	4632	CDI	LEU	73	110.141	78.312	19.538	1.00	60.83	PS16	ATOM	4685	CD2	PHE	80	98.235	75.182	14.557	1.00	51.78	PS
ATOM	4633	CD2	LEU	73	108.699	78.333	21.587	1.00	60.83	PS16	ATOM	4686	CE1	PHE	80	100.533	75.433	16.135	1.00	51.78	PS
ATOM	4634	C	LEU	73	105.214	78.788	18.997	1.00	64.96	PS16	ATOM	4687	CE2	PHE	80	99.442	74.734	14.072	1.00	51.78	PS
ATOM	4635	O	LEU	73	104.766	79.884	19.306	1.00	64.96	PS16	ATOM	4688	CZ	PHE	80	100.602	74.857	14.861	1.00	51.78	PS
ATOM	4636	N	LEU	74	104.831	78.131	17.909	1.00	43.25	PS16	ATOM	4689	C	PHE	80	95.124	78.066	16.367	1.00	78.24	PS
ATOM	4637	CB	LEU	74	103.816	78.692	17.046	1.00	43.25	PS16	ATOM	4690	O	PHE	80	94.061	77.871	15.899	1.00	78.24	PS
ATOM	4638	CA	LEU	74	103.607	77.854	15.787	1.00	44.21	PS16	ATOM	4691	N	ARG	81	95.198	78.679	17.413	1.00	62.02	PS
ATOM	4639	CG	LEU	74	104.745	77.633	14.805	1.00	44.21	PS16	ATOM	4692	CA	ARG	81	94.011	79.383	18.092	1.00	62.02	PS
ATOM	4640	CD1	LEU	74	104.168	77.237	13.435	1.00	44.21	PS16	ATOM	4693	CB	ARG	81	94.401	80.588	18.949	1.00	73.21	PS
ATOM	4641	CD2	LEU	74	105.549	78.899	14.695	1.00	44.21	PS16	ATOM	4694	CG	ARG	81	93.272	81.505	19.343	1.00	73.21	PS
ATOM	4642	C	LEU	74	102.496	78.732	17.816	1.00	43.25	PS16	ATOM	4695	CD	ARG	81	93.742	82.424	20.438	1.00	73.21	PS
ATOM	4643	O	LEU	74	101.630	79.659	17.643	1.00	43.25	PS16	ATOM	4696	NE	ARG	81	93.598	81.789	21.741	1.00	73.21	PS
ATOM	4644	N	ARG	75	102.250	77.729	18.656	1.00	61.71	PS16	ATOM	4697	CZ	ARG	81	94.447	81.946	22.750	1.00	73.21	PS
ATOM	4645	CA	ARG	75	101.004	77.732	19.408	1.00	61.71	PS16	ATOM	4698	NH1	ARG	81	95.521	82.718	22.605	1.00	73.21	PS
ATOM	4646	CB	ARG	75	100.848	76.455	20.233	1.00	65.65	PS16	ATOM	4699	NH2	ARG	81	93.213	81.340	23.913	1.00	73.21	PS
ATOM	4647	CG	ARG	75	99.428	74.235	20.778	1.00	65.65	PS16	ATOM	4700	C	ARG	81	92.899	79.748	17.108	1.00	62.02	PS
ATOM	4648	CD	ARG	75	99.238	74.896	21.519	1.00	65.65	PS16	ATOM	4701	O	ARG	81	93.007	80.712	16.351	1.00	62.02	PS
ATOM	4649	NE	ARG	75	98.578	73.743	20.663	1.00	65.65	PS16	ATOM	4702	N	GLN	82	91.833	78.954	17.126	1.00	113.89	PS
ATOM	4650	CZ	ARG	75	98.875	73.424	19.580	1.00	65.65	PS16	ATOM	4703	CA	GLN	82	90.701	79.165	16.237	1.00	113.89	PS
ATOM	4651	NH1	ARG	75	97.841	74.168	19.215	1.00	65.65	PS16	ATOM	4704	CB	GLN	82	90.083	77.831	15.825	1.00	82.65	PS
ATOM	4652	NH2	ARG	75	99.214	72.371	18.852	1.00	65.65	PS16	ATOM	4705	CG	GLN	82	91.011	76.645	15.919	1.00	82.65	PS
ATOM	4653	C	ARG	75	101.022	78.946	20.323	1.00	61.71	PS16	ATOM	4706	CD	GLN	82	90.356	75.368	15.438	1.00	82.65	PS
ATOM	4654	O	ARG	75	100.075	79.725	20.332	1.00	61.71	PS16	ATOM	4707	OE1	GLN	82	89.890	74.521	14.298	1.00	82.65	PS
ATOM	4655	N	GLN	76	102.110	79.107	21.075	1.00	52.14	PS16	ATOM	4708	NE2	GLN	82	90.317	74.355	16.299	1.00	82.65	PS
ATOM	4656	CA	GLN	76	102.259	80.236	21.986	1.00	52.14	PS16	ATOM	4709	C	GLN	82	89.634	79.981	16.934	1.00	113.89	PS
ATOM	4657	CB	GLN	76	103.639	80.363	22.458	1.00	66.19	PS16	ATOM	4710	O	GLN	82	88.446	79.749	16.722	1.00	113.89	PS
ATOM	4658	CG	GLN	76	104.039	79.517	23.647	1.00	66.19	PS16	ATOM	4711	N	GLU	83	90.045	80.930	17.768	1.00	127.91	PS
ATOM	4659	CD	GLN	76	105.300	80.006	24.332	1.00	66.19	PS16	ATOM	4712	CA	GLU	83	89.780	81.757	18.479	1.00	127.91	PS
ATOM	4660	OE1	GLN	76	105.425	81.191	24.640	1.00	66.19	PS16	ATOM	4713	CB	GLU	83	89.080	82.738	19.412	1.00	162.27	PS
ATOM	4661	NE2	GLN	76	106.242	79.097	24.577	1.00	66.19	PS16	ATOM	4714	CG	GLU	83	90.369	82.075	20.646	1.00	162.27	PS
ATOM	4662	C	GLN	76	101.842	81.555	21.353	1.00	52.14	PS16	ATOM	4715	CD	GLU	83	89.374	81.153	21.322	1.00	162.27	PS
ATOM	4663	O	GLN	76	101.197	82.384	21.992	1.00	52.14	PS16	ATOM	4716	OE1	GLU	83	88.256	81.616	21.632	1.00	162.27	PS
ATOM	4664	N	ALA	77	102.223	81.763	20.099	1.00	52.95	PS16	ATOM	4717	OE2	GLU	83	89.711	79.969	21.541	1.00	127.91	PS
ATOM	4665	CA	ALA	77	101.868	82.990	19.401	1.00	52.95	PS16	ATOM	4718	C	GLU	83	88.160	82.509	17.533	1.00	127.91	PS
ATOM	4666	CB	ALA	77	102.947	83.361	18.396	1.00	32.43	PS16	ATOM	4719	O	GLU	83	87.716	83.617	17.828	1.00	127.91	PS
ATOM	4667	C	ALA	77	100.557	82.754	18.691	1.00	52.95	PS16	ATOM	4720	N	ALA	84	87.884	81.894	16.388	1.00	184.01	PS
ATOM	4668	O	ALA	77	100.342	83.247	17.594	1.00	52.95	PS16	ATOM	4721	CA	ALA	84	86.991	82.457	15.394	1.00	184.01	PS
ATOM	4669	N	GLY	78	99.694	81.977	19.329	1.00	61.97	PS16	ATOM	4722	CB	ALA	84	87.117	81.686	14.080	1.00	76.63	PS
ATOM	4670	CA	GLY	78	98.392	81.669	18.770	1.00	61.97	PS16	ATOM	4723	C	ALA	84	85.602	82.277	15.991	1.00	184.01	PS
ATOM	4671	C	GLY	78	98.340	81.509	17.264	1.00	61.97	PS16	ATOM	4724	O	ALA	84	84.621	82.064	15.279	1.00	184.01	PS
ATOM	4672	O	GLY	78	97.641	82.258	16.579	1.00	61.97	PS16	ATOM	4725	N	ARG	85	85.549	82.351	17.320	1.00	148.80	PS
ATOM	4673	N	VAL	79	99.077	80.543	16.733	1.00	63.70	PS16	ATOM	4726	CA	ARG	85	84.319	82.201	18.084	1.00	148.80	PS
ATOM	4674	CA	VAL	79	99.050	80.331	15.300	1.00	63.70	PS16	ATOM	4727	CB	ARG	85	83.275	83.213	17.600	1.00	190.55	PS
ATOM	4675	CG	VAL	79	100.337	79.673	14.785	1.00	48.55	PS16	ATOM	4728	CD	ARG	85	83.760	84.660	17.647	1.00	190.55	PS
ATOM	4676	CG1	VAL	79	100.220	79.440	13.283	1.00	48.55	PS16	ATOM	4729	CG	ARG	85	84.099	85.085	19.071	1.00	190.55	PS
ATOM	4677	CG2	VAL	79	101.525	80.555	15.078	1.00	48.55	PS16	ATOM	4730	NE	ARG	85	84.755	86.390	19.132	1.00	190.55	PS
ATOM	4678	C	VAL	79	97.890	79.405	14.989	1.00	63.70	PS16	ATOM	4731	CZ	ARG	85	84.233	87.520	18.664	1.00	190.55	PS
ATOM	4679	O	VAL	79	97.325	79.442	13.894	1.00	63.70	PS16	ATOM	4732	NH1	ARG	85	83.038	87.516	18.090	1.00	190.55	PS
ATOM	4680	N	PHE	80	97.527	78.580	15.965	1.00	78.24	PS16	ATOM	4733	NH2	ARG	85	84.905	88.658	18.776	1.00	190.55	PS
ATOM	4681	CA	PHE	80	96.446	77.630	15.763	1.00	78.24	PS16	ATOM	4734	C	ARG	85	83.796	80.775	17.957	1.00	148.80	PS
ATOM	4682	CB	PHE	80	96.836	76.269	16.331	1.00	51.78	PS16	ATOM	4735	O	ARG	85	84.466	79.829	18.372	1.00	148.80	PS

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ATOM	4736	N	GLU	86	82.604	80.626	17.386	1.00201.02	PS16	ATOM	4789	CB	LEU	6	120.508	87.072	-31.323	1.00	45.09	QS	
ATOM	4737	CA ³	GLU	86	81.985	79.316	17.194	1.00201.02	PS16	ATOM	4790	CG	LEU	6	120.912	86.650	-29.915	1.00	45.09	QS	
ATOM	4738	CB	GLU	86	82.771	78.508	16.153	1.00116.82	PS16	ATOM	4791	CD1	LEU	6	121.910	85.507	-30.025	1.00	45.09	QS	
ATOM	4739	CG	GLU	86	82.076	77.228	15.706	1.00116.82	PS16	ATOM	4792	CD2	LEU	6	121.506	87.817	-29.167	1.00	45.09	QS	
ATOM	4740	CD	GLU	86	80.784	77.499	14.951	1.00116.82	PS16	ATOM	4793	C	LEU	6	119.185	88.260	-33.040	1.00	44.90	QS	
ATOM	4741	OE1	GLU	86	80.860	78.018	13.817	1.00116.82	PS16	ATOM	4794	O	LEU	6	118.393	87.644	-33.754	1.00	44.90	QS	
ATOM	4742	OE2	GLU	86	79.697	77.199	15.492	1.00116.82	PS16	ATOM	4795	N	THR	7	119.997	89.212	-33.505	1.00	40.16	QS	
ATOM	4743	C	GLU	86	81.901	78.527	18.502	1.00201.02	PS16	ATOM	4796	CA	THR	7	120.024	89.586	-34.918	1.00	40.16	QS	
ATOM	4744	O	GLU	86	82.443	78.947	19.525	1.00201.02	PS16	ATOM	4797	CB	THR	7	119.586	91.031	-35.145	1.00	43.59	QS	
ATOM	4745	N	GLY	87	81.215	77.387	18.463	1.00161.65	PS16	ATOM	4798	OD1	THR	7	118.286	91.244	-34.584	1.00	43.59	QS	
ATOM	4746	CA	GLY	87	81.075	76.560	19.650	1.00161.65	PS16	ATOM	4799	CG2	THR	7	119.527	91.316	-36.619	1.00	43.59	QS	
ATOM	4747	C	GLY	87	79.649	76.484	20.163	1.00161.65	PS16	ATOM	4800	C	THR	7	121.428	89.450	-35.483	1.00	40.16	QS	
ATOM	4748	O	GLY	87	79.176	75.420	20.564	1.00161.65	PS16	ATOM	4801	O	THR	7	122.405	89.899	-34.886	1.00	40.16	QS	
ATOM	4749	N	ALA	88	78.964	77.622	20.157	1.00201.09	PS16	ATOM	4802	N	GLY	8	121.522	88.832	-36.648	1.00	41.81	QS	
ATOM	4750	CA	ALA	88	77.584	77.690	20.617	1.00201.09	PS16	ATOM	4803	CA	GLY	8	122.815	88.645	-37.267	1.00	41.81	QS	
ATOM	4751	CB	ALA	88	77.522	78.370	21.985	1.00	99.56	PS16	ATOM	4804	C	GLY	8	122.638	88.357	-38.735	1.00	41.81	QS
ATOM	4752	C	ALA	88	76.746	78.459	19.600	1.00201.09	PS16	ATOM	4805	O	GLY	8	121.527	88.453	-39.248	1.00	41.81	QS	
ATOM	4753	O	ALA	88	76.189	79.516	19.965	1.00201.09	PS16	ATOM	4806	N	VAL	9	123.721	88.000	-39.417	1.00	46.53	QS	
ATOM	4754	OXT	ALA	88	76.662	77.994	18.442	1.00	99.56	PS16	ATOM	4807	CA	VAL	9	123.628	87.716	-40.837	1.00	46.53	QS
ATOM	4755	CB	PRO	2	112.308	87.112	-22.494	1.00	53.26	QS17	ATOM	4808	CB	VAL	9	124.631	88.516	-41.653	1.00	48.46	QS
ATOM	4756	CG	PRO	2	112.158	87.761	-21.152	1.00	53.26	QS17	ATOM	4809	CG1	VAL	9	124.165	88.586	-43.086	1.00	48.46	QS
ATOM	4757	C	PRO	2	113.251	84.889	-22.986	1.00	49.21	QS17	ATOM	4810	CG2	VAL	9	124.802	89.890	-41.071	1.00	48.46	QS
ATOM	4758	O	PRO	2	114.459	85.044	-22.806	1.00	49.21	QS17	ATOM	4811	C	VAL	9	123.939	86.273	-41.085	1.00	46.53	QS
ATOM	4759	N	PRO	2	112.604	85.514	-20.711	1.00	49.21	QS17	ATOM	4812	O	VAL	9	124.642	85.643	-40.306	1.00	49.10	QS
ATOM	4760	CD	PRO	2	112.883	86.849	-20.161	1.00	53.26	QS17	ATOM	4813	N	VAL	10	123.413	85.754	-42.184	1.00	49.10	QS
ATOM	4761	CA	PRO	3	112.752	85.638	-22.135	1.00	49.21	QS17	ATOM	4814	CA	VAL	10	123.659	84.377	-42.565	1.00	49.10	QS
ATOM	4762	N	LYS	3	113.641	84.066	-23.901	1.00	47.79	QS17	ATOM	4815	CB	VAL	10	122.585	83.848	-43.512	1.00	37.82	QS
ATOM	4763	CA	LYS	3	112.854	82.513	-25.793	1.00	41.16	QS17	ATOM	4816	CG1	VAL	10	122.773	82.364	-43.719	1.00	37.82	QS
ATOM	4764	CB	LYS	3	112.234	81.275	-25.193	1.00	41.16	QS17	ATOM	4817	CG2	VAL	10	121.222	84.159	-42.966	1.00	37.82	QS
ATOM	4765	CG	LYS	3	111.618	80.385	-26.275	1.00	41.16	QS17	ATOM	4818	C	VAL	10	124.965	84.385	-43.330	1.00	49.10	QS
ATOM	4766	CD	LYS	3	111.096	79.078	-25.684	1.00	41.16	QS17	ATOM	4819	O	VAL	10	125.039	84.914	-44.440	1.00	49.10	QS
ATOM	4767	CE	LYS	3	110.140	79.297	-24.544	1.00	41.16	QS17	ATOM	4820	N	VAL	11	126.001	83.811	-42.743	1.00	41.29	QS
ATOM	4768	NZ	LYS	3	114.391	84.468	-25.524	1.00	47.79	QS17	ATOM	4821	CA	VAL	11	127.276	83.785	-43.417	1.00	41.29	QS
ATOM	4769	C	LYS	3	113.776	85.345	-26.137	1.00	47.79	QS17	ATOM	4822	CB	VAL	11	128.392	84.159	-42.450	1.00	28.20	QS
ATOM	4770	O	LYS	4	115.717	84.428	-25.413	1.00	46.85	QS17	ATOM	4823	CG1	VAL	11	128.097	85.507	-41.855	1.00	28.20	QS
ATOM	4771	N	LYS	4	116.622	85.398	-26.014	1.00	46.85	QS17	ATOM	4824	CG2	VAL	11	127.510	83.118	-41.350	1.00	28.20	QS
ATOM	4772	CA	LYS	4	118.055	85.000	-25.687	1.00	62.78	QS17	ATOM	4825	C	VAL	11	127.529	82.407	-44.009	1.00	41.29	QS
ATOM	4773	CB	LYS	4	119.112	85.966	-26.157	1.00	62.78	QS17	ATOM	4826	O	VAL	11	126.540	82.182	-44.668	1.00	41.29	QS
ATOM	4774	CG	LYS	4	119.210	87.117	-25.203	1.00	62.78	QS17	ATOM	4827	N	SER	12	126.603	81.482	-43.784	1.00	74.58	QS
ATOM	4775	CD	LYS	4	120.411	87.967	-25.508	1.00	62.78	QS17	ATOM	4828	CA	SER	12	126.758	80.138	-44.316	1.00	74.58	QS
ATOM	4776	CE	LYS	4	120.557	89.039	-24.487	1.00	62.78	QS17	ATOM	4829	CB	SER	12	127.635	79.305	-43.391	1.00	51.11	QS
ATOM	4777	NZ	LYS	4	116.469	85.493	-27.527	1.00	46.85	QS17	ATOM	4830	OG	SER	12	127.602	77.940	-43.769	1.00	51.11	QS
ATOM	4778	C	LYS	4	116.440	84.483	-28.228	1.00	46.85	QS17	ATOM	4831	C	SER	12	125.442	79.412	-44.535	1.00	74.58	QS
ATOM	4779	O	LYS	4	116.377	86.730	-28.027	1.00	44.79	QS17	ATOM	4832	O	SER	12	124.619	79.300	-43.622	1.00	74.58	QS
ATOM	4780	N	VAL	5	116.253	86.957	-29.462	1.00	44.79	QS17	ATOM	4833	N	ASP	13	125.264	78.916	-45.758	1.00	90.97	QS
ATOM	4781	CB	VAL	5	114.973	87.756	-29.788	1.00	32.60	QS17	ATOM	4834	CA	ASP	13	124.072	78.177	-46.148	1.00	90.97	QS
ATOM	4782	CG1	VAL	5	114.830	87.941	-31.290	1.00	32.60	QS17	ATOM	4835	CB	ASP	13	123.936	78.929	-47.256	1.00	67.27	QS
ATOM	4783	CG2	VAL	5	113.771	87.027	-29.249	1.00	32.60	QS17	ATOM	4836	CG	ASP	13	121.996	78.297	-47.605	1.00	67.27	QS
ATOM	4784	O	VAL	5	117.482	87.731	-29.940	1.00	44.79	QS17	ATOM	4837	OD1	ASP	13	121.280	78.874	-48.451	1.00	67.27	QS
ATOM	4785	C	VAL	5	117.868	88.718	-29.322	1.00	44.79	QS17	ATOM	4838	OD2	ASP	13	121.658	77.231	-47.041	1.00	67.27	QS
ATOM	4786	O	VAL	6	118.095	87.286	-31.032	1.00	44.90	QS17	ATOM	4839	C	ASP	13	124.534	76.815	-46.656	1.00	90.97	QS
ATOM	4787	N	LEU	6	119.285	87.953	-31.548	1.00	44.90	QS17	ATOM	4840	O	ASP	13	123.841	76.152	-47.429	1.00	90.97	QS
ATOM	4788	CA	LEU	6						QS17	ATOM	4841	N	LYS	14	125.708	76.394	-46.202	1.00	63.90	QS

ATOM	4842	CA	LVS	14	126.282	75.125	-46.631	1.00	63.90	QS17	ATOM	4895	C	THR	20	124.911	81.627	-39.597	1.00	43.81	OS
ATOM	4843	CB	LVS	14	127.807	75.161	-46.458	1.00	96.72	QS17	ATOM	4896	O	THR	20	125.174	82.351	-40.548	1.00	43.81	OS
ATOM	4844	CG	LVS	14	128.509	76.109	-47.421	1.00	96.72	QS17	ATOM	4897	N	VAL	21	124.380	82.072	-38.469	1.00	38.76	OS
ATOM	4845	CD	LVS	14	130.017	76.004	-47.311	1.00	96.72	QS17	ATOM	4898	CA	VAL	21	124.118	83.485	-38.273	1.00	38.76	OS
ATOM	4846	CE	LVS	14	130.703	76.860	-48.370	1.00	96.72	QS17	ATOM	4899	CB	VAL	21	122.799	83.721	-37.519	1.00	21.95	OS
ATOM	4847	N2	LVS	14	132.192	76.695	-48.376	1.00	96.72	QS17	ATOM	4900	CG1	VAL	21	122.555	85.217	-37.347	1.00	21.95	OS
ATOM	4848	C	LVS	14	125.726	73.863	-45.971	1.00	63.90	QS17	ATOM	4901	CG2	VAL	21	121.663	83.080	-38.281	1.00	21.95	OS
ATOM	4849	O	LVS	14	126.137	72.755	-46.317	1.00	63.90	QS17	ATOM	4902	C	VAL	21	125.273	84.093	-37.481	1.00	38.76	OS
ATOM	4850	N	MET	15	124.795	74.014	-45.034	1.00	65.06	QS17	ATOM	4903	O	VAL	21	125.726	83.544	-36.471	1.00	38.76	OS
ATOM	4851	CA	MET	15	124.231	72.852	-44.361	1.00	65.06	QS17	ATOM	4904	N	LEU	22	125.749	85.233	-37.959	1.00	40.11	OS
ATOM	4852	CB	MET	15	124.338	72.979	-42.853	1.00	61.06	QS17	ATOM	4905	CA	LEU	22	126.852	85.915	-37.327	1.00	40.11	OS
ATOM	4853	CG	MET	15	125.809	72.967	-42.364	1.00	61.06	QS17	ATOM	4906	CB	LEU	22	127.853	86.311	-38.401	1.00	32.36	OS
ATOM	4854	SD	MET	15	125.829	73.028	-40.567	1.00	61.06	QS17	ATOM	4907	CG	LEU	22	129.034	87.176	-37.997	1.00	32.36	OS
ATOM	4855	CE	MET	15	125.461	74.778	-40.261	1.00	61.06	QS17	ATOM	4908	CD1	LEU	22	129.797	86.552	-36.852	1.00	32.36	OS
ATOM	4856	C	MET	15	122.765	72.634	-44.677	1.00	65.06	QS17	ATOM	4909	CD2	LEU	22	129.907	87.330	-39.208	1.00	32.36	OS
ATOM	4857	O	MET	15	122.098	73.503	-45.252	1.00	65.06	QS17	ATOM	4910	C	LEU	22	126.340	87.131	-36.564	1.00	40.11	OS
ATOM	4858	N	GLN	16	122.276	71.458	-44.289	1.00	61.30	QS17	ATOM	4911	O	LEU	22	126.165	88.204	-37.121	1.00	40.11	OS
ATOM	4859	CA	GLN	16	120.887	71.070	-44.494	1.00	61.30	QS17	ATOM	4912	N	VAL	23	126.109	86.943	-35.274	1.00	42.48	OS
ATOM	4860	CB	GLN	16	120.782	69.556	-44.621	1.00	60.33	QS17	ATOM	4913	CA	VAL	23	125.579	87.981	-34.393	1.00	42.48	OS
ATOM	4861	CG	GLN	16	121.541	68.988	-45.796	1.00	60.33	QS17	ATOM	4914	CB	VAL	23	124.781	87.326	-33.226	1.00	42.30	OS
ATOM	4862	CD	GLN	16	121.538	67.466	-45.820	1.00	60.33	QS17	ATOM	4915	CG1	VAL	23	124.430	88.350	-32.174	1.00	42.30	OS
ATOM	4863	OE1	GLN	16	122.035	66.845	-46.765	1.00	60.33	QS17	ATOM	4916	CG2	VAL	23	123.527	86.670	-33.766	1.00	42.30	OS
ATOM	4864	NE2	GLN	16	120.983	66.858	-44.778	1.00	60.33	QS17	ATOM	4917	C	VAL	23	126.644	88.889	-33.799	1.00	42.48	OS
ATOM	4865	C	GLN	16	120.025	71.539	-43.327	1.00	61.30	QS17	ATOM	4918	O	VAL	23	127.534	88.418	-34.102	1.00	42.48	OS
ATOM	4866	O	GLN	16	120.297	71.218	-42.175	1.00	61.30	QS17	ATOM	4919	N	GLU	24	126.534	90.191	-34.055	1.00	46.96	OS
ATOM	4867	N	LVS	17	118.987	72.303	-43.645	1.00	53.95	QS17	ATOM	4920	CA	GLU	24	127.496	91.157	-33.520	1.00	46.96	OS
ATOM	4868	CB	LVS	17	118.050	72.845	-42.664	1.00	53.95	QS17	ATOM	4921	CB	GLU	24	127.696	92.306	-34.513	1.00	84.41	OS
ATOM	4869	CG	LVS	17	117.226	71.710	-42.054	1.00	83.08	QS17	ATOM	4922	CG	GLU	24	129.153	92.589	-34.867	1.00	84.41	OS
ATOM	4870	CD	LVS	17	116.472	70.921	-43.106	1.00	83.08	QS17	ATOM	4923	CD	GLU	24	129.300	93.787	-36.219	1.00	84.41	OS
ATOM	4871	CE	LVS	17	115.428	70.014	-42.509	1.00	83.08	QS17	ATOM	4924	OE1	GLU	24	128.775	92.747	-37.219	1.00	84.41	OS
ATOM	4872	N2	LVS	17	114.666	69.332	-43.607	1.00	83.08	QS17	ATOM	4925	OE2	GLU	24	129.937	94.363	-36.292	1.00	84.41	OS
ATOM	4873	C	LVS	17	113.479	68.618	-43.048	1.00	83.08	QS17	ATOM	4926	C	GLU	24	127.021	91.694	-32.162	1.00	46.96	OS
ATOM	4874	O	LVS	17	118.720	73.670	-41.567	1.00	53.95	QS17	ATOM	4927	O	GLU	24	125.822	91.710	-31.865	1.00	46.96	OS
ATOM	4875	N	LVS	17	118.109	73.979	-40.540	1.00	53.95	QS17	ATOM	4928	N	ARG	25	127.969	92.137	-31.345	1.00	47.32	OS
ATOM	4876	CA	THR	18	119.974	74.044	-41.801	1.00	54.08	QS17	ATOM	4929	CA	ARG	25	127.663	92.633	-30.010	1.00	47.32	OS
ATOM	4877	CB	THR	18	120.727	74.824	-40.831	1.00	54.08	QS17	ATOM	4930	CB	ARG	25	127.754	91.467	-29.028	1.00	46.26	OS
ATOM	4878	CG	THR	18	121.784	73.945	-40.142	1.00	64.57	QS17	ATOM	4931	CG	ARG	25	127.854	91.865	-27.569	1.00	46.26	OS
ATOM	4879	CG1	THR	18	121.276	72.615	-39.982	1.00	64.57	QS17	ATOM	4932	CD	ARG	25	127.803	90.640	-26.671	1.00	46.26	OS
ATOM	4880	CG2	THR	18	122.140	74.518	-38.780	1.00	64.57	QS17	ATOM	4933	NE	ARG	25	128.962	89.776	-26.860	1.00	46.26	OS
ATOM	4881	C	THR	18	121.460	75.973	-41.519	1.00	54.08	QS17	ATOM	4934	C2	ARG	25	130.007	89.763	-26.047	1.00	46.26	OS
ATOM	4882	O	THR	18	121.460	75.856	-42.683	1.00	54.08	QS17	ATOM	4935	NH1	ARG	25	130.026	90.564	-24.990	1.00	46.26	OS
ATOM	4883	N	VAL	19	121.635	77.084	-40.811	1.00	61.26	QS17	ATOM	4936	NH2	ARG	25	131.031	88.961	-26.294	1.00	47.32	OS
ATOM	4884	CA	VAL	19	122.378	78.219	-41.358	1.00	61.26	QS17	ATOM	4937	C	ARG	25	128.648	93.708	-29.606	1.00	47.32	OS
ATOM	4885	CB	VAL	19	121.467	79.346	-41.895	1.00	32.98	QS17	ATOM	4938	O	ARG	25	129.816	93.616	-29.942	1.00	47.32	OS
ATOM	4886	CG	VAL	19	120.689	78.866	-43.101	1.00	32.98	QS17	ATOM	4939	N	GLN	26	128.198	94.730	-28.890	1.00	37.50	OS
ATOM	4887	CG1	VAL	19	120.563	79.826	-40.802	1.00	32.98	QS17	ATOM	4940	CA	GLN	26	129.113	95.787	-28.453	1.00	37.50	OS
ATOM	4888	C	VAL	19	123.244	78.805	-40.253	1.00	61.26	QS17	ATOM	4941	CB	GLN	26	128.749	97.126	-29.077	1.00	65.64	OS
ATOM	4889	O	VAL	19	122.981	78.587	-39.066	1.00	61.26	QS17	ATOM	4942	CG	GLN	26	128.571	97.052	-30.563	1.00	65.64	OS
ATOM	4890	N	THR	20	125.170	79.533	-40.646	1.00	43.81	QS17	ATOM	4943	CD	GLN	26	128.739	98.394	-31.235	1.00	65.64	OS
ATOM	4891	CA	THR	20	124.283	80.144	-39.673	1.00	43.81	QS17	ATOM	4944	OE1	GLN	26	128.159	99.396	-30.804	1.00	65.64	OS
ATOM	4892	CB	THR	20	126.638	79.954	-40.029	1.00	55.85	QS17	ATOM	4945	NE2	GLN	26	129.529	98.423	-32.306	1.00	65.64	OS
ATOM	4893	CG1	THR	20	126.934	78.554	-40.137	1.00	55.85	QS17	ATOM	4946	C	GLN	26	129.042	95.907	-26.952	1.00	37.50	OS
ATOM	4894	CG2	THR	20	127.511	80.574	-38.950	1.00	55.85	QS17	ATOM	4947	O	GLN	26	128.180	95.314	-26.326	1.00	37.50	OS

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ATOM	4948	N	PHE	27	129.940	96.685	-26.369	1.00	30.90	OS17	ATOM	5001	C	TYR	32	138.344	101.333	-20.887	1.00	33.82	OS
ATOM	4949	CA	PHE	27	129.963	96.858	-24.923	1.00	30.90	OS17	ATOM	5002	O	TYR	32	138.486	102.296	-21.627	1.00	33.82	OS
ATOM	4950	CB	PHE	27	129.857	95.513	-24.210	1.00	37.75	OS17	ATOM	5003	N	GLY	33	137.160	100.864	-20.535	1.00	35.87	OS
ATOM	4951	CG	PHE	27	131.040	94.625	-24.418	1.00	37.75	OS17	ATOM	5004	CA	GLY	33	135.936	101.510	-20.960	1.00	35.87	OS
ATOM	4952	CD1	PHE	27	132.154	94.727	-23.603	1.00	37.75	OS17	ATOM	5005	C	GLY	33	135.589	101.762	-22.413	1.00	35.87	OS
ATOM	4953	CD2	PHE	27	131.038	93.672	-25.433	1.00	37.75	OS17	ATOM	5006	O	GLY	33	134.413	101.940	-22.710	1.00	35.87	OS
ATOM	4954	CE1	PHE	27	133.253	93.886	-23.791	1.00	37.75	OS17	ATOM	5007	N	LVS	34	136.549	101.795	-23.326	1.00	27.55	OS
ATOM	4955	CE2	PHE	27	132.138	92.826	-25.628	1.00	37.75	OS17	ATOM	5008	CA	LVS	34	136.179	102.053	-24.717	1.00	27.55	OS
ATOM	4956	CZ	PHE	27	133.244	92.936	-24.804	1.00	37.75	OS17	ATOM	5009	CB	LVS	34	137.413	102.071	-25.626	1.00	34.53	OS
ATOM	4957	C	PHE	27	131.251	97.510	-24.508	1.00	30.90	OS17	ATOM	5010	CG	LVS	34	137.891	100.722	-26.119	1.00	34.53	OS
ATOM	4958	CG	PHE	27	132.247	97.452	-25.215	1.00	30.90	OS17	ATOM	5011	CD	LVS	34	137.802	100.639	-27.644	1.00	34.53	OS
ATOM	4959	N	PRO	28	131.250	98.127	-23.333	1.00	40.69	OS17	ATOM	5012	CE	LVS	34	138.601	101.751	-28.306	1.00	34.53	OS
ATOM	4960	CD	PRO	28	130.096	98.298	-22.445	1.00	26.82	OS17	ATOM	5013	NZ	LVS	34	138.528	101.708	-29.787	1.00	34.53	OS
ATOM	4961	CA	PRO	28	132.416	98.810	-22.788	1.00	40.69	OS17	ATOM	5014	C	LVS	34	135.184	100.992	-25.181	1.00	27.55	OS
ATOM	4962	CB	PRO	28	131.810	99.755	-21.782	1.00	26.82	OS17	ATOM	5015	O	LVS	34	135.202	99.862	-24.699	1.00	27.55	OS
ATOM	4963	CG	PRO	28	130.738	98.925	-21.225	1.00	26.82	OS17	ATOM	5016	N	VAL	35	134.298	101.362	-26.095	1.00	27.55	OS
ATOM	4964	C	PRO	28	133.369	97.853	-22.132	1.00	40.69	OS17	ATOM	5017	CA	VAL	35	133.314	100.416	-26.590	1.00	39.73	OS
ATOM	4965	C	PRO	28	132.983	97.000	-21.339	1.00	40.69	OS17	ATOM	5018	CB	VAL	35	132.109	101.127	-27.238	1.00	32.03	OS
ATOM	4966	N	HIS	29	134.627	97.999	-22.485	1.00	24.31	OS17	ATOM	5019	CG1	VAL	35	131.167	100.993	-27.846	1.00	32.03	OS
ATOM	4967	CA	HIS	29	135.668	97.182	-21.917	1.00	24.31	OS17	ATOM	5020	CG2	VAL	35	133.963	99.512	-27.619	1.00	39.73	OS
ATOM	4968	CB	HIS	29	137.000	97.683	-22.448	1.00	50.65	OS17	ATOM	5021	C	VAL	35	131.381	101.958	-26.201	1.00	32.03	OS
ATOM	4969	CG	HIS	29	138.152	96.806	-22.107	1.00	50.65	OS17	ATOM	5022	O	VAL	35	134.466	99.973	-28.640	1.00	39.73	OS
ATOM	4970	CD2	HIS	29	138.865	95.946	-22.868	1.00	50.65	OS17	ATOM	5023	N	ILE	36	133.952	98.218	-27.345	1.00	38.55	OS
ATOM	4971	ND1	HIS	29	138.699	96.761	-20.846	1.00	50.65	OS17	ATOM	5024	CA	ILE	36	134.558	97.264	-28.245	1.00	38.55	OS
ATOM	4972	CE1	HIS	29	139.706	95.910	-20.846	1.00	50.65	OS17	ATOM	5025	CB	ILE	36	135.532	96.362	-27.490	1.00	39.84	OS
ATOM	4973	NE2	HIS	29	139.828	95.403	-22.061	1.00	50.65	OS17	ATOM	5026	CG2	ILE	36	136.386	97.214	-26.540	1.00	39.84	OS
ATOM	4974	C	HIS	29	135.586	97.372	-20.401	1.00	24.31	OS17	ATOM	5027	CG1	ILE	36	134.765	95.339	-26.660	1.00	39.84	OS
ATOM	4975	O	HIS	29	135.499	98.496	-19.908	1.00	24.31	OS17	ATOM	5028	CD1	ILE	36	135.669	94.465	-25.811	1.00	39.84	OS
ATOM	4976	N	PRO	30	135.598	96.274	-19.643	1.00	32.58	OS17	ATOM	5029	C	ILE	36	133.451	96.446	-28.861	1.00	38.55	OS
ATOM	4977	CD	PRO	30	135.627	94.871	-20.069	1.00	44.80	OS17	ATOM	5030	O	ILE	36	133.397	96.271	-28.259	1.00	38.55	OS
ATOM	4978	CA	PRO	30	135.520	96.369	-18.188	1.00	32.58	OS17	ATOM	5031	N	LVS	37	133.688	95.956	-30.070	1.00	45.47	OS
ATOM	4979	CB	PRO	30	135.554	94.910	-17.746	1.00	44.80	OS17	ATOM	5032	CA	LVS	37	132.695	95.175	-30.786	1.00	45.47	OS
ATOM	4980	CG	PRO	30	136.238	94.220	-18.878	1.00	44.80	OS17	ATOM	5033	CB	LVS	37	132.434	95.814	-32.136	1.00	51.45	OS
ATOM	4981	C	PRO	30	136.572	97.233	-17.493	1.00	32.58	OS17	ATOM	5034	CG	LVS	37	131.403	95.127	-32.959	1.00	51.45	OS
ATOM	4982	O	PRO	30	136.321	97.734	-16.397	1.00	28.44	OS17	ATOM	5035	CD	LVS	37	131.609	95.476	-34.425	1.00	51.45	OS
ATOM	4983	N	LEU	31	137.744	97.425	-18.090	1.00	28.44	OS17	ATOM	5036	CE	LVS	37	131.707	96.988	-34.668	1.00	51.45	OS
ATOM	4984	CA	LEU	31	138.727	98.266	-17.415	1.00	28.44	OS17	ATOM	5037	NZ	LVS	37	131.935	97.328	-36.116	1.00	51.45	OS
ATOM	4985	CB	LEU	31	140.002	97.474	-17.094	1.00	29.35	OS17	ATOM	5038	C	LVS	37	133.243	93.774	-30.961	1.00	45.47	OS
ATOM	4986	CG	LEU	31	141.229	98.197	-16.490	1.00	29.35	OS17	ATOM	5039	O	LVS	37	134.385	93.599	-31.362	1.00	45.47	OS
ATOM	4987	CD1	LEU	31	140.894	99.000	-15.251	1.00	29.35	OS17	ATOM	5040	N	ARG	38	132.423	92.782	-30.652	1.00	48.86	OS
ATOM	4988	CD2	LEU	31	142.253	97.150	-16.156	1.00	29.35	OS17	ATOM	5041	CA	ARG	38	132.817	91.386	-30.736	1.00	48.86	OS
ATOM	4989	C	LEU	31	139.038	99.537	-18.167	1.00	28.44	OS17	ATOM	5042	CB	ARG	38	132.930	90.832	-29.319	1.00	62.32	OS
ATOM	4990	O	LEU	31	139.312	100.584	-17.547	1.00	28.44	OS17	ATOM	5043	CD	ARG	38	134.023	89.807	-29.135	1.00	62.32	OS
ATOM	4991	N	TYR	32	139.165	99.450	-19.495	1.00	33.82	OS17	ATOM	5044	CD	ARG	38	135.240	90.362	-28.388	1.00	62.32	OS
ATOM	4992	CA	TYR	32	139.539	100.596	-20.315	1.00	33.82	OS17	ATOM	5045	NE	ARG	38	135.852	91.504	-29.061	1.00	62.32	OS
ATOM	4993	CB	TYR	32	140.499	100.134	-21.414	1.00	36.01	OS17	ATOM	5046	CZ	ARG	38	137.137	91.821	-28.949	1.00	62.32	OS
ATOM	4994	CG	TYR	32	141.715	99.448	-20.831	1.00	36.01	OS17	ATOM	5047	NH1	ARG	38	137.919	91.066	-28.193	1.00	62.32	OS
ATOM	4995	CD1	TYR	32	142.134	98.199	-21.283	1.00	36.01	OS17	ATOM	5048	NH2	ARG	38	137.638	92.882	-29.575	1.00	62.32	OS
ATOM	4996	CE1	TYR	32	143.209	97.548	-20.683	1.00	36.01	OS17	ATOM	5049	C	ARG	38	137.742	90.635	-31.527	1.00	48.86	OS
ATOM	4997	CD2	TYR	32	142.407	100.029	-19.773	1.00	36.01	OS17	ATOM	5050	O	ARG	38	130.693	91.199	-31.837	1.00	48.86	OS
ATOM	4998	CZ	TYR	32	143.480	99.390	-19.169	1.00	36.01	OS17	ATOM	5051	N	SER	39	131.977	89.375	-31.865	1.00	59.96	OS
ATOM	4999	CE2	TYR	32	143.877	98.156	-19.620	1.00	36.01	OS17	ATOM	5052	CA	SER	39	130.964	88.652	-32.619	1.00	59.96	OS
ATOM	5000	OH	TYR	32	144.938	97.543	-18.986	1.00	36.01	OS17	ATOM	5053	CB	SER	39	131.061	89.021	-34.090	1.00	52.08	OS

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ATOM	5054	OG	SER	39	132.306	88.615	-34.605	1.00	52.08	QS17	ATOM	5107	NE2	HIS	45	114.468	72.453	-37.856	1.00	58.02	QS
ATOM	5055	C	SER	39	131.021	87.135	-32.460	1.00	59.96	QS17	ATOM	5108	C	HIS	45	116.598	76.590	-38.739	1.00	47.04	QS
ATOM	5056	O	SER	39	132.091	86.559	-32.249	1.00	59.96	QS17	ATOM	5109	O	HIS	45	115.755	77.442	-38.473	1.00	47.04	QS
ATOM	5057	N	LYS	40	129.860	86.496	-32.587	1.00	40.83	QS17	ATOM	5110	N	ASP	46	116.837	76.157	-39.977	1.00	76.36	QS
ATOM	5058	CA	LYS	40	129.730	85.056	-32.414	1.00	40.83	QS17	ATOM	5111	CA	ASP	46	116.117	76.657	-41.152	1.00	76.36	QS
ATOM	5059	CB	LYS	40	129.161	84.807	-31.015	1.00	36.76	QS17	ATOM	5112	CB	ASP	46	117.085	77.388	-42.087	1.00	71.45	QS
ATOM	5060	CD	LYS	40	128.791	83.372	-30.642	1.00	36.76	QS17	ATOM	5113	CG	ASP	46	116.396	77.955	-43.314	1.00	71.45	QS
ATOM	5061	CE	LYS	40	128.365	83.361	-29.172	1.00	36.76	QS17	ATOM	5114	OD1	ASP	46	117.109	78.368	-44.260	1.00	71.45	QS
ATOM	5062	CE	LYS	40	128.045	81.992	-28.649	1.00	36.76	QS17	ATOM	5115	OD2	ASP	46	115.549	77.990	-43.321	1.00	76.36	QS
ATOM	5063	NZ	LYS	40	127.641	82.101	-27.237	1.00	36.76	QS17	ATOM	5116	C	ASP	46	115.488	75.476	-41.895	1.00	76.36	QS
ATOM	5064	C	LYS	40	128.826	84.439	-33.477	1.00	40.83	QS17	ATOM	5117	O	ASP	46	116.028	75.004	-42.891	1.00	76.36	QS
ATOM	5065	O	LYS	40	129.152	83.225	-33.916	1.00	39.77	QS17	ATOM	5118	N	PRO	47	114.332	74.997	-41.422	1.00	71.02	QS
ATOM	5066	N	LYS	41	128.347	82.541	-34.927	1.00	39.77	QS17	ATOM	5119	CD	PRO	47	113.627	75.527	-40.245	1.00	63.77	QS
ATOM	5067	CA	LYS	41	129.215	81.797	-35.952	1.00	35.10	QS17	ATOM	5120	CA	PRO	47	113.592	73.868	-41.997	1.00	71.02	QS
ATOM	5068	CB	LYS	41	130.061	82.674	-36.859	1.00	35.10	QS17	ATOM	5121	CB	PRO	47	112.374	73.754	-41.090	1.00	63.77	QS
ATOM	5069	CG	LYS	41	130.871	81.855	-37.859	1.00	35.10	QS17	ATOM	5122	CG	PRO	47	112.851	74.332	-39.796	1.00	63.77	QS
ATOM	5070	CD	LYS	41	131.081	80.895	-37.165	1.00	35.10	QS17	ATOM	5123	C	PRO	47	113.182	74.020	-43.453	1.00	71.02	QS
ATOM	5071	CE	LYS	41	132.629	80.130	-38.134	1.00	35.10	QS17	ATOM	5124	O	PRO	47	113.423	73.133	-44.273	1.00	71.02	QS
ATOM	5072	NZ	LYS	41	127.954	80.683	-33.494	1.00	39.77	QS17	ATOM	5125	N	GLU	48	112.547	75.142	-43.763	1.00	87.76	QS
ATOM	5073	C	LYS	41	127.467	81.514	-34.267	1.00	39.77	QS17	ATOM	5126	CA	GLU	48	112.078	75.409	-45.114	1.00	87.76	QS
ATOM	5074	O	LYS	41	126.174	81.574	-34.583	1.00	36.45	QS17	ATOM	5127	CB	GLU	48	111.062	76.563	-45.081	1.00	115.81	QS
ATOM	5075	N	TYR	42	125.197	80.618	-34.067	1.00	36.45	QS17	ATOM	5128	CG	GLU	48	109.880	76.341	-44.118	1.00	115.81	QS
ATOM	5076	CA	TYR	42	124.020	81.339	-33.409	1.00	34.41	QS17	ATOM	5129	CD	GLU	48	109.513	77.583	-43.917	1.00	115.81	QS
ATOM	5077	CB	TYR	42	124.383	82.180	-32.222	1.00	34.41	QS17	ATOM	5130	OE1	GLU	48	107.803	77.532	-44.263	1.00	115.81	QS
ATOM	5078	CG	TYR	42	125.252	84.230	-31.278	1.00	34.41	QS17	ATOM	5131	OE2	GLU	48	113.228	75.754	-46.064	1.00	87.76	QS
ATOM	5079	CD1	TYR	42	124.221	81.692	-30.931	1.00	34.41	QS17	ATOM	5132	C	GLU	48	115.662	75.947	-46.401	1.00	69.34	QS
ATOM	5080	CE1	TYR	42	124.569	82.450	-29.816	1.00	34.41	QS17	ATOM	5133	O	GLU	49	115.796	73.682	-47.332	1.00	102.79	QS
ATOM	5081	CD2	TYR	42	125.078	83.718	-29.990	1.00	34.41	QS17	ATOM	5134	N	GLU	49	117.869	73.817	-46.817	1.00	102.79	QS
ATOM	5082	CE2	TYR	42	125.475	84.460	-28.880	1.00	34.41	QS17	ATOM	5135	CA	GLU	49	118.650	74.622	-47.366	1.00	102.79	QS
ATOM	5083	CZ	TYR	42	124.663	79.780	-35.231	1.00	36.45	QS17	ATOM	5136	CB	GLU	49	117.869	73.817	-46.817	1.00	102.79	QS
ATOM	5084	OH	TYR	42	124.397	78.505	-34.996	1.00	43.58	QS17	ATOM	5137	CG	GLU	49	116.449	75.019	-47.610	1.00	102.79	QS
ATOM	5085	C	TYR	42	124.354	76.257	-35.973	1.00	30.92	QS17	ATOM	5138	CD	GLU	49	115.498	77.379	-46.895	1.00	69.34	QS
ATOM	5086	O	TYR	42	123.822	77.678	-36.042	1.00	43.58	QS17	ATOM	5139	OE1	GLU	49	116.214	77.836	-47.781	1.00	69.34	QS
ATOM	5087	N	LEU	43	126.094	74.564	-36.186	1.00	30.92	QS17	ATOM	5140	OE2	GLU	49	114.537	78.064	-46.286	1.00	44.70	QS
ATOM	5088	CA	LEU	43	126.337	76.884	-37.361	1.00	30.92	QS17	ATOM	5141	C	GLU	49	114.143	79.430	-46.593	1.00	44.70	QS
ATOM	5089	CB	LEU	43	122.320	77.681	-35.769	1.00	43.58	QS17	ATOM	5142	O	GLU	49	112.375	81.136	-45.819	1.00	89.62	QS
ATOM	5090	CG	LEU	43	122.320	77.681	-35.769	1.00	43.58	QS17	ATOM	5143	N	LYS	50	111.239	81.312	-44.815	1.00	89.62	QS
ATOM	5091	CD1	LEU	43	126.094	74.564	-36.186	1.00	30.92	QS17	ATOM	5144	CA	LYS	50	110.255	82.391	-45.266	1.00	89.62	QS
ATOM	5092	CD2	LEU	43	126.337	76.884	-37.361	1.00	30.92	QS17	ATOM	5145	CB	LYS	50	109.089	80.472	-44.344	1.00	89.62	QS
ATOM	5093	C	LEU	43	121.859	77.171	-34.738	1.00	43.58	QS17	ATOM	5146	CG	LYS	50	115.258	80.821	-46.759	1.00	44.70	QS
ATOM	5094	O	LEU	43	121.561	78.281	-36.680	1.00	41.63	QS17	ATOM	5147	CD	LYS	50	115.839	80.867	-45.636	1.00	49.31	QS
ATOM	5095	N	ALA	44	119.645	79.781	-36.807	1.00	44.50	QS17	ATOM	5148	CE	LYS	50	115.839	80.867	-45.636	1.00	49.31	QS
ATOM	5096	CA	ALA	44	119.374	77.391	-37.420	1.00	41.63	QS17	ATOM	5149	NZ	LYS	50	117.144	82.219	-44.148	1.00	70.12	QS
ATOM	5097	CB	ALA	44	118.246	76.916	-36.912	1.00	47.04	QS17	ATOM	5150	C	LYS	51	115.839	80.867	-45.636	1.00	49.31	QS
ATOM	5098	C	ALA	44	117.435	75.957	-37.632	1.00	47.04	QS17	ATOM	5151	O	LYS	51	115.839	80.867	-45.636	1.00	49.31	QS
ATOM	5099	O	ALA	44	116.531	75.232	-36.648	1.00	58.02	QS17	ATOM	5152	N	TYR	51	115.839	80.867	-45.636	1.00	49.31	QS
ATOM	5100	N	HIS	45	115.845	74.045	-37.234	1.00	58.02	QS17	ATOM	5153	CA	TYR	51	115.839	80.867	-45.636	1.00	49.31	QS
ATOM	5101	CA	HIS	45	114.566	73.607	-37.118	1.00	58.02	QS17	ATOM	5154	CB	TYR	51	115.839	80.867	-45.636	1.00	49.31	QS
ATOM	5102	CB	HIS	45	116.489	73.140	-38.044	1.00	58.02	QS17	ATOM	5155	CG	TYR	51	115.839	80.867	-45.636	1.00	49.31	QS
ATOM	5103	CG	HIS	45	115.641	72.194	-38.404	1.00	58.02	QS17	ATOM	5156	CD1	TYR	51	115.839	80.867	-45.636	1.00	49.31	QS
ATOM	5104	CD2	HIS	45						QS17	ATOM	5157	CE1	TYR	51						QS1
ATOM	5105	ND1	HIS	45						QS17	ATOM	5158	CD2	TYR	51						QS1
ATOM	5106	CE1	HIS	45						QS17	ATOM	5159	CE2	TYR	51						QS1

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ATOM	5160	C2	TYR	51	113.406	82.875	-42.105	1.00	70.12	OS17	ATOM	5213	OE2	GLU	58	114.210	91.177	-34.163	1.00	68.61	OS.
ATOM	5161	OH	TYR	51	112.210	83.083	-41.450	1.00	70.12	OS17	ATOM	5214	C	GLU	58	116.335	85.856	-35.496	1.00	56.96	OS.
ATOM	5162	OH	TYR	51	118.138	81.618	-46.376	1.00	49.31	OS17	ATOM	5215	O	GLU	58	115.561	85.045	-36.002	1.00	56.96	OS.
ATOM	5163	O	TYR	51	118.732	80.547	-46.276	1.00	49.31	OS17	ATOM	5216	N	ILE	59	117.246	85.534	-34.593	1.00	39.13	OS.
ATOM	5164	N	LYS	52	118.541	82.619	-47.157	1.00	65.39	OS17	ATOM	5217	CA	ILE	59	117.427	84.202	-34.056	1.00	39.13	OS.
ATOM	5165	CA	LYS	52	119.723	82.539	-48.008	1.00	65.39	OS17	ATOM	5218	CG	ILE	59	118.920	83.945	-33.842	1.00	59.21	OS.
ATOM	5166	CB	LYS	52	119.353	82.954	-49.439	1.00	65.39	OS17	ATOM	5219	CG2	ILE	59	119.138	82.664	-33.166	1.00	59.21	OS.
ATOM	5167	CG	LYS	52	118.233	82.111	-50.044	1.00	65.39	OS17	ATOM	5220	CG1	ILE	59	119.622	83.914	-35.191	1.00	59.21	OS.
ATOM	5168	CD	LYS	52	117.966	82.448	-51.510	1.00	65.39	OS17	ATOM	5221	CD1	ILE	59	118.938	83.036	-36.200	1.00	59.21	OS.
ATOM	5169	CE	LYS	52	116.877	81.536	-52.091	1.00	65.39	OS17	ATOM	5222	C	ILE	59	116.678	84.192	-32.730	1.00	39.13	OS.
ATOM	5170	CE	LYS	52	116.589	81.787	-53.536	1.00	65.39	OS17	ATOM	5223	O	ILE	59	116.581	85.223	-32.043	1.00	39.13	OS.
ATOM	5171	C	LYS	52	120.913	83.359	-47.530	1.00	65.39	OS17	ATOM	5224	N	ILE	60	116.143	83.034	-32.365	1.00	33.09	OS.
ATOM	5172	O	LYS	52	120.789	84.253	-46.635	1.00	65.39	OS17	ATOM	5225	CA	ILE	60	115.377	82.945	-31.130	1.00	33.09	OS.
ATOM	5173	N	LEU	53	122.071	83.042	-48.093	1.00	60.32	OS17	ATOM	5226	CB	ILE	60	113.829	82.927	-31.480	1.00	43.29	OS.
ATOM	5174	CA	LEU	53	123.331	83.700	-47.763	1.00	60.32	OS17	ATOM	5227	CG2	ILE	60	113.384	81.526	-31.832	1.00	43.29	OS.
ATOM	5175	CB	LEU	53	124.447	83.071	-48.589	1.00	52.44	OS17	ATOM	5228	CG1	ILE	60	112.982	82.716	-29.076	1.00	43.29	OS.
ATOM	5176	CG	LEU	53	125.891	83.329	-48.186	1.00	52.44	OS17	ATOM	5229	CD1	ILE	60	112.982	82.716	-29.076	1.00	43.29	OS.
ATOM	5177	CD1	LEU	53	126.046	83.251	-46.675	1.00	52.44	OS17	ATOM	5230	C	ILE	60	115.807	81.715	-30.332	1.00	33.09	OS.
ATOM	5178	CD2	LEU	53	126.764	82.289	-48.877	1.00	52.44	OS17	ATOM	5231	O	ILE	60	115.944	80.631	-30.891	1.00	33.09	OS.
ATOM	5179	C	LEU	53	123.293	85.199	-48.015	1.00	60.32	OS17	ATOM	5232	N	GLU	61	116.054	81.900	-29.036	1.00	55.37	OS.
ATOM	5180	O	LEU	53	123.250	85.637	-49.162	1.00	60.32	OS17	ATOM	5233	CA	GLU	61	116.466	80.795	-28.169	1.00	55.37	OS.
ATOM	5181	N	GLY	54	123.317	85.980	-46.940	1.00	51.15	OS17	ATOM	5234	CB	GLU	61	116.591	81.259	-26.707	1.00	58.90	OS.
ATOM	5182	CA	GLY	54	123.278	87.425	-47.076	1.00	51.15	OS17	ATOM	5235	CG	GLU	61	116.980	80.150	-25.736	1.00	58.90	OS.
ATOM	5183	C	GLY	54	122.135	88.064	-46.308	1.00	51.15	OS17	ATOM	5236	CD	GLU	61	117.041	80.583	-24.259	1.00	58.90	OS.
ATOM	5184	O	GLY	54	122.099	89.289	-46.140	1.00	51.15	OS17	ATOM	5237	OE1	GLU	61	117.293	79.697	-23.409	1.00	58.90	OS.
ATOM	5185	N	ASP	55	121.205	87.235	-45.833	1.00	58.82	OS17	ATOM	5238	OE2	GLU	61	116.847	81.778	-23.932	1.00	58.90	OS.
ATOM	5186	CA	ASP	55	120.050	87.716	-45.076	1.00	58.82	OS17	ATOM	5239	C	GLU	61	115.413	79.704	-28.276	1.00	55.37	OS.
ATOM	5187	CB	ASP	55	118.959	86.645	-45.020	1.00	94.13	OS17	ATOM	5240	O	GLU	61	114.233	79.944	-28.044	1.00	55.37	OS.
ATOM	5188	CG	ASP	55	118.221	86.493	-46.319	1.00	94.13	OS17	ATOM	5241	N	SER	62	115.835	78.502	-28.636	1.00	42.63	OS.
ATOM	5189	OD1	ASP	55	117.769	87.520	-46.863	1.00	94.13	OS17	ATOM	5242	CA	SER	62	114.896	77.405	-28.773	1.00	42.63	OS.
ATOM	5190	OD2	ASP	55	118.080	85.346	-46.789	1.00	94.13	OS17	ATOM	5243	CB	SER	62	114.743	77.049	-30.248	1.00	56.95	OS.
ATOM	5191	C	ASP	55	120.346	88.129	-43.641	1.00	58.82	OS17	ATOM	5244	O	SER	62	114.492	78.211	-31.009	1.00	56.95	OS.
ATOM	5192	O	ASP	55	121.137	87.497	-42.944	1.00	58.82	OS17	ATOM	5245	C	SER	62	115.339	76.173	-27.999	1.00	42.63	OS.
ATOM	5193	N	VAL	56	119.712	89.204	-43.200	1.00	52.52	OS17	ATOM	5246	O	SER	62	116.327	76.203	-27.262	1.00	42.63	OS.
ATOM	5194	CA	VAL	56	119.861	89.630	-41.815	1.00	52.52	OS17	ATOM	5247	N	ARG	63	114.586	75.091	-28.169	1.00	58.22	OS.
ATOM	5195	CB	VAL	56	119.729	91.161	-41.638	1.00	47.11	OS17	ATOM	5248	CA	ARG	63	113.894	73.816	-27.537	1.00	52.08	OS.
ATOM	5196	CG1	VAL	56	119.472	91.499	-40.177	1.00	47.11	OS17	ATOM	5249	CB	ARG	63	113.907	71.513	-27.165	1.00	52.08	OS.
ATOM	5197	CG2	VAL	56	121.005	91.845	-42.116	1.00	47.11	OS17	ATOM	5250	CG	ARG	63	113.418	70.708	-28.328	1.00	52.08	OS.
ATOM	5198	O	VAL	56	118.664	88.958	-41.181	1.00	52.52	OS17	ATOM	5251	CD	ARG	63	112.011	70.997	-28.564	1.00	52.08	OS.
ATOM	5199	C	VAL	56	117.577	88.962	-41.759	1.00	52.52	OS17	ATOM	5252	NE	ARG	63	111.317	70.532	-29.593	1.00	52.08	OS.
ATOM	5200	N	VAL	57	118.844	88.374	-40.005	1.00	41.02	OS17	ATOM	5253	CZ	ARG	63	111.905	69.750	-30.494	1.00	52.08	OS.
ATOM	5201	CA	VAL	57	117.731	87.684	-39.382	1.00	41.02	OS17	ATOM	5254	NH1	ARG	63	110.031	70.842	-29.709	1.00	52.08	OS.
ATOM	5202	CG	VAL	57	117.757	86.206	-39.768	1.00	29.46	OS17	ATOM	5255	NH2	ARG	63	115.944	73.143	-28.421	1.00	58.22	OS.
ATOM	5203	CG1	VAL	57	118.923	85.513	-39.078	1.00	29.46	OS17	ATOM	5256	C	ARG	63	115.863	73.201	-29.650	1.00	58.22	OS.
ATOM	5204	CG2	VAL	57	117.682	87.757	-37.870	1.00	41.02	OS17	ATOM	5257	O	ARG	64	116.940	72.487	-27.807	1.00	40.67	OS.
ATOM	5205	C	VAL	57	118.628	88.147	-37.209	1.00	41.02	OS17	ATOM	5258	N	PRO	64	117.142	72.178	-26.378	1.00	26.36	OS.
ATOM	5206	O	VAL	58	116.526	87.378	-37.336	1.00	56.96	OS17	ATOM	5259	CA	PRO	64	117.966	71.846	-28.624	1.00	40.67	OS.
ATOM	5207	N	GLU	58	116.333	87.325	-35.899	1.00	56.96	OS17	ATOM	5260	CB	PRO	64	118.677	70.943	-27.622	1.00	26.36	OS.
ATOM	5208	CA	GLU	58	115.018	87.967	-35.480	1.00	68.61	OS17	ATOM	5261	CG	PRO	64	118.591	71.757	-26.354	1.00	26.36	OS.
ATOM	5209	CB	GLU	58	114.987	89.464	-35.620	1.00	68.61	OS17	ATOM	5262	O	PRO	64	117.421	71.110	-29.839	1.00	40.67	OS.
ATOM	5210	CG	GLU	58	113.941	90.090	-34.721	1.00	68.61	OS17	ATOM	5263	C	PRO	64	116.406	70.420	-29.761	1.00	40.67	OS.
ATOM	5211	CD	GLU	58	112.847	89.494	-34.577	1.00	68.61	OS17	ATOM	5264	O	PRO	64	118.109	71.288	-30.963	1.00	46.80	OS.
ATOM	5212	OE1	GLU	58						OS17	ATOM	5265	N	ILE	65						OS.

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ATOM	5266	CR ⁺ ILE	65	117.744	70.676	-32.235	1.00	46.80	QS17	ATOM	5319	N PHE	71	119.108	77.439	-31.580	1.00	47.52	QS
ATOM	5267	CB ILE	65	117.645	71.738	-33.323	1.00	43.55	QS17	ATOM	5320	CA PHE	71	118.435	78.637	-32.067	1.00	47.52	QS
ATOM	5268	CG2 ILE	65	117.387	71.082	-34.682	1.00	43.55	QS17	ATOM	5321	CB PHE	71	119.456	79.759	-32.272	1.00	36.17	QS
ATOM	5269	CG1 ILE	65	116.570	72.746	-32.932	1.00	43.55	QS17	ATOM	5322	CG PHE	71	119.901	80.419	-30.990	1.00	36.17	QS
ATOM	5270	CD1 ILE	65	116.618	74.031	-33.707	1.00	43.55	QS17	ATOM	5323	CD1 PHE	71	119.105	81.375	-30.370	1.00	36.17	QS
ATOM	5271	C ILE	65	118.837	69.702	-32.635	1.00	46.80	QS17	ATOM	5324	CD2 PHE	71	121.108	80.061	-30.385	1.00	36.17	QS
ATOM	5272	O ILE	65	118.511	68.603	-33.116	1.00	46.80	QS17	ATOM	5325	CE1 PHE	71	119.494	81.965	-29.172	1.00	36.17	QS
ATOM	5273	N SER	66	120.071	70.146	-32.440	1.00	46.02	QS17	ATOM	5326	CE2 PHE	71	121.510	80.646	-29.177	1.00	36.17	QS
ATOM	5274	CA SER	66	121.259	69.376	-32.742	1.00	46.02	QS17	ATOM	5327	C2 PHE	71	120.698	81.600	-28.572	1.00	36.17	QS
ATOM	5275	OG SER	66	121.872	69.850	-34.053	1.00	90.98	QS17	ATOM	5328	C PHE	71	117.643	78.407	-33.345	1.00	47.52	QS
ATOM	5276	OG SER	66	123.024	69.091	-34.348	1.00	90.98	QS17	ATOM	5329	O PHE	71	118.019	77.599	-34.202	1.00	47.52	QS
ATOM	5277	C SER	66	122.204	69.686	-31.595	1.00	46.02	QS17	ATOM	5330	N ARG	72	116.530	79.120	-33.458	1.00	45.35	QS
ATOM	5278	O SER	66	121.805	70.334	-30.631	1.00	46.02	QS17	ATOM	5331	CA ARG	72	115.673	79.003	-34.623	1.00	45.35	QS
ATOM	5279	N LYS	67	123.437	69.204	-31.676	1.00	58.06	QS17	ATOM	5332	CB ARG	72	114.318	78.424	-34.227	1.00	31.95	QS
ATOM	5280	CA LYS	67	124.441	69.490	-30.656	1.00	58.06	QS17	ATOM	5333	CG ARG	72	114.375	77.001	-33.719	1.00	31.95	QS
ATOM	5281	CB LYS	67	125.531	68.440	-30.674	1.00	29.00	QS17	ATOM	5334	CD ARG	72	112.984	76.451	-33.490	1.00	31.95	QS
ATOM	5282	CG LYS	67	126.830	68.903	-30.052	1.00	29.00	QS17	ATOM	5335	NE ARG	72	112.276	77.204	-32.466	1.00	31.95	QS
ATOM	5283	CD LYS	67	127.916	67.958	-30.440	1.00	29.00	QS17	ATOM	5336	C2 ARG	72	110.959	77.190	-32.318	1.00	31.95	QS
ATOM	5284	CE LYS	67	129.253	68.351	-29.879	1.00	29.00	QS17	ATOM	5337	NH1 ARG	72	110.211	76.459	-33.138	1.00	31.95	QS
ATOM	5285	NZ LYS	67	130.287	67.449	-30.475	1.00	29.00	QS17	ATOM	5338	NH2 ARG	72	110.395	77.901	-31.351	1.00	31.95	QS
ATOM	5286	C LYS	67	125.044	70.780	-31.137	1.00	58.06	QS17	ATOM	5339	C ARG	72	115.470	80.337	-35.327	1.00	45.35	QS
ATOM	5287	O LYS	67	125.506	70.842	-32.269	1.00	58.06	QS17	ATOM	5340	O ARG	72	115.608	81.412	-34.732	1.00	45.35	QS
ATOM	5288	N ARG	68	125.085	71.812	-30.317	1.00	66.58	QS17	ATOM	5341	N TYR	73	115.133	80.233	-36.604	1.00	62.14	QS
ATOM	5289	CA ARG	68	125.640	73.053	-30.840	1.00	66.58	QS17	ATOM	5342	CB TYR	73	114.903	81.369	-37.469	1.00	62.14	QS
ATOM	5290	CB ARG	68	127.007	72.785	-31.490	1.00	70.42	QS17	ATOM	5343	CA TYR	73	114.842	80.886	-38.898	1.00	98.41	QS
ATOM	5291	CG ARG	68	127.606	73.986	-32.158	1.00	70.42	QS17	ATOM	5344	CG TYR	73	115.933	81.479	-39.684	1.00	98.41	QS
ATOM	5292	CD ARG	68	129.011	73.742	-32.620	1.00	70.42	QS17	ATOM	5345	CD1 TYR	73	116.954	80.695	-40.197	1.00	98.41	QS
ATOM	5293	NE ARG	68	129.635	75.024	-32.907	1.00	70.42	QS17	ATOM	5346	CE1 TYR	73	118.012	81.270	-40.861	1.00	98.41	QS
ATOM	5294	CZ ARG	68	129.208	75.858	-33.847	1.00	70.42	QS17	ATOM	5347	CD2 TYR	73	115.993	82.847	-39.857	1.00	98.41	QS
ATOM	5295	NH1 ARG	68	128.166	75.530	-34.587	1.00	70.42	QS17	ATOM	5348	CE2 TYR	73	117.034	83.420	-40.509	1.00	98.41	QS
ATOM	5296	NH2 ARG	68	129.803	77.028	-34.036	1.00	70.42	QS17	ATOM	5349	C2 TYR	73	118.049	82.640	-41.012	1.00	98.41	QS
ATOM	5297	C ARG	68	124.649	73.533	-31.903	1.00	66.58	QS17	ATOM	5350	OH TYR	73	119.104	83.238	-41.654	1.00	62.14	QS
ATOM	5298	O ARG	68	124.969	73.578	-33.088	1.00	66.58	QS17	ATOM	5351	C TYR	73	113.630	82.130	-37.168	1.00	62.14	QS
ATOM	5299	N LYS	69	123.443	73.865	-31.456	1.00	46.80	QS17	ATOM	5352	O TYR	73	112.596	81.878	-37.792	1.00	62.14	QS
ATOM	5300	CA LYS	69	122.343	74.316	-32.309	1.00	46.80	QS17	ATOM	5353	N LEU	74	113.682	83.078	-36.243	1.00	55.61	QS
ATOM	5301	CB LYS	69	122.065	73.292	-33.418	1.00	32.39	QS17	ATOM	5354	CA LEU	74	112.469	83.815	-35.925	1.00	55.61	QS
ATOM	5302	CG LYS	69	121.024	73.736	-34.405	1.00	32.39	QS17	ATOM	5355	CB LEU	74	112.721	84.866	-34.848	1.00	25.69	QS
ATOM	5303	CD LYS	69	121.062	72.928	-35.712	1.00	32.39	QS17	ATOM	5356	CG LEU	74	111.520	85.147	-33.942	1.00	25.69	QS
ATOM	5304	CE LYS	69	119.880	73.358	-36.612	1.00	32.39	QS17	ATOM	5357	CD1 LEU	74	111.803	86.380	-33.092	1.00	25.69	QS
ATOM	5305	NZ LYS	69	119.695	72.595	-37.874	1.00	32.39	QS17	ATOM	5358	CD2 LEU	74	110.271	85.354	-34.775	1.00	25.69	QS
ATOM	5306	C LYS	69	121.135	74.434	-31.377	1.00	46.80	QS17	ATOM	5359	C LEU	74	111.934	84.240	-37.175	1.00	55.61	QS
ATOM	5307	O LYS	69	120.382	73.478	-31.167	1.00	46.80	QS17	ATOM	5360	O LEU	74	110.801	84.240	-37.567	1.00	55.61	QS
ATOM	5308	N ARG	70	120.993	75.624	-30.802	1.00	49.74	QS17	ATOM	5361	N ARG	75	112.748	85.332	-37.807	1.00	58.75	QS
ATOM	5309	CA ARG	70	119.934	75.942	-29.855	1.00	49.74	QS17	ATOM	5362	CA ARG	75	112.311	86.036	-39.010	1.00	58.75	QS
ATOM	5310	CB ARG	70	120.530	76.191	-28.469	1.00	43.02	QS17	ATOM	5363	CB ARG	75	111.187	87.015	-38.666	1.00	59.59	QS
ATOM	5311	CG ARG	70	120.872	74.974	-27.649	1.00	43.02	QS17	ATOM	5364	CG ARG	75	111.606	88.115	-37.739	1.00	59.59	QS
ATOM	5312	CD ARG	70	121.902	74.060	-28.272	1.00	43.02	QS17	ATOM	5365	CD ARG	75	110.460	89.039	-37.480	1.00	59.59	QS
ATOM	5313	NE ARG	70	122.093	72.928	-27.372	1.00	43.02	QS17	ATOM	5366	NE ARG	75	110.904	90.253	-36.802	1.00	59.59	QS
ATOM	5314	C2 ARG	70	122.521	71.724	-27.732	1.00	43.02	QS17	ATOM	5367	C2 ARG	75	111.619	91.224	-37.372	1.00	59.59	QS
ATOM	5315	NH1 ARG	70	122.823	71.467	-28.993	1.00	43.02	QS17	ATOM	5368	NH1 ARG	75	111.978	91.137	-38.647	1.00	59.59	QS
ATOM	5316	NH2 ARG	70	122.618	70.766	-26.822	1.00	43.02	QS17	ATOM	5369	NH2 ARG	75	111.983	92.285	-36.663	1.00	59.59	QS
ATOM	5317	C ARG	70	119.206	77.206	-30.276	1.00	49.74	QS17	ATOM	5370	C ARG	75	113.401	86.794	-39.762	1.00	58.75	QS
ATOM	5318	O ARG	70	118.747	77.972	-29.422	1.00	49.74	QS17	ATOM	5371	O ARG	75	114.545	86.917	-39.310	1.00	58.75	QS

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ATOM	5372	N	LEU	76	113.016	87.323	-40.915	1.00	59.37	OS17	ATOM	5425	N	ASP	83	127.693	92.740	-48.406	1.00	61.55	Q
ATOM	5373	CA	LEU	76	113.938	88.060	-41.763	1.00	59.37	OS17	ATOM	5426	CA	ASP	83	128.741	93.605	-47.894	1.00	61.55	Q
ATOM	5374	CB	LEU	76	113.695	87.675	-43.221	1.00	52.84	OS17	ATOM	5427	CB	ASP	83	128.225	95.040	-47.751	1.00	91.36	Q
ATOM	5375	CG	LEU	76	114.663	88.270	-44.235	1.00	52.84	OS17	ATOM	5428	CG	ASP	83	127.047	95.148	-46.807	1.00	91.36	Q
ATOM	5376	CD1	LEU	76	114.460	87.598	-45.567	1.00	52.84	OS17	ATOM	5429	CD1	ASP	83	126.000	94.534	-47.090	1.00	91.36	Q
ATOM	5377	CD2	LEU	76	114.448	89.770	-44.348	1.00	52.84	OS17	ATOM	5430	OD2	ASP	83	127.168	95.851	-45.784	1.00	91.36	Q
ATOM	5378	C	LEU	76	113.798	89.566	-41.586	1.00	59.37	OS17	ATOM	5431	C	ASP	83	129.245	93.088	-46.548	1.00	61.55	Q
ATOM	5379	O	LEU	76	112.738	90.124	-41.833	1.00	59.37	OS17	ATOM	5432	O	ASP	83	130.435	93.202	-46.241	1.00	61.55	Q
ATOM	5380	N	VAL	77	114.878	90.223	-41.180	1.00	51.31	OS17	ATOM	5433	N	LEU	84	128.339	92.508	-45.759	1.00	64.14	Q
ATOM	5381	CA	VAL	77	114.864	91.667	-40.969	1.00	51.31	OS17	ATOM	5434	CA	LEU	84	128.676	91.960	-44.442	1.00	64.14	Q
ATOM	5382	CB	VAL	77	115.932	92.067	-39.950	1.00	42.65	OS17	ATOM	5435	CB	LEU	84	127.419	91.853	-43.585	1.00	49.27	Q
ATOM	5383	CG1	VAL	77	115.941	93.565	-39.768	1.00	42.65	OS17	ATOM	5436	CG	LEU	84	126.990	93.173	-42.954	1.00	49.27	Q
ATOM	5384	CG2	VAL	77	115.660	91.382	-38.637	1.00	42.65	OS17	ATOM	5437	CD1	LEU	84	125.671	93.006	-42.208	1.00	49.27	Q
ATOM	5385	C	VAL	77	115.079	92.455	-42.267	1.00	51.31	OS17	ATOM	5438	CD2	LEU	84	128.096	93.640	-42.018	1.00	49.27	Q
ATOM	5386	O	VAL	77	114.364	93.410	-42.546	1.00	51.31	OS17	ATOM	5439	C	LEU	84	129.336	90.591	-44.537	1.00	64.14	Q
ATOM	5387	N	GLU	78	116.082	92.072	-43.043	1.00	58.83	OS17	ATOM	5440	N	LEU	84	130.335	90.308	-43.875	1.00	64.14	Q
ATOM	5388	CA	GLU	78	116.350	92.723	-44.314	1.00	58.83	OS17	ATOM	5441	CA	VAL	85	128.756	89.734	-45.358	1.00	42.67	Q
ATOM	5389	CB	GLU	78	117.171	94.004	-44.135	1.00	94.32	OS17	ATOM	5442	CB	VAL	85	129.300	88.411	-45.552	1.00	42.67	Q
ATOM	5390	CG	GLU	78	118.587	93.809	-43.657	1.00	94.32	OS17	ATOM	5443	CG	VAL	85	128.512	87.656	-46.639	1.00	75.82	Q
ATOM	5391	CD	GLU	78	119.487	94.969	-44.048	1.00	94.32	OS17	ATOM	5444	CG1	VAL	85	129.090	86.265	-46.832	1.00	75.82	Q
ATOM	5392	OE1	GLU	78	119.671	95.190	-45.265	1.00	94.32	OS17	ATOM	5445	CG2	VAL	85	127.044	87.577	-46.249	1.00	75.82	Q
ATOM	5393	OE2	GLU	78	120.008	95.661	-43.146	1.00	94.32	OS17	ATOM	5446	C	VAL	85	130.765	88.529	-45.966	1.00	42.67	Q
ATOM	5394	C	GLU	78	117.094	91.717	-45.177	1.00	58.83	OS17	ATOM	5447	O	VAL	85	131.606	87.778	-45.466	1.00	42.67	Q
ATOM	5395	O	GLU	78	118.021	91.050	-44.716	1.00	58.83	OS17	ATOM	5448	N	GLU	86	131.069	89.482	-46.846	1.00	60.43	Q
ATOM	5396	N	SER	79	116.674	91.597	-46.431	1.00	66.66	OS17	ATOM	5449	CA	GLU	86	132.440	90.812	-47.318	1.00	60.43	Q
ATOM	5397	CA	SER	79	117.275	90.631	-47.337	1.00	66.66	OS17	ATOM	5450	CB	GLU	86	132.505	89.671	-48.330	1.00	60.43	Q
ATOM	5398	CB	SER	79	116.288	90.280	-48.456	1.00	77.53	OS17	ATOM	5451	CG	GLU	86	131.851	90.476	-49.649	1.00	60.43	Q
ATOM	5399	OG	SER	79	116.776	89.211	-49.252	1.00	77.53	OS17	ATOM	5452	CD	GLU	86	132.074	91.547	-50.691	1.00	60.43	Q
ATOM	5400	C	SER	79	118.597	91.053	-47.952	1.00	66.66	OS17	ATOM	5453	OE1	GLU	86	133.249	91.831	-51.005	1.00	60.43	Q
ATOM	5401	O	SER	79	119.028	92.203	-47.833	1.00	66.66	OS17	ATOM	5454	OE2	GLU	86	131.077	92.105	-51.197	1.00	60.43	Q
ATOM	5402	N	GLY	80	119.219	90.077	-48.605	1.00	95.44	OS17	ATOM	5455	C	GLU	86	133.419	89.935	-46.182	1.00	60.43	Q
ATOM	5403	CA	GLY	80	120.487	90.251	-49.286	1.00	95.44	OS17	ATOM	5456	O	GLU	86	134.490	89.332	-46.141	1.00	60.43	Q
ATOM	5404	C	GLY	80	121.307	91.494	-49.014	1.00	95.44	OS17	ATOM	5457	N	LYS	87	133.062	90.840	-45.271	1.00	63.51	Q
ATOM	5405	O	GLY	80	120.890	92.614	-49.295	1.00	95.44	OS17	ATOM	5458	CA	LYS	87	133.927	91.136	-44.137	1.00	63.51	Q
ATOM	5406	N	ARG	81	122.491	91.274	-48.460	1.00	69.73	OS17	ATOM	5459	CB	LYS	87	133.196	91.943	-43.065	1.00	76.44	Q
ATOM	5407	CA	ARG	81	123.434	92.335	-48.163	1.00	69.73	OS17	ATOM	5460	CG	LYS	87	133.103	93.441	-43.262	1.00	76.44	Q
ATOM	5408	CB	ARG	81	122.939	93.192	-47.010	1.00	63.96	OS17	ATOM	5461	CD	LYS	87	132.473	94.042	-42.005	1.00	76.44	Q
ATOM	5409	CG	ARG	81	122.759	92.481	-45.722	1.00	63.96	OS17	ATOM	5462	CE	LYS	87	131.934	95.451	-42.217	1.00	76.44	Q
ATOM	5410	CD	ARG	81	122.640	93.545	-44.699	1.00	63.96	OS17	ATOM	5463	NZ	LYS	87	130.898	95.800	-41.176	1.00	76.44	Q
ATOM	5411	NE	ARG	81	123.767	94.452	-44.831	1.00	63.96	OS17	ATOM	5464	C	LYS	87	134.302	89.797	-43.534	1.00	63.51	Q
ATOM	5412	CZ	ARG	81	123.740	95.726	-44.467	1.00	63.96	OS17	ATOM	5465	O	LYS	87	135.474	89.455	-43.431	1.00	63.51	Q
ATOM	5413	NH1	ARG	81	122.635	96.245	-43.947	1.00	63.96	OS17	ATOM	5466	N	TYR	88	133.281	89.045	-43.140	1.00	80.67	Q
ATOM	5414	NH2	ARG	81	124.819	96.479	-44.621	1.00	63.96	OS17	ATOM	5467	CA	TYR	88	133.466	87.734	-42.540	1.00	80.67	Q
ATOM	5415	C	ARG	81	124.786	91.691	-47.850	1.00	69.73	OS17	ATOM	5468	CB	TYR	88	132.102	87.079	-42.290	1.00	56.06	Q
ATOM	5416	O	ARG	81	125.228	91.580	-46.694	1.00	69.73	OS17	ATOM	5469	CG	TYR	88	132.208	85.624	-41.896	1.00	56.06	Q
ATOM	5417	N	MET	82	125.415	91.264	-48.941	1.00	72.83	OS17	ATOM	5470	CD1	TYR	88	132.741	85.257	-40.615	1.00	56.06	Q
ATOM	5418	CA	MET	82	126.705	90.595	-48.963	1.00	72.83	OS17	ATOM	5471	CE1	TYR	88	132.893	83.916	-40.315	1.00	56.06	Q
ATOM	5419	CB	MET	82	127.013	90.195	-50.403	1.00	93.63	OS17	ATOM	5472	CD2	TYR	88	131.825	84.612	-42.778	1.00	56.06	Q
ATOM	5420	CG	MET	82	125.851	89.508	-51.107	1.00	93.63	OS17	ATOM	5473	CE2	TYR	88	131.972	83.272	-42.444	1.00	56.06	Q
ATOM	5421	SD	MET	82	125.453	87.909	-50.381	1.00	93.63	OS17	ATOM	5474	CZ	TYR	88	132.507	82.930	-41.209	1.00	56.06	Q
ATOM	5422	CE	MET	82	126.658	86.839	-51.231	1.00	93.63	OS17	ATOM	5475	CH	TYR	88	132.651	81.606	-40.857	1.00	56.06	Q
ATOM	5423	C	MET	82	127.854	91.426	-48.413	1.00	72.83	OS17	ATOM	5476	O	TYR	88	134.342	86.794	-43.383	1.00	80.67	Q
ATOM	5424	O	MET	82	128.880	90.885	-48.017	1.00	72.83	OS17	ATOM	5477	O	TYR	88	135.264	86.160	-42.864	1.00	80.67	Q

ATOM	5478	N	LEU	89	134.060	86.700	-44.678	1.00	41.88	QS17	ATOM	5531	C	ASN	94	144.238	85.008	-43.135	1.00	58.87	QS1
ATOM	5479	CA	LEU	89	134.830	85.811	-45.552	1.00	41.88	QS17	ATOM	5532	O	ASN	94	145.450	84.860	-43.054	1.00	58.87	QS1
ATOM	5480	CB	LEU	89	134.153	85.690	-46.929	1.00	45.68	QS17	ATOM	5533	N	TYR	95	143.380	84.189	-42.544	1.00	59.54	QS1
ATOM	5481	CG	LEU	89	132.785	85.003	-47.019	1.00	45.68	QS17	ATOM	5534	CA	TYR	95	143.854	83.061	-41.752	1.00	59.54	QS1
ATOM	5482	CD1	LEU	89	132.248	85.103	-48.437	1.00	45.68	QS17	ATOM	5535	CB	TYR	95	142.656	82.210	-41.292	1.00	79.65	QS1
ATOM	5483	CD2	LEU	89	132.921	83.555	-46.591	1.00	45.68	QS17	ATOM	5536	CG	TYR	95	141.876	82.913	-40.200	1.00	79.65	QS1
ATOM	5484	O	LEU	89	136.271	86.274	-45.731	1.00	41.88	QS17	ATOM	5537	CD1	TYR	95	142.010	84.295	-40.036	1.00	79.65	QS1
ATOM	5485	O	LEU	89	137.204	85.466	-45.713	1.00	41.88	QS17	ATOM	5538	CE1	TYR	95	141.350	84.977	-39.024	1.00	79.65	QS1
ATOM	5486	N	ILE	90	136.443	87.577	-45.918	1.00	44.56	QS17	ATOM	5539	CD2	TYR	95	141.040	82.219	-39.322	1.00	79.65	QS1
ATOM	5487	CA	ILE	90	137.765	88.148	-46.099	1.00	44.56	QS17	ATOM	5540	CE2	TYR	95	140.362	82.897	-38.294	1.00	79.65	QS1
ATOM	5488	CB	ILE	90	137.686	89.662	-46.328	1.00	61.87	QS17	ATOM	5541	CZ	TYR	95	140.531	84.286	-38.156	1.00	79.65	QS1
ATOM	5489	CG2	ILE	90	139.038	90.303	-46.092	1.00	61.87	QS17	ATOM	5542	OH	TYR	95	139.918	85.024	-37.164	1.00	79.65	QS1
ATOM	5490	CG1	ILE	90	137.177	89.930	-47.746	1.00	61.87	QS17	ATOM	5543	C	TYR	95	144.878	82.239	-42.520	1.00	59.54	QS1
ATOM	5491	CD1	ILE	90	137.015	91.412	-48.095	1.00	61.87	QS17	ATOM	5544	O	TYR	95	144.845	81.729	-41.942	1.00	59.54	QS1
ATOM	5492	C	ILE	90	138.606	87.866	-44.874	1.00	44.56	QS17	ATOM	5545	N	GLN	96	144.681	82.151	-43.830	1.00	63.87	QS1
ATOM	5493	O	ILE	90	139.796	87.597	-44.988	1.00	44.56	QS17	ATOM	5546	CA	GLN	96	145.583	81.405	-44.691	1.00	63.87	QS1
ATOM	5494	N	ARG	91	137.986	87.914	-43.699	1.00	48.76	QS17	ATOM	5547	CB	GLN	96	145.078	81.472	-46.138	1.00	68.42	QS1
ATOM	5495	CA	ARG	91	138.714	87.653	-42.464	1.00	48.76	QS17	ATOM	5548	CG	GLN	96	145.782	80.538	-47.109	1.00	68.42	QS1
ATOM	5496	CB	ARG	91	137.869	88.030	-41.248	1.00	105.71	QS17	ATOM	5549	CD	GLN	96	147.098	81.095	-47.615	1.00	68.42	QS1
ATOM	5497	CD	ARG	91	138.674	88.590	-40.086	1.00	105.71	QS17	ATOM	5550	OE1	GLN	96	148.132	82.402	-48.273	1.00	68.42	QS1
ATOM	5498	CG	ARG	91	137.808	88.685	-38.853	1.00	105.71	QS17	ATOM	5551	NE2	GLN	96	148.190	80.402	-47.312	1.00	63.87	QS1
ATOM	5499	NE	ARG	91	136.489	89.217	-39.180	1.00	105.71	QS17	ATOM	5552	C	GLN	96	146.999	81.979	-44.579	1.00	63.87	QS1
ATOM	5500	CZ	ARG	91	135.383	88.939	-38.496	1.00	105.71	QS17	ATOM	5553	O	GLN	96	147.974	81.234	-44.446	1.00	63.87	QS1
ATOM	5501	NH1	ARG	91	135.438	88.132	-37.339	1.00	105.71	QS17	ATOM	5554	N	SER	97	147.102	83.305	-44.598	1.00	132.50	QS1
ATOM	5502	NH2	ARG	91	134.219	89.454	-38.881	1.00	105.71	QS17	ATOM	5555	CA	SER	97	148.397	83.981	-44.531	1.00	132.50	QS1
ATOM	5503	C	ARG	91	139.078	86.174	-42.405	1.00	48.76	QS17	ATOM	5556	CB	SER	97	148.230	85.477	-44.821	1.00	85.59	QS1
ATOM	5504	O	ARG	91	140.123	85.801	-41.873	1.00	48.76	QS17	ATOM	5557	OG	SER	97	147.700	86.170	-43.704	1.00	85.59	QS1
ATOM	5505	N	ARG	92	138.209	85.334	-42.955	1.00	60.16	QS17	ATOM	5558	C	SER	97	149.169	83.838	-43.223	1.00	132.50	QS1
ATOM	5506	CA	ARG	92	138.466	83.902	-42.976	1.00	60.16	QS17	ATOM	5559	O	SER	97	150.286	83.298	-43.221	1.00	132.50	QS1
ATOM	5507	CB	ARG	92	137.259	83.151	-43.538	1.00	122.61	QS17	ATOM	5560	N	LEU	98	148.577	84.267	-42.119	1.00	55.97	QS1
ATOM	5508	CG	ARG	92	137.470	81.650	-43.624	1.00	122.61	QS17	ATOM	5561	CA	LEU	98	149.226	84.211	-40.804	1.00	55.97	QS1
ATOM	5509	CD	ARG	92	136.440	80.985	-44.512	1.00	122.61	QS17	ATOM	5562	CB	LEU	98	148.413	85.027	-39.785	1.00	55.15	QS1
ATOM	5510	CE	ARG	92	135.081	81.174	-44.021	1.00	122.61	QS17	ATOM	5563	CG	LEU	98	146.887	84.944	-39.793	1.00	55.15	QS1
ATOM	5511	NH1	ARG	92	134.000	80.684	-44.620	1.00	122.61	QS17	ATOM	5564	CD1	LEU	98	146.449	83.512	-39.589	1.00	55.15	QS1
ATOM	5512	NH1	ARG	92	134.124	79.974	-45.734	1.00	122.61	QS17	ATOM	5565	CD2	LEU	98	146.322	85.834	-38.711	1.00	55.15	QS1
ATOM	5513	NH2	ARG	92	132.797	80.901	-44.105	1.00	122.61	QS17	ATOM	5566	C	LEU	98	149.583	82.850	-40.194	1.00	55.97	QS1
ATOM	5514	C	ARG	92	139.679	83.662	-43.873	1.00	60.16	QS17	ATOM	5567	O	LEU	98	149.678	82.733	-38.970	1.00	55.97	QS1
ATOM	5515	O	ARG	92	140.491	82.763	-43.631	1.00	60.16	QS17	ATOM	5568	N	SER	99	149.799	81.835	-41.032	1.00	78.12	QS1
ATOM	5516	N	GLN	93	139.790	84.491	-44.905	1.00	70.21	QS17	ATOM	5569	CA	SER	99	150.175	80.507	-40.545	1.00	78.12	QS1
ATOM	5517	CA	GLN	93	140.873	84.409	-45.876	1.00	70.21	QS17	ATOM	5570	CB	SER	99	149.721	79.424	-41.529	1.00	124.08	QS1
ATOM	5518	CG	GLN	93	140.586	85.366	-47.024	1.00	95.18	QS17	ATOM	5571	OG	SER	99	150.371	79.560	-42.779	1.00	124.08	QS1
ATOM	5519	CG	GLN	93	140.839	84.782	-48.383	1.00	95.18	QS17	ATOM	5572	C	SER	99	151.696	80.462	-40.381	1.00	78.12	QS1
ATOM	5520	CD	GLN	93	140.010	85.467	-49.444	1.00	95.18	QS17	ATOM	5573	O	SER	99	152.310	81.474	-40.058	1.00	78.12	QS1
ATOM	5521	OE1	GLN	93	138.784	85.565	-49.324	1.00	95.18	QS17	ATOM	5574	N	LYS	100	152.302	79.295	-40.586	1.00	165.22	QS1
ATOM	5522	NE2	GLN	93	140.668	85.943	-50.493	1.00	95.18	QS17	ATOM	5575	CA	LYS	100	153.757	79.158	-40.478	1.00	165.22	QS1
ATOM	5523	C	GLN	93	142.253	84.707	-45.294	1.00	70.21	QS17	ATOM	5576	CB	LYS	100	154.185	78.873	-39.036	1.00	62.49	QS1
ATOM	5524	O	GLN	93	143.201	83.962	-45.541	1.00	70.21	QS17	ATOM	5577	CG	LYS	100	153.874	79.977	-38.037	1.00	62.49	QS1
ATOM	5525	N	ASN	94	142.370	85.793	-44.528	1.00	58.87	QS17	ATOM	5578	CD	LYS	100	154.470	79.612	-36.681	1.00	62.49	QS1
ATOM	5526	CA	ASN	94	143.653	86.158	-43.935	1.00	58.87	QS17	ATOM	5579	CE	LYS	100	154.281	80.723	-35.653	1.00	62.49	QS1
ATOM	5527	CB	ASN	94	143.528	87.377	-43.018	1.00	74.90	QS17	ATOM	5580	NZ	LYS	100	154.975	80.430	-34.362	1.00	62.49	QS1
ATOM	5528	CG	ASN	94	143.094	88.630	-43.754	1.00	74.90	QS17	ATOM	5581	O	LYS	100	154.262	78.037	-41.379	1.00	165.22	QS1
ATOM	5529	OD1	ASN	94	143.407	88.829	-44.933	1.00	74.90	QS17	ATOM	5582	O	LYS	100	154.869	77.071	-40.914	1.00	165.22	QS1
ATOM	5530	ND2	ASN	94	142.379	89.500	-43.047	1.00	74.90	QS17	ATOM	5583	N	ARG	101	153.998	78.181	-42.672	1.00	142.94	QS1

ATOM	5584	CA	ARG	101	154.405	77.209	-43.678	1.00142.94	OS17	ATOM	5637	NZ	LVS	21	179.676	140.147	-58.044	1.0082.92	RS
ATOM	5585	DB	ARG	101	155.914	76.953	-43.603	1.00157.03	OS17	ATOM	5638	C	LVS	21	180.498	139.583	-65.023	1.0091.88	RS
ATOM	5586	CG	ARG	101	156.514	76.522	-44.935	1.00157.03	OS17	ATOM	5639	O	LVS	21	180.361	140.500	-65.831	1.0091.88	RS
ATOM	5587	CD	ARG	101	156.258	77.592	-46.001	1.00157.03	OS17	ATOM	5640	N	VAL	22	180.630	138.313	-65.393	1.0078.89	RS
ATOM	5588	NE	ARG	101	156.735	77.215	-47.330	1.00157.03	OS17	ATOM	5641	CA	VAL	22	180.627	137.930	-66.802	1.0078.89	RS
ATOM	5589	CZ	ARG	101	156.233	76.221	-48.054	1.00157.03	OS17	ATOM	5642	CB	VAL	22	180.887	136.414	-66.967	1.0064.33	RS
ATOM	5590	NH1	ARG	101	155.231	75.490	-47.584	1.00157.03	OS17	ATOM	5643	CG1	VAL	22	180.602	135.984	-68.399	1.0064.33	RS
ATOM	5591	NH2	ARG	101	156.730	75.965	-49.256	1.00157.03	OS17	ATOM	5644	CG2	VAL	22	182.336	136.095	-66.605	1.0064.33	RS
ATOM	5592	C	ARG	101	153.653	75.895	-43.532	1.00142.94	OS17	ATOM	5645	C	VAL	22	179.311	138.288	-67.488	1.0078.89	RS
ATOM	5593	ARG	101	153.706	75.038	-44.418	1.00142.94	OS17	ATOM	5646	O	VAL	22	179.281	138.562	-68.689	1.0078.89	RS	
ATOM	5594	N	GLY	102	152.952	75.742	-42.412	1.00189.95	OS17	ATOM	5647	N	LVS	23	178.228	138.288	-66.716	1.00100.87	RS
ATOM	5595	CA	GLY	102	152.195	74.528	-42.172	1.00189.95	OS17	ATOM	5648	CA	LVS	23	176.901	138.612	-67.229	1.00100.87	RS
ATOM	5596	C	GLY	102	151.215	74.257	-43.296	1.00189.95	OS17	ATOM	5649	CB	LVS	23	175.840	138.228	-66.197	1.00124.19	RS
ATOM	5597	O	GLY	102	150.075	74.728	-43.256	1.00189.95	OS17	ATOM	5650	CG	LVS	23	174.430	138.589	-66.600	1.00124.19	RS
ATOM	5598	N	GLY	103	151.659	73.493	-44.293	1.00141.20	OS17	ATOM	5651	CD	LVS	23	173.434	138.211	-65.527	1.00124.19	RS
ATOM	5599	CA	GLY	103	150.813	73.182	-45.432	1.00141.20	OS17	ATOM	5652	CE	LVS	23	172.024	138.551	-65.971	1.00124.19	RS
ATOM	5600	C	GLY	103	150.841	74.336	-46.413	1.00141.20	OS17	ATOM	5653	NZ	LVS	23	171.008	138.166	-64.956	1.00124.19	RS
ATOM	5601	O	GLY	103	151.822	74.509	-47.137	1.00141.20	OS17	ATOM	5654	C	LVS	23	176.779	140.099	-67.563	1.00100.87	RS
ATOM	5602	N	LVS	104	149.771	75.130	-46.430	1.00162.49	OS17	ATOM	5655	O	LVS	23	176.366	140.462	-68.663	1.00100.87	RS
ATOM	5603	CA	LVS	104	149.684	76.286	-47.320	1.00162.49	OS17	ATOM	5656	N	ALA	24	177.133	140.952	-66.605	1.00107.41	RS
ATOM	5604	CB	LVS	104	148.307	76.349	-47.999	1.00108.79	OS17	ATOM	5657	CA	ALA	24	177.073	142.398	-66.798	1.00107.41	RS
ATOM	5605	CG	LVS	104	148.121	77.576	-48.897	1.00108.79	OS17	ATOM	5658	CB	ALA	24	177.688	143.110	-65.600	1.00103.06	RS
ATOM	5606	CD	LVS	104	146.795	77.562	-49.645	1.00108.79	OS17	ATOM	5659	C	ALA	24	177.827	142.770	-68.065	1.00107.41	RS
ATOM	5607	CE	LVS	104	146.744	76.443	-50.671	1.00108.79	OS17	ATOM	5660	O	ALA	24	177.302	143.457	-68.941	1.00107.41	RS
ATOM	5608	NZ	LVS	104	145.460	76.465	-51.426	1.00108.79	OS17	ATOM	5661	N	THR	25	179.072	142.311	-68.142	1.00114.09	RS
ATOM	5609	C	LVS	104	149.956	77.599	-46.576	1.00162.49	OS17	ATOM	5662	CA	THR	25	179.924	142.566	-69.294	1.00114.09	RS
ATOM	5610	O	LVS	104	149.156	78.041	-45.745	1.00162.49	OS17	ATOM	5663	CB	THR	25	181.395	142.217	-68.978	1.00126.56	RS
ATOM	5611	N	ALA	105	151.096	78.210	-46.886	1.00158.60	OS17	ATOM	5664	CG1	THR	25	181.826	142.958	-67.828	1.00126.56	RS
ATOM	5612	CA	ALA	105	151.497	79.469	-46.273	1.00158.60	OS17	ATOM	5665	CG2	THR	25	182.292	142.555	-70.164	1.00126.56	RS
ATOM	5613	CB	ALA	105	152.344	79.198	-45.035	1.0092.76	OS17	ATOM	5666	C	THR	25	179.437	141.673	-70.426	1.00114.09	RS
ATOM	5614	C	ALA	105	152.285	80.311	-47.273	1.00158.60	OS17	ATOM	5667	O	THR	25	180.120	140.726	-70.812	1.00114.09	RS
ATOM	5615	O	ALA	105	151.765	81.367	-47.690	1.00158.60	OS17	ATOM	5668	N	LEU	26	178.251	141.978	-70.947	1.0097.32	RS
ATOM	5616	OXT	ALA	105	153.408	79.899	-47.636	1.00136.32	OS17	ATOM	5669	CA	LEU	26	177.656	141.189	-72.022	1.0097.32	RS
ATOM	5617	CB	LVS	19	187.768	142.854	-62.358	1.00125.18	RS18	ATOM	5670	CG	LEU	26	177.824	139.698	-71.707	1.0077.49	RS
ATOM	5618	CG	LVS	19	188.930	143.386	-61.539	1.00125.18	RS18	ATOM	5671	CG	LEU	26	177.187	138.614	-72.575	1.0077.49	RS
ATOM	5619	CD	LVS	19	190.083	143.801	-62.451	1.00125.18	RS18	ATOM	5672	CD1	LEU	26	177.436	138.870	-74.057	1.0077.49	RS
ATOM	5620	CE	LVS	19	191.269	144.347	-61.663	1.00125.18	RS18	ATOM	5673	CD2	LEU	26	177.766	137.279	-72.138	1.0077.49	RS
ATOM	5621	NZ	LVS	19	192.436	144.645	-62.846	1.00125.18	RS18	ATOM	5674	C	LEU	26	176.172	141.522	-72.213	1.0097.32	RS
ATOM	5622	O	LVS	19	185.388	142.134	-62.502	1.0091.82	RS18	ATOM	5675	N	GLY	26	175.515	142.035	-71.306	1.0097.32	RS
ATOM	5623	C	LVS	19	185.517	141.339	-63.432	1.0091.82	RS18	ATOM	5676	N	GLY	27	175.651	141.228	-73.400	1.00106.78	RS
ATOM	5624	N	LVS	19	186.908	141.228	-60.700	1.0091.82	RS18	ATOM	5677	CA	GLY	27	174.253	141.500	-73.679	1.00106.78	RS
ATOM	5625	CA	LVS	19	186.552	142.407	-61.544	1.0091.82	RS18	ATOM	5678	C	GLY	27	173.375	140.299	-73.389	1.00106.78	RS
ATOM	5626	N	ALA	20	184.260	142.804	-62.266	1.00110.36	RS18	ATOM	5679	O	GLY	27	173.855	139.283	-72.892	1.00106.78	RS
ATOM	5627	CA	ALA	20	183.058	142.682	-63.100	1.00110.36	RS18	ATOM	5680	N	GLU	28	172.087	140.406	-73.698	1.00109.87	RS
ATOM	5628	CB	ALA	20	183.314	143.305	-64.472	1.0074.76	RS18	ATOM	5681	CA	GLU	28	171.164	139.308	-73.453	1.00109.87	RS
ATOM	5629	C	ALA	20	182.512	141.270	-63.281	1.00110.36	RS18	ATOM	5682	CB	GLU	28	169.719	139.808	-73.518	1.00167.47	RS
ATOM	5630	O	ALA	20	183.268	140.306	-63.378	1.00110.36	RS18	ATOM	5683	CG	GLU	28	169.301	140.414	-74.844	1.00167.47	RS
ATOM	5631	N	LVS	21	181.186	141.161	-63.329	1.0091.88	RS18	ATOM	5684	CD	GLU	28	168.317	139.539	-75.595	1.00167.47	RS
ATOM	5632	CA	LVS	21	180.520	139.875	-63.526	1.0091.88	RS18	ATOM	5685	OE1	GLU	28	167.143	138.442	-76.038	1.00167.47	RS
ATOM	5633	CB	LVS	21	179.080	139.922	-62.999	1.0082.92	RS18	ATOM	5686	OE2	GLU	28	167.143	139.947	-75.734	1.00167.47	RS
ATOM	5634	CG	LVS	21	178.488	139.233	-61.659	1.0082.92	RS18	ATOM	5687	C	GLU	28	171.384	138.179	-74.446	1.00109.87	RS
ATOM	5635	CD	LVS	21	179.488	139.982	-60.517	1.0082.92	RS18	ATOM	5688	O	GLU	28	171.461	138.395	-75.654	1.00109.87	RS
ATOM	5636	CE	LVS	21	179.145	139.346	-59.184	1.0082.92	RS18	ATOM	5689	N	PHE	29	171.481	136.956	-73.924	1.0065.52	RS

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ATOM	5630	CA, PHE	29	171.718	135.776	-74.748	1.00	65.52	RS18	ATOM	5743	CZ	TYR	34	172.520	121.813	-80.055	1.00	67.51	RS.
ATOM	5631	GB, PHE	29	173.188	135.403	-74.672	1.00	81.02	RS18	ATOM	5744	OH	TYR	34	171.763	121.204	-81.026	1.00	67.51	RS.
ATOM	5632	CG	29	173.689	135.269	-73.270	1.00	81.02	RS18	ATOM	5745	C	TYR	34	176.042	125.384	-78.282	1.00	65.96	RS.
ATOM	5633	CD1	29	173.647	134.047	-72.618	1.00	81.02	RS18	ATOM	5746	O	TYR	34	176.975	124.594	-78.435	1.00	65.96	RS.
ATOM	5634	CD2	29	174.170	136.382	-72.586	1.00	81.02	RS18	ATOM	5747	N	ARG	35	175.858	126.435	-79.074	1.00	85.81	RS.
ATOM	5635	CE1	29	174.078	133.935	-71.302	1.00	81.02	RS18	ATOM	5748	CA	ARG	35	176.764	126.683	-80.187	1.00	85.81	RS.
ATOM	5636	CE2	29	174.602	136.282	-71.271	1.00	81.02	RS18	ATOM	5749	CB	ARG	35	176.055	126.413	-81.509	1.00	82.75	RS.
ATOM	5637	CZ	29	174.556	135.057	-70.628	1.00	81.02	RS18	ATOM	5750	CD	ARG	35	175.776	124.953	-81.755	1.00	82.75	RS.
ATOM	5638	C	29	170.886	134.588	-74.310	1.00	65.52	RS18	ATOM	5751	CG	ARG	35	175.356	124.735	-83.193	1.00	82.75	RS.
ATOM	5639	PHE	29	170.294	134.588	-73.235	1.00	65.52	RS18	ATOM	5752	NE	ARG	35	174.075	125.365	-83.500	1.00	82.75	RS.
ATOM	5700	N	30	170.865	133.567	-75.153	1.00	73.16	RS18	ATOM	5753	CZ	ARG	35	173.573	125.480	-84.726	1.00	82.75	RS.
ATOM	5701	CA	30	170.109	132.357	-74.877	1.00	73.16	RS18	ATOM	5754	NH1	ARG	35	174.244	125.017	-85.774	1.00	82.75	RS.
ATOM	5702	CB	30	169.568	131.775	-76.185	1.00	76.23	RS18	ATOM	5755	NH2	ARG	35	172.383	126.035	-84.901	1.00	82.75	RS.
ATOM	5703	CG	30	168.819	130.482	-75.980	1.00	76.23	RS18	ATOM	5756	C	ARG	35	177.379	128.076	-80.224	1.00	85.81	RS.
ATOM	5704	OD1	30	168.129	130.354	-74.951	1.00	76.23	RS18	ATOM	5757	O	ARG	35	178.305	128.324	-81.001	1.00	85.81	RS.
ATOM	5705	OD2	30	168.905	129.595	-76.852	1.00	76.23	RS18	ATOM	5758	N	ASN	36	176.881	128.986	-79.391	1.00	56.79	RS.
ATOM	5706	C	30	170.993	131.339	-74.175	1.00	73.16	RS18	ATOM	5759	CA	ASN	36	177.420	130.334	-79.391	1.00	56.79	RS.
ATOM	5707	O	30	171.759	130.623	-74.817	1.00	73.16	RS18	ATOM	5760	CB	ASN	36	176.822	132.763	-78.991	1.00	88.27	RS.
ATOM	5708	N	31	170.883	131.283	-72.854	1.00	59.37	RS18	ATOM	5761	CG	ASN	36	176.446	131.312	-78.737	1.00	88.27	RS.
ATOM	5709	CA	31	171.676	130.363	-72.055	1.00	59.37	RS18	ATOM	5762	OD1	ASN	36	176.127	133.680	-78.553	1.00	88.27	RS.
ATOM	5710	CB	31	171.273	130.487	-70.589	1.00	76.82	RS18	ATOM	5763	CD	ASN	36	177.928	132.977	-79.702	1.00	88.27	RS.
ATOM	5711	CG	31	171.928	131.633	-69.822	1.00	76.82	RS18	ATOM	5764	N	ASN	36	178.771	130.330	-78.685	1.00	56.79	RS.
ATOM	5712	CD1	31	171.184	131.891	-68.525	1.00	76.82	RS18	ATOM	5765	O	ASN	36	178.908	130.949	-77.595	1.00	56.79	RS.
ATOM	5713	CD2	31	173.384	131.277	-69.551	1.00	76.82	RS18	ATOM	5766	N	VAL	37	179.765	129.769	-79.326	1.00	42.43	RS.
ATOM	5714	C	31	171.553	128.906	-72.494	1.00	59.37	RS18	ATOM	5767	CA	VAL	37	181.124	129.730	-78.803	1.00	42.43	RS.
ATOM	5715	O	31	172.355	128.052	-72.099	1.00	59.37	RS18	ATOM	5768	CB	VAL	37	182.110	129.195	-79.857	1.00	65.05	RS.
ATOM	5716	N	32	170.563	128.628	-73.330	1.00	51.85	RS18	ATOM	5769	CG1	VAL	37	183.410	128.783	-79.187	1.00	65.05	RS.
ATOM	5717	CA	32	170.302	127.271	-73.793	1.00	51.85	RS18	ATOM	5770	CG2	VAL	37	181.485	128.033	-80.615	1.00	65.05	RS.
ATOM	5718	CG	32	168.793	127.103	-73.936	1.00	71.21	RS18	ATOM	5771	C	VAL	37	181.533	131.151	-78.445	1.00	42.43	RS.
ATOM	5719	CG	32	168.308	125.714	-74.195	1.00	71.21	RS18	ATOM	5772	O	VAL	37	182.319	131.378	-77.532	1.00	42.43	RS.
ATOM	5720	CD	32	166.901	125.593	-73.645	1.00	71.21	RS18	ATOM	5773	N	GLU	38	180.987	132.112	-79.174	1.00	73.98	RS.
ATOM	5721	NE	32	166.916	125.564	-72.183	1.00	71.21	RS18	ATOM	5774	CA	GLU	38	181.313	133.499	-78.922	1.00	73.98	RS.
ATOM	5722	CZ	32	165.982	126.100	-71.404	1.00	71.21	RS18	ATOM	5775	CG	GLU	38	181.123	134.507	-81.248	1.00	100.88.71	RS.
ATOM	5723	NH1	32	166.098	126.014	-70.087	1.00	71.21	RS18	ATOM	5776	CG	GLU	38	180.522	134.406	-79.864	1.00	100.88.71	RS.
ATOM	5724	NH2	32	171.004	126.928	-75.099	1.00	51.85	RS18	ATOM	5777	CD	GLU	38	182.515	135.112	-81.223	1.00	100.88.71	RS.
ATOM	5725	C	32	171.032	125.769	-75.498	1.00	51.85	RS18	ATOM	5778	OE1	GLU	38	183.417	134.519	-80.590	1.00	100.88.71	RS.
ATOM	5726	O	32	171.574	127.937	-75.754	1.00	80.74	RS18	ATOM	5779	OE2	GLU	38	181.036	133.886	-77.484	1.00	73.98	RS.
ATOM	5727	N	33	172.271	127.755	-77.028	1.00	80.74	RS18	ATOM	5780	C	GLU	38	181.924	134.350	-76.770	1.00	73.98	RS.
ATOM	5728	CA	33	172.409	129.097	-77.742	1.00	87.17	RS18	ATOM	5781	O	GLU	38	179.798	133.678	-77.058	1.00	72.44	RS.
ATOM	5729	CB	33	173.222	128.997	-79.012	1.00	87.17	RS18	ATOM	5782	N	VAL	39	179.403	134.040	-75.712	1.00	72.44	RS.
ATOM	5730	CG	33	172.981	128.052	-79.795	1.00	87.17	RS18	ATOM	5783	CA	VAL	39	177.877	134.362	-75.673	1.00	59.86	RS.
ATOM	5731	OD1	33	174.091	129.868	-79.229	1.00	87.17	RS18	ATOM	5784	CB	VAL	39	177.063	133.112	-75.890	1.00	59.86	RS.
ATOM	5732	OD2	33	173.649	127.137	-76.863	1.00	80.74	RS18	ATOM	5785	CG1	VAL	39	177.513	135.019	-74.367	1.00	59.86	RS.
ATOM	5733	C	33	174.581	127.793	-76.390	1.00	80.74	RS18	ATOM	5786	CG2	VAL	39	179.779	132.977	-74.671	1.00	72.44	RS.
ATOM	5734	O	33	173.884	125.884	-77.284	1.00	65.96	RS18	ATOM	5787	C	VAL	39	180.389	133.306	-73.654	1.00	72.44	RS.
ATOM	5735	N	34	175.052	125.188	-77.146	1.00	65.96	RS18	ATOM	5788	N	VAL	40	179.445	131.713	-74.928	1.00	52.08	RS.
ATOM	5736	CA	34	174.806	123.697	-76.946	1.00	67.51	RS18	ATOM	5789	N	LEU	40	179.765	130.642	-73.984	1.00	52.08	RS.
ATOM	5737	CB	34	174.012	123.050	-78.042	1.00	67.51	RS18	ATOM	5790	CA	LEU	40	179.571	129.273	-74.638	1.00	42.60	RS.
ATOM	5738	CG	34	174.520	122.935	-79.331	1.00	67.51	RS18	ATOM	5791	CB	LEU	40	178.161	128.966	-75.143	1.00	42.60	RS.
ATOM	5739	CD1	34	173.780	122.319	-80.344	1.00	67.51	RS18	ATOM	5792	CG	LEU	40	178.063	127.491	-75.505	1.00	42.60	RS.
ATOM	5740	CE1	34	172.750	122.535	-77.786	1.00	67.51	RS18	ATOM	5793	CD1	LEU	40	177.139	129.313	-74.074	1.00	42.60	RS.
ATOM	5741	CD2	34	172.005	121.918	-78.782	1.00	67.51	RS18	ATOM	5794	CD2	LEU	40	181.196	130.760	-73.464	1.00	52.08	RS.
ATOM	5742	CE2	34						RS18	ATOM	5795	C	LEU	40						RS.

ATOM	5796	O	LEU	40	181.428	130.783	-72.256	1.00	52.08	RS18	ATOM	5849	C	GLU	46	191.949	129.252	-68.338	1.00	74.39	RS
ATOM	5797	MA	LYS	41	182.142	130.823	-74.399	1.00	64.68	RS18	ATOM	5850	O	GLU	46	192.848	129.018	-69.140	1.00	74.39	RS
ATOM	5798	CA	LYS	41	183.579	130.961	-74.129	1.00	64.68	RS18	ATOM	5851	N	THR	47	191.171	128.311	-67.816	1.00	74.19	RS
ATOM	5799	CB	LYS	41	184.247	131.485	-75.404	1.00	87.97	RS18	ATOM	5852	CA	THR	47	191.254	126.897	-68.148	1.00	74.19	RS
ATOM	5800	CG	LYS	41	185.718	131.818	-75.315	1.00	87.97	RS18	ATOM	5853	CB	THR	47	191.494	126.059	-66.887	1.00	42.42	RS
ATOM	5801	CD	LYS	41	186.078	132.910	-76.341	1.00	87.97	RS18	ATOM	5854	OG1	THR	47	192.728	126.464	-66.278	1.00	42.42	RS
ATOM	5802	CE	LYS	41	185.604	132.575	-77.763	1.00	87.97	RS18	ATOM	5855	CG2	THR	47	191.526	124.571	-67.222	1.00	42.42	RS
ATOM	5803	N2	LYS	41	185.872	133.664	-78.755	1.00	87.97	RS18	ATOM	5856	C	THR	47	189.873	126.569	-68.715	1.00	74.19	RS
ATOM	5804	C	LYS	41	183.854	131.923	-72.963	1.00	64.68	RS18	ATOM	5857	O	THR	47	189.008	127.443	-68.794	1.00	74.19	RS
ATOM	5805	LYS	41	184.838	131.783	-72.235	1.00	64.68	RS18	ATOM	5858	N	GLY	48	189.645	125.325	-69.104	1.00	81.52	RS	
ATOM	5806	N	ARG	42	182.964	132.898	-72.808	1.00	69.83	RS18	ATOM	5859	CA	GLY	48	188.344	124.986	-69.654	1.00	81.52	RS
ATOM	5807	CA	ARG	42	183.057	133.909	-71.763	1.00	69.83	RS18	ATOM	5860	C	GLY	48	187.292	124.819	-68.579	1.00	81.52	RS
ATOM	5808	CB	ARG	42	181.951	134.949	-71.962	1.00	100.01	RS18	ATOM	5861	O	GLY	48	186.218	124.277	-68.827	1.00	81.52	RS
ATOM	5809	CG	ARG	42	182.310	136.103	-72.869	1.00	100.01	RS18	ATOM	5862	N	LYS	49	187.599	125.299	-67.381	1.00	57.84	RS
ATOM	5810	CD	ARG	42	183.395	136.951	-72.224	1.00	100.01	RS18	ATOM	5863	CA	LYS	49	186.695	125.175	-66.253	1.00	57.84	RS
ATOM	5811	NE	ARG	42	183.375	138.330	-72.699	1.00	100.01	RS18	ATOM	5864	CB	LYS	49	187.468	125.343	-64.954	1.00	76.25	RS
ATOM	5812	CZ	ARG	42	182.338	139.152	-72.562	1.00	100.01	RS18	ATOM	5865	CG	LYS	49	188.476	124.251	-64.709	1.00	76.25	RS
ATOM	5813	NH1	ARG	42	181.229	138.734	-71.963	1.00	100.01	RS18	ATOM	5866	CD	LYS	49	189.306	124.548	-63.487	1.00	76.25	RS
ATOM	5814	NH2	ARG	42	182.410	140.395	-73.021	1.00	100.01	RS18	ATOM	5867	CE	LYS	49	190.285	123.430	-63.211	1.00	76.25	RS
ATOM	5815	C	ARG	42	182.965	133.364	-70.337	1.00	69.83	RS18	ATOM	5868	NZ	LYS	49	191.199	123.768	-62.083	1.00	76.25	RS
ATOM	5816	O	ARG	42	183.562	133.920	-69.411	1.00	69.83	RS18	ATOM	5869	C	LYS	49	185.552	126.162	-66.282	1.00	57.84	RS
ATOM	5817	N	PHE	43	182.209	132.285	-70.161	1.00	72.62	RS18	ATOM	5870	O	LYS	49	185.714	127.306	-66.694	1.00	57.84	RS
ATOM	5818	CA	PHE	43	180.632	131.703	-68.840	1.00	72.62	RS18	ATOM	5871	N	ILE	50	184.390	125.697	-65.839	1.00	54.01	RS
ATOM	5819	CB	PHE	43	180.632	131.092	-68.730	1.00	67.03	RS18	ATOM	5872	CA	ILE	50	183.197	126.522	-65.765	1.00	54.01	RS
ATOM	5820	CG	PHE	43	179.525	132.062	-69.017	1.00	67.03	RS18	ATOM	5873	CB	ILE	50	181.954	125.681	-65.575	1.00	34.80	RS
ATOM	5821	CD1	PHE	43	179.035	132.217	-70.306	1.00	67.03	RS18	ATOM	5874	CG2	ILE	50	180.734	126.588	-65.519	1.00	34.80	RS
ATOM	5822	CD2	PHE	43	178.974	132.829	-67.997	1.00	67.03	RS18	ATOM	5875	OG1	ILE	50	181.861	124.648	-66.687	1.00	34.80	RS
ATOM	5823	CE1	PHE	43	178.013	133.115	-70.574	1.00	67.03	RS18	ATOM	5876	CD1	ILE	50	180.615	123.824	-66.626	1.00	34.80	RS
ATOM	5824	CE2	PHE	43	177.951	133.731	-68.263	1.00	67.03	RS18	ATOM	5877	C	ILE	50	183.341	127.392	-64.532	1.00	54.01	RS
ATOM	5825	CZ	PHE	43	177.472	133.870	-69.554	1.00	67.03	RS18	ATOM	5878	O	ILE	50	183.526	126.889	-63.425	1.00	54.01	RS
ATOM	5826	C	PHE	43	183.057	130.668	-68.446	1.00	72.62	RS18	ATOM	5879	N	LEU	51	183.243	128.697	-64.716	1.00	50.15	RS
ATOM	5827	O	PHE	43	182.913	130.004	-67.424	1.00	72.62	RS18	ATOM	5880	CA	LEU	51	183.395	129.617	-63.604	1.00	50.15	RS
ATOM	5828	N	LEU	44	184.099	130.516	-69.249	1.00	64.42	RS18	ATOM	5881	CB	LEU	51	183.443	131.045	-64.136	1.00	47.56	RS
ATOM	5829	CA	LEU	44	185.131	129.554	-68.909	1.00	64.42	RS18	ATOM	5882	CG	LEU	51	184.739	131.332	-64.889	1.00	47.56	RS
ATOM	5830	CB	LEU	44	185.574	128.780	-70.146	1.00	48.47	RS18	ATOM	5883	CD1	LEU	51	184.527	132.466	-65.867	1.00	47.56	RS
ATOM	5831	CG	LEU	44	184.586	127.698	-70.586	1.00	48.47	RS18	ATOM	5884	CD2	LEU	51	185.843	131.643	-63.886	1.00	47.56	RS
ATOM	5832	CD1	LEU	44	185.231	126.841	-71.665	1.00	48.47	RS18	ATOM	5885	C	LEU	51	182.321	129.487	-62.532	1.00	50.15	RS
ATOM	5833	CD2	LEU	44	184.191	126.825	-69.886	1.00	48.47	RS18	ATOM	5886	O	LEU	51	181.174	129.123	-62.819	1.00	50.15	RS
ATOM	5834	C	LEU	44	186.323	130.235	-68.263	1.00	64.42	RS18	ATOM	5887	N	PRO	52	182.694	129.774	-61.274	1.00	64.52	RS
ATOM	5835	O	LEU	44	186.668	131.358	-68.608	1.00	64.42	RS18	ATOM	5888	CD	PRO	52	184.042	130.170	-60.848	1.00	62.44	RS
ATOM	5836	N	SER	45	186.943	129.553	-67.310	1.00	67.57	RS18	ATOM	5889	CA	PRO	52	181.798	129.708	-60.122	1.00	64.52	RS
ATOM	5837	CA	SER	45	188.095	130.107	-66.622	1.00	67.57	RS18	ATOM	5890	CB	PRO	52	182.711	130.059	-58.953	1.00	62.44	RS
ATOM	5838	CB	SER	45	188.510	129.197	-65.458	1.00	75.99	RS18	ATOM	5891	CG	PRO	52	184.064	129.669	-59.443	1.00	62.44	RS
ATOM	5839	OG	SER	45	188.634	127.843	-65.862	1.00	75.99	RS18	ATOM	5892	C	PRO	52	180.739	130.770	-60.339	1.00	64.52	RS
ATOM	5840	C	SER	45	189.250	130.257	-67.592	1.00	67.57	RS18	ATOM	5893	O	PRO	52	180.959	131.705	-61.110	1.00	64.52	RS
ATOM	5841	O	SER	45	189.078	130.133	-68.803	1.00	67.57	RS18	ATOM	5894	N	ARG	53	179.598	130.643	-59.673	1.00	69.19	RS
ATOM	5842	N	GLU	46	190.427	130.539	-67.051	1.00	74.39	RS18	ATOM	5895	CA	ARG	53	177.556	131.634	-59.855	1.00	69.19	RS
ATOM	5843	CA	GLU	46	191.634	130.676	-67.856	1.00	74.39	RS18	ATOM	5896	CB	ARG	53	177.316	131.263	-59.056	1.00	65.21	RS
ATOM	5844	CB	GLU	46	192.764	131.241	-66.984	1.00	112.55	RS18	ATOM	5897	CG	ARG	53	176.192	130.763	-59.933	1.00	65.21	RS
ATOM	5845	CG	GLU	46	192.412	132.576	-66.290	1.00	112.55	RS18	ATOM	5898	CD	ARG	53	174.881	131.373	-59.508	1.00	65.21	RS
ATOM	5846	CD	GLU	46	191.221	132.480	-65.320	1.00	112.55	RS18	ATOM	5899	CE	ARG	53	174.254	130.658	-58.407	1.00	65.21	RS
ATOM	5847	OE1	GLU	46	191.343	131.809	-64.272	1.00	112.55	RS18	ATOM	5900	CZ	ARG	53	173.440	131.234	-57.534	1.00	65.21	RS
ATOM	5848	OE2	GLU	46	190.160	133.080	-65.604	1.00	112.55	RS18	ATOM	5901	NH1	ARG	53	173.177	132.527	-57.634	1.00	65.21	RS

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ATOM	5902	NH2 ARG	53	172.860	130.518	-56.585	1.00	65.21	RS18	ATOM	5955	O GLY	60	171.307	127.777	-61.355	1.00	47.11	RS1
ATOM	5903	ARG	53	179.034	133.020	-59.461	1.00	69.19	RS18	ATOM	5956	N LYS	61	169.417	128.948	-61.043	1.00	58.49	RS1
ATOM	5904	O ARG	53	178.615	134.019	-60.047	1.00	69.19	RS18	ATOM	5957	CA LYS	61	168.765	128.371	-62.210	1.00	58.49	RS1
ATOM	5905	N ARG	54	179.920	133.081	-58.475	1.00	59.61	RS18	ATOM	5958	CB LYS	61	167.325	128.891	-62.327	1.00	45.60	RS1
ATOM	5906	CA ARG	54	180.453	134.357	-58.019	1.00	59.61	RS18	ATOM	5959	CG LYS	61	166.430	128.090	-63.277	1.00	45.60	RS1
ATOM	5907	CB ARG	54	181.622	134.127	-57.079	1.00	96.94	RS18	ATOM	5960	CD LYS	61	165.009	128.661	-63.318	1.00	45.60	RS1
ATOM	5908	CG ARG	54	181.450	132.953	-56.147	1.00	96.94	RS18	ATOM	5961	CE LYS	61	164.181	128.027	-64.434	1.00	45.60	RS1
ATOM	5909	CD ARG	54	182.808	132.339	-55.916	1.00	96.94	RS18	ATOM	5962	NZ LYS	61	162.821	128.623	-64.567	1.00	45.60	RS1
ATOM	5910	NE ARG	54	183.821	133.388	-55.829	1.00	96.94	RS18	ATOM	5963	C LYS	61	169.535	128.643	-63.497	1.00	58.49	RS1
ATOM	5911	ARG	54	185.127	133.187	-55.962	1.00	96.94	RS18	ATOM	5964	O LYS	61	169.794	127.719	-64.269	1.00	58.49	RS1
ATOM	5912	NH1 ARG	54	185.599	131.965	-56.192	1.00	96.94	RS18	ATOM	5965	N GLU	62	169.900	129.901	-63.732	1.00	62.35	RS1
ATOM	5913	NH2 ARG	54	185.962	134.214	-55.872	1.00	96.94	RS18	ATOM	5966	CA GLU	62	170.643	130.251	-64.940	1.00	62.35	RS1
ATOM	5914	C ARG	54	180.949	135.169	-59.210	1.00	59.61	RS18	ATOM	5967	CB GLU	62	171.054	131.726	-64.915	1.00	83.41	RS1
ATOM	5915	O ARG	54	180.636	136.366	-59.317	1.00	59.61	RS18	ATOM	5968	CG GLU	62	169.914	132.728	-64.838	1.00	83.41	RS1
ATOM	5916	N ARG	55	181.647	134.490	-60.110	1.00	49.92	RS18	ATOM	5969	CD GLU	62	170.409	134.174	-64.811	1.00	83.41	RS1
ATOM	5917	CA ARG	55	182.235	135.096	-61.295	1.00	49.92	RS18	ATOM	5970	OE1 GLU	62	171.224	134.516	-63.925	1.00	83.41	RS1
ATOM	5918	CB ARG	55	183.474	134.298	-61.680	1.00	101.48	RS18	ATOM	5971	OE2 GLU	62	169.980	134.971	-65.675	1.00	83.41	RS1
ATOM	5919	CG ARG	55	184.445	134.098	-60.533	1.00	101.48	RS18	ATOM	5972	C GLU	62	171.906	129.394	-65.020	1.00	62.35	RS1
ATOM	5920	CD ARG	55	185.491	135.192	-60.490	1.00	101.48	RS18	ATOM	5973	O GLU	62	172.127	128.669	-65.992	1.00	62.35	RS1
ATOM	5921	NE ARG	55	186.348	135.127	-61.669	1.00	101.48	RS18	ATOM	5974	N GLN	63	172.721	129.493	-63.974	1.00	51.35	RS1
ATOM	5922	C2 ARG	55	186.065	135.694	-62.837	1.00	101.48	RS18	ATOM	5975	CA GLN	63	173.984	128.774	-63.851	1.00	51.35	RS1
ATOM	5923	NH1 ARG	55	184.941	136.387	-62.987	1.00	101.48	RS18	ATOM	5976	CB GLN	63	174.573	129.040	-62.470	1.00	50.10	RS1
ATOM	5924	NH2 ARG	55	186.898	135.548	-63.859	1.00	101.48	RS18	ATOM	5977	CG GLN	63	175.881	128.341	-62.180	1.00	50.10	RS1
ATOM	5925	C ARG	55	181.306	135.189	-62.497	1.00	49.92	RS18	ATOM	5978	CD GLN	63	177.040	129.020	-62.839	1.00	50.10	RS1
ATOM	5926	O ARG	55	181.427	136.115	-63.290	1.00	49.92	RS18	ATOM	5979	OE1 GLN	63	177.076	130.245	-62.942	1.00	50.10	RS1
ATOM	5927	N THR	56	180.389	134.240	-62.650	1.00	47.67	RS18	ATOM	5980	NE2 GLN	63	178.011	128.237	-63.275	1.00	50.10	RS1
ATOM	5928	CA THR	56	179.490	134.287	-63.799	1.00	47.67	RS18	ATOM	5981	C GLN	63	173.847	127.276	-64.061	1.00	51.35	RS1
ATOM	5929	CB THR	56	178.920	132.887	-64.169	1.00	69.34	RS18	ATOM	5982	O GLN	63	174.816	126.596	-64.383	1.00	51.35	RS1
ATOM	5930	OG1 THR	56	177.683	132.663	-63.482	1.00	69.34	RS18	ATOM	5983	N ARG	64	172.648	126.754	-63.858	1.00	50.55	RS1
ATOM	5931	CG2 THR	56	179.900	131.797	-63.792	1.00	69.34	RS18	ATOM	5984	CA ARG	64	172.421	125.331	-64.004	1.00	50.55	RS1
ATOM	5932	C THR	56	178.314	135.233	-63.590	1.00	47.67	RS18	ATOM	5985	CB ARG	64	171.131	124.908	-63.366	1.00	51.23	RS1
ATOM	5933	O THR	56	177.567	135.520	-64.527	1.00	47.67	RS18	ATOM	5986	CG ARG	64	171.308	124.331	-62.001	1.00	51.23	RS1
ATOM	5934	N GLY	57	178.141	135.712	-62.363	1.00	70.45	RS18	ATOM	5987	CD ARG	64	170.005	123.763	-61.538	1.00	51.23	RS1
ATOM	5935	CA GLY	57	177.040	136.615	-62.086	1.00	70.45	RS18	ATOM	5988	NE ARG	64	169.327	124.663	-60.626	1.00	51.23	RS1
ATOM	5936	C GLY	57	175.664	136.067	-62.440	1.00	70.45	RS18	ATOM	5989	C2 ARG	64	168.013	124.771	-60.558	1.00	51.23	RS1
ATOM	5937	O GLY	57	174.680	136.808	-62.468	1.00	70.45	RS18	ATOM	5990	NH1 ARG	64	167.249	124.046	-61.358	1.00	51.23	RS1
ATOM	5938	N LEU	58	175.588	134.776	-62.734	1.00	60.41	RS18	ATOM	5991	NH2 ARG	64	167.468	125.572	-59.667	1.00	51.23	RS1
ATOM	5939	CA LEU	58	174.311	134.164	-63.948	1.00	60.41	RS18	ATOM	5992	C ARG	64	172.321	124.985	-65.517	1.00	50.55	RS1
ATOM	5940	CB LEU	58	174.495	132.896	-63.881	1.00	58.93	RS18	ATOM	5993	O ARG	64	172.899	124.003	-65.978	1.00	50.55	RS1
ATOM	5941	CG LEU	58	174.837	133.009	-65.365	1.00	58.93	RS18	ATOM	5994	N ILE	65	171.558	125.800	-66.236	1.00	76.05	RS1
ATOM	5942	CD1 LEU	58	174.719	131.639	-66.017	1.00	58.93	RS18	ATOM	5995	CA ILE	65	171.332	125.628	-67.660	1.00	76.05	RS1
ATOM	5943	CD2 LEU	58	173.882	133.974	-66.031	1.00	58.93	RS18	ATOM	5996	CB ILE	65	170.280	126.614	-68.149	1.00	69.81	RS1
ATOM	5944	C LEU	58	173.646	133.791	-61.733	1.00	60.41	RS18	ATOM	5997	CG2 ILE	65	169.806	126.218	-69.527	1.00	69.81	RS1
ATOM	5945	O LEU	58	174.190	134.041	-60.653	1.00	60.41	RS18	ATOM	5998	CG1 ILE	65	169.102	126.620	-67.176	1.00	69.81	RS1
ATOM	5946	N SER	59	172.471	133.184	-61.835	1.00	54.09	RS18	ATOM	5999	CD1 ILE	65	168.122	127.754	-67.397	1.00	69.81	RS1
ATOM	5947	CA SER	59	171.717	132.760	-60.671	1.00	54.09	RS18	ATOM	6000	C ILE	65	172.620	125.876	-68.423	1.00	76.05	RS1
ATOM	5948	CB SER	59	170.271	133.205	-60.808	1.00	71.34	RS18	ATOM	6001	O ILE	65	172.869	125.259	-69.456	1.00	76.05	RS1
ATOM	5949	OG SER	59	169.667	132.554	-61.913	1.00	71.34	RS18	ATOM	6002	N LEU	66	173.439	126.786	-67.909	1.00	48.68	RS1
ATOM	5950	C SER	59	171.769	131.242	-60.635	1.00	54.09	RS18	ATOM	6003	CA LEU	66	174.702	127.101	-68.554	1.00	48.68	RS1
ATOM	5951	O SER	59	172.287	130.620	-61.560	1.00	54.09	RS18	ATOM	6004	CB LEU	66	175.456	128.179	-67.787	1.00	48.24	RS1
ATOM	5952	N GLY	60	171.224	130.652	-59.573	1.00	47.11	RS18	ATOM	6005	CG LEU	66	176.806	128.555	-68.399	1.00	48.24	RS1
ATOM	5953	CA GLY	60	171.214	129.209	-59.445	1.00	47.11	RS18	ATOM	6006	CD1 LEU	66	176.601	129.512	-69.557	1.00	48.24	RS1
ATOM	5954	C GLY	60	170.642	128.574	-60.694	1.00	47.11	RS18	ATOM	6007	CD2 LEU	66	177.670	129.214	-67.355	1.00	48.24	RS1

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ATOM	6008	C	LEU	66	175.544	125.857	-68.575	1.00	48.68	RS18	ATOM	6061	CB	ALA	73	179.496	123.919	-76.112	1.00	30.23	RS
ATOM	6009	LEU	66	175.924	125.378	-69.629	1.00	48.68	RS18	ATOM	6062	C	ALA	73	180.830	121.816	-76.416	1.00	54.76	RS	
ATOM	6010	N	ALA	67	175.823	125.338	-67.388	1.00	63.69	RS18	ATOM	6063	O	ALA	73	181.618	121.966	-77.349	1.00	54.76	RS
ATOM	6011	CA	ALA	67	176.646	124.150	-67.235	1.00	63.69	RS18	ATOM	6064	N	ARG	74	181.132	121.121	-75.327	1.00	56.48	RS
ATOM	6012	CB	ALA	67	176.507	123.604	-65.822	1.00	50.99	RS18	ATOM	6065	CA	ARG	74	182.432	120.481	-75.190	1.00	56.48	RS
ATOM	6013	C	ALA	67	176.329	123.062	-68.249	1.00	63.69	RS18	ATOM	6066	CB	ARG	74	182.712	120.141	-73.728	1.00	58.18	RS
ATOM	6014	O	ALA	67	177.235	122.489	-68.853	1.00	63.69	RS18	ATOM	6067	CD	ARG	74	183.131	121.326	-72.878	1.00	58.18	RS
ATOM	6015	N	LYS	68	175.045	122.785	-68.448	1.00	51.31	RS18	ATOM	6068	CG	ARG	74	183.144	120.917	-71.434	1.00	58.18	RS
ATOM	6016	CA	LYS	68	174.639	121.742	-69.382	1.00	51.31	RS18	ATOM	6069	NE	ARG	74	183.761	121.900	-70.553	1.00	58.18	RS
ATOM	6017	CB	LYS	68	173.145	121.472	-69.261	1.00	66.03	RS18	ATOM	6070	C2	ARG	74	183.801	121.770	-69.229	1.00	58.18	RS
ATOM	6018	CG	LYS	68	172.816	120.004	-69.292	1.00	66.03	RS18	ATOM	6071	NH1	ARG	74	183.255	120.702	-68.652	1.00	58.18	RS
ATOM	6019	CD	LYS	68	171.331	119.795	-69.353	1.00	66.03	RS18	ATOM	6072	NH2	ARG	74	184.392	122.694	-68.483	1.00	58.18	RS
ATOM	6020	CE	LYS	68	170.980	118.325	-69.288	1.00	66.03	RS18	ATOM	6073	C	ARG	74	182.486	119.219	-76.035	1.00	56.48	RS
ATOM	6021	NZ	LYS	68	169.523	118.121	-69.524	1.00	66.03	RS18	ATOM	6074	O	ARG	74	183.483	118.949	-76.691	1.00	56.48	RS
ATOM	6022	C	LYS	68	174.973	122.140	-70.807	1.00	51.31	RS18	ATOM	6075	N	ILE	75	181.415	118.443	-76.025	1.00	61.80	RS
ATOM	6023	O	LYS	68	175.362	121.305	-71.621	1.00	51.31	RS18	ATOM	6076	CA	ILE	75	181.398	117.229	-76.822	1.00	61.80	RS
ATOM	6024	N	THR	69	174.808	123.424	-71.100	1.00	45.39	RS18	ATOM	6077	CB	ILE	75	180.098	116.430	-76.602	1.00	84.43	RS
ATOM	6025	CA	THR	69	175.109	123.969	-72.416	1.00	45.39	RS18	ATOM	6078	CG2	ILE	75	180.114	115.175	-77.445	1.00	84.43	RS
ATOM	6026	CB	THR	69	173.602	125.415	-72.521	1.00	54.63	RS18	ATOM	6079	CG1	ILE	75	179.968	116.039	-75.133	1.00	84.43	RS
ATOM	6027	OG1	THR	69	173.183	125.407	-72.717	1.00	54.63	RS18	ATOM	6080	CD1	ILE	75	178.758	115.168	-74.839	1.00	84.43	RS
ATOM	6028	CG2	THR	69	175.282	126.139	-73.665	1.00	54.63	RS18	ATOM	6081	C	ILE	75	181.541	117.560	-78.316	1.00	61.80	RS
ATOM	6029	C	THR	69	176.622	123.936	-72.646	1.00	45.39	RS18	ATOM	6082	O	ILE	75	182.308	116.911	-79.031	1.00	61.80	RS
ATOM	6030	O	THR	69	177.090	123.463	-73.669	1.00	45.39	RS18	ATOM	6083	N	LEU	76	180.809	118.959	-80.185	1.00	71.60	RS
ATOM	6031	N	ILE	70	177.385	124.433	-71.684	1.00	51.27	RS18	ATOM	6084	CA	LEU	76	179.851	120.045	-80.496	1.00	49.18	RS
ATOM	6032	CA	ILE	70	178.831	124.434	-71.800	1.00	51.27	RS18	ATOM	6085	CB	LEU	76	178.378	119.636	-80.416	1.00	49.18	RS
ATOM	6033	CB	ILE	70	179.473	125.096	-70.586	1.00	41.03	RS18	ATOM	6086	CG	LEU	76	177.531	120.754	-81.006	1.00	49.18	RS
ATOM	6034	CG2	ILE	70	180.973	125.119	-70.725	1.00	41.03	RS18	ATOM	6087	CD1	LEU	76	178.137	118.336	-81.570	1.00	49.18	RS
ATOM	6035	CG1	ILE	70	178.943	126.516	-70.460	1.00	41.03	RS18	ATOM	6088	CD2	LEU	76	182.262	119.460	-80.574	1.00	71.60	RS
ATOM	6036	CD1	ILE	70	179.557	127.267	-69.331	1.00	41.03	RS18	ATOM	6089	C	LEU	76	182.529	119.694	-81.750	1.00	71.60	RS
ATOM	6037	C	ILE	70	179.375	123.018	-71.928	1.00	51.27	RS18	ATOM	6090	O	LEU	76	183.133	119.694	-81.750	1.00	71.60	RS
ATOM	6038	O	ILE	70	180.472	122.816	-72.455	1.00	51.27	RS18	ATOM	6091	N	GLY	77	183.133	119.631	-79.582	1.00	51.94	RS
ATOM	6039	N	LYS	71	178.622	122.035	-71.443	1.00	54.03	RS18	ATOM	6092	CA	GLY	77	184.485	120.094	-79.842	1.00	51.94	RS
ATOM	6040	CA	LYS	71	179.069	120.652	-71.545	1.00	54.03	RS18	ATOM	6093	C	GLY	77	184.611	121.600	-79.982	1.00	51.94	RS
ATOM	6041	CB	LYS	71	178.415	119.785	-70.466	1.00	57.55	RS18	ATOM	6094	O	GLY	77	185.675	122.101	-80.334	1.00	51.94	RS
ATOM	6042	CG	LYS	71	178.965	120.078	-69.078	1.00	57.55	RS18	ATOM	6095	N	LEU	78	183.538	122.329	-79.697	1.00	54.03	RS
ATOM	6043	CD	LYS	71	178.302	119.266	-67.976	1.00	57.55	RS18	ATOM	6096	CA	LEU	78	183.556	123.783	-79.810	1.00	54.03	RS
ATOM	6044	CE	LYS	71	178.776	119.762	-66.608	1.00	57.55	RS18	ATOM	6097	CB	LEU	78	182.136	124.301	-80.019	1.00	71.66	RS
ATOM	6045	NZ	LYS	71	178.202	118.999	-65.458	1.00	57.55	RS18	ATOM	6098	CG	LEU	78	181.364	123.518	-81.084	1.00	71.66	RS
ATOM	6046	C	LYS	71	178.759	120.115	-72.931	1.00	54.03	RS18	ATOM	6099	CD1	LEU	78	181.982	123.776	-82.456	1.00	71.66	RS
ATOM	6047	O	LYS	71	179.605	119.478	-73.550	1.00	54.03	RS18	ATOM	6100	CD2	LEU	78	181.982	123.776	-82.456	1.00	71.66	RS
ATOM	6048	N	ARG	72	177.552	120.381	-73.424	1.00	54.38	RS18	ATOM	6101	C	LEU	78	184.159	124.429	-78.572	1.00	54.03	RS
ATOM	6049	CA	ARG	72	177.151	119.935	-74.759	1.00	54.38	RS18	ATOM	6102	O	LEU	78	184.716	125.524	-78.642	1.00	54.03	RS
ATOM	6050	CB	ARG	72	175.768	120.486	-75.128	1.00	65.79	RS18	ATOM	6103	N	LEU	79	184.029	123.753	-77.433	1.00	61.98	RS
ATOM	6051	CG	ARG	72	174.569	119.836	-74.461	1.00	65.79	RS18	ATOM	6104	CA	LEU	79	184.575	124.248	-76.167	1.00	61.98	RS
ATOM	6052	CD	ARG	72	173.279	120.576	-74.864	1.00	65.79	RS18	ATOM	6105	CB	LEU	79	183.460	124.550	-75.159	1.00	61.84	RS
ATOM	6053	NE	ARG	72	172.072	119.762	-74.714	1.00	65.79	RS18	ATOM	6106	CG	LEU	79	182.682	125.861	-75.271	1.00	61.84	RS
ATOM	6054	C2	ARG	72	170.850	120.155	-75.068	1.00	65.79	RS18	ATOM	6107	CD1	LEU	79	181.599	125.899	-74.202	1.00	61.84	RS
ATOM	6055	NH1	ARG	72	170.654	121.359	-75.594	1.00	65.79	RS18	ATOM	6108	CD2	LEU	79	183.636	127.030	-75.114	1.00	61.84	RS
ATOM	6056	NH2	ARG	72	169.819	119.332	-74.913	1.00	65.79	RS18	ATOM	6109	C	LEU	79	185.508	123.214	-75.569	1.00	61.98	RS
ATOM	6057	C	ARG	72	178.161	120.485	-75.760	1.00	54.38	RS18	ATOM	6110	O	LEU	79	185.287	122.011	-75.691	1.00	61.98	RS
ATOM	6058	O	ARG	72	178.610	119.785	-76.664	1.00	54.38	RS18	ATOM	6111	N	PRO	80	186.554	123.676	-74.888	1.00	40.94	RS
ATOM	6059	N	ALA	73	178.507	121.754	-75.581	1.00	54.76	RS18	ATOM	6112	CD	PRO	80	186.792	125.086	-74.532	1.00	31.52	RS
ATOM	6060	CA	ALA	73	179.438	122.432	-76.464	1.00	54.76	RS18	ATOM	6113	CA	PRO	80	187.548	122.807	-74.254	1.00	40.94	RS

ATOM	6114	CB	PRO	80	188.686	123.763	-73.965	1.00	31.52	RS18	ATOM	6167	C	VAL	86	201.066	130.907	-67.271	1.00	94.19	R
ATOM	6115	CG	PRO	80	187.935	124.984	-73.508	1.00	31.52	RS18	ATOM	6168	O	VAL	86	200.438	130.896	-66.215	1.00	94.19	R
ATOM	6116	C	PRO	80	187.056	122.157	-72.965	1.00	40.94	RS18	ATOM	6169	N	ARG	87	202.148	131.665	-67.454	1.00	116.71	R
ATOM	6117	O	PRO	80	186.083	122.602	-72.345	1.00	40.94	RS18	ATOM	6170	CA	ARG	87	202.683	132.490	-66.373	1.00	116.71	R
ATOM	6118	N	PHE	81	187.735	121.093	-72.566	1.00	59.01	RS18	ATOM	6171	CB	ARG	87	201.562	133.305	-66.716	1.00	132.07	R
ATOM	6119	CA	PHE	81	187.399	120.444	-71.317	1.00	59.01	RS18	ATOM	6172	CG	ARG	87	201.242	134.609	-66.418	1.00	132.07	R
ATOM	6120	CB	PHE	81	187.566	118.931	-71.409	1.00	58.41	RS18	ATOM	6173	CD	ARG	87	202.321	135.632	-66.120	1.00	132.07	R
ATOM	6121	CG	PHE	81	186.425	118.240	-72.072	1.00	58.41	RS18	ATOM	6174	NE	ARG	87	202.093	136.914	-66.782	1.00	132.07	R
ATOM	6122	CDI	PHE	81	186.215	118.369	-73.434	1.00	58.41	RS18	ATOM	6175	CZ	ARG	87	202.157	137.100	-68.097	1.00	132.07	R
ATOM	6123	CD2	PHE	81	185.542	117.469	-71.328	1.00	58.41	RS18	ATOM	6176	NH1	ARG	87	202.439	136.084	-68.904	1.00	132.07	R
ATOM	6124	CE1	PHE	81	185.141	117.737	-74.047	1.00	58.41	RS18	ATOM	6177	NH2	ARG	87	201.951	138.309	-68.606	1.00	132.07	R
ATOM	6125	CE2	PHE	81	184.463	116.834	-71.934	1.00	58.41	RS18	ATOM	6178	C	ARG	87	203.294	131.510	-65.366	1.00	116.71	R
ATOM	6126	CZ	PHE	81	184.264	116.970	-73.294	1.00	58.41	RS18	ATOM	6179	O	ARG	87	203.876	130.503	-65.767	1.00	116.71	R
ATOM	6127	C	PHE	81	188.385	121.011	-70.311	1.00	59.01	RS18	ATOM	6180	N	LYS	88	203.167	131.798	-64.071	1.00	108.44	R
ATOM	6128	O	PHE	81	188.039	121.232	-69.151	1.00	59.01	RS18	ATOM	6181	CA	LYS	88	203.686	130.921	-63.011	1.00	108.44	R
ATOM	6129	N	THR	82	189.610	121.268	-70.773	1.00	64.31	RS18	ATOM	6182	CB	LYS	88	203.292	129.464	-63.288	1.00	63.67	R
ATOM	6130	CA	THR	82	190.646	121.803	-69.901	1.00	64.31	RS18	ATOM	6183	CG	LYS	88	203.547	128.521	-62.135	1.00	63.67	R
ATOM	6131	CB	THR	82	191.156	120.716	-68.949	1.00	84.35	RS18	ATOM	6184	CD	LYS	88	203.089	127.124	-62.489	1.00	63.67	R
ATOM	6132	CG1	THR	82	192.018	121.306	-67.970	1.00	84.35	RS18	ATOM	6185	CE	LYS	88	203.302	126.188	-61.310	1.00	63.67	R
ATOM	6133	CG2	THR	82	191.909	119.646	-69.719	1.00	84.35	RS18	ATOM	6186	NZ	LYS	88	203.065	124.744	-61.623	1.00	63.67	R
ATOM	6134	C	THR	82	191.840	122.393	-70.648	1.00	64.31	RS18	ATOM	6187	O	LYS	88	205.198	131.009	-62.795	1.00	108.44	R
ATOM	6135	O	THR	82	192.336	121.799	-71.596	1.00	64.31	RS18	ATOM	6188	C	LYS	88	205.815	131.952	-63.332	1.00	108.44	R
ATOM	6136	N	GLU	83	192.302	123.561	-70.204	1.00	69.07	RS18	ATOM	6189	OXT	LYS	88	205.742	130.142	-62.074	1.00	92.64	R
ATOM	6137	CA	GLU	83	193.440	124.240	-70.820	1.00	69.07	RS18	ATOM	6190	CB	PRO	2	256.649	113.572	14.212	1.00	87.09	S
ATOM	6138	CB	GLU	83	193.010	125.618	-71.324	1.00	133.90	RS18	ATOM	6191	C	PRO	2	254.649	113.394	17.460	1.00	130.19	S
ATOM	6139	CG	GLU	83	191.782	125.579	-72.228	1.00	133.90	RS18	ATOM	6192	C	PRO	2	254.646	113.394	17.460	1.00	130.19	S
ATOM	6140	CD	GLU	83	191.998	124.767	-73.499	1.00	133.90	RS18	ATOM	6193	O	PRO	2	254.084	114.492	17.442	1.00	130.19	S
ATOM	6141	OE1	GLU	83	192.475	123.615	-73.411	1.00	133.90	RS18	ATOM	6194	N	PRO	2	255.141	111.755	15.618	1.00	130.19	S
ATOM	6142	OE2	GLU	83	191.678	125.281	-74.593	1.00	133.90	RS18	ATOM	6195	CD	PRO	2	254.857	112.050	14.200	1.00	87.09	S
ATOM	6143	C	GLU	83	194.610	124.376	-69.840	1.00	69.07	RS18	ATOM	6196	CA	PRO	2	255.579	112.989	16.313	1.00	130.19	S
ATOM	6144	O	GLU	83	194.428	124.324	-68.625	1.00	69.07	RS18	ATOM	6197	N	ARG	3	254.495	112.513	18.454	1.00	201.09	S
ATOM	6145	N	LYS	84	195.813	124.556	-70.379	1.00	66.65	RS18	ATOM	6198	CA	ARG	3	253.627	112.762	19.617	1.00	201.09	S
ATOM	6146	CA	LYS	84	197.023	124.675	-69.569	1.00	66.65	RS18	ATOM	6199	CB	ARG	3	253.598	111.521	19.831	1.00	142.86	S
ATOM	6147	CB	LYS	84	198.222	124.232	-70.404	1.00	82.95	RS18	ATOM	6200	CG	ARG	3	252.895	109.084	20.850	1.00	142.86	S
ATOM	6148	CG	LYS	84	197.911	123.001	-71.240	1.00	82.95	RS18	ATOM	6201	CD	ARG	3	252.554	107.817	20.193	1.00	142.86	S
ATOM	6149	CD	LYS	84	198.766	120.859	-72.267	1.00	82.95	RS18	ATOM	6202	NE	ARG	3	252.246	106.686	20.159	1.00	142.86	S
ATOM	6150	CE	LYS	84	199.917	119.930	-72.484	1.00	82.95	RS18	ATOM	6203	CZ	ARG	3	252.229	106.646	20.159	1.00	142.86	S
ATOM	6151	NZ	LYS	84	197.230	126.090	-69.032	1.00	66.65	RS18	ATOM	6204	NH1	ARG	3	251.957	105.587	20.143	1.00	142.86	S
ATOM	6152	C	LYS	84	196.858	127.075	-69.681	1.00	66.65	RS18	ATOM	6205	NH2	ARG	3	254.070	114.006	20.410	1.00	201.09	S
ATOM	6153	O	LYS	84	197.827	126.188	-67.843	1.00	61.36	RS18	ATOM	6206	C	ARG	3	255.070	114.634	20.054	1.00	201.09	S
ATOM	6154	N	LEU	85	198.066	127.487	-67.211	1.00	61.36	RS18	ATOM	6207	O	ARG	4	253.344	114.563	22.245	1.00	84.91	S
ATOM	6155	CA	LEU	85	197.961	127.370	-65.687	1.00	74.14	RS18	ATOM	6208	N	SER	4	253.707	115.563	22.245	1.00	84.91	S
ATOM	6156	CB	LEU	85	197.961	127.370	-65.687	1.00	74.14	RS18	ATOM	6209	CA	SER	4	253.515	116.797	21.376	1.00	70.81	S
ATOM	6157	CG	LEU	85	197.835	128.707	-64.942	1.00	74.14	RS18	ATOM	6210	CB	SER	4	252.137	116.990	21.138	1.00	70.81	S
ATOM	6158	CD1	LEU	85	196.532	129.390	-65.356	1.00	74.14	RS18	ATOM	6211	CG	SER	4	252.995	115.830	23.578	1.00	80.81	S
ATOM	6159	CD2	LEU	85	197.858	128.487	-63.433	1.00	74.14	RS18	ATOM	6212	C	SER	4	251.777	116.005	23.629	1.00	84.91	S
ATOM	6160	C	LEU	85	199.415	128.095	-67.565	1.00	61.36	RS18	ATOM	6213	O	SER	4	253.786	115.909	24.643	1.00	103.40	S
ATOM	6161	O	LEU	85	200.454	127.467	-67.379	1.00	61.36	RS18	ATOM	6214	N	LEU	5	253.288	114.184	25.984	1.00	103.40	S
ATOM	6162	N	VAL	86	199.387	129.325	-68.070	1.00	94.19	RS18	ATOM	6215	CA	LEU	5	253.132	114.882	26.776	1.00	103.40	S
ATOM	6163	CA	VAL	86	200.606	130.033	-68.440	1.00	94.19	RS18	ATOM	6216	CB	LEU	5	252.266	113.770	26.176	1.00	103.40	S
ATOM	6164	CB	VAL	86	200.379	130.899	-69.677	1.00	48.97	RS18	ATOM	6217	CG	LEU	5	252.236	112.568	27.118	1.00	103.40	S
ATOM	6165	CG1	VAL	86	201.718	131.364	-70.238	1.00	48.97	RS18	ATOM	6218	CD1	LEU	5	250.863	114.298	25.934	1.00	130.30	S
ATOM	6166	CG2	VAL	86	199.621	130.103	-70.716	1.00	48.97	RS18	ATOM	6219	CD2	LEU	5						S

ATOM	6220	C	LEU	5	254.313	117.090	26.670	1.00103.40	SS19	ATOM	6273	OD1	ASP	12	245.423	109.273	34.889	1.00138.70	S
ATOM	6221	O	LEU	5	255.033	116.662	27.570	1.00103.40	SS19	ATOM	6274	OD2	ASP	12	244.452	107.825	36.216	1.00138.70	S
ATOM	6222	N	LYS	6	254.380	118.337	26.215	1.00100.84	SS19	ATOM	6275	C	ASP	12	248.572	107.334	37.150	1.00112.76	S
ATOM	6223	CA	LYS	6	255.297	119.356	26.736	1.00100.84	SS19	ATOM	6276	O	ASP	12	249.236	106.325	36.915	1.00112.76	S
ATOM	6224	CB	LYS	6	254.477	120.525	27.294	1.0088.09	SS19	ATOM	6277	N	ASP	13	248.395	107.806	38.377	1.0076.79	S
ATOM	6225	CG	LYS	6	253.689	121.273	26.241	1.0088.09	SS19	ATOM	6278	CA	ASP	13	249.006	107.145	39.525	1.0076.79	S
ATOM	6226	CD	LYS	6	252.706	122.277	26.850	1.0088.09	SS19	ATOM	6279	CB	ASP	13	249.619	108.191	40.460	1.00111.74	S
ATOM	6227	CE	LYS	6	251.449	121.610	27.413	1.0088.09	SS19	ATOM	6280	CG	ASP	13	248.701	109.370	40.703	1.00112.06	S
ATOM	6228	NZ	LYS	6	250.405	122.611	27.818	1.0088.09	SS19	ATOM	6281	OD1	ASP	13	249.179	110.377	41.269	1.00112.76	S
ATOM	6229	O	LYS	6	256.377	118.966	27.765	1.00100.84	SS19	ATOM	6282	OD2	ASP	13	247.511	109.288	40.330	1.00112.66	S
ATOM	6230	O	LYS	6	257.423	118.405	29.415	1.00100.84	SS19	ATOM	6283	C	ASP	13	248.136	106.167	40.308	1.0076.79	S
ATOM	6231	N	LYS	7	256.112	119.285	29.031	1.00153.54	SS19	ATOM	6284	O	ASP	13	247.993	106.276	41.522	1.0076.79	S
ATOM	6232	CA	LYS	7	257.042	119.035	30.129	1.00153.54	SS19	ATOM	6285	N	HIS	14	247.538	105.223	39.596	1.0097.63	S
ATOM	6233	CB	LYS	7	257.049	120.252	31.052	1.0057.54	SS19	ATOM	6286	CA	HIS	14	246.753	104.171	39.405	1.00119.25	S
ATOM	6234	CG	LYS	7	257.300	121.550	30.306	1.0057.54	SS19	ATOM	6287	CB	HIS	14	245.526	103.773	39.405	1.00119.38	S
ATOM	6235	CD	LYS	7	257.223	122.752	31.229	1.0057.54	SS19	ATOM	6288	CG	HIS	14	244.612	104.906	39.086	1.00119.38	S
ATOM	6236	CE	LYS	7	257.328	124.086	30.464	1.0057.54	SS19	ATOM	6289	CD2	HIS	14	244.032	105.278	37.922	1.00120.17	S
ATOM	6237	NZ	LYS	7	256.101	124.477	29.672	1.0057.54	SS19	ATOM	6290	ND1	HIS	14	244.166	105.793	40.041	1.00120.11	S
ATOM	6238	C	LYS	7	257.801	117.773	30.957	1.00153.54	SS19	ATOM	6291	CE1	HIS	14	243.349	106.665	39.479	1.00120.11	S
ATOM	6239	O	LYS	7	257.444	116.750	30.729	1.00153.54	SS19	ATOM	6292	NE2	HIS	14	243.250	106.374	38.193	1.00119.82	S
ATOM	6240	N	GLY	8	255.883	117.848	31.918	1.0085.45	SS19	ATOM	6293	C	HIS	14	247.771	103.085	40.038	1.0097.64	S
ATOM	6241	CA	GLY	8	255.613	116.700	32.771	1.0085.45	SS19	ATOM	6294	O	HIS	14	248.352	102.572	40.987	1.00142.28	S
ATOM	6242	C	GLY	8	254.968	115.454	32.172	1.0085.45	SS19	ATOM	6295	N	LEU	15	247.983	102.784	38.760	1.00142.28	S
ATOM	6243	O	GLY	8	253.744	115.398	32.045	1.0085.45	SS19	ATOM	6296	CA	LEU	15	248.928	101.782	38.301	1.00142.31	S
ATOM	6244	N	VAL	9	255.776	114.447	31.827	1.0070.79	SS19	ATOM	6297	CB	LEU	15	248.824	101.652	36.774	1.00109.88	S
ATOM	6245	CA	VAL	9	255.277	113.184	31.253	1.0070.79	SS19	ATOM	6298	CG	LEU	15	248.812	102.965	35.966	1.00109.93	S
ATOM	6246	CB	VAL	9	256.396	112.123	31.167	1.0067.76	SS19	ATOM	6299	CD1	LEU	15	250.197	103.580	35.902	1.00110.05	S
ATOM	6247	CG1	VAL	9	255.833	110.807	30.643	1.0067.76	SS19	ATOM	6300	CD2	LEU	15	248.341	102.682	34.560	1.00110.06	S
ATOM	6248	CG2	VAL	9	257.525	112.631	30.286	1.0067.76	SS19	ATOM	6301	C	LEU	15	250.346	102.171	38.704	1.00142.23	S
ATOM	6249	C	VAL	9	254.152	112.592	32.098	1.0070.79	SS19	ATOM	6302	O	LEU	15	251.203	101.309	38.900	1.00142.24	S
ATOM	6250	O	VAL	9	254.400	112.006	33.149	1.0070.79	SS19	ATOM	6303	N	LEU	15	250.587	103.473	38.831	1.0091.84	S
ATOM	6251	N	PHE	10	252.918	112.713	31.622	1.0092.41	SS19	ATOM	6304	CA	LEU	16	251.910	103.949	39.209	1.0091.86	S
ATOM	6252	CA	PHE	10	251.768	112.223	32.371	1.0092.41	SS19	ATOM	6305	CB	LEU	16	251.967	105.476	39.150	1.0079.80	S
ATOM	6253	CB	PHE	10	250.487	112.830	31.795	1.0075.15	SS19	ATOM	6306	CG	LEU	16	253.373	106.078	39.254	1.0079.84	S
ATOM	6254	CG	PHE	10	249.248	112.515	32.595	1.0075.15	SS19	ATOM	6307	CD1	LEU	16	254.333	105.338	38.311	1.0080.12	S
ATOM	6255	CD1	PHE	10	248.520	113.535	33.191	1.0075.15	SS19	ATOM	6308	CD2	LEU	16	253.316	107.574	38.925	1.0080.13	S
ATOM	6256	CD2	PHE	10	248.798	111.202	32.738	1.0075.15	SS19	ATOM	6309	C	LEU	16	252.202	103.461	40.617	1.0091.84	S
ATOM	6257	CE1	PHE	10	247.362	113.257	33.915	1.0075.15	SS19	ATOM	6310	O	LEU	16	252.982	102.526	40.800	1.0091.88	S
ATOM	6258	CE2	PHE	10	247.648	110.913	33.459	1.0075.15	SS19	ATOM	6311	N	GLU	17	251.565	104.090	41.604	1.0098.51	S
ATOM	6259	CZ	PHE	10	246.926	111.944	34.048	1.0075.15	SS19	ATOM	6312	CA	GLU	17	251.736	103.703	42.996	1.0098.56	S
ATOM	6260	C	PHE	10	251.603	110.706	32.472	1.0092.41	SS19	ATOM	6313	CB	GLU	17	250.671	104.377	43.864	1.00168.23	S
ATOM	6261	O	PHE	10	251.741	109.980	31.487	1.0092.41	SS19	ATOM	6314	CG	GLU	17	249.254	103.894	43.559	1.00168.49	S
ATOM	6262	N	VAL	11	251.277	110.257	33.684	1.0074.71	SS19	ATOM	6315	CD	GLU	17	248.238	104.358	44.584	1.00168.43	S
ATOM	6263	CA	VAL	11	251.037	108.851	34.000	1.0074.71	SS19	ATOM	6316	OE1	GLU	17	247.070	103.912	44.517	1.00169.02	S
ATOM	6264	CB	VAL	11	252.328	108.116	34.431	1.0085.50	SS19	ATOM	6317	OE2	GLU	17	248.606	105.175	45.457	1.00169.23	S
ATOM	6265	CG1	VAL	11	251.998	106.684	34.866	1.0085.50	SS19	ATOM	6318	C	GLU	17	251.587	104.182	43.093	1.0098.56	S
ATOM	6266	CG2	VAL	11	253.334	108.115	33.294	1.0085.50	SS19	ATOM	6319	O	GLU	17	252.356	101.514	43.779	1.0098.65	S
ATOM	6267	C	VAL	11	250.072	108.785	35.176	1.0074.71	SS19	ATOM	6320	N	LYS	18	250.599	101.649	42.382	1.0084.88	S
ATOM	6268	O	VAL	11	250.394	109.238	36.277	1.0074.71	SS19	ATOM	6321	CA	LYS	18	250.299	100.218	42.374	1.0084.90	S
ATOM	6269	N	ASP	12	248.889	108.229	34.947	1.00112.76	SS19	ATOM	6322	CB	LYS	18	249.086	99.956	41.486	1.00103.36	S
ATOM	6270	CA	ASP	12	247.911	108.106	36.019	1.00112.76	SS19	ATOM	6323	CG	LYS	18	248.157	98.842	41.930	1.00103.48	S
ATOM	6271	CB	ASP	12	246.675	107.354	35.533	1.00138.70	SS19	ATOM	6324	CD	LYS	18	246.803	99.034	41.251	1.00104.43	S
ATOM	6272	CG	ASP	12	245.429	108.212	35.547	1.00138.70	SS19	ATOM	6325	CE	LYS	18	246.265	100.450	41.523	1.00105.09	S

ATOM	6326	NZ	LVS	18	245.042	100.789	40.750	1.00106.00	SS19	ATOM	6379	CE	LVS	25	254.261	96.025	47.748	1.00121.64	SS
ATOM	6327	N	LVS	18	251.468	99.388	41.871	1.0084.90	SS19	ATOM	6380	NZ	LVS	25	255.096	96.999	48.517	1.00122.60	SS
ATOM	6328	O	LVS	18	251.738	98.314	42.403	1.0084.94	SS19	ATOM	6381	C	LVS	25	259.008	92.952	46.271	1.00109.55	SS
ATOM	6329	N	VAL	19	252.152	99.875	40.839	1.00118.01	SS19	ATOM	6382	O	LVS	25	259.181	91.736	46.370	1.00109.67	SS
ATOM	6330	CA	VAL	19	253.293	99.150	40.285	1.00118.05	SS19	ATOM	6383	N	GLY	26	259.409	93.660	45.220	1.00123.52	SS
ATOM	6331	CB	VAL	19	253.592	99.568	38.811	1.0098.83	SS19	ATOM	6384	CA	GLY	26	260.078	93.012	44.109	1.00123.62	SS
ATOM	6332	CG1	VAL	19	253.966	101.049	38.729	1.0099.23	SS19	ATOM	6385	C	GLY	26	259.054	92.459	43.138	1.00123.68	SS
ATOM	6333	CG2	VAL	19	254.718	98.710	38.254	1.0099.19	SS19	ATOM	6386	O	GLY	26	258.812	91.248	43.097	1.00123.80	SS
ATOM	6334	C	VAL	19	254.556	99.350	41.129	1.00118.05	SS19	ATOM	6387	N	GLU	27	258.444	93.361	42.368	1.00158.09	SS
ATOM	6335	N	VAL	19	255.209	98.376	41.515	1.00118.09	SS19	ATOM	6388	CA	GLU	27	257.433	93.007	41.374	1.00158.09	SS
ATOM	6336	N	LEU	20	254.894	100.608	41.414	1.00111.76	SS19	ATOM	6389	CB	GLU	27	257.998	91.957	40.410	1.00159.50	SS
ATOM	6337	CA	LEU	20	256.078	100.907	42.213	1.00111.80	SS19	ATOM	6390	CG	GLU	27	259.101	92.463	39.491	1.00159.50	SS
ATOM	6338	CB	LEU	20	256.227	102.427	42.410	1.0090.93	SS19	ATOM	6391	CD	GLU	27	258.562	93.066	38.209	1.00159.50	SS
ATOM	6339	CG	LEU	20	255.052	103.259	42.939	1.0092.45	SS19	ATOM	6392	OE1	GLU	27	257.875	92.341	37.459	1.00159.50	SS
ATOM	6340	CD1	LEU	20	254.837	103.020	44.434	1.0092.45	SS19	ATOM	6393	OE2	GLU	27	258.828	94.258	37.948	1.00159.50	SS
ATOM	6341	CD2	LEU	20	255.334	104.733	42.693	1.0092.51	SS19	ATOM	6394	C	GLU	27	256.122	92.488	41.969	1.00158.09	SS
ATOM	6342	C	LEU	20	256.014	100.175	43.557	1.00111.78	SS19	ATOM	6395	O	GLU	27	255.765	92.791	43.110	1.00158.09	SS
ATOM	6343	O	LEU	20	257.038	99.707	44.069	1.00111.83	SS19	ATOM	6396	N	LVS	28	255.417	91.711	41.153	1.00128.11	SS
ATOM	6344	N	GLU	21	254.814	100.072	44.125	1.00103.13	SS19	ATOM	6397	CA	LVS	28	254.144	91.086	41.496	1.00128.11	SS
ATOM	6345	CA	GLU	21	254.638	99.367	45.387	1.00103.16	SS19	ATOM	6398	CB	LVS	28	253.079	92.137	41.843	1.00134.41	SS
ATOM	6346	CB	GLU	21	253.160	99.277	45.754	1.00147.78	SS19	ATOM	6399	CG	LVS	28	251.747	91.539	42.326	1.00134.41	SS
ATOM	6347	CG	GLU	21	252.621	100.487	46.482	1.00148.27	SS19	ATOM	6400	CD	LVS	28	250.644	92.589	42.442	1.00134.41	SS
ATOM	6348	CD	GLU	21	251.109	100.552	46.424	1.00149.13	SS19	ATOM	6401	CE	LVS	28	249.322	91.985	42.910	1.00134.41	SS
ATOM	6349	OE1	GLU	21	250.465	99.496	46.588	1.00149.91	SS19	ATOM	6402	NZ	LVS	28	248.233	93.003	42.984	1.00134.41	SS
ATOM	6350	OE2	GLU	21	250.561	101.656	46.216	1.00149.63	SS19	ATOM	6403	C	LVS	28	253.732	90.335	40.235	1.00128.11	SS
ATOM	6351	C	GLU	21	255.188	97.969	45.189	1.00103.16	SS19	ATOM	6404	O	LVS	28	254.534	90.196	39.311	1.00128.11	SS
ATOM	6352	O	GLU	21	256.007	97.499	45.976	1.00103.22	SS19	ATOM	6405	N	ARG	29	252.493	89.856	40.185	1.00169.77	SS
ATOM	6353	N	LEU	22	254.737	97.321	44.118	1.00109.71	SS19	ATOM	6406	CA	ARG	29	252.027	89.137	39.008	1.00169.77	SS
ATOM	6354	CA	LEU	22	255.166	95.970	43.784	1.00109.75	SS19	ATOM	6407	CB	ARG	29	251.313	87.847	39.423	1.00181.85	SS
ATOM	6355	CB	LEU	22	254.441	95.493	42.532	1.0083.78	SS19	ATOM	6408	CG	ARG	29	252.260	86.821	40.035	1.00181.85	SS
ATOM	6356	CG	LEU	22	252.943	95.775	42.556	1.0084.00	SS19	ATOM	6409	CD	ARG	29	251.697	85.407	39.981	1.00181.85	SS
ATOM	6357	CD1	LEU	22	252.344	95.378	41.232	1.0084.91	SS19	ATOM	6410	NE	ARG	29	252.683	84.417	40.412	1.00181.85	SS
ATOM	6358	CD2	LEU	22	252.288	95.029	43.702	1.0084.54	SS19	ATOM	6411	CZ	ARG	29	252.492	83.102	40.375	1.00181.85	SS
ATOM	6359	C	LEU	22	256.668	95.936	43.548	1.00109.76	SS19	ATOM	6412	NH1	ARG	29	251.349	82.605	39.923	1.00181.85	SS
ATOM	6360	O	LEU	22	257.316	94.915	43.787	1.00109.83	SS19	ATOM	6413	NH2	ARG	29	253.447	82.281	40.790	1.00181.85	SS
ATOM	6361	N	ASN	23	257.217	97.053	43.073	1.00145.78	SS19	ATOM	6414	C	ARG	29	251.133	89.985	38.103	1.00169.77	SS
ATOM	6362	CA	ASN	23	258.652	97.150	42.827	1.00145.82	SS19	ATOM	6415	O	ARG	29	251.634	90.716	37.248	1.00169.77	SS
ATOM	6363	CB	ASN	23	259.013	98.506	42.206	1.0077.49	SS19	ATOM	6416	N	LEU	30	249.819	89.899	38.283	1.00113.48	SS
ATOM	6364	CG	ASN	23	258.571	98.626	40.757	1.0077.53	SS19	ATOM	6417	CA	LEU	30	248.908	90.670	37.443	1.00113.48	SS
ATOM	6365	OD1	ASN	23	258.164	97.643	40.133	1.0077.69	SS19	ATOM	6418	CB	LEU	30	247.584	89.926	37.260	1.0084.20	SS
ATOM	6366	ND2	ASN	23	258.663	99.834	40.211	1.0077.50	SS19	ATOM	6419	CG	LEU	30	247.263	89.458	35.839	1.0084.20	SS
ATOM	6367	C	ASN	23	259.388	96.981	44.154	1.00145.86	SS19	ATOM	6420	CD1	LEU	30	245.859	88.870	35.823	1.0084.20	SS
ATOM	6368	O	ASN	23	260.500	96.454	44.198	1.00145.92	SS19	ATOM	6421	CD2	LEU	30	247.375	90.623	34.861	1.0084.20	SS
ATOM	6369	N	ALA	24	258.756	97.433	45.234	1.00125.96	SS19	ATOM	6422	C	LEU	30	248.612	92.073	37.952	1.00113.48	SS
ATOM	6370	CA	ALA	24	259.331	97.318	46.568	1.00126.03	SS19	ATOM	6423	O	LEU	30	248.968	92.434	39.069	1.00113.48	SS
ATOM	6371	CB	ALA	24	258.463	98.062	47.576	1.0046.10	SS19	ATOM	6424	N	ILE	31	247.954	92.851	37.099	1.0097.94	SS
ATOM	6372	C	ALA	24	259.443	95.840	46.950	1.00126.18	SS19	ATOM	6425	CA	ILE	31	247.550	94.227	37.385	1.00117.19	SS
ATOM	6373	O	ALA	24	260.542	95.331	47.171	1.00126.18	SS19	ATOM	6426	CB	ILE	31	248.659	95.250	37.023	1.00117.19	SS
ATOM	6374	N	LVS	25	258.306	95.150	47.021	1.00109.45	SS19	ATOM	6427	CG2	ILE	31	248.184	96.673	37.316	1.00117.19	SS
ATOM	6375	CA	LVS	25	258.296	93.730	47.368	1.00109.56	SS19	ATOM	6428	CG1	ILE	31	249.925	94.963	37.824	1.00117.19	SS
ATOM	6376	CB	LVS	25	256.863	93.186	47.484	1.00119.33	SS19	ATOM	6429	CD1	ILE	31	249.767	95.190	39.305	1.00117.19	SS
ATOM	6377	CG	LVS	25	255.858	94.122	48.132	1.00119.96	SS19	ATOM	6430	C	ILE	31	246.370	94.471	36.456	1.0097.94	SS
ATOM	6378	CD	LVS	25	255.115	94.949	47.090	1.00120.81	SS19	ATOM	6431	O	ILE	31	246.047	93.611	35.639	1.0097.94	SS

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ATOM	6432	NH2	LYS	32	245.725	95.627	36.588	1.00124.72	SS19	ATOM	6485	CZ	ARG	37	241.744	110.562	27.178	1.00161.04	S.
ATOM	6433	CA	LYS	32	244.600	95.993	35.730	1.00124.72	SS19	ATOM	6486	NH1	ARG	37	242.661	111.068	26.362	1.00161.04	S.
ATOM	6434	CB	LYS	32	243.439	94.994	35.853	1.0099.22	SS19	ATOM	6487	NH2	ARG	37	240.457	110.702	26.888	1.00161.04	S.
ATOM	6435	CG	LYS	32	242.675	95.044	37.166	1.0099.22	SS19	ATOM	6488	C	ARG	37	247.304	107.666	29.897	1.00101.32	S.
ATOM	6436	CD	LYS	32	241.314	94.354	37.059	1.0099.22	SS19	ATOM	6489	O	ARG	37	248.125	108.460	29.433	1.00101.32	S.
ATOM	6437	CE	LYS	32	241.442	92.883	36.681	1.0099.22	SS19	ATOM	6490	N	SER	38	247.608	106.747	30.810	1.0096.94	S.
ATOM	6438	NZ	LYS	32	240.118	92.200	36.638	1.0099.22	SS19	ATOM	6491	CA	SER	38	248.940	106.620	31.387	1.0096.94	S.
ATOM	6439	C	LYS	32	244.104	97.382	36.084	1.00124.72	SS19	ATOM	6492	CB	SER	38	248.919	105.588	32.520	1.0095.38	S.
ATOM	6440	O	LYS	32	243.659	97.627	37.203	1.00124.72	SS19	ATOM	6493	OG	SER	38	248.672	104.287	32.018	1.0095.38	S.
ATOM	6441	THR	THR	33	244.194	98.296	35.128	1.0094.87	SS19	ATOM	6494	C	SER	38	250.067	106.273	30.425	1.0096.94	S.
ATOM	6442	CA	THR	33	243.745	99.657	35.353	1.0094.87	SS19	ATOM	6495	O	SER	38	250.011	105.273	29.711	1.0096.94	S.
ATOM	6443	CB	THR	33	244.928	100.628	35.555	1.00141.44	SS19	ATOM	6496	N	THR	39	251.095	107.116	30.425	1.0091.46	S.
ATOM	6444	OG1	THR	33	245.896	100.035	36.428	1.00141.44	SS19	ATOM	6497	CA	THR	39	252.274	106.906	29.598	1.0091.46	S.
ATOM	6445	CG2	THR	33	244.442	101.932	36.177	1.00141.44	SS19	ATOM	6498	CB	THR	39	253.179	108.148	29.593	1.0087.25	S.
ATOM	6446	C	THR	33	242.959	100.121	34.144	1.0094.87	SS19	ATOM	6499	OG1	THR	39	252.445	109.277	29.099	1.0087.25	S.
ATOM	6447	O	THR	33	243.165	99.632	33.035	1.0094.87	SS19	ATOM	6500	CG2	THR	39	254.411	107.906	28.730	1.0087.25	S.
ATOM	6448	N	THR	34	242.046	101.058	34.369	1.00102.08	SS19	ATOM	6501	C	THR	39	253.033	105.777	30.282	1.0091.46	S.
ATOM	6449	CA	TRP	34	241.246	101.613	33.291	1.00102.08	SS19	ATOM	6502	O	THR	39	252.935	105.619	31.499	1.0091.46	S.
ATOM	6450	CB	TRP	34	239.911	102.140	33.817	1.0091.74	SS19	ATOM	6503	N	ILE	40	253.781	104.986	29.521	1.0089.97	S.
ATOM	6451	CG2	TRP	34	238.890	101.092	34.121	1.0091.74	SS19	ATOM	6504	CA	ILE	40	254.531	103.900	30.134	1.0089.97	S.
ATOM	6452	CD	TRP	34	239.043	99.956	34.984	1.0091.74	SS19	ATOM	6505	CB	ILE	40	254.696	102.712	29.933	1.0081.29	S.
ATOM	6453	CE2	TRP	34	237.798	99.287	35.016	1.0091.74	SS19	ATOM	6506	CG2	ILE	40	255.333	101.550	29.933	1.0081.29	S.
ATOM	6454	CE3	TRP	34	240.106	99.439	35.736	1.0091.74	SS19	ATOM	6507	CG1	ILE	40	253.330	102.289	28.650	1.0061.29	S.
ATOM	6455	CD1	TRP	34	237.602	101.063	33.676	1.0091.74	SS19	ATOM	6508	CD1	ILE	40	253.393	101.168	27.642	1.0061.29	S.
ATOM	6456	NE1	TRP	34	236.939	99.984	34.209	1.0091.74	SS19	ATOM	6509	C	ILE	40	255.904	105.405	30.532	1.0089.97	S.
ATOM	6457	CE2	TRP	34	237.587	98.126	35.773	1.0091.74	SS19	ATOM	6510	O	ILE	40	256.593	105.058	29.748	1.0089.97	S.
ATOM	6458	CE3	TRP	34	239.894	98.285	36.488	1.0091.74	SS19	ATOM	6511	N	VAL	41	256.290	104.104	31.765	1.0077.56	S.
ATOM	6459	CH2	TRP	34	238.644	97.643	36.500	1.0091.74	SS19	ATOM	6512	CA	VAL	41	257.573	104.524	32.302	1.0077.56	S.
ATOM	6460	C	TRP	34	242.040	102.773	32.713	1.00102.08	SS19	ATOM	6513	CB	VAL	41	257.360	105.406	33.548	1.0083.36	S.
ATOM	6461	O	TRP	34	241.584	103.461	31.806	1.00102.08	SS19	ATOM	6514	CG1	VAL	41	256.570	106.650	33.165	1.0083.36	S.
ATOM	6462	N	SER	35	243.235	102.988	33.250	1.00137.82	SS19	ATOM	6515	CG2	VAL	41	256.604	104.633	34.615	1.0083.36	S.
ATOM	6463	CA	SER	35	244.073	104.082	32.792	1.00137.82	SS19	ATOM	6516	C	VAL	41	258.400	103.288	32.653	1.0077.56	S.
ATOM	6464	CB	SER	35	245.017	104.525	33.908	1.0094.58	SS19	ATOM	6517	O	VAL	41	257.842	102.221	32.923	1.0077.56	S.
ATOM	6465	OG	SER	35	245.808	105.619	33.482	1.0094.58	SS19	ATOM	6518	N	PRO	42	259.741	103.418	32.652	1.0079.66	S.
ATOM	6466	C	SER	35	244.882	103.763	31.542	1.00137.82	SS19	ATOM	6519	CD	PRO	42	260.475	104.691	32.515	1.0083.84	S.
ATOM	6467	O	SER	35	245.949	103.154	31.608	1.00137.82	SS19	ATOM	6520	CA	PRO	42	260.667	102.322	32.961	1.0079.66	S.
ATOM	6468	N	ARG	36	244.352	104.180	30.401	1.0073.77	SS19	ATOM	6521	CB	PRO	42	261.920	103.061	33.404	1.0083.84	S.
ATOM	6469	CA	ARG	36	245.010	103.990	29.119	1.0073.77	SS19	ATOM	6522	CG	PRO	42	261.925	104.234	32.478	1.0083.84	S.
ATOM	6470	CB	ARG	36	243.971	103.741	28.042	1.00165.56	SS19	ATOM	6523	C	PRO	42	260.170	101.321	34.002	1.0079.66	S.
ATOM	6471	CG	ARG	36	243.006	104.891	27.904	1.00165.56	SS19	ATOM	6524	O	PRO	42	260.001	100.140	33.636	1.0079.66	S.
ATOM	6472	CD	ARG	36	241.574	104.431	28.015	1.00165.56	SS19	ATOM	6525	N	GLU	43	259.935	101.793	35.224	1.0094.04	S.
ATOM	6473	NE	ARG	36	241.197	103.570	26.903	1.00165.56	SS19	ATOM	6526	CA	GLU	43	259.456	101.934	36.308	1.0094.04	S.
ATOM	6474	CZ	ARG	36	241.292	103.918	25.624	1.00165.56	SS19	ATOM	6527	CB	GLU	43	258.920	101.785	37.467	1.0087.36	S.
ATOM	6475	NH1	ARG	36	241.744	105.112	25.298	1.00165.56	SS19	ATOM	6528	CG	GLU	43	258.509	103.201	37.089	1.0087.36	S.
ATOM	6476	NH2	ARG	36	240.956	103.063	24.668	1.00165.56	SS19	ATOM	6529	CD	GLU	43	259.703	104.106	36.809	1.0087.36	S.
ATOM	6477	C	ARG	36	245.718	105.312	28.848	1.0073.77	SS19	ATOM	6530	OE1	GLU	43	260.533	104.289	37.728	1.0087.36	S.
ATOM	6478	O	ARG	36	246.613	105.392	28.015	1.0073.77	SS19	ATOM	6531	OE2	GLU	43	259.815	104.632	35.676	1.0087.36	S.
ATOM	6479	N	ARG	37	245.284	106.347	29.563	1.00101.32	SS19	ATOM	6532	C	GLU	43	258.375	99.964	35.841	1.0094.04	S.
ATOM	6480	CA	ARG	37	245.848	107.689	29.446	1.00101.32	SS19	ATOM	6533	O	GLU	43	258.186	98.890	36.421	1.0094.04	S.
ATOM	6481	CB	ARG	37	245.080	108.674	30.345	1.00161.04	SS19	ATOM	6534	N	MET	44	257.668	100.352	34.786	1.00119.81	S.
ATOM	6482	CG	ARG	37	243.623	108.905	29.979	1.00161.04	SS19	ATOM	6535	CA	MET	44	256.609	99.531	34.227	1.00119.81	S.
ATOM	6483	CD	ARG	37	243.501	109.692	28.681	1.00161.04	SS19	ATOM	6536	CB	MET	44	255.602	100.401	33.469	1.0091.87	S.
ATOM	6484	NE	ARG	37	242.112	109.911	28.279	1.00161.04	SS19	ATOM	6537	CG	MET	44	254.407	100.863	34.271	1.0091.87	S.

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ATOM	6538	SDP MET	44	253.309	101.856	33.243	1.00	91.87	SS19	ATOM	6591	CA TYR	52	240.523	97.946	29.772	1.00	93.90	SS
ATOM	6539	SP MET	44	253.506	103.489	33.987	1.00	91.87	SS19	ATOM	6592	CB TYR	52	239.707	98.804	30.745	1.00	69.74	SS
ATOM	6540	C MET	44	257.160	98.486	33.269	1.00	91.81	SS19	ATOM	6593	CG TYR	52	238.223	98.489	30.714	1.00	69.74	SS
ATOM	6541	O MET	44	256.692	98.404	32.147	1.00	91.81	SS19	ATOM	6594	CD1 TYR	52	237.773	97.181	30.916	1.00	69.74	SS
ATOM	6542	N VAL	45	258.160	97.729	33.678	1.00	82.60	SS19	ATOM	6595	CE1 TYR	52	236.424	96.864	30.869	1.00	69.74	SS
ATOM	6543	CA VAL	45	258.686	96.712	32.776	1.00	82.60	SS19	ATOM	6596	CD2 TYR	52	237.272	99.485	30.467	1.00	69.74	SS
ATOM	6544	CB VAL	45	260.202	96.919	32.474	1.00	50.27	SS19	ATOM	6597	CE2 TYR	52	235.909	99.175	30.420	1.00	69.74	SS
ATOM	6545	CG1 VAL	45	260.717	95.786	31.579	1.00	50.27	SS19	ATOM	6598	CZ TYR	52	235.496	97.856	30.622	1.00	69.74	SS
ATOM	6546	CG2 VAL	45	260.421	98.286	31.776	1.00	50.27	SS19	ATOM	6599	OH TYR	52	234.165	97.514	30.566	1.00	69.74	SS
ATOM	6547	VAL	45	258.446	95.325	33.364	1.00	82.60	SS19	ATOM	6600	C TYR	52	240.115	98.290	28.350	1.00	93.90	SS
ATOM	6548	O VAL	45	258.316	95.170	34.578	1.00	82.60	SS19	ATOM	6601	C TYR	52	240.042	99.456	27.973	1.00	93.90	SS
ATOM	6549	N GLY	46	258.367	94.325	32.492	1.00	90.00	SS19	ATOM	6602	N ASN	53	239.831	97.242	27.585	1.00	66.21	SS
ATOM	6550	CA GLY	46	258.125	92.971	32.942	1.00	90.00	SS19	ATOM	6603	CA ASN	53	239.389	97.316	26.195	1.00	66.21	SS
ATOM	6551	C GLY	46	256.749	92.843	33.565	1.00	90.00	SS19	ATOM	6604	CB ASN	53	238.893	95.936	25.785	1.00	86.21	SS
ATOM	6552	O GLY	46	256.169	91.758	33.584	1.00	90.00	SS19	ATOM	6605	CG ASN	53	239.337	95.541	24.413	1.00	86.21	SS
ATOM	6553	N HIS	47	256.219	93.955	34.066	1.00	108.99	SS19	ATOM	6606	OD1 ASN	53	239.021	94.448	23.953	1.00	86.21	SS
ATOM	6554	CA HIS	47	254.910	93.960	34.708	1.00	108.99	SS19	ATOM	6607	ND2 ASN	53	240.078	96.420	23.743	1.00	86.21	SS
ATOM	6555	CB HIS	47	254.726	95.242	35.519	1.00	108.44	SS19	ATOM	6608	C ASN	53	238.246	98.314	26.010	1.00	66.21	SS
ATOM	6556	CG HIS	47	255.097	95.099	36.962	1.00	108.44	SS19	ATOM	6609	O ASN	53	238.037	98.854	24.929	1.00	66.21	SS
ATOM	6557	CD2 HIS	47	255.967	95.793	37.734	1.00	108.44	SS19	ATOM	6610	N GLY	54	237.522	98.559	27.092	1.00	72.89	SS
ATOM	6558	ND1 HIS	47	254.526	94.151	37.785	1.00	108.44	SS19	ATOM	6611	CA GLY	54	236.363	99.428	27.056	1.00	72.89	SS
ATOM	6559	CE1 HIS	47	255.028	94.268	39.001	1.00	108.44	SS19	ATOM	6612	C GLY	54	235.241	98.413	27.195	1.00	72.89	SS
ATOM	6560	NE2 HIS	47	255.904	95.257	38.998	1.00	108.44	SS19	ATOM	6613	O GLY	54	234.054	98.744	27.233	1.00	72.89	SS
ATOM	6561	C HIS	47	253.744	93.799	33.748	1.00	108.99	SS19	ATOM	6614	N LYS	55	235.666	97.151	27.287	1.00	53.44	SS
ATOM	6562	O HIS	47	253.404	94.718	33.011	1.00	108.99	SS19	ATOM	6615	CA LYS	55	234.786	95.996	27.410	1.00	53.44	SS
ATOM	6563	N THR	48	253.126	92.625	33.772	1.00	101.88	SS19	ATOM	6616	CB LYS	55	234.379	95.509	26.012	1.00	69.78	SS
ATOM	6564	CA THR	48	251.989	92.350	32.908	1.00	101.88	SS19	ATOM	6617	CG LYS	55	233.664	94.169	25.994	1.00	69.78	SS
ATOM	6565	CB THR	48	251.641	90.845	32.910	1.00	114.78	SS19	ATOM	6618	CD LYS	55	233.319	93.731	24.583	1.00	69.78	SS
ATOM	6566	OG1 THR	48	252.673	90.115	32.237	1.00	114.78	SS19	ATOM	6619	CE LYS	55	232.591	92.395	24.596	1.00	69.78	SS
ATOM	6567	CG2 THR	48	250.313	90.595	32.209	1.00	114.78	SS19	ATOM	6620	NZ LYS	55	232.252	91.917	23.229	1.00	69.78	SS
ATOM	6568	C THR	48	250.760	93.138	33.346	1.00	101.88	SS19	ATOM	6621	C LYS	55	235.478	94.856	28.161	1.00	53.44	SS
ATOM	6569	O THR	48	250.044	92.730	34.260	1.00	101.88	SS19	ATOM	6622	C LYS	55	234.845	94.150	27.904	1.00	53.44	SS
ATOM	6570	N ILE	49	250.521	94.271	32.697	1.00	123.40	SS19	ATOM	6623	N GLN	56	236.774	94.677	27.906	1.00	78.65	SS
ATOM	6571	CA ILE	49	249.362	95.093	33.018	1.00	123.40	SS19	ATOM	6624	CA GLN	56	237.558	92.613	28.542	1.00	78.65	SS
ATOM	6572	CB ILE	49	249.670	96.588	32.919	1.00	57.02	SS19	ATOM	6625	CB GLN	56	237.945	92.543	27.518	1.00	108.73	SS
ATOM	6573	CG2 ILE	49	248.377	97.383	33.026	1.00	57.02	SS19	ATOM	6626	CG GLN	56	236.785	91.969	26.746	1.00	108.73	SS
ATOM	6574	CG1 ILE	49	250.666	96.987	34.009	1.00	57.02	SS19	ATOM	6627	CD GLN	56	235.803	91.247	27.636	1.00	108.73	SS
ATOM	6575	CD1 ILE	49	251.044	98.465	33.993	1.00	57.02	SS19	ATOM	6628	OE1 GLN	56	236.124	90.212	28.217	1.00	108.73	SS
ATOM	6576	C ILE	49	248.235	94.805	32.046	1.00	123.40	SS19	ATOM	6629	NE2 GLN	56	234.596	91.793	27.754	1.00	78.65	SS
ATOM	6577	O ILE	49	248.438	94.803	30.832	1.00	123.40	SS19	ATOM	6630	C GLN	56	238.841	94.143	29.163	1.00	78.65	SS
ATOM	6578	N ALA	50	247.044	94.570	32.583	1.00	80.48	SS19	ATOM	6631	O GLN	56	239.156	95.326	29.073	1.00	78.65	SS
ATOM	6579	CA ALA	50	245.885	94.296	31.750	1.00	80.48	SS19	ATOM	6632	N HIS	57	239.582	93.245	29.796	1.00	66.03	SS
ATOM	6580	CB ALA	50	245.068	93.150	32.354	1.00	31.39	SS19	ATOM	6633	CA HIS	57	240.854	93.592	30.407	1.00	66.03	SS
ATOM	6581	C ALA	50	245.042	95.572	32.629	1.00	80.48	SS19	ATOM	6634	CB HIS	57	240.826	93.315	31.908	1.00	77.02	SS
ATOM	6582	O ALA	50	244.452	96.032	32.609	1.00	80.48	SS19	ATOM	6635	CG HIS	57	240.329	94.468	33.721	1.00	77.02	SS
ATOM	6583	N VAL	51	245.007	96.136	30.419	1.00	104.06	SS19	ATOM	6636	CD2 HIS	57	239.229	94.605	33.499	1.00	77.02	SS
ATOM	6584	CA VAL	51	244.260	97.365	30.134	1.00	104.06	SS19	ATOM	6637	ND1 HIS	57	240.999	95.672	32.789	1.00	77.02	SS
ATOM	6585	CB VAL	51	244.915	98.170	28.980	1.00	73.95	SS19	ATOM	6638	CE1 HIS	57	240.334	96.500	33.575	1.00	77.02	SS
ATOM	6586	CG1 VAL	51	244.208	99.503	28.804	1.00	73.95	SS19	ATOM	6639	NE2 HIS	57	239.257	95.877	34.018	1.00	77.02	SS
ATOM	6587	CG2 VAL	51	246.391	98.396	29.267	1.00	73.95	SS19	ATOM	6640	C HIS	57	241.894	92.728	29.727	1.00	66.03	SS
ATOM	6588	C VAL	51	242.800	97.095	29.766	1.00	104.06	SS19	ATOM	6641	O HIS	57	242.011	91.536	30.010	1.00	96.03	SS
ATOM	6589	O VAL	51	242.459	96.034	29.232	1.00	104.06	SS19	ATOM	6642	N VAL	58	242.638	93.336	28.812	1.00	97.16	SS
ATOM	6590	N TYR	52	241.945	98.075	30.045	1.00	93.90	SS19	ATOM	6643	CA VAL	58	243.656	92.618	28.061	1.00	97.16	SS

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ATOM	6644	CB VAL	58	243.744	93.139	26.617	1.00	68.91	SS19	ATOM	6697	C GLU	64	261.203	98.769	25.989	1.00	92.79	SS
ATOM	6645	CG1 VAL	58	242.664	92.489	25.767	1.00	68.91	SS19	ATOM	6698	O GLU	64	260.823	99.944	26.006	1.00	92.79	SS
ATOM	6646	CG2 VAL	58	243.596	94.660	26.604	1.00	68.91	SS19	ATOM	6699	N ASN	65	261.334	98.055	24.874	1.00	98.70	SS
ATOM	6647	C VAL	58	245.051	92.657	28.661	1.00	97.16	SS19	ATOM	6700	CA ASN	65	261.058	98.592	23.542	1.00	98.70	SS
ATOM	6648	O VAL	58	245.591	93.724	28.939	1.00	97.16	SS19	ATOM	6701	CB ASN	65	261.150	97.466	22.506	1.00	103.05	SS
ATOM	6649	N PRO	59	245.655	91.477	28.859	1.00	79.59	SS19	ATOM	6702	CG ASN	65	260.270	96.280	22.855	1.00	103.05	SS
ATOM	6650	CD PRO	59	245.058	90.167	28.554	1.00	70.70	SS19	ATOM	6703	OD1 ASN	65	260.255	95.816	23.993	1.00	103.05	SS
ATOM	6651	CA PRO	59	246.999	91.308	29.418	1.00	79.59	SS19	ATOM	6704	ND2 ASN	65	259.540	95.777	21.873	1.00	103.05	SS
ATOM	6652	CB PRO	59	247.081	89.804	29.639	1.00	70.70	SS19	ATOM	6705	C ASN	65	259.713	99.300	22.415	1.00	98.70	SS
ATOM	6653	CG PRO	59	246.273	89.275	28.498	1.00	70.70	SS19	ATOM	6706	O ASN	65	259.464	99.982	22.423	1.00	98.70	SS
ATOM	6654	C PRO	59	248.079	91.812	28.451	1.00	79.59	SS19	ATOM	6707	N MET	66	258.852	99.144	24.417	1.00	107.32	SS
ATOM	6655	O PRO	59	248.270	91.257	27.363	1.00	79.59	SS19	ATOM	6708	CA MET	66	257.542	99.781	24.389	1.00	107.32	SS
ATOM	6656	N VAL	60	248.790	92.856	28.865	1.00	108.12	SS19	ATOM	6709	CG MET	66	256.430	98.725	24.298	1.00	76.73	SS
ATOM	6657	CA VAL	60	249.829	93.452	28.037	1.00	108.12	SS19	ATOM	6710	SD MET	66	256.371	97.723	25.440	1.00	76.73	SS
ATOM	6658	CB VAL	60	249.510	94.932	27.749	1.00	60.08	SS19	ATOM	6711	CE MET	66	255.082	96.460	25.213	1.00	76.73	SS
ATOM	6659	CG1 VAL	60	250.433	95.467	26.674	1.00	60.08	SS19	ATOM	6712	C MET	66	256.023	95.172	24.367	1.00	76.73	SS
ATOM	6660	CG2 VAL	60	248.064	95.078	27.342	1.00	60.08	SS19	ATOM	6713	C MET	66	257.276	100.311	26.577	1.00	107.32	SS
ATOM	6661	C VAL	60	251.211	93.393	28.681	1.00	108.12	SS19	ATOM	6714	O MET	66	257.702	100.311	26.577	1.00	107.32	SS
ATOM	6662	O VAL	60	251.546	94.241	29.507	1.00	108.12	SS19	ATOM	6715	N VAL	67	257.706	101.959	25.422	1.00	72.76	SS
ATOM	6663	N TYR	61	252.014	92.399	28.307	1.00	122.77	SS19	ATOM	6716	CA VAL	67	257.502	102.989	26.439	1.00	72.76	SS
ATOM	6664	CA TYR	61	253.364	92.290	28.853	1.00	122.77	SS19	ATOM	6717	CB VAL	67	258.849	103.635	26.841	1.00	87.29	SS
ATOM	6665	CB TYR	61	254.062	91.036	28.315	1.00	106.47	SS19	ATOM	6718	CG1 VAL	67	258.641	104.649	27.954	1.00	87.29	SS
ATOM	6666	CG TYR	61	255.443	90.777	28.895	1.00	106.47	SS19	ATOM	6719	CG2 VAL	67	259.822	102.550	27.293	1.00	87.29	SS
ATOM	6667	CD1 TYR	61	255.734	89.572	29.543	1.00	106.47	SS19	ATOM	6720	C VAL	67	256.564	104.032	25.800	1.00	72.76	SS
ATOM	6668	CE1 TYR	61	257.011	89.311	30.046	1.00	106.47	SS19	ATOM	6721	O VAL	67	256.787	105.252	25.872	1.00	72.76	SS
ATOM	6669	CD2 TYR	61	256.466	91.716	28.768	1.00	106.47	SS19	ATOM	6722	N GLY	68	255.510	103.509	25.168	1.00	78.32	SS
ATOM	6670	CE2 TYR	61	257.743	91.465	29.265	1.00	106.47	SS19	ATOM	6723	CA GLY	68	254.525	104.323	24.479	1.00	78.32	SS
ATOM	6671	C2 TYR	61	258.008	90.262	29.900	1.00	106.47	SS19	ATOM	6724	C GLY	68	253.483	104.970	25.360	1.00	78.32	SS
ATOM	6672	OH TYR	61	259.275	90.010	30.372	1.00	106.47	SS19	ATOM	6725	O GLY	68	253.818	105.540	26.394	1.00	78.32	SS
ATOM	6673	C TYR	61	254.102	93.549	28.402	1.00	122.77	SS19	ATOM	6726	N HIS	69	252.215	104.859	24.964	1.00	77.89	SS
ATOM	6674	O TYR	61	254.135	93.866	27.211	1.00	122.77	SS19	ATOM	6727	CA HIS	69	251.126	105.493	25.703	1.00	77.89	SS
ATOM	6675	N ILE	62	254.691	94.262	29.355	1.00	108.03	SS19	ATOM	6728	CB HIS	69	250.511	106.597	24.838	1.00	107.52	SS
ATOM	6676	CA ILE	62	255.392	95.502	29.049	1.00	108.03	SS19	ATOM	6729	CG HIS	69	250.419	107.928	25.519	1.00	107.52	SS
ATOM	6677	CB ILE	62	255.026	96.585	30.088	1.00	86.83	SS19	ATOM	6730	CD2 HIS	69	251.042	109.164	25.263	1.00	107.52	SS
ATOM	6678	CG2 ILE	62	255.387	96.104	31.479	1.00	86.83	SS19	ATOM	6731	ND1 HIS	69	249.589	108.161	26.593	1.00	107.52	SS
ATOM	6679	CG1 ILE	62	255.704	97.909	29.731	1.00	86.83	SS19	ATOM	6732	CE1 HIS	69	249.703	109.424	26.968	1.00	107.52	SS
ATOM	6680	CD1 ILE	62	255.149	98.571	28.496	1.00	86.83	SS19	ATOM	6733	NE2 HIS	69	250.578	110.018	26.177	1.00	107.52	SS
ATOM	6681	C ILE	62	256.917	95.368	28.967	1.00	108.03	SS19	ATOM	6734	C HIS	69	250.001	104.601	26.220	1.00	77.89	SS
ATOM	6682	O ILE	62	257.594	95.196	29.981	1.00	108.03	SS19	ATOM	6735	O HIS	69	248.889	105.088	26.413	1.00	77.89	SS
ATOM	6683	N THR	63	257.449	95.457	27.748	1.00	90.30	SS19	ATOM	6736	N LYS	70	250.279	103.313	26.429	1.00	70.94	SS
ATOM	6684	CA THR	63	258.885	95.346	27.528	1.00	90.30	SS19	ATOM	6737	CA LYS	70	249.295	102.345	26.959	1.00	70.94	SS
ATOM	6685	CB THR	63	259.139	94.479	26.301	1.00	95.81	SS19	ATOM	6738	CG LYS	70	248.630	102.902	28.220	1.00	72.64	SS
ATOM	6686	OG1 THR	63	258.379	93.308	26.323	1.00	95.81	SS19	ATOM	6739	CB LYS	70	248.783	102.013	29.425	1.00	72.64	SS
ATOM	6687	CG2 THR	63	260.662	94.048	26.321	1.00	95.81	SS19	ATOM	6740	CD LYS	70	250.229	101.921	29.820	1.00	72.64	SS
ATOM	6688	C THR	63	259.503	96.721	27.319	1.00	90.30	SS19	ATOM	6741	CE LYS	70	250.415	100.737	30.709	1.00	72.64	SS
ATOM	6689	O THR	63	258.798	97.693	27.052	1.00	90.30	SS19	ATOM	6742	NZ LYS	70	249.786	99.564	30.053	1.00	72.64	SS
ATOM	6690	N GLU	64	260.825	96.792	27.442	1.00	92.79	SS19	ATOM	6743	C LYS	70	248.202	101.849	26.005	1.00	70.94	SS
ATOM	6691	CA GLU	64	261.553	98.044	27.284	1.00	92.79	SS19	ATOM	6744	O LYS	70	247.179	101.314	26.436	1.00	70.94	SS
ATOM	6692	CB GLU	64	263.062	97.781	27.327	1.00	146.99	SS19	ATOM	6745	N LEU	71	248.433	102.040	24.712	1.00	83.49	SS
ATOM	6693	CG GLU	64	263.914	99.039	27.199	1.00	146.99	SS19	ATOM	6746	CA LEU	71	247.521	101.603	23.662	1.00	83.49	SS
ATOM	6694	CD GLU	64	264.721	99.985	28.377	1.00	146.99	SS19	ATOM	6747	CB LEU	71	247.821	102.382	22.388	1.00	47.13	SS
ATOM	6695	OE1 GLU	64	264.251	99.645	29.484	1.00	146.99	SS19	ATOM	6748	CG LEU	71	249.280	102.159	21.963	1.00	47.13	SS
ATOM	6696	OE2 GLU	64	263.150	101.066	28.196	1.00	146.99	SS19	ATOM	6749	CD1 LEU	71	249.351	100.972	20.993	1.00	47.13	SS

ATOM	6750	CD8 LEU	71	249.860	103.430	21.335	1.00	47.13	SS19	ATOM	6803	NH1 ARG	78	235.111	98.544	10.408	1.00	201.09	SS
ATOM	6751	5 LEU	71	247.842	100.128	23.437	1.00	83.49	SS19	ATOM	6804	NH2 ARG	78	233.378	98.602	11.914	1.00	201.09	SS
ATOM	6752	O LEU	71	247.158	99.442	22.685	1.00	83.49	SS19	ATOM	6805	C ARG	78	237.662	93.857	12.698	1.00	88.18	SS
ATOM	6753	N GLY	72	248.915	99.679	24.090	1.00	106.56	SS19	ATOM	6806	O ARG	78	238.829	94.116	12.410	1.00	88.18	SS
ATOM	6754	CA GLY	72	249.382	98.307	24.000	1.00	106.56	SS19	ATOM	6807	N THR	79	237.004	92.836	12.153	1.00	143.13	SS
ATOM	6755	C GLY	72	248.441	97.357	23.294	1.00	106.56	SS19	ATOM	6808	CA THR	79	237.608	91.987	11.120	1.00	143.13	SS
ATOM	6756	O GLY	72	248.347	97.378	22.068	1.00	106.56	SS19	ATOM	6809	CB THR	79	237.332	90.488	11.334	1.00	103.89	SS
ATOM	6757	N GLU	73	247.741	96.530	24.066	1.00	106.79	SS19	ATOM	6810	OG1 THR	79	237.767	90.092	12.642	1.00	103.89	SS
ATOM	6758	CA GLU	73	246.804	95.557	23.508	1.00	106.79	SS19	ATOM	6811	CG2 THR	79	238.081	89.667	10.287	1.00	103.89	SS
ATOM	6759	OG1 GLU	73	246.781	94.289	24.365	1.00	170.11	SS19	ATOM	6812	C THR	79	236.857	92.450	9.877	1.00	143.13	SS
ATOM	6760	CG GLU	73	248.035	93.434	24.246	1.00	170.11	SS19	ATOM	6813	O THR	79	236.204	93.489	9.934	1.00	143.13	SS
ATOM	6761	CD GLU	73	248.274	92.944	22.828	1.00	170.11	SS19	ATOM	6814	N TYR	80	236.909	91.723	8.764	1.00	123.77	SS
ATOM	6762	OE1 GLU	73	247.350	92.338	22.243	1.00	170.11	SS19	ATOM	6815	CA TYR	80	236.182	92.220	7.596	1.00	117.13	SS
ATOM	6763	OE2 GLU	73	249.387	93.161	22.301	1.00	170.11	SS19	ATOM	6816	CB TYR	80	237.135	93.008	6.695	1.00	117.13	SS
ATOM	6764	C GLU	73	245.382	96.091	23.339	1.00	106.79	SS19	ATOM	6817	CD1 TYR	80	237.537	94.320	7.320	1.00	117.13	SS
ATOM	6765	O GLU	73	244.418	95.323	23.267	1.00	106.79	SS19	ATOM	6818	CD2 TYR	80	238.481	94.365	8.346	1.00	117.13	SS
ATOM	6766	N PHE	74	245.255	97.410	23.275	1.00	73.38	SS19	ATOM	6819	CE1 TYR	80	238.759	95.543	9.009	1.00	117.13	SS
ATOM	6767	CA PHE	74	243.957	98.033	23.078	1.00	73.38	SS19	ATOM	6820	CD2 TYR	80	236.892	95.500	6.968	1.00	117.13	SS
ATOM	6768	CG PHE	74	244.078	99.546	23.201	1.00	121.59	SS19	ATOM	6821	CE2 TYR	80	237.164	96.682	7.627	1.00	117.13	SS
ATOM	6769	CB PHE	74	243.225	100.113	24.270	1.00	121.59	SS19	ATOM	6822	CZ TYR	80	238.095	96.695	8.647	1.00	117.13	SS
ATOM	6770	CD1 PHE	74	243.700	101.121	25.088	1.00	121.59	SS19	ATOM	6823	OH TYR	80	238.344	97.857	9.325	1.00	117.13	SS
ATOM	6771	CD2 PHE	74	241.966	99.582	24.513	1.00	121.59	SS19	ATOM	6824	C TYR	80	235.341	91.284	6.741	1.00	123.77	SS
ATOM	6772	CE1 PHE	74	242.937	101.579	26.141	1.00	121.59	SS19	ATOM	6825	O TYR	80	235.527	90.067	6.735	1.00	123.77	SS
ATOM	6773	CE2 PHE	74	241.197	100.038	25.562	1.00	121.59	SS19	ATOM	6826	N ARG	81	234.448	91.905	6.019	1.00	119.83	SS
ATOM	6774	CZ PHE	74	241.682	101.034	26.382	1.00	121.59	SS19	ATOM	6827	CA ARG	81	233.408	91.263	5.107	1.00	119.83	SS
ATOM	6775	C PHE	74	243.476	97.684	21.683	1.00	73.38	SS19	ATOM	6828	CB ARG	81	232.751	92.351	4.280	1.00	51.08	SS
ATOM	6776	O PHE	74	244.292	97.449	20.791	1.00	73.38	SS19	ATOM	6829	CD ARG	81	233.374	93.299	3.578	1.00	51.08	SS
ATOM	6777	N ALA	75	242.165	97.648	21.473	1.00	157.40	SS19	ATOM	6830	CD ARG	81	234.389	94.284	4.531	1.00	51.08	SS
ATOM	6778	CA ALA	75	241.701	97.326	20.139	1.00	157.40	SS19	ATOM	6831	NE ARG	81	233.383	95.139	5.139	1.00	51.08	SS
ATOM	6779	CB ALA	75	242.449	96.072	19.638	1.00	47.89	SS19	ATOM	6832	CZ ARG	81	233.613	96.367	5.580	1.00	51.08	SS
ATOM	6780	C ALA	75	240.199	97.164	19.896	1.00	157.40	SS19	ATOM	6833	NH1 ARG	81	234.819	96.895	5.484	1.00	51.08	SS
ATOM	6781	O ALA	75	239.710	96.042	19.772	1.00	157.40	SS19	ATOM	6834	NH2 ARG	81	232.629	97.072	6.110	1.00	51.08	SS
ATOM	6782	N PRO	76	239.443	98.279	19.843	1.00	80.12	SS19	ATOM	6835	C ARG	81	233.965	90.167	4.155	1.00	119.83	SS
ATOM	6783	CD PRO	76	239.766	99.621	20.379	1.00	55.41	SS19	ATOM	6836	O ARG	81	233.287	89.125	4.047	1.00	119.83	SS
ATOM	6784	CA PRO	76	238.000	98.154	19.588	1.00	80.12	SS19	ATOM	6837	OX1 ARG	81	235.012	90.358	3.502	1.00	80.05	SS
ATOM	6785	CB PRO	76	237.563	99.608	19.495	1.00	55.41	SS19	ATOM	6838	CB GLU	1	243.085	180.688	-3.886	1.00	128.37	IS
ATOM	6786	C PRO	76	238.390	100.246	20.604	1.00	55.41	SS19	ATOM	6839	CG GLU	1	244.557	180.284	-3.783	1.00	128.37	IS
ATOM	6787	O PRO	76	237.697	97.330	18.302	1.00	80.12	SS19	ATOM	6840	CD GLU	1	244.789	179.023	-2.957	1.00	128.37	IS
ATOM	6788	C PRO	76	237.821	97.829	17.185	1.00	80.12	SS19	ATOM	6841	OE1 GLU	1	244.202	177.973	-3.282	1.00	128.37	IS
ATOM	6789	O THR	77	237.307	96.068	18.520	1.00	105.80	SS19	ATOM	6842	OE2 GLU	1	245.568	179.080	-1.981	1.00	128.37	IS
ATOM	6790	CA THR	77	236.979	95.029	17.519	1.00	105.80	SS19	ATOM	6843	C GLU	1	242.324	178.706	-5.203	1.00	151.83	IS
ATOM	6791	CB THR	77	235.815	94.146	18.017	1.00	72.48	SS19	ATOM	6844	O GLU	1	243.240	178.057	-5.709	1.00	151.83	IS
ATOM	6792	OG1 THR	77	236.147	93.585	19.292	1.00	72.48	SS19	ATOM	6845	N GLU	1	240.998	180.784	-5.224	1.00	151.83	IS
ATOM	6793	CG2 THR	77	235.541	93.016	17.029	1.00	72.48	SS19	ATOM	6846	CA GLU	1	242.377	180.225	-5.169	1.00	151.83	IS
ATOM	6794	C THR	77	236.648	95.369	16.072	1.00	105.80	SS19	ATOM	6847	N GLN	2	241.239	178.145	-4.679	1.00	113.17	IS
ATOM	6795	O THR	77	235.648	96.322	15.808	1.00	105.80	SS19	ATOM	6848	CA GLN	2	241.085	176.695	-4.621	1.00	113.17	IS
ATOM	6796	N ARG	78	237.139	94.539	15.145	1.00	88.18	SS19	ATOM	6849	CB GLN	2	241.246	176.237	-3.174	1.00	83.82	IS
ATOM	6797	CA ARG	78	236.895	94.733	13.710	1.00	88.18	SS19	ATOM	6850	CG GLN	2	242.066	174.979	-3.002	1.00	83.82	IS
ATOM	6798	CB ARG	78	237.145	96.197	13.333	1.00	201.09	SS19	ATOM	6851	CD GLN	2	242.271	174.640	-1.542	1.00	83.82	IS
ATOM	6799	CG ARG	78	237.134	96.450	11.836	1.00	201.09	SS19	ATOM	6852	OE1 GLN	2	242.981	173.690	-1.211	1.00	83.82	IS
ATOM	6800	CD ARG	78	235.829	95.971	11.239	1.00	201.09	SS19	ATOM	6853	NE2 GLN	2	241.661	175.419	-0.659	1.00	83.82	IS
ATOM	6801	NE ARG	78	234.710	96.736	11.769	1.00	201.09	SS19	ATOM	6854	C GLN	2	239.747	176.198	-5.162	1.00	113.17	IS
ATOM	6802	CZ ARG	78	234.394	97.958	11.360	1.00	201.09	SS19	ATOM	6855	O GLN	2	238.836	176.983	-5.419	1.00	113.17	IS

ATOM	6856	N	TYR	3	239.646	174.882	-5.338	1.00119.60	IS9	ATOM	6909	CG	ARG	9	233.777	154.156	-8.050	1.00	85.84	IS	
ATOM	6857	CA	TYR	3	238.427	174.250	-5.837	1.00119.60	IS9	ATOM	6910	CD	ARG	9	232.424	154.001	-8.711	1.00	85.84	IS	
ATOM	6858	CB	TYR	3	238.451	174.207	-7.365	1.00	99.32	IS9	ATOM	6911	NE	ARG	9	232.015	152.603	-8.760	1.00	85.84	IS
ATOM	6859	CG	TYR	3	238.519	175.596	-7.961	1.00	99.32	IS9	ATOM	6912	CZ	ARG	9	232.674	151.657	-9.415	1.00	85.84	IS
ATOM	6860	CD1	TYR	3	239.745	176.215	-8.210	1.00	99.32	IS9	ATOM	6913	NH1	ARG	9	233.776	151.949	-10.090	1.00	85.84	IS
ATOM	6861	CE1	TYR	3	239.806	177.523	-8.671	1.00	99.32	IS9	ATOM	6914	NH2	ARG	9	232.239	150.412	-9.377	1.00	85.84	IS
ATOM	6862	CD2	TYR	3	237.356	176.326	-8.194	1.00	99.32	IS9	ATOM	6915	C	ARG	9	233.104	154.007	-5.249	1.00	55.14	IS
ATOM	6863	CE2	TYR	3	237.411	177.633	-8.888	1.00	99.32	IS9	ATOM	6916	O	ARG	9	234.052	153.865	-4.479	1.00	55.14	IS
ATOM	6864	CA	TYR	3	238.633	178.224	-9.360	1.00	99.32	IS9	ATOM	6917	N	LYS	10	232.219	153.052	-5.514	1.00	89.97	IS
ATOM	6865	CB	TYR	3	238.668	179.514	-9.360	1.00	99.32	IS9	ATOM	6918	CA	LYS	10	232.302	151.715	-4.943	1.00	89.97	IS
ATOM	6866	CG	TYR	3	238.245	172.858	-5.227	1.00119.60	IS9	ATOM	6919	CB	LYS	10	233.093	150.815	-5.903	1.00	64.88	IS	
ATOM	6867	O	TYR	3	239.221	172.209	-4.842	1.00119.60	IS9	ATOM	6920	CG	LYS	10	233.175	149.367	-5.477	1.00	64.88	IS	
ATOM	6868	N	TYR	4	236.996	172.399	-5.156	1.00105.22	IS9	ATOM	6921	CD	LYS	10	233.900	148.527	-6.505	1.00	64.88	IS	
ATOM	6869	CA	TYR	4	236.689	171.126	-4.505	1.00105.22	IS9	ATOM	6922	CE	LYS	10	234.026	147.104	-6.014	1.00	64.88	IS	
ATOM	6870	CB	TYR	4	236.035	171.451	-3.167	1.00	92.65	IS9	ATOM	6923	NZ	LYS	10	234.647	146.291	-7.062	1.00	64.88	IS
ATOM	6871	CG	TYR	4	236.078	170.347	-2.163	1.00	92.65	IS9	ATOM	6924	C	LYS	10	232.938	151.705	-3.552	1.00	89.97	IS
ATOM	6872	CD1	TYR	4	235.289	170.403	-1.023	1.00	92.65	IS9	ATOM	6925	O	LYS	10	233.759	150.847	-3.235	1.00	89.97	IS
ATOM	6873	CE1	TYR	4	235.318	169.388	-0.089	1.00	92.65	IS9	ATOM	6926	N	GLU	11	232.548	152.667	-2.729	1.00	63.10	IS
ATOM	6874	CD2	TYR	4	236.903	169.246	-2.345	1.00	92.65	IS9	ATOM	6927	CA	GLU	11	233.069	152.789	-1.369	1.00	63.10	IS
ATOM	6875	CE2	TYR	4	236.941	168.224	-1.423	1.00	92.65	IS9	ATOM	6928	CB	GLU	11	233.012	151.452	-0.644	1.00	85.39	IS
ATOM	6876	CZ	TYR	4	236.144	168.298	-0.295	1.00	92.65	IS9	ATOM	6929	CG	GLU	11	233.040	151.636	0.847	1.00	85.39	IS
ATOM	6877	OH	TYR	4	236.163	167.270	0.616	1.00	92.65	IS9	ATOM	6930	CD	GLU	11	233.132	150.337	1.587	1.00	85.39	IS
ATOM	6878	C	TYR	4	235.822	170.098	-5.254	1.00105.22	IS9	ATOM	6931	OE1	GLU	11	234.136	149.626	1.369	1.00	85.39	IS	
ATOM	6879	O	TYR	4	235.018	170.450	-6.115	1.00105.22	IS9	ATOM	6932	OE2	GLU	11	232.209	150.031	2.381	1.00	85.39	IS	
ATOM	6880	N	GLY	5	235.981	168.825	-4.888	1.00111.75	IS9	ATOM	6933	C	GLU	11	234.494	153.368	-1.248	1.00	63.10	IS	
ATOM	6881	CA	GLY	5	235.222	167.756	-5.514	1.00111.75	IS9	ATOM	6934	N	GLU	11	235.382	152.788	-0.599	1.00	63.10	IS	
ATOM	6882	C	GLY	5	234.570	166.755	-4.564	1.00111.75	IS9	ATOM	6935	O	ALA	12	236.674	154.538	-1.859	1.00	69.30	IS	
ATOM	6883	O	GLY	5	233.352	166.778	-4.377	1.00111.75	IS9	ATOM	6936	CA	ALA	12	235.932	155.265	-1.858	1.00	69.30	IS	
ATOM	6884	N	THR	6	235.382	165.875	-3.978	1.00189.34	IS9	ATOM	6937	CB	ALA	12	236.715	154.943	-3.109	1.00	69.30	IS	
ATOM	6885	CA	THR	6	234.939	164.823	-3.045	1.00189.34	IS9	ATOM	6938	C	ALA	12	235.599	156.751	-1.823	1.00	69.30	IS	
ATOM	6886	CB	THR	6	233.636	165.193	-2.287	1.00	67.04	IS9	ATOM	6939	O	ALA	12	234.621	157.190	-1.098	1.00	69.30	IS
ATOM	6887	OG1	THR	6	233.917	166.204	-1.310	1.00	67.04	IS9	ATOM	6940	N	VAL	13	236.415	157.517	-1.098	1.00	80.22	IS
ATOM	6888	CG2	THR	6	233.062	163.969	-1.582	1.00	67.04	IS9	ATOM	6941	CA	VAL	13	236.233	158.963	-0.973	1.00	80.22	IS
ATOM	6889	C	THR	6	234.726	163.464	-3.719	1.00189.34	IS9	ATOM	6942	CB	VAL	13	235.902	159.354	0.471	1.00	89.63	IS	
ATOM	6890	O	THR	6	235.235	162.452	-3.238	1.00189.34	IS9	ATOM	6943	CG1	VAL	13	235.423	160.785	0.508	1.00	89.63	IS	
ATOM	6891	N	GLY	7	233.966	163.449	-4.814	1.00	97.35	IS9	ATOM	6944	CG2	VAL	13	237.520	159.680	-1.387	1.00	89.63	IS
ATOM	6892	CA	GLY	7	233.701	162.224	-5.560	1.00	97.35	IS9	ATOM	6945	C	VAL	13	237.520	159.680	-1.387	1.00	89.63	IS
ATOM	6893	C	GLY	7	233.846	160.866	-4.880	1.00	97.35	IS9	ATOM	6946	O	VAL	13	238.597	159.380	-0.875	1.00	80.22	IS
ATOM	6894	O	GLY	7	234.907	160.526	-4.353	1.00	97.35	IS9	ATOM	6947	N	ALA	14	238.584	160.630	-2.308	1.00	42.26	IS
ATOM	6895	N	ARG	8	232.777	160.073	-4.911	1.00	65.10	IS9	ATOM	6948	CA	ALA	14	238.897	160.911	-4.211	1.00	49.25	IS
ATOM	6896	CA	ARG	8	232.787	158.741	-4.308	1.00	65.10	IS9	ATOM	6949	CB	ALA	14	238.449	162.862	-2.736	1.00	42.26	IS
ATOM	6897	CB	ARG	8	231.831	158.697	-3.114	1.00	73.93	IS9	ATOM	6950	C	ALA	14	237.714	163.446	-3.531	1.00	42.26	IS
ATOM	6898	CG	ARG	8	232.488	159.130	-0.812	1.00	73.93	IS9	ATOM	6951	O	ALA	14	239.114	164.955	-1.711	1.00	80.37	IS
ATOM	6899	CD	ARG	8	231.479	159.644	-0.812	1.00	73.93	IS9	ATOM	6952	N	ARG	15	239.750	165.424	-0.411	1.00	113.15	IS
ATOM	6900	NE	ARG	8	230.809	160.851	-1.292	1.00	73.93	IS9	ATOM	6953	CA	ARG	15	239.286	164.686	0.813	1.00	113.15	IS
ATOM	6901	CZ	ARG	8	230.112	161.670	-0.514	1.00	73.93	IS9	ATOM	6954	CG	ARG	15	239.750	165.424	-0.411	1.00	113.15	IS
ATOM	6902	NH1	ARG	8	229.007	161.396	-1.016	1.00	73.93	IS9	ATOM	6955	CD	ARG	15	239.286	164.686	0.813	1.00	113.15	IS
ATOM	6903	NH2	ARG	8	229.525	162.755	-5.297	1.00	73.93	IS9	ATOM	6956	CG	ARG	15	239.711	165.447	2.041	1.00	113.15	IS
ATOM	6904	C	ARG	8	232.454	157.619	-5.297	1.00	65.10	IS9	ATOM	6957	NE	ARG	15	239.803	164.597	3.219	1.00	113.15	IS
ATOM	6905	O	ARG	8	231.650	157.785	-6.217	1.00	65.10	IS9	ATOM	6958	CZ	ARG	15	240.129	165.049	4.423	1.00	113.15	IS
ATOM	6906	N	ARG	9	233.092	156.471	-5.100	1.00	55.14	IS9	ATOM	6959	NH1	ARG	15	240.384	166.341	4.590	1.00	113.15	IS
ATOM	6907	CA	ARG	9	232.878	155.324	-5.969	1.00	55.14	IS9	ATOM	6960	NH2	ARG	15	240.213	164.215	5.451	1.00	113.15	IS
ATOM	6908	CB	ARG	9	233.817	155.392	-7.176	1.00	85.84	IS9	ATOM	6961	C	ARG	15	239.893	165.527	-2.889	1.00	80.37	IS

ATOM	6962	O	ARG	15	241.104	165.322	-3.001	1.00	80.37	IS9	ATOM	7015	OD1	ASN	22	254.351	171.314	-14.083	1.00108.99	IS	
ATOM	6963	N	VAL	16	239.200	166.234	-3.772	1.00101.28		IS9	ATOM	7016	ND2	ASN	22	252.717	171.862	-15.523	1.00108.99	IS	
ATOM	6964	CA	VAL	16	239.856	166.807	-4.934	1.00101.28		IS9	ATOM	7017	C	ASN	22	250.421	172.290	-14.291	1.00136.29	IS	
ATOM	6965	CB	VAL	16	239.086	166.467	-6.226	1.00	85.61	IS9	ATOM	7018	O	ASN	22	250.073	172.277	-15.471	1.00136.29	IS	
ATOM	6966	CG1	VAL	16	239.692	167.201	-7.414	1.00	85.61	IS9	ATOM	7019	N	GLY	23	250.060	171.357	-13.417	1.00126.45	IS	
ATOM	6967	CG2	VAL	16	239.140	164.969	-6.466	1.00	85.61	IS9	ATOM	7020	CA	GLY	23	249.207	170.256	-13.822	1.00126.45	IS	
ATOM	6968	C	VAL	16	240.011	168.314	-4.816	1.00101.28		IS9	ATOM	7021	C	GLY	23	249.556	168.965	-13.114	1.00126.45	IS	
ATOM	6969	O	VAL	16	239.024	169.049	-4.787	1.00101.28		IS9	ATOM	7022	O	GLY	23	249.052	167.900	-13.470	1.00126.45	IS	
ATOM	6970	N	PHE	17	241.264	168.760	-4.753	1.00	81.28	IS9	ATOM	7023	N	LYS	24	250.419	169.057	-12.109	1.00	89.43	IS
ATOM	6971	CA	PHE	17	241.595	170.178	-4.635	1.00	81.28	IS9	ATOM	7024	CA	LYS	24	250.827	167.879	-11.359	1.00	89.43	IS
ATOM	6972	CB	PHE	17	242.450	170.408	-3.384	1.00	70.71	IS9	ATOM	7025	CB	LYS	24	252.138	168.140	-10.611	1.00101.59	IS	
ATOM	6973	CG	PHE	17	241.690	170.284	-2.088	1.00	70.71	IS9	ATOM	7026	CG	LYS	24	252.052	169.189	-9.519	1.00101.59	IS	
ATOM	6974	CD1	PHE	17	242.353	169.942	-0.911	1.00	70.71	IS9	ATOM	7027	CD	LYS	24	253.381	169.331	-8.787	1.00101.59	IS	
ATOM	6975	CD2	PHE	17	240.321	170.541	-2.035	1.00	70.71	IS9	ATOM	7028	CE	LYS	24	254.494	169.791	-9.725	1.00101.59	IS	
ATOM	6976	CE1	PHE	17	241.663	169.859	-0.303	1.00	70.71	IS9	ATOM	7029	NZ	LYS	24	255.786	169.992	-9.008	1.00101.59	IS	
ATOM	6977	CE2	PHE	17	239.628	170.461	-0.833	1.00	70.71	IS9	ATOM	7030	C	LYS	24	249.739	167.470	-10.375	1.00	89.43	IS
ATOM	6978	CZ	PHE	17	240.301	170.120	-0.339	1.00	70.71	IS9	ATOM	7031	O	LYS	24	248.806	168.231	-10.110	1.00	89.43	IS
ATOM	6979	C	PHE	17	242.342	170.692	-5.858	1.00	81.28	IS9	ATOM	7032	N	VAL	25	249.865	166.261	-9.839	1.00	90.31	IS
ATOM	6980	O	PHE	17	243.528	170.417	-6.032	1.00	81.28	IS9	ATOM	7033	CA	VAL	25	248.883	165.743	-8.900	1.00	90.31	IS
ATOM	6981	N	LEU	18	241.640	171.431	-6.708	1.00103.32		IS9	ATOM	7034	CB	VAL	25	247.921	164.761	-9.595	1.00	57.69	IS
ATOM	6982	CA	LEU	18	242.253	171.998	-7.901	1.00103.32		IS9	ATOM	7035	CG1	VAL	25	246.802	164.369	-8.632	1.00	57.69	IS
ATOM	6983	CB	LEU	18	241.230	172.102	-9.036	1.00	99.02	IS9	ATOM	7036	CG2	VAL	25	247.364	165.384	-10.873	1.00	57.69	IS
ATOM	6984	CG	LEU	18	240.727	170.797	-9.654	1.00	99.02	IS9	ATOM	7037	C	VAL	25	249.528	165.023	-7.723	1.00	90.31	IS
ATOM	6985	CD1	LEU	18	239.658	171.087	-10.706	1.00	99.02	IS9	ATOM	7038	O	VAL	25	250.310	164.087	-7.895	1.00	90.31	IS
ATOM	6986	CD2	LEU	18	241.903	170.058	-10.273	1.00	99.02	IS9	ATOM	7039	N	THR	26	249.187	165.465	-6.523	1.00	89.57	IS
ATOM	6987	C	LEU	18	242.792	173.388	-7.571	1.00103.32		IS9	ATOM	7040	CB	THR	26	249.728	164.862	-5.321	1.00	89.57	IS
ATOM	6988	O	LEU	18	242.241	174.089	-6.720	1.00103.32		IS9	ATOM	7041	CA	THR	26	250.138	165.930	-4.296	1.00187.37	IS	
ATOM	6989	N	ARG	19	243.872	173.783	-8.237	1.00101.91		IS9	ATOM	7042	OG1	THR	26	251.169	166.754	-4.851	1.00187.37	IS	
ATOM	6990	CA	ARG	19	244.478	175.089	-8.013	1.00101.91		IS9	ATOM	7043	CG2	THR	26	250.646	165.276	-3.021	1.00187.37	IS	
ATOM	6991	CB	ARG	19	245.427	175.033	-6.814	1.00104.72		IS9	ATOM	7044	C	THR	26	248.669	163.981	-4.693	1.00	89.57	IS
ATOM	6992	CG	ARG	19	244.817	174.402	-5.574	1.00104.72		IS9	ATOM	7045	O	THR	26	247.877	164.441	-3.871	1.00	89.57	IS
ATOM	6993	CD	ARG	19	245.767	174.436	-4.398	1.00104.72		IS9	ATOM	7046	N	VAL	27	248.644	162.714	-5.079	1.00	70.30	IS
ATOM	6994	NE	ARG	19	245.340	173.547	-3.320	1.00104.72		IS9	ATOM	7047	CA	VAL	27	247.661	161.807	-4.508	1.00	70.30	IS
ATOM	6995	CZ	ARG	19	245.997	173.396	-2.173	1.00104.72		IS9	ATOM	7048	CB	VAL	27	247.283	160.680	-4.488	1.00	72.27	IS
ATOM	6996	NH1	ARG	19	247.112	174.079	-1.947	1.00104.72		IS9	ATOM	7049	CG1	VAL	27	246.162	159.832	-4.891	1.00	72.27	IS
ATOM	6997	NH2	ARG	19	245.550	172.550	-1.255	1.00104.72		IS9	ATOM	7050	CG2	VAL	27	246.852	161.275	-6.824	1.00	72.27	IS
ATOM	6998	C	ARG	19	245.256	175.458	-9.266	1.00101.91		IS9	ATOM	7051	C	VAL	27	248.198	161.188	-3.225	1.00	70.30	IS
ATOM	6999	O	ARG	19	246.182	174.746	-9.651	1.00101.91		IS9	ATOM	7052	O	VAL	27	248.993	160.249	-3.264	1.00	70.30	IS
ATOM	7000	N	PRO	20	244.889	176.576	-9.924	1.00115.26		IS9	ATOM	7053	N	ASN	28	247.761	161.736	-2.093	1.00	83.35	IS
ATOM	7001	CD	PRO	20	243.900	177.590	-9.510	1.00101.75		IS9	ATOM	7054	CA	ASN	28	246.168	161.255	-0.778	1.00	83.35	IS
ATOM	7002	CB	PRO	20	245.588	176.998	-11.144	1.00115.26		IS9	ATOM	7055	CB	ASN	28	247.831	159.770	-0.628	1.00	69.90	IS
ATOM	7003	CA	PRO	20	243.750	178.429	-10.769	1.00101.75		IS9	ATOM	7056	CG	ASN	28	246.567	159.543	-0.167	1.00	69.90	IS
ATOM	7004	CG	PRO	20	247.096	176.850	-10.999	1.00115.26		IS9	ATOM	7057	OD1	ASN	28	245.508	160.080	-0.164	1.00	69.90	IS
ATOM	7005	C	PRO	20	247.723	177.543	-11.197	1.00115.26		IS9	ATOM	7058	ND2	ASN	28	246.670	158.749	-1.228	1.00	69.90	IS
ATOM	7006	O	PRO	20	247.669	175.932	-11.771	1.00107.90		IS9	ATOM	7059	C	ASN	28	249.642	161.469	-0.502	1.00	83.35	IS
ATOM	7007	N	GLY	21	249.099	175.698	-11.699	1.00107.90		IS9	ATOM	7060	O	ASN	28	250.253	160.728	-0.269	1.00	83.35	IS
ATOM	7008	CA	GLY	21	249.652	174.970	-12.906	1.00107.90		IS9	ATOM	7061	N	GLY	29	250.212	162.488	-0.129	1.00100.36	IS	
ATOM	7009	C	GLY	21	249.153	175.145	-14.019	1.00107.90		IS9	ATOM	7062	CA	GLY	29	251.619	162.761	-0.918	1.00100.36	IS	
ATOM	7010	O	GLY	21	249.153	175.145	-14.019	1.00107.90		IS9	ATOM	7063	C	GLY	29	252.469	162.273	-2.069	1.00100.36	IS	
ATOM	7011	N	ASN	22	250.683	174.155	-12.685	1.00136.29		IS9	ATOM	7064	O	GLY	29	253.390	162.966	-2.503	1.00100.36	IS	
ATOM	7012	CA	ASN	22	251.320	173.398	-13.760	1.00136.29		IS9	ATOM	7065	N	GLN	30	252.168	161.077	-2.567	1.00	77.74	IS
ATOM	7013	CB	ASN	22	252.637	172.785	-13.275	1.00108.99		IS9	ATOM	7066	CA	GLN	30	252.923	160.522	-3.682	1.00	77.74	IS
ATOM	7014	CG	ASN	22	253.310	171.920	-14.334	1.00108.99		IS9	ATOM	7067	CB	GLN	30	252.736	159.008	-3.751	1.00	98.65	IS

ATOM	7068	CG ¹ GLN	30	253.198	158.286	-2.505	1.00	98.65	IS9	ATOM	7121	O	TYR	35	249.714	153.828	-6.476	1.00	84.04	IS
ATOM	7069	AD ¹ GLN	30	253.150	156.782	-2.657	1.00	98.65	IS9	ATOM	7122	N	PHE	36	249.543	155.351	-8.136	1.00	85.27	IS
ATOM	7070	OE1 GLN	30	252.090	156.205	-2.893	1.00	98.65	IS9	ATOM	7123	CA	PHE	36	248.966	154.444	-9.126	1.00	85.27	IS
ATOM	7071	NE2 GLN	30	254.306	156.135	-2.526	1.00	98.65	IS9	ATOM	7124	CB	PHE	36	247.934	155.184	-9.982	1.00	92.37	IS
ATOM	7072	C GLN	30	252.450	161.167	-4.975	1.00	77.74	IS9	ATOM	7125	CG	PHE	36	246.785	155.754	-9.197	1.00	92.37	IS
ATOM	7073	O GLN	30	251.364	161.751	-5.028	1.00	77.74	IS9	ATOM	7126	CD1	PHE	36	246.105	156.879	-9.663	1.00	92.37	IS
ATOM	7074	N ASP	31	253.272	161.080	-6.014	1.00	66.77	IS9	ATOM	7127	CD2	PHE	36	246.373	155.165	-8.000	1.00	92.37	IS
ATOM	7075	CA ASP	31	252.900	161.665	-7.289	1.00	66.77	IS9	ATOM	7128	CE1	PHE	36	245.034	157.412	-8.951	1.00	92.37	IS
ATOM	7076	CB ASP	31	254.098	161.672	-8.240	1.00	110.33	IS9	ATOM	7129	CE2	PHE	36	245.302	155.689	-7.283	1.00	92.37	IS
ATOM	7077	CG ASP	31	253.902	162.615	-9.413	1.00	110.33	IS9	ATOM	7130	CZ	PHE	36	244.632	156.815	-7.758	1.00	92.37	IS
ATOM	7078	OD1 ASP	31	253.022	162.356	-10.264	1.00	110.33	IS9	ATOM	7131	C	PHE	36	250.075	153.923	-11.030	1.00	85.27	IS
ATOM	7079	OD2 ASP	31	254.629	163.627	-9.477	1.00	110.33	IS9	ATOM	7132	O	PHE	36	249.954	153.929	-11.256	1.00	85.27	IS
ATOM	7080	C ASP	31	251.763	160.834	-7.873	1.00	66.77	IS9	ATOM	7133	N	GLN	37	251.160	153.474	-9.416	1.00	115.33	IS
ATOM	7081	O ASP	31	251.608	159.661	-7.531	1.00	66.77	IS9	ATOM	7134	CA	GLN	37	252.297	152.963	-10.163	1.00	115.33	IS
ATOM	7082	N PHE	32	250.957	161.440	-8.740	1.00	104.74	IS9	ATOM	7135	CB	GLN	37	253.517	152.850	-9.242	1.00	98.89	IS
ATOM	7083	CA PHE	32	249.843	160.726	-9.353	1.00	104.74	IS9	ATOM	7136	CG	GLN	37	254.857	153.005	-9.941	1.00	98.89	IS
ATOM	7084	CB PHE	32	249.258	161.545	-10.502	1.00	91.01	IS9	ATOM	7137	CD	GLN	37	255.059	152.018	-11.076	1.00	98.89	IS
ATOM	7085	CG PHE	32	248.004	160.957	-11.091	1.00	91.01	IS9	ATOM	7138	OE1	GLN	37	254.346	152.046	-12.082	1.00	98.89	IS
ATOM	7086	CD1 PHE	32	246.875	160.760	-10.300	1.00	91.01	IS9	ATOM	7139	NE2	GLN	37	256.041	151.140	-10.920	1.00	98.89	IS
ATOM	7087	CD2 PHE	32	247.940	160.628	-12.441	1.00	91.01	IS9	ATOM	7140	C	GLN	37	251.976	151.599	-10.764	1.00	115.33	IS
ATOM	7088	CE1 PHE	32	245.702	160.250	-10.846	1.00	91.01	IS9	ATOM	7141	O	GLN	37	251.957	150.588	-10.061	1.00	115.33	IS
ATOM	7089	CE2 PHE	32	246.767	160.115	-12.995	1.00	91.01	IS9	ATOM	7142	N	GLY	38	251.722	151.577	-12.068	1.00	92.10	IS
ATOM	7090	CZ PHE	32	245.648	159.928	-12.196	1.00	91.01	IS9	ATOM	7143	CA	GLY	38	251.425	150.321	-12.728	1.00	92.10	IS
ATOM	7091	C PHE	32	250.324	159.381	-9.886	1.00	104.74	IS9	ATOM	7144	O	GLY	38	249.964	149.921	-12.681	1.00	92.10	IS
ATOM	7092	O PHE	32	249.697	158.347	-9.654	1.00	104.74	IS9	ATOM	7145	C	GLY	38	249.624	148.856	-12.172	1.00	92.10	IS
ATOM	7093	N ASP	33	251.453	159.415	-10.591	1.00	62.55	IS9	ATOM	7146	N	LEU	39	249.102	150.782	-13.212	1.00	56.46	IS
ATOM	7094	CA ASP	33	252.058	158.232	-11.193	1.00	62.55	IS9	ATOM	7147	CA	LEU	39	247.667	150.531	-13.264	1.00	56.46	IS
ATOM	7095	CB ASP	33	253.021	158.665	-12.289	1.00	91.79	IS9	ATOM	7148	CB	LEU	39	246.961	151.143	-12.052	1.00	47.39	IS
ATOM	7096	CG ASP	33	252.530	159.889	-13.038	1.00	91.79	IS9	ATOM	7149	CG	LEU	39	247.348	150.608	-10.668	1.00	47.39	IS
ATOM	7097	OD1 ASP	33	251.534	159.836	-13.763	1.00	91.79	IS9	ATOM	7150	CD1	LEU	39	246.448	151.241	-9.628	1.00	47.39	IS
ATOM	7098	ND2 ASP	33	253.222	161.009	-12.853	1.00	91.79	IS9	ATOM	7151	CD2	LEU	39	247.212	149.100	-10.615	1.00	47.39	IS
ATOM	7099	C ASP	33	252.805	157.402	-10.168	1.00	62.55	IS9	ATOM	7152	C	LEU	39	247.152	151.172	-14.542	1.00	56.46	IS
ATOM	7100	O ASP	33	253.295	156.331	-10.478	1.00	62.55	IS9	ATOM	7153	O	LEU	39	246.836	152.361	-14.567	1.00	56.46	IS
ATOM	7101	N GLU	34	252.888	157.892	-8.942	1.00	59.99	IS9	ATOM	7154	N	VAL	40	247.072	150.367	-15.597	1.00	74.13	IS
ATOM	7102	CA GLU	34	253.601	157.170	-7.904	1.00	59.99	IS9	ATOM	7155	CA	VAL	40	246.635	150.814	-16.918	1.00	74.13	IS
ATOM	7103	CB GLU	34	254.372	158.147	-7.015	1.00	134.46	IS9	ATOM	7156	CB	VAL	40	246.440	149.599	-17.857	1.00	113.13	IS
ATOM	7104	CG GLU	34	255.465	157.490	-6.189	1.00	134.46	IS9	ATOM	7157	CG1	VAL	40	246.516	150.039	-19.315	1.00	113.13	IS
ATOM	7105	CD GLU	34	256.406	156.650	-7.037	1.00	134.46	IS9	ATOM	7158	CG2	VAL	40	245.354	151.660	-16.964	1.00	113.13	IS
ATOM	7106	OE1 GLU	34	256.948	157.174	-8.032	1.00	134.46	IS9	ATOM	7159	C	VAL	40	244.980	152.176	-18.023	1.00	74.13	IS
ATOM	7107	OE2 GLU	34	256.605	155.463	-6.707	1.00	134.46	IS9	ATOM	7160	O	VAL	40	244.680	151.809	-15.830	1.00	79.30	IS
ATOM	7108	C GLU	34	252.663	156.321	-7.061	1.00	59.99	IS9	ATOM	7161	N	ARG	41	243.440	152.575	-15.798	1.00	79.30	IS
ATOM	7109	O GLU	34	253.033	155.221	-6.651	1.00	59.99	IS9	ATOM	7162	CA	ARG	41	242.390	151.809	-15.006	1.00	74.68	IS
ATOM	7110	N TYR	35	251.454	156.820	-6.799	1.00	84.04	IS9	ATOM	7163	CB	ARG	41	241.342	151.145	-15.874	1.00	74.68	IS
ATOM	7111	CA TYR	35	250.470	156.071	-6.009	1.00	84.04	IS9	ATOM	7164	CG	ARG	41	239.978	151.619	-15.452	1.00	74.68	IS
ATOM	7112	CB TYR	35	249.359	157.010	-5.499	1.00	85.44	IS9	ATOM	7165	CD	ARG	41	239.978	151.619	-15.452	1.00	74.68	IS
ATOM	7113	CG TYR	35	248.365	156.364	-4.535	1.00	85.44	IS9	ATOM	7166	CE	ARG	41	239.772	151.365	-14.033	1.00	74.68	IS
ATOM	7114	CD1 TYR	35	248.774	155.885	-3.283	1.00	85.44	IS9	ATOM	7167	NH2	ARG	41	238.867	151.987	-13.292	1.00	74.68	IS
ATOM	7115	CE1 TYR	35	247.863	155.279	-2.401	1.00	85.44	IS9	ATOM	7168	NH1	ARG	41	238.081	152.907	-13.831	1.00	74.68	IS
ATOM	7116	CD2 TYR	35	247.019	156.222	-4.878	1.00	85.44	IS9	ATOM	7169	CA	ARG	41	238.749	151.682	-12.010	1.00	74.68	IS
ATOM	7117	CE2 TYR	35	246.102	155.617	-4.007	1.00	85.44	IS9	ATOM	7170	C	ARG	41	243.565	153.980	-15.232	1.00	79.30	IS
ATOM	7118	CZ TYR	35	245.533	155.148	-2.774	1.00	85.44	IS9	ATOM	7171	O	ALA	42	242.827	154.880	-15.631	1.00	79.30	IS
ATOM	7119	OH TYR	35	245.640	154.543	-1.920	1.00	85.44	IS9	ATOM	7172	N	ALA	42	244.500	154.152	-14.302	1.00	67.61	IS
ATOM	7120	C TYR	35	249.867	154.976	-6.899	1.00	84.04	IS9	ATOM	7173	CA	ALA	42	244.747	155.429	-13.636	1.00	67.61	IS

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ATOM	7174	CB, ALA	42	246.172	155.455	-13.099	1.00117.56	IS9	ATOM	7227	CA	ARG	50	241.347	166.434	-20.721	1.0074.21	IS
ATOM	7175	ALA	42	244.505	156.640	-14.522	1.0067.61	IS9	ATOM	7228	CB	ARG	50	241.746	165.023	-21.161	1.00125.96	IS
ATOM	7176	ALA	42	243.886	157.618	-14.098	1.0067.61	IS9	ATOM	7229	CG	ARG	50	242.962	164.459	-20.469	1.00125.96	IS
ATOM	7177	N	VAL	245.002	156.566	-15.751	1.0072.30	IS9	ATOM	7230	CD	ARG	50	243.198	163.030	-20.904	1.00125.96	IS
ATOM	7178	CA	VAL	244.850	157.645	-16.720	1.0072.30	IS9	ATOM	7231	NE	ARG	50	244.469	162.517	-20.406	1.00125.96	IS
ATOM	7179	CB	VAL	245.270	157.183	-18.114	1.0093.93	IS9	ATOM	7232	CZ	ARG	50	244.970	161.325	-20.717	1.00125.96	IS
ATOM	7180	CG1	VAL	245.070	158.305	-19.113	1.0093.93	IS9	ATOM	7233	NH1	ARG	50	244.304	160.513	-21.529	1.00125.96	IS
ATOM	7181	CG2	VAL	246.719	156.736	-18.088	1.0093.93	IS9	ATOM	7234	NH2	ARG	50	246.146	160.949	-20.230	1.00125.96	IS
ATOM	7182	C	VAL	243.414	158.138	-16.805	1.0072.30	IS9	ATOM	7235	C	ARG	50	240.065	166.828	-21.447	1.0074.21	IS
ATOM	7183	VAL	43	243.158	159.254	-17.256	1.0072.30	IS9	ATOM	7236	C	ARG	50	240.082	167.247	-22.609	1.0074.21	IS
ATOM	7184	N	ALA	242.484	157.295	-16.372	1.0077.56	IS9	ATOM	7237	N	ALA	51	238.954	166.673	-20.740	1.0084.67	IS
ATOM	7185	CA	ALA	241.067	157.625	-16.398	1.0077.56	IS9	ATOM	7238	CB	ALA	51	236.598	166.454	-20.336	1.0084.67	IS
ATOM	7186	CB	ALA	240.250	156.400	-16.009	1.0087.77	IS9	ATOM	7239	CA	ALA	51	236.681	168.897	-22.319	1.0084.67	IS
ATOM	7187	C	ALA	240.713	158.802	-15.487	1.0077.56	IS9	ATOM	7240	C	ALA	51	237.456	168.474	-21.462	1.0084.67	IS
ATOM	7188	O	ALA	240.068	159.758	-15.922	1.0077.56	IS9	ATOM	7241	O	ALA	51	236.166	169.271	-20.670	1.00119.85	IS
ATOM	7189	N	ALA	241.139	158.725	-14.229	1.0077.59	IS9	ATOM	7242	N	VAL	52	238.166	170.722	-20.754	1.00119.85	IS
ATOM	7190	CA	ALA	240.867	159.767	-13.237	1.0077.59	IS9	ATOM	7243	CA	VAL	52	237.349	171.269	-19.489	1.0095.05	IS
ATOM	7191	CB	ALA	241.808	159.596	-12.051	1.0054.32	IS9	ATOM	7244	CB	VAL	52	236.738	172.631	-19.776	1.0095.05	IS
ATOM	7192	C	ALA	240.956	161.206	-13.754	1.0077.59	IS9	ATOM	7245	CG1	VAL	52	236.286	170.284	-19.019	1.0095.05	IS
ATOM	7193	O	ALA	240.129	162.051	-13.413	1.0077.59	IS9	ATOM	7246	CG2	VAL	52	239.469	172.638	-21.091	1.00119.85	IS
ATOM	7194	N	LEU	241.959	161.475	-14.578	1.0076.58	IS9	ATOM	7247	C	VAL	52	239.403	172.638	-21.091	1.00119.85	IS
ATOM	7195	CA	LEU	242.178	162.813	-15.116	1.0076.58	IS9	ATOM	7248	O	VAL	52	240.473	170.619	-20.912	1.00104.90	IS
ATOM	7196	CB	LEU	243.677	163.038	-15.322	1.0084.49	IS9	ATOM	7249	N	ASP	53	241.856	171.087	-21.072	1.00104.90	IS
ATOM	7197	CG	LEU	244.569	162.829	-14.097	1.0084.49	IS9	ATOM	7250	CB	ASP	53	241.932	172.232	-22.087	1.00121.22	IS
ATOM	7198	CD1	LEU	246.018	162.721	-14.532	1.0084.49	IS9	ATOM	7251	CG	ASP	53	241.541	171.797	-23.483	1.00121.22	IS
ATOM	7199	CD2	LEU	244.372	163.978	-13.124	1.0084.49	IS9	ATOM	7252	OD1	ASP	53	242.176	170.861	-24.019	1.00121.22	IS
ATOM	7200	C	LEU	241.450	163.117	-16.419	1.0076.58	IS9	ATOM	7253	OD2	ASP	53	240.599	172.392	-24.047	1.00121.22	IS
ATOM	7201	O	LEU	241.518	164.240	-16.914	1.0076.58	IS9	ATOM	7254	OD2	ASP	53	242.519	171.520	-19.769	1.00104.90	IS
ATOM	7202	N	GLU	240.758	162.138	-16.989	1.0094.11	IS9	ATOM	7255	C	ASP	53	242.714	172.707	-19.527	1.00104.90	IS
ATOM	7203	CA	GLU	239.380	161.141	-18.768	1.00133.34	IS9	ATOM	7256	O	ASP	54	242.877	170.547	-18.939	1.00105.10	IS
ATOM	7204	CB	GLU	238.597	161.402	-20.046	1.00133.34	IS9	ATOM	7257	N	ALA	54	243.519	170.832	-17.666	1.00105.10	IS
ATOM	7205	CG	GLU	238.768	160.311	-21.079	1.00133.34	IS9	ATOM	7258	CA	ALA	54	245.019	170.946	-17.835	1.00105.10	IS
ATOM	7206	CD	GLU	239.920	160.072	-21.502	1.00133.34	IS9	ATOM	7259	CB	ALA	54	245.528	170.858	-18.952	1.00105.10	IS
ATOM	7207	OE1	GLU	237.751	159.698	-21.473	1.00133.34	IS9	ATOM	7260	C	ALA	54	245.713	171.117	-16.709	1.00138.65	IS
ATOM	7208	OE2	GLU	239.033	163.535	-18.128	1.0094.11	IS9	ATOM	7261	O	ALA	55	247.168	171.280	-16.672	1.00138.65	IS
ATOM	7209	C	GLU	238.764	164.214	-19.119	1.0094.11	IS9	ATOM	7262	N	LEU	55	247.865	170.193	-17.503	1.00155.78	IS
ATOM	7210	O	GLU	238.436	163.755	-16.938	1.0086.54	IS9	ATOM	7263	CA	LEU	55	249.390	170.055	-17.373	1.00155.78	IS
ATOM	7211	N	PRO	238.575	163.130	-15.611	1.0068.81	IS9	ATOM	7264	CB	LEU	55	249.823	168.752	-18.021	1.00155.78	IS
ATOM	7212	CD	PRO	237.471	164.858	-16.887	1.0086.54	IS9	ATOM	7265	CG	LEU	55	250.106	171.237	-18.017	1.00155.78	IS
ATOM	7213	CA	PRO	236.948	164.796	-15.451	1.0068.81	IS9	ATOM	7266	CD1	LEU	55	247.471	172.667	-17.230	1.00138.65	IS
ATOM	7214	CB	PRO	238.106	164.233	-14.692	1.0068.81	IS9	ATOM	7267	CD2	LEU	55	248.091	173.497	-18.563	1.00138.65	IS
ATOM	7215	CG	PRO	238.192	166.167	-17.199	1.0086.54	IS9	ATOM	7268	C	LEU	55	247.025	172.909	-18.461	1.00132.64	IS
ATOM	7216	C	PRO	237.596	167.122	-17.700	1.0086.54	IS9	ATOM	7269	N	GLY	56	247.211	174.206	-19.078	1.00132.64	IS
ATOM	7217	O	PRO	239.489	166.189	-16.906	1.0075.72	IS9	ATOM	7270	O	GLY	56	246.178	175.076	-18.329	1.00132.64	IS
ATOM	7218	N	LEU	240.324	167.356	-17.164	1.0080.21	IS9	ATOM	7271	CA	GLY	56	245.057	174.866	-17.091	1.00139.28	IS
ATOM	7219	CA	LEU	241.686	167.191	-16.491	1.0080.21	IS9	ATOM	7272	C	GLY	56	245.114	175.586	-16.254	1.00131.18	IS
ATOM	7220	CB	LEU	243.069	166.832	-14.433	1.0080.21	IS9	ATOM	7273	O	GLY	57	243.682	175.285	-16.692	1.00131.18	IS
ATOM	7221	CG	LEU	241.312	168.636	-14.480	1.0080.21	IS9	ATOM	7274	N	ARG	57	242.984	176.619	-17.401	1.00131.18	IS
ATOM	7222	CD1	LEU	240.502	167.488	-18.666	1.0075.72	IS9	ATOM	7275	CA	ARG	57	242.988	177.679	-16.570	1.00131.18	IS
ATOM	7223	CD2	LEU	240.084	168.483	-19.259	1.0075.72	IS9	ATOM	7276	CB	ARG	57	242.062	178.658	-17.122	1.00131.18	IS
ATOM	7224	C	LEU	241.111	166.469	-19.274	1.0074.21	IS9	ATOM	7277	CD	ARG	57					IS
ATOM	7225	O	LEU					IS9	ATOM	7278	CD	ARG	57					IS
ATOM	7226	N	ARG					IS9	ATOM	7279	NE	ARG	57					IS

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ATOM	7280	CG	ARG	57	242.011	178.999	-18.407	1.00131.18	IS9	ATOM	7333	CG2	THR	63	242.888	162.513	1.853	1.00105.66	I
ATOM	7281	NH1	ARG	57	242.837	178.441	-19.283	1.00131.18	IS9	ATOM	7334	C	THR	63	242.488	161.784	-0.908	1.0099.82	I
ATOM	7282	NH2	ARG	57	241.125	179.896	-18.820	1.00131.18	IS9	ATOM	7335	O	THR	63	241.342	162.064	-1.265	1.0099.82	I
ATOM	7283	C	ARG	57	245.251	175.218	-14.779	1.00139.28	IS9	ATOM	7336	N	VAL	64	242.933	160.538	-0.802	1.0091.95	I
ATOM	7284	O	ARG	57	245.433	176.095	-13.931	1.00139.28	IS9	ATOM	7337	CA	VAL	64	242.077	159.405	-1.117	1.0091.95	I
ATOM	7285	N	PHE	58	245.171	173.923	-14.476	1.0090.30	IS9	ATOM	7338	CB	VAL	64	242.472	158.798	-2.482	1.0086.56	I
ATOM	7286	CA	PHE	58	245.233	173.478	-13.088	1.0090.30	IS9	ATOM	7339	CG1	VAL	64	243.816	158.086	-2.378	1.0086.56	I
ATOM	7287	CB	PHE	58	243.966	172.717	-12.716	1.0085.33	IS9	ATOM	7340	CG2	VAL	64	241.390	157.870	-2.963	1.0086.56	I
ATOM	7288	CG	PHE	58	242.724	173.509	-12.884	1.0085.33	IS9	ATOM	7341	C	VAL	64	242.150	158.341	-0.024	1.0091.95	I
ATOM	7289	CD1	PHE	58	242.164	173.681	-14.145	1.0085.33	IS9	ATOM	7342	O	VAL	64	243.232	157.901	0.364	1.0091.95	I
ATOM	7290	CD2	PHE	58	242.125	174.117	-11.788	1.0085.33	IS9	ATOM	7343	N	ARG	65	240.987	157.943	0.477	1.0078.40	I
ATOM	7291	CE1	PHE	58	241.023	174.450	-14.318	1.0085.33	IS9	ATOM	7344	CA	ARG	65	240.905	156.940	1.533	1.0078.40	I
ATOM	7292	CE2	PHE	58	240.983	174.890	-11.946	1.0085.33	IS9	ATOM	7345	CB	ARG	65	240.814	157.627	2.893	1.00112.97	I
ATOM	7293	CZ	PHE	58	240.430	175.058	-13.217	1.0085.33	IS9	ATOM	7346	CG	ARG	65	239.843	157.354	5.173	1.00112.97	I
ATOM	7294	C	PHE	58	246.395	172.637	-12.631	1.0090.30	IS9	ATOM	7347	CD	ARG	65	240.620	156.675	4.057	1.00112.97	I
ATOM	7295	O	PHE	58	247.328	172.341	-13.368	1.0090.30	IS9	ATOM	7348	NE	ARG	65	241.608	158.670	5.605	1.00112.97	I
ATOM	7296	N	ASP	59	246.278	172.256	-11.645	1.0063.83	IS9	ATOM	7349	CG	ARG	65	241.600	158.670	6.296	1.00112.97	I
ATOM	7297	CA	ASP	59	247.224	171.429	-10.645	1.0063.83	IS9	ATOM	7350	NH1	ARG	65	242.241	157.561	6.643	1.00112.97	I
ATOM	7298	CB	ASP	59	248.197	172.321	-9.872	1.00137.12	IS9	ATOM	7351	NH2	ARG	65	242.097	159.851	6.633	1.00112.97	I
ATOM	7299	CG	ASP	59	249.387	171.561	-9.335	1.00137.12	IS9	ATOM	7352	C	ARG	65	239.685	156.840	1.349	1.0078.40	I
ATOM	7300	OD1	ASP	59	249.187	170.621	-8.538	1.00137.12	IS9	ATOM	7353	C	ARG	65	239.585	156.520	1.056	1.0078.40	I
ATOM	7301	OD2	ASP	59	250.526	171.909	-9.711	1.00137.12	IS9	ATOM	7354	N	GLY	66	239.882	154.734	1.512	1.0087.78	I
ATOM	7302	C	ASP	59	246.242	170.744	-9.697	1.0063.83	IS9	ATOM	7355	CA	GLY	66	238.773	153.804	1.385	1.0087.78	I
ATOM	7303	O	ASP	59	245.102	171.202	-9.578	1.0063.83	IS9	ATOM	7356	C	GLY	66	238.650	153.062	0.070	1.0087.78	I
ATOM	7304	N	ALA	60	246.638	169.666	-8.135	1.0075.54	IS9	ATOM	7357	O	GLY	66	238.761	153.645	-1.011	1.0087.78	I
ATOM	7305	CA	ALA	60	245.684	169.006	-8.135	1.0075.54	IS9	ATOM	7358	N	GLY	67	238.417	151.757	0.178	1.0086.36	I
ATOM	7306	CB	ALA	60	244.811	168.043	-8.941	1.0092.68	IS9	ATOM	7359	CA	GLY	67	238.255	150.916	-0.996	1.0086.36	I
ATOM	7307	C	ALA	60	246.239	168.284	-6.916	1.0075.54	IS9	ATOM	7360	C	GLY	67	239.498	150.276	-1.591	1.0086.36	I
ATOM	7308	O	ALA	60	247.113	167.416	-7.022	1.0075.54	IS9	ATOM	7361	N	GLY	67	240.275	149.595	-2.910	1.0086.36	I
ATOM	7309	N	TYR	61	245.716	168.660	-5.753	1.0077.52	IS9	ATOM	7362	O	GLY	68	239.658	150.482	-2.893	1.0057.16	I
ATOM	7310	CA	TYR	61	246.106	168.038	-4.502	1.0077.52	IS9	ATOM	7363	CA	GLY	68	240.792	149.939	-3.617	1.0057.16	I
ATOM	7311	CB	TYR	61	246.249	169.065	-3.387	1.0074.72	IS9	ATOM	7364	C	GLY	68	241.212	150.935	-4.683	1.0057.16	I
ATOM	7312	CG	TYR	61	246.724	168.444	-2.099	1.0074.72	IS9	ATOM	7365	O	GLY	68	240.386	151.693	-5.204	1.0057.16	I
ATOM	7313	CD1	TYR	61	247.965	167.817	-2.031	1.0074.72	IS9	ATOM	7366	N	LVS	69	242.494	150.929	-5.024	1.0066.25	I
ATOM	7314	CE1	TYR	61	248.394	167.192	-0.858	1.0074.72	IS9	ATOM	7367	CA	LVS	69	243.015	151.866	-6.005	1.0066.25	I
ATOM	7315	CE2	TYR	61	245.916	168.439	-0.960	1.0074.72	IS9	ATOM	7368	CB	LVS	69	244.471	151.518	-6.335	1.0080.79	I
ATOM	7316	CE2	TYR	61	246.334	167.817	0.217	1.0074.72	IS9	ATOM	7369	CG	LVS	69	245.353	151.501	-5.084	1.0080.79	I
ATOM	7317	CZ	TYR	61	247.573	167.195	0.259	1.0074.72	IS9	ATOM	7370	CD	LVS	69	246.818	151.751	-5.383	1.0080.79	I
ATOM	7318	OH	TYR	61	248.000	166.564	1.402	1.0074.72	IS9	ATOM	7371	CE	LVS	69	247.625	151.739	-4.091	1.0080.79	I
ATOM	7319	C	TYR	61	244.947	167.118	-4.192	1.0077.52	IS9	ATOM	7372	NZ	LVS	69	249.069	152.097	-4.264	1.0080.79	I
ATOM	7320	O	TYR	61	243.797	167.559	-4.156	1.0077.52	IS9	ATOM	7373	C	LVS	69	242.178	151.997	-7.268	1.0066.25	I
ATOM	7321	N	ILE	62	245.244	165.844	-3.965	1.0076.76	IS9	ATOM	7374	O	LVS	69	242.298	151.980	-7.987	1.0066.25	I
ATOM	7322	CA	ILE	62	244.191	164.877	-3.711	1.0076.76	IS9	ATOM	7375	N	SER	70	241.319	151.023	-7.532	1.0065.17	I
ATOM	7323	CB	ILE	62	243.923	164.048	-4.986	1.0071.44	IS9	ATOM	7376	CA	SER	70	240.461	151.094	-8.708	1.0065.17	I
ATOM	7324	CG2	ILE	62	242.901	162.972	-4.689	1.0071.44	IS9	ATOM	7377	CB	SER	70	239.918	149.715	-9.069	1.0086.04	I
ATOM	7325	CG1	ILE	62	243.457	164.974	-6.122	1.0071.44	IS9	ATOM	7378	CG	SER	70	238.826	149.834	-9.956	1.0086.04	I
ATOM	7326	CD1	ILE	62	243.270	164.299	-7.469	1.0071.44	IS9	ATOM	7379	O	SER	70	239.301	152.032	-8.413	1.0065.17	I
ATOM	7327	C	ILE	62	244.434	163.917	-2.557	1.0076.76	IS9	ATOM	7380	O	SER	71	239.031	152.966	-9.169	1.0073.85	I
ATOM	7328	O	ILE	62	245.498	163.312	-2.442	1.0076.76	IS9	ATOM	7381	N	GLY	71	238.617	151.777	-7.304	1.0073.85	I
ATOM	7329	N	THR	63	243.425	163.791	-1.703	1.0099.82	IS9	ATOM	7382	CA	GLY	71	237.497	152.619	-6.925	1.0073.85	I
ATOM	7330	CA	THR	63	243.471	162.880	-0.567	1.0099.82	IS9	ATOM	7383	C	GLY	71	237.947	154.037	-6.654	1.0073.85	I
ATOM	7331	CB	THR	63	243.002	163.544	0.735	1.00105.66	IS9	ATOM	7384	O	GLY	71	237.208	155.001	-6.891	1.0073.85	I
ATOM	7332	OG1	THR	63	243.939	164.555	1.116	1.00105.66	IS9	ATOM	7385	N	GLN	72	239.169	154.167	-6.146	1.0062.41	I

ATOM	7386	CA	GLN	72	239.719	155.469	-5.852	1.00	62.41	IS9	ATOM	7439	O	LEU	78	234.336	164.734	-9.672	1.00	76.35	IS9
ATOM	7387	CB	GLN	72	241.032	155.330	-5.091	1.00	57.71	IS9	ATOM	7440	N	GLY	79	235.787	163.633	-8.339	1.00	82.90	IS9
ATOM	7388	CG	GLN	72	240.866	154.520	-3.820	1.00	57.71	IS9	ATOM	7441	CA	GLY	79	236.197	164.854	-7.669	1.00	82.90	IS9
ATOM	7389	CD	GLN	72	242.124	154.467	-2.963	1.00	57.71	IS9	ATOM	7442	C	GLY	79	236.652	165.872	-8.700	1.00	82.90	IS9
ATOM	7390	OE1	GLN	72	243.249	154.518	-3.473	1.00	57.71	IS9	ATOM	7443	O	GLY	79	236.067	166.951	-8.830	1.00	82.90	IS9
ATOM	7391	NE2	GLN	72	241.936	154.343	-1.647	1.00	57.71	IS9	ATOM	7444	N	ILE	80	237.636	165.506	-9.442	1.00	62.07	IS9
ATOM	7392	C	GLN	72	239.919	156.190	-7.168	1.00	62.41	IS9	ATOM	7445	CA	ILE	80	238.268	166.335	-10.494	1.00	62.07	IS9
ATOM	7393	O	GLN	72	239.651	157.383	-7.253	1.00	62.41	IS9	ATOM	7446	CB	ILE	80	239.315	165.527	-11.295	1.00	63.89	IS9
ATOM	7394	N	ILE	73	240.355	155.476	-8.205	1.00	64.85	IS9	ATOM	7447	CG2	ILE	80	239.765	166.300	-12.523	1.00	63.89	IS9
ATOM	7395	CA	ILE	73	240.552	156.124	-9.500	1.00	64.85	IS9	ATOM	7448	CG1	ILE	80	240.497	165.183	-10.379	1.00	63.89	IS9
ATOM	7396	CG2	ILE	73	241.105	155.174	-10.593	1.00	52.08	IS9	ATOM	7449	CD1	ILE	80	241.604	164.385	-11.048	1.00	63.89	IS9
ATOM	7397	CG2	ILE	73	241.388	155.969	-11.879	1.00	52.08	IS9	ATOM	7450	C	ILE	80	237.194	166.849	-11.449	1.00	62.07	IS9
ATOM	7398	CD1	ILE	73	242.412	154.534	-10.135	1.00	52.08	IS9	ATOM	7451	O	ILE	80	237.370	167.879	-12.104	1.00	62.07	IS9
ATOM	7399	CG1	ILE	73	243.007	153.577	-11.146	1.00	52.08	IS9	ATOM	7452	N	ALA	81	236.079	166.129	-11.523	1.00	90.31	IS9
ATOM	7400	C	ILE	73	239.239	156.688	-10.023	1.00	64.85	IS9	ATOM	7453	CA	ALA	81	234.977	166.509	-12.399	1.00	90.31	IS9
ATOM	7401	O	ILE	73	239.249	157.637	-10.805	1.00	64.85	IS9	ATOM	7454	CB	ALA	81	234.205	165.265	-12.828	1.00	90.31	IS9
ATOM	7402	N	ASP	74	238.112	156.108	-9.611	1.00	66.62	IS9	ATOM	7455	C	ALA	81	234.042	167.505	-11.719	1.00	90.31	IS9
ATOM	7403	CA	ASP	74	236.811	156.604	-10.066	1.00	66.62	IS9	ATOM	7456	O	ALA	81	233.436	168.393	-12.373	1.00	90.31	IS9
ATOM	7404	CB	ASP	74	235.797	155.465	-10.152	1.00	66.62	IS9	ATOM	7457	N	ARG	82	232.997	168.241	-9.635	1.00	80.99	IS9
ATOM	7405	CG	ASP	74	236.047	154.558	-11.337	1.00	66.62	IS9	ATOM	7458	CA	ARG	82	232.997	168.241	-9.635	1.00	80.99	IS9
ATOM	7406	OD1	ASP	74	236.181	155.082	-12.464	1.00	66.62	IS9	ATOM	7459	CB	ARG	82	232.711	167.657	-8.253	1.00	78.75	IS9
ATOM	7407	OD2	ASP	74	236.104	153.326	-11.148	1.00	66.62	IS9	ATOM	7460	CG	ARG	82	231.568	166.657	-8.201	1.00	78.75	IS9
ATOM	7408	C	ASP	74	236.272	157.720	-9.170	1.00	66.62	IS9	ATOM	7461	CD	ARG	82	231.459	166.040	-6.804	1.00	78.75	IS9
ATOM	7409	O	ASP	74	235.555	158.612	-9.633	1.00	66.62	IS9	ATOM	7462	NE	ARG	82	230.188	165.349	-6.586	1.00	78.75	IS9
ATOM	7410	N	ALA	75	236.622	157.665	-7.889	1.00	78.45	IS9	ATOM	7463	CZ	ARG	82	229.837	164.781	-5.436	1.00	78.75	IS9
ATOM	7411	CA	ALA	75	236.201	158.681	-6.932	1.00	78.45	IS9	ATOM	7464	NH1	ARG	82	230.669	164.822	-4.402	1.00	78.75	IS9
ATOM	7412	CB	ALA	75	236.577	158.242	-5.524	1.00	78.45	IS9	ATOM	7465	NH2	ARG	82	228.652	164.190	-5.314	1.00	78.75	IS9
ATOM	7413	C	ALA	75	236.945	159.959	-7.305	1.00	78.45	IS9	ATOM	7466	C	ARG	82	233.685	169.586	-9.468	1.00	80.99	IS9
ATOM	7414	O	ALA	75	236.358	161.042	-7.431	1.00	78.45	IS9	ATOM	7467	O	ARG	82	233.122	170.629	-9.804	1.00	80.99	IS9
ATOM	7415	N	ILE	76	238.253	159.801	-7.481	1.00	59.58	IS9	ATOM	7468	N	ALA	83	234.905	169.558	-8.940	1.00	79.75	IS9
ATOM	7416	CA	ILE	76	239.141	160.883	-7.864	1.00	59.58	IS9	ATOM	7469	CA	ALA	83	235.667	170.779	-8.743	1.00	79.75	IS9
ATOM	7417	CB	ILE	76	240.600	160.363	-7.941	1.00	54.45	IS9	ATOM	7470	CB	ALA	83	237.077	170.455	-8.306	1.00	56.55	IS9
ATOM	7418	CG2	ILE	76	241.432	161.228	-8.870	1.00	54.45	IS9	ATOM	7471	C	ALA	83	235.698	171.580	-10.032	1.00	79.75	IS9
ATOM	7419	CG1	ILE	76	241.179	160.282	-6.522	1.00	54.45	IS9	ATOM	7472	O	ALA	83	235.386	172.767	-10.037	1.00	79.75	IS9
ATOM	7420	CD1	ILE	76	242.565	159.674	-6.431	1.00	54.45	IS9	ATOM	7473	N	LEU	84	236.066	170.926	-11.127	1.00	72.84	IS9
ATOM	7421	C	ILE	76	238.693	161.449	-9.211	1.00	59.58	IS9	ATOM	7474	CA	LEU	84	236.139	171.584	-12.428	1.00	72.84	IS9
ATOM	7422	O	ILE	76	238.735	162.657	-9.434	1.00	59.58	IS9	ATOM	7475	CB	LEU	84	236.406	170.539	-13.518	1.00	101.11	IS9
ATOM	7423	N	LVS	77	238.250	160.573	-10.105	1.00	65.00	IS9	ATOM	7476	CG	LEU	84	237.441	170.899	-14.584	1.00	101.11	IS9
ATOM	7424	CA	LVS	77	237.785	161.005	-11.415	1.00	65.00	IS9	ATOM	7477	CD1	LEU	84	238.788	171.075	-13.915	1.00	101.11	IS9
ATOM	7425	CB	LVS	77	237.456	159.789	-12.280	1.00	82.82	IS9	ATOM	7478	CD2	LEU	84	237.523	169.807	-15.634	1.00	101.11	IS9
ATOM	7426	CG	LVS	77	237.196	160.105	-13.745	1.00	82.82	IS9	ATOM	7479	C	LEU	84	234.856	172.367	-12.760	1.00	72.84	IS9
ATOM	7427	CE	LVS	77	235.771	159.746	-14.167	1.00	82.82	IS9	ATOM	7480	O	LEU	84	234.811	173.102	-13.755	1.00	72.84	IS9
ATOM	7428	CE	LVS	77	235.418	158.285	-13.863	1.00	82.82	IS9	ATOM	7481	N	VAL	85	233.823	172.202	-11.930	1.00	106.07	IS9
ATOM	7429	N2	LVS	77	236.302	157.281	-14.535	1.00	82.82	IS9	ATOM	7482	CA	VAL	85	232.539	172.885	-12.120	1.00	106.07	IS9
ATOM	7430	C	LVS	77	236.543	161.883	-11.252	1.00	65.00	IS9	ATOM	7483	CB	VAL	85	231.348	171.944	-11.815	1.00	63.22	IS9
ATOM	7431	O	LVS	77	236.325	162.811	-12.038	1.00	65.00	IS9	ATOM	7484	CG1	VAL	85	230.038	172.696	-11.965	1.00	63.22	IS9
ATOM	7432	N	LEU	78	235.738	161.595	-10.228	1.00	76.35	IS9	ATOM	7485	CG2	VAL	85	232.414	174.139	-11.248	1.00	106.07	IS9
ATOM	7433	CA	LEU	78	234.522	162.367	-9.974	1.00	76.35	IS9	ATOM	7486	C	VAL	85	233.169	170.766	-12.763	1.00	63.22	IS9
ATOM	7434	CB	LEU	78	233.559	161.610	-9.051	1.00	52.76	IS9	ATOM	7487	O	VAL	85	231.736	175.101	-11.624	1.00	114.56	IS9
ATOM	7435	CG1	LEU	78	232.034	161.854	-9.154	1.00	52.76	IS9	ATOM	7488	N	GLN	86	233.054	174.117	-10.080	1.00	114.56	IS9
ATOM	7436	CD1	LEU	78	231.457	161.833	-7.957	1.00	52.76	IS9	ATOM	7489	CA	GLN	86	233.035	175.267	-9.181	1.00	114.56	IS9
ATOM	7437	CG2	LEU	78	231.698	163.172	-9.848	1.00	52.76	IS9	ATOM	7490	CB	GLN	86	233.609	174.909	-7.814	1.00	104.72	IS9
ATOM	7438	C	LEU	78	234.883	163.687	-9.315	1.00	76.35	IS9	ATOM	7491	CG	GLN	86	232.692	174.084	-6.946	1.00	104.72	IS9

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ATOM	7492	CD	GLN	86	233.180	174.023	-5.513	1.00104.72	IS9	ATOM	7545	CA	ARG	92	227.537	171.393	-19.742	1.00	67.36	IS9	
ATOM	7493	OE1	GLN	86	234.319	173.635	-5.251	1.00104.72	IS9	ATOM	7546	CB	ARG	92	227.152	172.738	-20.356	1.00166.71	IS9		
ATOM	7494	MEZ	GLN	86	232.321	174.409	-4.574	1.00104.72	IS9	ATOM	7547	CG	ARG	92	226.502	173.706	-19.394	1.00166.71	IS9		
ATOM	7495	C	GLN	86	233.893	176.351	-9.806	1.00114.56	IS9	ATOM	7548	CD	ARG	92	226.473	175.098	-19.991	1.00166.71	IS9		
ATOM	7496	O	GLN	86	233.606	177.539	-9.689	1.00114.56	IS9	ATOM	7549	NE	ARG	92	225.768	176.042	-19.133	1.00166.71	IS9		
ATOM	7497	N	TYR	87	234.963	175.926	-10.461	1.00100.55	IS9	ATOM	7550	CZ	ARG	92	225.710	177.349	-19.358	1.00166.71	IS9		
ATOM	7498	CA	TYR	87	235.849	176.857	-11.126	1.00100.55	IS9	ATOM	7551	NH1	ARG	92	226.320	177.866	-20.417	1.00166.71	IS9		
ATOM	7499	CB	TYR	87	237.012	176.118	-11.772	1.00112.52	IS9	ATOM	7552	NH2	ARG	92	225.038	178.139	-18.530	1.00166.71	IS9		
ATOM	7500	CG	TYR	87	237.902	177.024	-12.578	1.00112.52	IS9	ATOM	7553	C	ARG	92	228.327	170.587	-20.766	1.00	67.36	IS9	
ATOM	7501	CD1	TYR	87	238.800	177.881	-11.953	1.00112.52	IS9	ATOM	7554	O	ARG	92	227.872	170.388	-21.890	1.00	67.36	IS9	
ATOM	7502	OE1	TYR	87	239.605	178.736	-12.684	1.00112.52	IS9	ATOM	7555	N	ALA	93	229.523	170.155	-20.363	1.00107.24	IS9		
ATOM	7503	CD2	TYR	87	237.827	177.044	-13.967	1.00112.52	IS9	ATOM	7556	CA	ALA	93	230.429	169.368	-21.199	1.00107.24	IS9		
ATOM	7504	CE2	TYR	87	238.626	177.897	-14.714	1.00112.52	IS9	ATOM	7557	CB	ALA	93	231.720	170.147	-21.447	1.00	65.81	IS9	
ATOM	7505	CZ	TYR	87	239.515	178.741	-14.066	1.00112.52	IS9	ATOM	7558	C	ALA	93	230.746	168.052	-20.497	1.00107.24	IS9		
ATOM	7506	OH	TYR	87	240.318	179.585	-14.802	1.00112.52	IS9	ATOM	7559	O	ALA	93	231.127	167.070	-21.133	1.00107.24	IS9		
ATOM	7507	C	TYR	87	235.056	177.570	-12.199	1.00100.55	IS9	ATOM	7560	N	LYS	94	230.586	168.048	-19.179	1.00106.02	IS9		
ATOM	7508	O	TYR	87	235.321	178.721	-12.518	1.00100.55	IS9	ATOM	7561	CA	LYS	94	230.841	166.867	-18.366	1.00106.02	IS9		
ATOM	7509	N	ASN	88	234.080	176.868	-12.755	1.00	86.85	IS9	ATOM	7562	CB	LYS	94	231.194	167.291	-16.944	1.00127.50	IS9	
ATOM	7510	CA	ASN	88	233.233	177.422	-13.797	1.00	86.85	IS9	ATOM	7563	CG	LYS	94	232.169	168.442	-16.899	1.00127.50	IS9	
ATOM	7511	CB	ASN	88	234.076	177.851	-15.005	1.00	85.08	IS9	ATOM	7564	CD	LYS	94	233.468	168.067	-17.569	1.00127.50	IS9	
ATOM	7512	CG	ASN	88	233.246	178.020	-16.280	1.00	85.08	IS9	ATOM	7565	CE	LYS	94	234.574	167.948	-16.541	1.00127.50	IS9	
ATOM	7513	OD1	ASN	88	232.106	178.492	-16.245	1.00	85.08	IS9	ATOM	7566	NZ	LYS	94	234.172	167.088	-15.391	1.00127.50	IS9	
ATOM	7514	CD1	ASN	88	233.828	177.645	-17.415	1.00	85.08	IS9	ATOM	7567	C	LYS	94	229.605	165.971	-18.349	1.00106.02	IS9	
ATOM	7515	C	ASN	88	232.214	176.387	-14.228	1.00	86.85	IS9	ATOM	7568	O	LYS	94	229.546	164.976	-19.069	1.00106.02	IS9	
ATOM	7516	O	ASN	88	232.551	175.220	-14.434	1.00	86.85	IS9	ATOM	7569	N	LEU	95	228.616	166.330	-17.532	1.00144.41	IS9	
ATOM	7517	N	PRO	89	230.942	176.790	-14.342	1.00	95.80	IS9	ATOM	7570	CA	LEU	95	227.384	165.551	-17.431	1.00144.41	IS9	
ATOM	7518	CD	PRO	89	230.305	177.968	-13.726	1.00	95.14	IS9	ATOM	7571	CB	LEU	95	226.333	166.301	-16.602	1.00153.31	IS9	
ATOM	7519	CA	PRO	89	229.936	175.816	-14.764	1.00	95.80	IS9	ATOM	7572	CG	LEU	95	224.969	165.645	-16.317	1.00153.31	IS9	
ATOM	7520	CB	PRO	89	228.624	176.530	-14.467	1.00	59.14	IS9	ATOM	7573	CD1	LEU	95	224.046	165.765	-17.524	1.00153.31	IS9	
ATOM	7521	C	PRO	89	228.979	177.411	-13.295	1.00	59.14	IS9	ATOM	7574	CD2	LEU	95	225.177	164.189	-15.914	1.00153.31	IS9	
ATOM	7522	CG	PRO	89	230.084	175.439	-16.245	1.00	95.80	IS9	ATOM	7575	C	LEU	95	226.833	165.253	-18.817	1.00144.41	IS9	
ATOM	7523	O	PRO	89	229.305	175.871	-17.099	1.00	95.80	IS9	ATOM	7576	O	LEU	95	226.067	164.308	-18.995	1.00144.41	IS9	
ATOM	7524	N	ASP	90	231.116	174.657	-16.546	1.00150.32	IS9	ATOM	7577	N	LYS	96	227.222	166.063	-19.798	1.00	71.30	IS9	
ATOM	7525	CA	ASP	90	231.337	174.184	-17.906	1.00150.32	IS9	ATOM	7578	CA	LYS	96	226.781	165.857	-21.174	1.00	71.30	IS9	
ATOM	7526	CB	ASP	90	232.801	174.392	-18.361	1.00	99.71	IS9	ATOM	7579	CB	LYS	96	227.389	166.935	-22.075	1.00101.14	IS9	
ATOM	7527	CG	ASP	90	233.837	173.971	-17.314	1.00	99.71	IS9	ATOM	7580	CG	LYS	96	226.464	168.122	-22.347	1.00101.14	IS9	
ATOM	7528	OD1	ASP	90	233.463	173.376	-16.278	1.00	99.71	IS9	ATOM	7581	CD	LYS	96	225.524	167.871	-23.524	1.00101.14	IS9	
ATOM	7529	OD2	ASP	90	235.041	174.238	-17.544	1.00	99.71	IS9	ATOM	7582	CE	LYS	96	224.778	169.138	-23.917	1.00101.14	IS9	
ATOM	7530	C	ASP	90	230.968	172.707	-17.912	1.00150.32	IS9	ATOM	7583	NZ	LYS	96	224.044	168.969	-25.198	1.00101.14	IS9		
ATOM	7531	O	ASP	90	231.335	171.956	-18.818	1.00150.32	IS9	ATOM	7584	C	LYS	96	227.244	164.458	-21.584	1.00	71.30	IS9	
ATOM	7532	N	TYR	91	230.223	172.309	-16.881	1.00101.57	IS9	ATOM	7585	O	LYS	96	227.814	163.744	-20.762	1.00	71.30	IS9	
ATOM	7533	CA	TYR	91	229.776	170.934	-16.727	1.00101.57	IS9	ATOM	7586	N	PRO	97	227.005	164.043	-22.846	1.00201.09	IS9		
ATOM	7534	CB	TYR	91	229.089	170.730	-15.367	1.00140.05	IS9	ATOM	7587	CD	PRO	97	226.602	164.872	-24.002	1.00156.48	IS9		
ATOM	7535	CG	TYR	91	227.688	171.302	-15.221	1.00140.05	IS9	ATOM	7588	CA	PRO	97	227.414	162.713	-23.309	1.00201.09	IS9		
ATOM	7536	CD1	TYR	91	226.682	171.001	-16.144	1.00140.05	IS9	ATOM	7589	CB	PRO	97	227.949	163.008	-24.701	1.00156.48	IS9		
ATOM	7537	CE1	TYR	91	225.390	171.472	-15.984	1.00140.05	IS9	ATOM	7590	CG	PRO	97	226.909	163.972	-25.208	1.00156.48	IS9		
ATOM	7538	CD2	TYR	91	227.354	172.097	-14.125	1.00140.05	IS9	ATOM	7591	C	PRO	97	228.398	161.924	-22.434	1.00201.09	IS9		
ATOM	7539	CE2	TYR	91	226.058	172.572	-13.953	1.00140.05	IS9	ATOM	7592	O	PRO	97	228.281	160.704	-22.316	1.00201.09	IS9		
ATOM	7540	CZ	TYR	91	225.083	172.255	-14.887	1.00140.05	IS9	ATOM	7593	N	LEU	98	229.358	162.613	-21.824	1.00	80.51	IS9	
ATOM	7541	OH	TYR	91	223.800	172.721	-14.732	1.00140.05	IS9	ATOM	7594	CA	LEU	98	230.342	161.962	-20.957	1.00	80.51	IS9	
ATOM	7542	C	TYR	91	228.827	170.578	-17.835	1.00101.57	IS9	ATOM	7595	CB	LEU	98	231.499	162.919	-20.658	1.00	85.03	IS9	
ATOM	7543	O	TYR	91	228.451	169.420	-18.030	1.00101.57	IS9	ATOM	7596	CG	LEU	98	232.435	163.315	-21.801	1.00	85.03	IS9	
ATOM	7544	N	ARG	92	228.420	171.593	-18.604	1.00	67.36	IS9	ATOM	7597	CD1	LEU	98	233.075	162.056	-22.375	1.00	85.03	IS9

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ATOM	7598	CD2	LEU	98	231.665	164.087	-22.870	1.00	85.03	IS9	ATOM	7651	CA	ALA	105	225.980	153.542	-7.477	1.00	58.20	IS9
ATOM	7599	C	LEU	98	229.124	161.495	-19.640	1.00	80.51	IS9	ATOM	7652	CB	ALA	105	224.510	153.920	-7.391	1.00	54.61	IS9
ATOM	7600	O	LEU	98	229.805	160.321	-19.285	1.00	80.51	IS9	ATOM	7653	C	ALA	105	226.149	152.022	-7.295	1.00	58.20	IS9
ATOM	7601	N	GLY	99	229.127	162.431	-18.912	1.00	79.51	IS9	ATOM	7654	O	ALA	105	225.574	151.425	-6.377	1.00	58.20	IS9
ATOM	7602	CA	GLY	99	228.493	162.106	-17.648	1.00	79.51	IS9	ATOM	7655	N	ARG	106	226.951	151.408	-8.160	1.00	53.07	IS9
ATOM	7603	O	GLY	99	229.424	161.725	-16.516	1.00	79.51	IS9	ATOM	7656	CA	ARG	106	227.199	149.978	-8.097	1.00	53.07	IS9
ATOM	7604	O	GLY	99	229.206	160.711	-15.863	1.00	79.51	IS9	ATOM	7657	CB	ARG	106	227.851	149.528	-9.403	1.00	66.94	IS9
ATOM	7605	N	PHE	100	230.460	162.525	-16.278	1.00	98.47	IS9	ATOM	7658	CG	ARG	106	227.028	149.964	-10.607	1.00	66.94	IS9
ATOM	7606	CA	PHE	100	231.389	162.245	-15.184	1.00	98.47	IS9	ATOM	7659	CD	ARG	106	227.487	149.352	-11.905	1.00	66.94	IS9
ATOM	7607	CB	PHE	100	232.731	162.957	-15.387	1.00	100.25	IS9	ATOM	7660	NE	ARG	106	228.821	149.790	-12.292	1.00	66.94	IS9
ATOM	7608	PHE	PHE	100	233.350	162.497	-16.588	1.00	100.25	IS9	ATOM	7661	CZ	ARG	106	229.836	148.961	-12.499	1.00	66.94	IS9
ATOM	7609	CD1	PHE	100	233.350	163.129	-17.816	1.00	100.25	IS9	ATOM	7662	NH1	ARG	106	229.656	147.655	-12.350	1.00	66.94	IS9
ATOM	7610	CD2	PHE	100	234.420	161.460	-16.478	1.00	100.25	IS9	ATOM	7663	NH2	ARG	106	231.022	149.434	-12.858	1.00	66.94	IS9
ATOM	7611	CE1	PHE	100	234.105	162.737	-18.917	1.00	100.25	IS9	ATOM	7664	C	ARG	106	228.070	149.658	-6.892	1.00	53.07	IS9
ATOM	7612	CE2	PHE	100	235.178	161.059	-17.573	1.00	100.25	IS9	ATOM	7665	O	ARG	106	229.180	150.162	-6.767	1.00	53.07	IS9
ATOM	7613	CZ	PHE	100	235.020	161.702	-18.798	1.00	100.25	IS9	ATOM	7666	N	VAL	107	227.546	148.818	-6.004	1.00	45.54	IS9
ATOM	7614	C	PHE	100	230.781	162.745	-13.877	1.00	98.47	IS9	ATOM	7667	CA	VAL	107	228.222	148.426	-4.765	1.00	45.54	IS9
ATOM	7615	O	PHE	100	231.281	162.445	-12.789	1.00	98.47	IS9	ATOM	7668	CB	VAL	107	227.543	149.116	-3.549	1.00	48.52	IS9
ATOM	7616	N	LEU	101	229.707	163.522	-14.001	1.00	105.79	IS9	ATOM	7669	CG1	VAL	107	228.384	148.952	-2.289	1.00	48.52	IS9
ATOM	7617	CA	LEU	101	229.023	164.089	-12.844	1.00	105.79	IS9	ATOM	7670	CG2	VAL	107	227.314	150.572	-3.855	1.00	48.52	IS9
ATOM	7618	CB	LEU	101	228.415	165.444	-13.201	1.00	87.47	IS9	ATOM	7671	C	VAL	107	228.129	146.912	-4.555	1.00	45.54	IS9
ATOM	7619	CG	LEU	101	229.396	166.553	-13.591	1.00	87.47	IS9	ATOM	7672	O	VAL	107	227.277	146.257	-5.144	1.00	45.54	IS9
ATOM	7620	CD1	LEU	101	228.593	167.750	-14.059	1.00	87.47	IS9	ATOM	7673	N	VAL	108	228.996	146.355	-3.716	1.00	57.57	IS9
ATOM	7621	CD2	LEU	101	230.307	166.922	-12.418	1.00	87.47	IS9	ATOM	7674	CA	VAL	108	228.955	144.922	-3.440	1.00	57.57	IS9
ATOM	7622	C	LEU	101	227.934	163.168	-12.329	1.00	105.79	IS9	ATOM	7675	CB	VAL	108	229.903	144.528	-2.283	1.00	37.50	IS9
ATOM	7623	O	LEU	101	226.872	163.617	-11.912	1.00	105.79	IS9	ATOM	7676	CG1	VAL	108	229.818	143.035	-2.011	1.00	37.50	IS9
ATOM	7624	N	THR	102	228.217	161.874	-12.360	1.00	75.03	IS9	ATOM	7677	CG2	VAL	108	231.316	144.917	-2.615	1.00	37.50	IS9
ATOM	7625	CA	THR	102	227.286	160.856	-11.899	1.00	75.03	IS9	ATOM	7678	C	VAL	108	227.540	144.564	-3.006	1.00	57.57	IS9
ATOM	7626	CB	THR	102	226.872	159.939	-13.055	1.00	82.86	IS9	ATOM	7679	O	VAL	108	226.896	145.336	-2.279	1.00	57.57	IS9
ATOM	7627	CG1	THR	102	226.383	160.727	-14.149	1.00	82.86	IS9	ATOM	7680	N	GLU	109	227.062	143.399	-3.451	1.00	49.29	IS9
ATOM	7628	CG2	THR	102	225.801	158.976	-12.596	1.00	82.86	IS9	ATOM	7681	CA	GLU	109	225.728	142.926	-3.096	1.00	49.29	IS9
ATOM	7629	C	THR	102	228.026	160.017	-10.871	1.00	75.03	IS9	ATOM	7682	CB	GLU	109	225.096	142.149	-4.247	1.00	82.85	IS9
ATOM	7630	O	THR	102	227.324	159.490	-9.876	1.00	88.53	IS9	ATOM	7683	CG	GLU	109	223.721	141.605	-3.920	1.00	82.85	IS9
ATOM	7631	N	ARG	103	227.016	158.663	-8.902	1.00	88.53	IS9	ATOM	7684	CD	GLU	109	223.007	141.071	-5.142	1.00	82.85	IS9
ATOM	7632	CA	ARG	103	227.697	159.082	-7.468	1.00	69.75	IS9	ATOM	7685	OE1	GLU	109	222.798	141.856	-6.092	1.00	82.85	IS9
ATOM	7633	CB	ARG	103	228.755	158.587	-6.483	1.00	69.75	IS9	ATOM	7686	OE2	GLU	109	222.655	139.873	-5.155	1.00	82.85	IS9
ATOM	7634	CG	ARG	103	228.220	157.613	-5.449	1.00	69.75	IS9	ATOM	7687	C	GLU	109	225.795	142.042	-1.862	1.00	49.29	IS9
ATOM	7635	CD	ARG	103	229.185	156.559	-4.195	1.00	69.75	IS9	ATOM	7688	O	GLU	109	226.657	141.173	-1.741	1.00	49.29	IS9
ATOM	7636	NE	ARG	103	229.192	155.855	-4.004	1.00	69.75	IS9	ATOM	7689	N	ARG	110	224.874	142.291	-0.943	1.00	61.74	IS9
ATOM	7637	CZ	ARG	103	228.289	156.095	-3.062	1.00	69.75	IS9	ATOM	7690	CA	ARG	110	224.806	141.554	-0.303	1.00	61.74	IS9
ATOM	7638	NH1	ARG	103	230.090	154.892	-3.813	1.00	69.75	IS9	ATOM	7691	CB	ARG	110	223.519	141.924	1.041	1.00	83.27	IS9
ATOM	7639	NH2	ARG	103	227.648	157.203	-9.101	1.00	88.53	IS9	ATOM	7692	CG	ARG	110	223.388	141.330	2.423	1.00	83.27	IS9
ATOM	7640	C	ARG	103	226.613	156.741	-8.617	1.00	88.53	IS9	ATOM	7693	CD	ARG	110	222.881	139.911	2.367	1.00	83.27	IS9
ATOM	7641	O	ARG	103	228.498	156.489	-9.833	1.00	74.36	IS9	ATOM	7694	NE	ARG	110	222.017	139.623	3.501	1.00	83.27	IS9
ATOM	7642	N	ASP	104	228.286	155.078	-10.099	1.00	74.36	IS9	ATOM	7695	CZ	ARG	110	221.000	140.398	3.864	1.00	83.27	IS9
ATOM	7643	CA	ASP	104	229.592	154.463	-10.605	1.00	104.30	IS9	ATOM	7696	NH1	ARG	110	220.727	141.507	3.184	1.00	83.27	IS9
ATOM	7644	CB	ASP	104	229.422	153.043	-11.089	1.00	104.30	IS9	ATOM	7697	NH2	ARG	110	220.253	140.065	4.906	1.00	83.27	IS9
ATOM	7645	CG	ASP	104	229.461	152.830	-12.320	1.00	104.30	IS9	ATOM	7698	C	ARG	110	224.865	140.061	-0.051	1.00	61.74	IS9
ATOM	7646	OD1	ASP	104	227.842	154.440	-8.782	1.00	74.36	IS9	ATOM	7699	O	ARG	111	225.414	139.581	-0.979	1.00	61.74	IS9
ATOM	7647	OD2	ASP	104	227.842	154.440	-8.782	1.00	74.36	IS9	ATOM	7700	N	LYS	111	225.565	137.899	0.911	1.00	53.99	IS9
ATOM	7648	C	ASP	104	226.648	154.253	-7.864	1.00	74.36	IS9	ATOM	7701	CA	LYS	111	226.842	137.463	1.630	1.00	47.40	IS9
ATOM	7649	O	ALA	105	226.551	154.122	-8.693	1.00	58.20	IS9	ATOM	7702	CB	LYS	111	227.229	136.004	1.473	1.00	47.40	IS9
ATOM	7650	N	ALA	105						IS9	ATOM	7703	CG	LYS	111						IS9

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ATOM	7704	CD	LYS	111	226.360	135.096	2.297	1.00	47.40	IS9	ATOM	7757	CD	LYS	117	230.829	133.718	-4.393	1.00	28.73	IS9
ATOM	7705	CE	LYS	111	226.837	133.650	2.231	1.00	47.40	IS9	ATOM	7758	CE	LYS	117	230.282	134.698	-5.451	1.00	28.73	IS9
ATOM	7706	NZ	LYS	111	225.984	132.730	3.044	1.00	47.40	IS9	ATOM	7759	NZ	LYS	117	231.251	135.144	-6.467	1.00	28.73	IS9
ATOM	7707	C	LYS	111	224.342	137.312	1.599	1.00	53.99	IS9	ATOM	7760	C	LYS	117	226.523	135.442	-2.743	1.00	46.49	IS9
ATOM	7708	O	LYS	111	224.261	137.321	2.824	1.00	53.99	IS9	ATOM	7761	O	LYS	117	226.886	136.379	-3.469	1.00	46.49	IS9
ATOM	7709	N	LYS	112	223.383	136.822	0.819	1.00	38.48	IS9	ATOM	7762	N	ALA	118	225.294	135.354	-2.253	1.00	86.25	IS9
ATOM	7710	CB	LYS	112	222.168	136.240	1.385	1.00	38.48	IS9	ATOM	7763	CA	ALA	118	224.275	136.356	-2.581	1.00	86.25	IS9
ATOM	7711	CA	LYS	112	221.058	136.212	0.348	1.00	41.53	IS9	ATOM	7764	CB	ALA	118	224.908	137.670	-3.048	1.00	25.94	IS9
ATOM	7712	CG	LYS	112	220.551	137.571	-0.043	1.00	41.53	IS9	ATOM	7765	C	ALA	118	223.411	135.803	-3.694	1.00	86.25	IS9
ATOM	7713	CD	LYS	112	221.534	138.283	-0.906	1.00	41.53	IS9	ATOM	7766	O	ALA	118	222.179	135.820	-3.620	1.00	86.25	IS9
ATOM	7714	CE	LYS	112	220.851	139.379	-1.690	1.00	41.53	IS9	ATOM	7767	N	ARG	119	224.065	135.334	-4.745	1.00	46.50	IS9
ATOM	7715	NZ	LYS	112	221.684	139.695	-2.887	1.00	41.53	IS9	ATOM	7768	CA	ARG	119	223.336	134.758	-5.851	1.00	46.50	IS9
ATOM	7716	C	LYS	112	222.378	134.828	1.916	1.00	38.48	IS9	ATOM	7769	CB	ARG	119	223.538	135.594	-7.099	1.00	30.63	IS9
ATOM	7717	O	LYS	112	223.195	134.079	1.399	1.00	38.48	IS9	ATOM	7770	CG	ARG	119	223.000	136.957	-6.923	1.00	30.63	IS9
ATOM	7718	N	TYR	113	221.632	134.455	2.949	1.00	59.54	IS9	ATOM	7771	CD	ARG	119	222.644	137.602	-8.228	1.00	30.63	IS9
ATOM	7719	CA	TYR	113	221.795	133.126	3.515	1.00	59.54	IS9	ATOM	7772	NE	ARG	119	222.288	138.982	-7.959	1.00	30.63	IS9
ATOM	7720	CB	TYR	113	221.124	133.038	4.891	1.00	78.19	IS9	ATOM	7773	CZ	ARG	119	221.819	139.835	-8.856	1.00	30.63	IS9
ATOM	7721	CG	TYR	113	219.643	133.306	4.903	1.00	78.19	IS9	ATOM	7774	NH1	ARG	119	221.637	139.466	-10.116	1.00	30.63	IS9
ATOM	7722	CD1	TYR	113	218.732	132.299	4.607	1.00	78.19	IS9	ATOM	7775	NH2	ARG	119	221.529	141.071	-8.483	1.00	30.63	IS9
ATOM	7723	CE1	TYR	113	217.359	132.535	4.641	1.00	78.19	IS9	ATOM	7776	C	ARG	119	223.778	133.333	-6.083	1.00	46.50	IS9
ATOM	7724	CD2	TYR	113	219.148	134.564	5.231	1.00	78.19	IS9	ATOM	7777	O	ARG	119	222.964	132.414	-6.104	1.00	46.50	IS9
ATOM	7725	CE2	TYR	113	217.779	134.812	5.268	1.00	78.19	IS9	ATOM	7778	N	ARG	120	225.079	133.162	-6.243	1.00	51.51	IS9
ATOM	7726	CZ	TYR	113	216.889	133.793	4.973	1.00	78.19	IS9	ATOM	7779	CA	ARG	120	225.642	131.853	-6.471	1.00	51.51	IS9
ATOM	7727	OH	TYR	113	215.532	134.023	5.007	1.00	78.19	IS9	ATOM	7780	CB	ARG	120	227.144	131.923	-6.215	1.00	98.38	IS9
ATOM	7728	O	TYR	113	221.240	132.096	2.559	1.00	59.54	IS9	ATOM	7781	CG	ARG	120	227.926	130.752	-6.728	1.00	98.38	IS9
ATOM	7729	C	TYR	113	220.523	132.443	1.626	1.00	59.54	IS9	ATOM	7782	CD	ARG	120	228.052	129.683	-5.673	1.00	98.38	IS9
ATOM	7730	N	GLY	114	221.601	130.836	2.780	1.00	50.71	IS9	ATOM	7783	NE	ARG	120	229.324	128.993	-5.828	1.00	98.38	IS9
ATOM	7731	CA	GLY	114	221.141	129.758	1.919	1.00	50.71	IS9	ATOM	7784	CZ	ARG	120	229.626	128.209	-6.857	1.00	98.38	IS9
ATOM	7732	C	GLY	114	221.921	129.671	0.620	1.00	50.71	IS9	ATOM	7785	NH1	ARG	120	228.737	127.998	-7.828	1.00	98.38	IS9
ATOM	7733	O	GLY	114	221.980	128.626	-0.014	1.00	59.05	IS9	ATOM	7786	NH2	ARG	120	230.835	127.666	-5.929	1.00	98.38	IS9
ATOM	7734	N	LYS	115	222.520	130.784	0.220	1.00	59.05	IS9	ATOM	7787	C	ARG	120	224.944	130.866	-5.530	1.00	51.51	IS9
ATOM	7735	CA	LYS	115	223.298	130.833	-1.001	1.00	59.05	IS9	ATOM	7788	O	ARG	120	225.176	130.876	-4.321	1.00	51.51	IS9
ATOM	7736	CB	LYS	115	222.708	131.878	-1.928	1.00	39.95	IS9	ATOM	7789	N	ALA	121	224.067	130.033	-6.089	1.00	40.47	IS9
ATOM	7737	CG	LYS	115	221.304	131.491	-2.317	1.00	39.95	IS9	ATOM	7790	CA	ALA	121	223.325	127.051	-5.304	1.00	40.47	IS9
ATOM	7738	CD	LYS	115	220.831	132.308	-3.480	1.00	39.95	IS9	ATOM	7791	CB	ALA	121	221.936	128.872	-5.889	1.00	98.43	IS9
ATOM	7739	CE	LYS	115	219.919	131.499	-4.393	1.00	39.95	IS9	ATOM	7792	C	ALA	121	224.050	127.715	-5.277	1.00	40.47	IS9
ATOM	7740	NZ	LYS	115	219.996	132.034	-5.806	1.00	39.95	IS9	ATOM	7793	O	ALA	121	224.658	127.320	-6.263	1.00	40.47	IS9
ATOM	7741	C	LYS	115	224.763	131.111	-0.709	1.00	59.05	IS9	ATOM	7794	N	PRO	122	224.006	127.004	-4.142	1.00	48.73	IS9
ATOM	7742	O	LYS	115	225.102	131.766	0.275	1.00	59.05	IS9	ATOM	7795	CD	PRO	122	223.365	127.364	-2.870	1.00	35.18	IS9
ATOM	7743	N	HIS	116	225.632	130.595	-1.568	1.00	47.05	IS9	ATOM	7796	CA	PRO	122	224.679	125.703	-4.040	1.00	48.73	IS9
ATOM	7744	CB	HIS	116	227.068	130.748	-1.400	1.00	47.05	IS9	ATOM	7797	CB	PRO	122	224.407	125.278	-2.593	1.00	35.18	IS9
ATOM	7745	CG	HIS	116	227.793	129.885	-2.411	1.00	57.45	IS9	ATOM	7798	CG	PRO	122	223.162	126.020	-2.236	1.00	35.18	IS9
ATOM	7746	CG	HIS	116	227.832	128.444	-2.038	1.00	57.45	IS9	ATOM	7799	C	PRO	122	224.129	124.720	-5.064	1.00	48.73	IS9
ATOM	7747	CD2	HIS	116	227.403	127.340	-2.693	1.00	57.45	IS9	ATOM	7800	O	PRO	122	222.975	124.845	-5.477	1.00	48.73	IS9
ATOM	7748	ND1	HIS	116	228.395	128.001	-0.861	1.00	57.45	IS9	ATOM	7801	N	GLN	123	224.951	123.753	-5.477	1.00	56.61	IS9
ATOM	7749	CE1	HIS	116	228.315	126.684	-0.809	1.00	57.45	IS9	ATOM	7802	CA	GLN	123	224.544	122.769	-6.487	1.00	56.61	IS9
ATOM	7750	NE2	HIS	116	227.717	126.257	-1.909	1.00	57.45	IS9	ATOM	7803	CB	GLN	123	225.685	122.469	-7.474	1.00	43.69	IS9
ATOM	7751	C	HIS	116	227.625	132.147	-1.484	1.00	47.05	IS9	ATOM	7804	CG	GLN	123	226.656	121.378	-7.005	1.00	43.69	IS9
ATOM	7752	O	HIS	116	228.627	132.441	-0.851	1.00	47.05	IS9	ATOM	7805	CD	GLN	123	227.454	120.763	-8.148	1.00	43.69	IS9
ATOM	7753	N	LYS	117	226.990	133.015	-2.252	1.00	46.49	IS9	ATOM	7806	OE1	GLN	123	227.889	121.466	-9.070	1.00	43.69	IS9
ATOM	7754	CA	LYS	117	227.526	134.348	-2.387	1.00	46.49	IS9	ATOM	7807	NE2	GLN	123	227.661	119.448	-8.086	1.00	43.69	IS9
ATOM	7755	CB	LYS	117	228.596	134.359	-3.474	1.00	28.73	IS9	ATOM	7808	C	GLN	123	224.081	121.449	-5.912	1.00	56.61	IS9
ATOM	7756	CG	LYS	117	229.700	133.305	-3.426	1.00	28.73	IS9	ATOM	7809	O	GLN	123	224.422	121.094	-4.782	1.00	56.61	IS9

ATOM	7810	N	TYR	124	223.332	120.713	-6.728	1.00	56.98	IS9	ATOM	7863	CE1	PHE	6	156.572	137.343	8.006	1.00	54.01	ESS
ATOM	7811	CA	TYR	124	222.793	119.412	-6.347	1.00	56.98	IS9	ATOM	7864	CE2	PHE	6	154.573	136.150	8.578	1.00	54.01	ESS
ATOM	7812	CB	TYR	124	221.317	119.566	-6.054	1.00	65.45	IS9	ATOM	7865	CZ	PHE	6	155.244	137.042	7.757	1.00	54.01	ESS
ATOM	7813	CG	TYR	124	220.640	120.271	-7.176	1.00	65.45	IS9	ATOM	7866	C	PHE	6	157.159	133.315	12.682	1.00	73.74	ESS
ATOM	7814	CD1	TYR	124	220.065	119.557	-8.213	1.00	65.45	IS9	ATOM	7867	O	PHE	6	158.268	133.516	13.177	1.00	73.74	ESS
ATOM	7815	CE1	TYR	124	219.522	120.204	-9.314	1.00	65.45	IS9	ATOM	7868	N	GLU	7	156.564	131.122	12.656	1.00	52.89	ESS
ATOM	7816	CD2	TYR	124	220.658	121.659	-7.253	1.00	65.45	IS9	ATOM	7869	CA	GLU	7	157.206	130.925	13.171	1.00	52.89	ESS
ATOM	7817	CE2	TYR	124	220.121	122.324	-8.348	1.00	65.45	IS9	ATOM	7870	CB	GLU	7	156.186	129.806	13.375	1.00	52.89	ESS
ATOM	7818	CZ	TYR	124	219.552	121.588	-9.380	1.00	65.45	IS9	ATOM	7871	CG	GLU	7	156.762	128.559	14.035	1.00	52.89	ESS
ATOM	7819	OH	TYR	124	219.016	122.227	-10.479	1.00	65.45	IS9	ATOM	7872	CD	GLU	7	155.685	127.619	14.559	1.00	52.89	ESS
ATOM	7820	O	TYR	124	222.980	118.399	-7.471	1.00	56.98	IS9	ATOM	7873	OE1	GLU	7	156.021	126.471	14.938	1.00	52.89	ESS
ATOM	7821	O	TYR	124	223.373	118.751	-8.584	1.00	56.98	IS9	ATOM	7874	OE2	GLU	7	154.505	128.033	14.598	1.00	52.89	ESS
ATOM	7822	N	SER	125	222.691	117.140	-7.164	1.00	95.94	IS9	ATOM	7875	C	GLU	7	158.195	130.577	12.074	1.00	52.89	ESS
ATOM	7823	CA	SER	125	222.799	116.056	-8.131	1.00	95.94	IS9	ATOM	7876	O	GLU	7	158.066	131.058	10.947	1.00	52.89	ESS
ATOM	7824	CB	SER	125	223.788	115.004	-7.658	1.00	63.27	IS9	ATOM	7877	N	GLU	8	159.169	129.732	12.378	1.00	65.49	ESS
ATOM	7825	OG	SER	125	223.171	114.178	-6.681	1.00	63.27	IS9	ATOM	7878	CA	GLU	8	160.194	129.425	11.392	1.00	65.49	ESS
ATOM	7826	C	SER	125	221.432	115.406	-8.201	1.00	95.94	IS9	ATOM	7879	CB	GLU	8	161.342	130.396	11.653	1.00	94.50	ESS
ATOM	7827	O	SER	125	220.492	115.867	-7.549	1.00	95.94	IS9	ATOM	7880	CG	GLU	8	162.418	130.489	10.624	1.00	94.50	ESS
ATOM	7828	N	LYS	126	221.346	114.322	-8.968	1.00	89.15	IS9	ATOM	7881	CD	GLU	8	163.442	131.543	11.013	1.00	94.50	ESS
ATOM	7829	CA	LYS	126	220.113	113.556	-9.156	1.00	89.15	IS9	ATOM	7882	OE1	GLU	8	163.916	131.498	12.170	1.00	94.50	ESS
ATOM	7830	CB	LYS	126	220.322	112.104	-8.720	1.00	82.95	IS9	ATOM	7883	OE2	GLU	8	163.773	132.411	10.174	1.00	94.50	ESS
ATOM	7831	CG	LYS	126	221.428	111.352	-9.467	1.00	82.95	IS9	ATOM	7884	C	GLU	8	160.671	127.969	11.434	1.00	65.49	ESS
ATOM	7832	CD	LYS	126	222.825	111.860	-9.121	1.00	82.95	IS9	ATOM	7885	O	GLU	9	161.398	127.571	12.338	1.00	65.49	ESS
ATOM	7833	CE	LYS	126	223.884	111.100	-9.899	1.00	82.95	IS9	ATOM	7886	N	LYS	9	160.252	127.174	10.456	1.00	62.10	ESS
ATOM	7834	NZ	LYS	126	225.258	111.533	-9.557	1.00	82.95	IS9	ATOM	7887	CA	LYS	9	159.446	124.876	10.108	1.00	62.10	ESS
ATOM	7835	C	LYS	126	218.913	114.135	-8.416	1.00	89.15	IS9	ATOM	7888	CB	LYS	9	158.289	125.089	11.079	1.00	62.10	ESS
ATOM	7836	O	LYS	126	218.304	113.471	-7.576	1.00	89.15	IS9	ATOM	7889	CG	LYS	9	157.122	124.143	10.822	1.00	62.10	ESS
ATOM	7837	N	ARG	127	218.587	115.382	-8.743	1.00	109.90	IS9	ATOM	7890	CD	LYS	9	156.336	121.797	10.955	1.00	62.10	ESS
ATOM	7838	CA	ARG	127	217.468	116.077	-8.135	1.00	109.90	IS9	ATOM	7891	CE	LYS	9	161.709	125.594	9.298	1.00	62.10	ESS
ATOM	7839	CB	ARG	127	217.517	117.568	-8.479	1.00	113.62	IS9	ATOM	7892	NZ	LYS	9	161.613	126.197	8.221	1.00	62.10	ESS
ATOM	7840	CG	ARG	127	216.624	118.437	-7.605	1.00	113.62	IS9	ATOM	7893	C	LYS	9	162.714	124.768	9.578	1.00	58.90	ESS
ATOM	7841	CD	ARG	127	216.675	119.907	-8.002	1.00	113.62	IS9	ATOM	7894	O	LYS	10	163.799	124.529	8.631	1.00	58.90	ESS
ATOM	7842	NE	ARG	127	216.521	120.795	-6.849	1.00	113.62	IS9	ATOM	7895	N	MET	10	165.139	124.688	9.345	1.00	98.73	ESS
ATOM	7843	CZ	ARG	127	216.531	122.125	-6.916	1.00	113.62	IS9	ATOM	7896	CA	MET	10	166.337	124.590	8.439	1.00	98.73	ESS
ATOM	7844	NH1	ARG	127	216.685	122.728	-8.085	1.00	113.62	IS9	ATOM	7897	CB	MET	10	167.267	123.099	8.770	1.00	98.73	ESS
ATOM	7845	NH2	ARG	127	216.393	122.854	-5.815	1.00	113.62	IS9	ATOM	7898	CG	MET	10	168.447	123.707	9.976	1.00	98.73	ESS
ATOM	7846	C	ARG	127	216.201	115.460	-8.703	1.00	109.90	IS9	ATOM	7900	CE	MET	10	163.705	123.155	7.972	1.00	58.90	ESS
ATOM	7847	O	ARG	127	215.320	114.424	-9.395	1.00	109.90	IS9	ATOM	7901	C	MET	10	163.279	122.139	6.713	1.00	58.90	ESS
ATOM	7848	OXT	ARG	127	215.110	116.013	-8.450	1.00	126.21	ESS	ATOM	7902	O	MET	10	163.279	122.139	6.713	1.00	58.90	ESS
ATOM	7849	CB	ASP	5	154.439	137.492	14.248	1.00	126.21	ESS	ATOM	7903	N	ILE	11	163.279	122.139	6.713	1.00	58.90	ESS
ATOM	7850	CG	ASP	5	155.757	137.920	14.863	1.00	126.21	ESS	ATOM	7904	CA	ILE	11	163.105	121.929	5.929	1.00	64.48	ESS
ATOM	7851	OD1	ASP	5	155.806	138.081	16.102	1.00	126.21	ESS	ATOM	7905	CB	ILE	11	162.638	122.275	4.510	1.00	55.58	ESS
ATOM	7852	OD2	ASP	5	156.741	138.091	14.111	1.00	126.21	ESS	ATOM	7906	CG2	ILE	11	161.427	121.010	3.702	1.00	55.58	ESS
ATOM	7853	C	ASP	5	154.601	135.058	13.631	1.00	133.66	ESS	ATOM	7907	CG1	ILE	11	161.342	123.071	4.597	1.00	55.58	ESS
ATOM	7854	O	ASP	5	155.981	134.021	13.390	1.00	133.66	ESS	ATOM	7908	CD1	ILE	11	160.348	122.466	5.564	1.00	55.58	ESS
ATOM	7855	N	ASP	5	154.474	135.781	16.036	1.00	133.66	ESS	ATOM	7909	C	ILE	11	164.300	119.878	6.278	1.00	64.48	ESS
ATOM	7856	CA	ASP	5	155.040	136.065	14.639	1.00	133.66	ESS	ATOM	7910	O	ILE	11	165.405	120.537	5.239	1.00	52.50	ESS
ATOM	7857	N	PHE	6	156.371	134.455	12.062	1.00	73.74	ESS	ATOM	7911	N	LEU	12	166.630	120.752	5.140	1.00	51.72	ESS
ATOM	7858	CA	PHE	6	157.289	135.223	11.097	1.00	54.01	ESS	ATOM	7912	CA	LEU	12	166.535	119.705	4.014	1.00	51.72	ESS
ATOM	7859	CB	PHE	6	156.568	135.850	9.922	1.00	54.01	ESS	ATOM	7913	CB	LEU	12	166.671	120.099	2.536	1.00	51.72	ESS
ATOM	7860	CG	PHE	6	157.229	136.747	9.085	1.00	54.01	ESS	ATOM	7914	CG	LEU	12	165.715	121.235	2.262	1.00	51.72	ESS
ATOM	7861	CD1	PHE	6	155.235	135.556	9.655	1.00	54.01	ESS	ATOM	7915	CD1	LEU	12						ESS

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ATOM	7916	CD2	LEU	12	168.097	120.513	2.191	1.00	51.72	ESS	ATOM	7969	NH2	ARG	18	179.225	121.549	-9.603	1.00	200.59	ESS
ATOM	7917	C	LEU	12	167.840	121.627	4.907	1.00	52.50	ESS	ATOM	7970	C	ARG	18	182.568	121.414	-3.881	1.00	76.47	ESS
ATOM	7918	CD	LEU	12	167.738	122.707	4.324	1.00	52.50	ESS	ATOM	7971	O	ARG	18	183.239	121.795	-2.929	1.00	76.47	ESS
ATOM	7919	N	ILE	13	168.982	121.159	5.395	1.00	56.60	ESS	ATOM	7972	N	MET	19	182.708	121.899	-5.110	1.00	51.86	ESS
ATOM	7920	CA	ILE	13	170.242	121.854	5.200	1.00	56.60	ESS	ATOM	7973	CA	MET	19	183.686	122.095	-5.452	1.00	51.86	ESS
ATOM	7921	CB	ILE	13	170.824	122.411	6.503	1.00	61.09	ESS	ATOM	7974	CB	MET	19	183.627	124.095	-4.459	1.00	61.45	ESS
ATOM	7922	CG2	ILE	13	170.060	123.635	6.932	1.00	61.09	ESS	ATOM	7975	CG	MET	19	183.855	125.490	-5.083	1.00	61.45	ESS
ATOM	7923	CG1	ILE	13	170.795	121.339	7.580	1.00	61.09	ESS	ATOM	7976	SD	MET	19	184.565	126.833	-3.997	1.00	61.45	ESS
ATOM	7924	CD1	ILE	13	171.465	121.774	8.852	1.00	61.09	ESS	ATOM	7977	CE	MET	19	183.191	127.178	-2.875	1.00	61.45	ESS
ATOM	7925	C	ILE	13	171.190	120.801	4.670	1.00	56.60	ESS	ATOM	7978	C	MET	19	185.035	122.191	-5.354	1.00	51.86	ESS
ATOM	7926	CD	ILE	13	171.270	119.707	5.232	1.00	56.60	ESS	ATOM	7979	O	MET	19	185.404	121.663	-4.301	1.00	51.86	ESS
ATOM	7927	N	ARG	14	171.886	121.116	3.580	1.00	28.32	ESS	ATOM	7980	N	GLN	20	185.742	122.105	-6.471	1.00	33.23	ESS
ATOM	7928	CA	ARG	14	172.823	120.172	2.997	1.00	28.32	ESS	ATOM	7981	CA	GLN	20	187.058	121.495	-6.473	1.00	33.23	ESS
ATOM	7929	CB	ARG	14	172.372	119.765	1.606	1.00	39.24	ESS	ATOM	7982	CB	GLN	20	187.176	120.471	-7.589	1.00	40.36	ESS
ATOM	7930	CG	ARG	14	172.224	120.894	0.645	1.00	39.24	ESS	ATOM	7983	CG	GLN	20	186.401	119.237	-7.338	1.00	40.36	ESS
ATOM	7931	CD	ARG	14	171.546	120.370	-0.563	1.00	39.24	ESS	ATOM	7984	CD	GLN	20	186.752	118.632	-6.021	1.00	40.36	ESS
ATOM	7932	NE	ARG	14	171.522	121.337	-1.638	1.00	39.24	ESS	ATOM	7985	OE1	GLN	20	187.880	118.226	-5.797	1.00	40.36	ESS
ATOM	7933	CZ	ARG	14	170.953	121.095	-2.816	1.00	39.24	ESS	ATOM	7986	NE2	GLN	20	185.783	118.578	-5.126	1.00	40.36	ESS
ATOM	7934	NH1	ARG	14	170.372	119.915	-3.023	1.00	39.24	ESS	ATOM	7987	C	GLN	20	188.022	122.648	-6.729	1.00	33.23	ESS
ATOM	7935	NH2	ARG	14	170.980	122.011	-3.790	1.00	39.24	ESS	ATOM	7988	O	GLN	20	187.595	123.691	-7.241	1.00	33.23	ESS
ATOM	7936	C	ARG	14	174.187	120.805	2.939	1.00	28.32	ESS	ATOM	7989	N	ALA	21	189.303	122.465	-6.391	1.00	88.83	ESS
ATOM	7937	O	ARG	14	174.309	122.033	2.879	1.00	28.32	ESS	ATOM	7990	CA	ALA	21	190.327	123.498	-6.586	1.00	88.83	ESS
ATOM	7938	N	ARG	15	175.213	119.963	2.957	1.00	57.22	ESS	ATOM	7991	CB	ALA	21	189.810	124.861	-6.084	1.00	15.33	ESS
ATOM	7939	CA	ARG	15	176.572	120.451	2.952	1.00	57.22	ESS	ATOM	7992	C	ALA	21	191.571	123.119	-5.801	1.00	88.83	ESS
ATOM	7940	CB	ARG	15	177.484	119.485	3.703	1.00	52.55	ESS	ATOM	7993	O	ALA	21	191.736	123.613	-4.682	1.00	88.83	ESS
ATOM	7941	CG	ARG	15	178.753	120.135	4.245	1.00	52.55	ESS	ATOM	7994	N	GLY	22	192.458	122.286	-6.364	1.00	40.50	ESS
ATOM	7942	CD	ARG	15	179.881	120.026	3.274	1.00	52.55	ESS	ATOM	7995	CA	GLY	22	193.633	121.869	-5.600	1.00	40.50	ESS
ATOM	7943	NE	ARG	15	180.365	118.655	3.193	1.00	52.55	ESS	ATOM	7996	C	GLY	22	193.151	121.408	-4.209	1.00	40.50	ESS
ATOM	7944	CZ	ARG	15	181.284	118.138	4.003	1.00	52.55	ESS	ATOM	7997	O	GLY	22	193.893	121.401	-3.223	1.00	40.50	ESS
ATOM	7945	NH1	ARG	15	181.823	118.889	4.958	1.00	52.55	ESS	ATOM	7998	N	GLY	23	191.868	121.036	-4.141	1.00	70.07	ESS
ATOM	7946	NH2	ARG	15	181.670	116.874	3.854	1.00	52.55	ESS	ATOM	7999	CA	GLY	23	191.245	120.595	-2.901	1.00	70.07	ESS
ATOM	7947	C	ARG	15	177.133	120.705	1.581	1.00	57.22	ESS	ATOM	8000	C	GLY	23	189.716	120.707	-2.950	1.00	70.07	ESS
ATOM	7948	O	ARG	15	178.248	121.207	1.475	1.00	57.22	ESS	ATOM	8001	O	GLY	23	189.149	121.267	-3.894	1.00	70.07	ESS
ATOM	7949	N	THR	16	176.379	120.377	0.532	1.00	35.10	ESS	ATOM	8002	N	ARG	24	189.054	120.175	-1.922	1.00	50.26	ESS
ATOM	7950	CA	THR	16	176.862	120.603	-0.838	1.00	35.10	ESS	ATOM	8003	CA	ARG	24	187.591	120.176	-1.785	1.00	50.26	ESS
ATOM	7951	CB	THR	16	176.352	121.975	-1.433	1.00	51.49	ESS	ATOM	8004	CB	ARG	24	187.172	118.873	-1.086	1.00	76.36	ESS
ATOM	7952	CG1	THR	16	176.781	122.102	-2.792	1.00	51.49	ESS	ATOM	8005	CG	ARG	24	185.876	118.260	-1.567	1.00	76.36	ESS
ATOM	7953	CG2	THR	16	176.889	123.162	-0.657	1.00	51.49	ESS	ATOM	8006	CD	ARG	24	185.528	116.953	-0.828	1.00	76.36	ESS
ATOM	7954	C	THR	16	178.396	120.562	-0.814	1.00	35.10	ESS	ATOM	8007	NE	ARG	24	186.377	115.818	-1.198	1.00	76.36	ESS
ATOM	7955	O	THR	16	179.098	121.540	-1.115	1.00	35.10	ESS	ATOM	8008	CZ	ARG	24	186.423	115.264	-2.412	1.00	76.36	ESS
ATOM	7956	N	ALA	17	178.893	119.405	-0.398	1.00	89.83	ESS	ATOM	8009	NH1	ARG	24	185.666	115.740	-3.391	1.00	76.36	ESS
ATOM	7957	CB	ALA	17	180.317	119.161	-0.300	1.00	89.83	ESS	ATOM	8010	NH2	ARG	24	187.223	114.228	-2.655	1.00	76.36	ESS
ATOM	7958	CA	ALA	17	180.559	117.821	0.399	1.00	89.83	ESS	ATOM	8011	C	ARG	24	187.147	121.400	-0.949	1.00	50.26	ESS
ATOM	7959	C	ALA	17	180.928	119.144	-1.695	1.00	201.09	ESS	ATOM	8012	O	ARG	24	187.724	121.688	0.098	1.00	50.26	ESS
ATOM	7960	O	ALA	17	181.373	118.094	-2.160	1.00	201.09	ESS	ATOM	8013	N	ARG	25	186.121	122.117	-1.398	1.00	51.01	ESS
ATOM	7961	N	ARG	18	180.953	120.293	-2.367	1.00	76.47	ESS	ATOM	8014	CA	ARG	25	185.660	123.301	-0.670	1.00	51.01	ESS
ATOM	7962	CA	ARG	18	181.519	120.330	-3.704	1.00	76.47	ESS	ATOM	8015	CB	ARG	25	186.267	124.534	-1.309	1.00	46.91	ESS
ATOM	7963	CB	ARG	18	180.412	120.493	-4.738	1.00	200.59	ESS	ATOM	8016	CG	ARG	25	187.753	124.503	-1.206	1.00	46.91	ESS
ATOM	7964	CG	ARG	18	179.977	121.900	-4.952	1.00	200.59	ESS	ATOM	8017	CD	ARG	25	188.345	125.850	-1.461	1.00	46.91	ESS
ATOM	7965	CD	ARG	18	180.492	122.407	-6.282	1.00	200.59	ESS	ATOM	8018	NE	ARG	25	189.753	125.833	-1.086	1.00	46.91	ESS
ATOM	7966	NE	ARG	18	179.833	121.752	-7.400	1.00	200.59	ESS	ATOM	8019	CZ	ARG	25	190.576	126.868	-1.204	1.00	46.91	ESS
ATOM	7967	CZ	ARG	18	179.880	122.193	-8.650	1.00	200.59	ESS	ATOM	8020	NH1	ARG	25	190.130	128.025	-1.692	1.00	46.91	ESS
ATOM	7968	NH1	ARG	18	180.563	123.291	-8.939	1.00	200.59	ESS	ATOM	8021	NH2	ARG	25	191.849	126.731	-0.839	1.00	46.91	ESS

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ATOM	8022	C	ARG	25	184.143	123.446	-0.567	1.00	51.01	ES5	ATOM	8075	CA	VAL	32	163.460	127.551	5.395	1.00	50.63	ES5
ATOM	8023	O	ARG	25	183.480	123.878	-1.516	1.00	51.01	ES5	ATOM	8076	CB	VAL	32	164.238	128.702	6.062	1.00	53.13	ES5
ATOM	8024	M	PHE	26	183.619	123.141	0.621	1.00	43.48	ES5	ATOM	8077	CG1	VAL	32	163.417	129.309	7.163	1.00	53.13	ES5
ATOM	8025	CA	PHE	26	182.182	123.132	0.868	1.00	43.48	ES5	ATOM	8078	CG2	VAL	32	165.547	128.186	6.623	1.00	53.13	ES5
ATOM	8026	CB	PHE	26	181.871	122.186	2.021	1.00	42.42	ES5	ATOM	8079	C	VAL	32	162.044	128.019	5.089	1.00	50.63	ES5
ATOM	8027	CG	PHE	26	182.887	121.103	2.216	1.00	42.42	ES5	ATOM	8080	O	VAL	32	161.811	128.759	4.122	1.00	50.63	ES5
ATOM	8028	CD1	PHE	26	184.085	121.361	2.854	1.00	42.42	ES5	ATOM	8081	N	VAL	33	161.103	127.565	5.918	1.00	55.36	ES5
ATOM	8029	CD2	PHE	26	182.633	119.811	1.796	1.00	42.42	ES5	ATOM	8082	CA	VAL	33	159.707	127.964	5.788	1.00	55.36	ES5
ATOM	8030	CE1	PHE	26	185.015	120.333	3.074	1.00	42.42	ES5	ATOM	8083	CB	VAL	33	158.733	126.811	5.953	1.00	41.81	ES5
ATOM	8031	CE2	PHE	26	183.554	118.782	2.012	1.00	42.42	ES5	ATOM	8084	CG1	VAL	33	157.381	127.218	5.413	1.00	41.81	ES5
ATOM	8032	CE3	PHE	26	184.743	119.045	2.653	1.00	42.42	ES5	ATOM	8085	CG2	VAL	33	159.248	125.539	5.243	1.00	41.81	ES5
ATOM	8033	C	PHE	26	181.406	124.418	1.109	1.00	43.48	ES5	ATOM	8086	C	VAL	33	159.417	128.943	6.905	1.00	55.36	ES5
ATOM	8034	O	PHE	26	181.962	125.446	1.476	1.00	43.48	ES5	ATOM	8087	O	VAL	33	159.899	128.790	8.029	1.00	55.36	ES5
ATOM	8035	N	ARG	27	180.094	124.314	0.886	1.00	46.23	ES5	ATOM	8088	N	VAL	34	158.622	129.948	6.584	1.00	57.06	ES5
ATOM	8036	CA	ARG	27	179.118	125.383	1.083	1.00	46.23	ES5	ATOM	8089	CA	VAL	34	158.273	130.972	7.540	1.00	57.06	ES5
ATOM	8037	CB	ARG	27	178.664	125.970	-0.243	1.00	97.62	ES5	ATOM	8090	CB	VAL	34	159.042	132.263	7.243	1.00	59.40	ES5
ATOM	8038	CG	ARG	27	179.547	127.040	-0.775	1.00	97.62	ES5	ATOM	8091	CG1	VAL	34	158.711	133.307	8.267	1.00	59.40	ES5
ATOM	8039	CD	ARG	27	178.725	127.939	-1.643	1.00	97.62	ES5	ATOM	8092	CG2	VAL	34	160.526	131.987	7.241	1.00	57.06	ES5
ATOM	8040	NE	ARG	27	179.526	129.001	-2.223	1.00	97.62	ES5	ATOM	8093	C	VAL	34	156.791	131.233	7.398	1.00	57.06	ES5
ATOM	8041	CZ	ARG	27	179.016	130.041	-2.871	1.00	97.62	ES5	ATOM	8094	O	VAL	34	156.311	131.542	6.302	1.00	57.06	ES5
ATOM	8042	NH1	ARG	27	177.698	130.153	-3.014	1.00	97.62	ES5	ATOM	8095	N	GLY	35	156.064	131.097	8.502	1.00	54.58	ES5
ATOM	8043	NH2	ARG	27	179.824	130.967	-3.379	1.00	97.62	ES5	ATOM	8096	CA	GLY	35	154.632	131.328	8.461	1.00	54.58	ES5
ATOM	8044	C	ARG	27	177.902	124.758	1.772	1.00	46.23	ES5	ATOM	8097	C	GLY	35	154.082	131.840	9.772	1.00	54.58	ES5
ATOM	8045	O	ARG	27	177.798	123.534	1.864	1.00	46.23	ES5	ATOM	8098	O	GLY	35	154.730	131.720	10.807	1.00	54.58	ES5
ATOM	8046	N	PHE	28	176.982	125.584	2.264	1.00	36.50	ES5	ATOM	8099	N	ASP	36	152.887	132.423	9.725	1.00	70.07	ES5
ATOM	8047	CA	PHE	28	175.792	125.049	4.427	1.00	40.39	ES5	ATOM	8100	CA	ASP	36	151.658	134.337	10.674	1.00	67.74	ES5
ATOM	8048	CB	PHE	28	176.994	124.512	5.066	1.00	40.39	ES5	ATOM	8101	CB	ASP	36	150.670	134.369	9.525	1.00	67.74	ES5
ATOM	8049	CG	PHE	28	178.292	125.011	4.968	1.00	40.39	ES5	ATOM	8102	CG	ASP	36	149.996	133.347	9.272	1.00	67.74	ES5
ATOM	8050	CD1	PHE	28	176.782	123.303	5.724	1.00	40.39	ES5	ATOM	8103	OD1	ASP	36	150.558	135.437	8.887	1.00	67.74	ES5
ATOM	8051	CD2	PHE	28	179.356	124.313	5.509	1.00	40.39	ES5	ATOM	8104	OD2	ASP	36	151.118	131.989	11.363	1.00	70.07	ES5
ATOM	8052	CE1	PHE	28	177.844	122.596	6.271	1.00	40.39	ES5	ATOM	8105	C	ASP	36	150.421	132.238	12.328	1.00	70.07	ES5
ATOM	8053	CE2	PHE	28	179.134	123.099	6.163	1.00	40.39	ES5	ATOM	8106	O	ASP	36	150.987	130.890	10.639	1.00	60.69	ES5
ATOM	8054	CZ	PHE	28	174.571	125.727	2.387	1.00	36.50	ES5	ATOM	8107	N	ARG	37	149.974	129.901	10.929	1.00	60.69	ES5
ATOM	8055	C	PHE	28	173.512	124.948	2.090	1.00	36.50	ES5	ATOM	8108	CA	ARG	37	150.159	129.358	12.345	1.00	47.50	ES5
ATOM	8056	O	PHE	29	172.265	125.484	1.756	1.00	38.70	ES5	ATOM	8109	CB	ARG	37	151.287	128.346	12.457	1.00	47.50	ES5
ATOM	8057	N	GLY	29	171.185	125.072	2.255	1.00	38.70	ES5	ATOM	8110	CG	ARG	37	151.513	127.913	13.890	1.00	47.50	ES5
ATOM	8058	CA	GLY	29	172.265	125.484	1.756	1.00	38.70	ES5	ATOM	8111	CD	ARG	37	152.434	126.781	13.995	1.00	47.50	ES5
ATOM	8059	C	GLY	29	171.197	123.947	3.230	1.00	38.70	ES5	ATOM	8112	NE	ARG	37	152.170	125.546	12.979	1.00	47.50	ES5
ATOM	8060	O	GLY	29	170.256	125.976	2.984	1.00	33.43	ES5	ATOM	8113	CZ	ARG	37	150.997	125.278	13.695	1.00	47.50	ES5
ATOM	8061	N	ALA	30	169.195	125.659	3.912	1.00	33.43	ES5	ATOM	8114	NH1	ARG	37	153.080	124.573	13.995	1.00	47.50	ES5
ATOM	8062	CA	ALA	30	169.473	126.334	5.250	1.00	45.35	ES5	ATOM	8115	NH2	ARG	37	148.583	130.474	10.739	1.00	60.69	ES5
ATOM	8063	CB	ALA	30	167.842	126.088	3.373	1.00	33.43	ES5	ATOM	8116	C	ARG	37	147.605	129.910	11.219	1.00	60.69	ES5
ATOM	8064	C	ALA	30	167.677	127.209	2.880	1.00	33.43	ES5	ATOM	8117	O	ARG	37	148.503	131.596	10.028	1.00	53.47	ES5
ATOM	8065	O	ALA	30	166.873	125.187	3.435	1.00	35.48	ES5	ATOM	8118	N	GLN	38	147.226	132.237	9.734	1.00	53.47	ES5
ATOM	8066	N	LEU	31	165.539	125.536	2.982	1.00	35.48	ES5	ATOM	8119	CA	GLN	38	147.018	133.474	10.598	1.00	79.34	ES5
ATOM	8067	CA	LEU	31	164.840	124.355	2.312	1.00	30.86	ES5	ATOM	8120	CB	GLN	38	146.524	133.173	11.982	1.00	79.34	ES5
ATOM	8068	CG	LEU	31	163.399	124.612	0.871	1.00	30.86	ES5	ATOM	8121	CD	GLN	38	147.506	133.621	13.027	1.00	79.34	ES5
ATOM	8069	CD1	LEU	31	163.256	123.663	0.516	1.00	30.86	ES5	ATOM	8122	OE1	GLN	38	147.835	134.807	13.112	1.00	79.34	ES5
ATOM	8070	CD2	LEU	31	163.969	126.068	0.719	1.00	30.86	ES5	ATOM	8124	NE2	GLN	38	147.992	132.679	13.830	1.00	79.34	ES5
ATOM	8071	C	LEU	31	164.797	125.911	4.247	1.00	35.48	ES5	ATOM	8125	C	GLN	38	147.106	132.636	8.269	1.00	53.47	ES5
ATOM	8072	O	LEU	31	164.789	125.151	5.228	1.00	35.48	ES5	ATOM	8126	O	GLN	38	146.762	133.764	7.961	1.00	53.47	ES5
ATOM	8073	N	VAL	32	164.175	127.081	4.228	1.00	50.63	ES5	ATOM	8127	N	GLY	39	147.404	131.719	7.362	1.00	70.28	ES5

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ATOM	8128	CA	GLY	39	147.276	132.041	5.954	1.00	70.28	ESS	ATOM	8181	CA	LYS	47	173.292	129.437	0.804	1.00	55.32	ES
ATOM	8129	C	GLY	39	148.429	132.751	5.267	1.00	70.28	ESS	ATOM	8182	CB	LYS	47	173.698	129.017	-0.603	1.00	65.08	ES
ATOM	8130	N	GLY	39	148.242	133.277	4.168	1.00	70.28	ESS	ATOM	8183	CG	LYS	47	172.687	128.138	-1.297	1.00	65.08	ES
ATOM	8131	N	ARG	40	149.611	132.781	5.885	1.00	43.77	ESS	ATOM	8184	CD	LYS	47	172.008	128.893	-2.408	1.00	65.08	ES
ATOM	8132	CA	ARG	40	150.773	133.427	5.264	1.00	43.77	ESS	ATOM	8185	CE	LYS	47	170.973	128.026	-3.081	1.00	65.08	ES
ATOM	8133	CB	ARG	40	150.979	134.823	5.859	1.00	80.18	ESS	ATOM	8186	CZ	LYS	47	170.387	128.702	-4.277	1.00	65.08	ES
ATOM	8134	CG	ARG	40	149.679	135.505	6.254	1.00	80.18	ESS	ATOM	8187	C	LYS	47	174.338	130.365	1.358	1.00	55.32	ES
ATOM	8135	CD	ARG	40	149.693	136.996	5.979	1.00	80.18	ESS	ATOM	8188	C	LYS	47	174.305	131.570	1.121	1.00	55.32	ES
ATOM	8136	NE	ARG	40	150.937	137.635	6.388	1.00	80.18	ESS	ATOM	8189	N	ALA	48	175.278	129.785	2.092	1.00	25.03	ES
ATOM	8137	CZ	ARG	40	151.833	138.137	5.543	1.00	80.18	ESS	ATOM	8190	CA	ALA	48	176.350	130.550	2.709	1.00	25.03	ES
ATOM	8138	CHI	ARG	40	151.632	138.077	4.233	1.00	80.18	ESS	ATOM	8191	CB	ALA	48	175.814	131.348	3.889	1.00	72.90	ES
ATOM	8139	NH2	ARG	40	152.933	138.712	6.014	1.00	80.18	ESS	ATOM	8192	C	ALA	48	177.480	129.631	3.155	1.00	25.03	ES
ATOM	8140	C	ARG	40	152.055	132.314	6.539	1.00	43.77	ESS	ATOM	8193	O	ALA	48	177.287	128.421	3.345	1.00	25.03	ES
ATOM	8141	O	ARG	40	152.629	132.169	4.294	1.00	52.28	ESS	ATOM	8194	N	PRO	49	178.690	130.195	3.310	1.00	34.10	ES
ATOM	8142	N	VAL	41	153.855	131.368	4.308	1.00	52.28	ESS	ATOM	8195	CD	PRO	49	179.071	131.571	2.950	1.00	44.90	ES
ATOM	8143	CA	VAL	41	153.865	129.896	3.923	1.00	43.97	ESS	ATOM	8196	CA	PRO	49	179.862	129.434	3.743	1.00	34.10	ES
ATOM	8144	CB	VAL	41	153.638	129.896	5.123	1.00	43.97	ESS	ATOM	8197	CB	PRO	49	180.977	130.474	3.718	1.00	44.90	ES
ATOM	8145	CG	VAL	41	152.255	129.714	3.315	1.00	43.97	ESS	ATOM	8198	CG	PRO	49	180.239	131.792	3.843	1.00	44.90	ES
ATOM	8146	CG2	VAL	41	154.862	131.870	3.318	1.00	52.28	ESS	ATOM	8199	C	PRO	49	179.705	128.772	5.105	1.00	34.10	ES
ATOM	8147	C	VAL	41	154.508	132.408	2.256	1.00	52.28	ESS	ATOM	8200	N	GLU	50	178.606	129.041	5.801	1.00	76.30	ES
ATOM	8148	O	VAL	41	156.121	131.645	3.681	1.00	58.62	ESS	ATOM	8201	CA	GLU	50	178.383	128.428	7.110	1.00	76.30	ES
ATOM	8149	N	GLY	42	157.246	132.033	2.860	1.00	58.62	ESS	ATOM	8202	CB	GLU	50	178.958	129.302	8.220	1.00	101.38.42	ES
ATOM	8150	CA	GLY	42	158.232	130.884	2.830	1.00	58.62	ESS	ATOM	8203	CG	GLU	50	180.462	129.403	8.198	1.00	101.38.42	ES
ATOM	8151	C	GLY	42	158.378	130.148	3.812	1.00	58.62	ESS	ATOM	8204	CG	GLU	50	180.979	131.306	9.393	1.00	101.38.42	ES
ATOM	8152	O	GLY	42	158.901	130.727	1.692	1.00	53.21	ESS	ATOM	8205	OE1	GLU	50	181.838	129.574	10.121	1.00	101.38.42	ES
ATOM	8153	N	LEU	43	159.883	129.665	1.491	1.00	53.21	ESS	ATOM	8206	OE2	GLU	50	176.912	128.186	7.376	1.00	76.30	ES
ATOM	8154	CA	LEU	43	159.324	128.630	0.506	1.00	43.92	ESS	ATOM	8207	OE2	GLU	50	176.059	128.092	6.968	1.00	76.30	ES
ATOM	8155	CB	LEU	43	160.022	127.284	0.344	1.00	43.92	ESS	ATOM	8208	C	GLU	50	175.251	126.713	8.400	1.00	56.29	ES
ATOM	8156	CG	LEU	43	161.252	127.452	-0.489	1.00	43.92	ESS	ATOM	8209	O	VAL	51	175.226	125.603	9.446	1.00	32.03	ES
ATOM	8157	CD1	LEU	43	160.367	126.720	1.703	1.00	43.92	ESS	ATOM	8210	N	VAL	51	173.845	125.038	9.543	1.00	32.03	ES
ATOM	8158	CD2	LEU	43	161.118	130.326	0.920	1.00	53.21	ESS	ATOM	8211	CA	VAL	51	176.242	124.541	9.098	1.00	32.03	ES
ATOM	8159	C	LEU	43	161.035	131.066	-0.054	1.00	53.21	ESS	ATOM	8212	CB	VAL	51	174.384	124.867	8.913	1.00	56.29	ES
ATOM	8160	O	LEU	43	162.265	130.077	1.527	1.00	38.44	ESS	ATOM	8213	CG1	VAL	51	173.317	128.147	8.357	1.00	56.29	ES
ATOM	8161	N	GLY	44	163.472	130.699	1.029	1.00	38.44	ESS	ATOM	8214	C	VAL	51	174.819	128.542	9.994	1.00	55.20	ES
ATOM	8162	CA	GLY	44	164.649	129.756	1.089	1.00	38.44	ESS	ATOM	8215	O	VAL	51	175.893	128.161	10.930	1.00	44.76	ES
ATOM	8163	C	GLY	44	164.852	129.051	2.083	1.00	38.44	ESS	ATOM	8216	CD	PRO	52	174.919	130.098	11.710	1.00	44.76	ES
ATOM	8164	O	GLY	44	165.433	129.731	0.020	1.00	74.39	ESS	ATOM	8217	N	PRO	52	175.445	128.797	12.212	1.00	44.76	ES
ATOM	8165	N	PHE	45	166.596	128.863	-0.021	1.00	74.39	ESS	ATOM	8218	CB	PRO	52	173.631	131.193	9.387	1.00	55.20	ES
ATOM	8166	CA	PHE	45	166.605	128.051	-1.515	1.00	54.46	ESS	ATOM	8219	CA	PRO	52	174.812	131.288	8.902	1.00	44.41	ES
ATOM	8167	CB	PHE	45	167.710	126.174	-0.075	1.00	54.46	ESS	ATOM	8220	CD	PRO	52	174.587	132.370	7.952	1.00	44.41	ES
ATOM	8168	CG	PHE	45	168.519	125.046	-0.031	1.00	54.46	ESS	ATOM	8221	CG	PRO	52	175.899	132.802	7.302	1.00	76.13	ES
ATOM	8169	CD1	PHE	45	168.123	126.395	-2.417	1.00	54.46	ESS	ATOM	8222	C	PRO	52	176.811	133.534	9.519	1.00	76.13	ES
ATOM	8170	CD2	PHE	45	168.519	125.046	-0.031	1.00	54.46	ESS	ATOM	8223	O	PRO	52	178.219	133.587	7.471	1.00	76.13	ES
ATOM	8171	CE1	PHE	45	168.131	124.592	-1.188	1.00	54.46	ESS	ATOM	8224	N	LEU	53	176.811	133.534	9.519	1.00	76.13	ES
ATOM	8172	CE2	PHE	45	167.837	129.726	0.070	1.00	74.39	ESS	ATOM	8225	CA	LEU	53	177.126	132.847	8.205	1.00	76.13	ES
ATOM	8173	CZ	PHE	45	168.170	130.453	-0.865	1.00	74.39	ESS	ATOM	8226	CB	LEU	53	178.610	131.921	6.864	1.00	44.41	ES
ATOM	8175	O	PHE	45	169.706	130.454	1.205	1.00	39.88	ESS	ATOM	8227	CG	LEU	53	172.897	132.739	6.265	1.00	44.41	ES
ATOM	8176	N	GLY	46	170.994	129.683	1.566	1.00	39.88	ESS	ATOM	8228	CD1	LEU	53	172.589	130.616	6.615	1.00	45.02	ES
ATOM	8177	CA	GLY	46	171.087	128.755	2.379	1.00	39.88	ESS	ATOM	8229	CD2	LEU	53	172.722	130.044	5.601	1.00	45.02	ES
ATOM	8178	C	GLY	46							ATOM	8230	O	LEU	54						
ATOM	8179	O	GLY	46							ATOM	8231	C	LEU	54						
ATOM	8180	N	LYS	47							ATOM	8232	N	ALA	54						
ATOM	8180	N	LYS	47							ATOM	8233	CA	ALA	54						

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ATOM	8234	CB	ALA	54	173.153	128.628	5.320	1.00	53.01	ES5	ATOM	8287	CD1	TYR	61	167.923	135.373	1.178	1.00	86.88	ES1
ATOM	8235	C	ALA	54	171.263	130.075	6.049	1.00	45.02	ES5	ATOM	8288	CE1	TYR	61	169.049	135.850	0.530	1.00	86.88	ES1
ATOM	8236	ALA	54	170.385	130.603	5.350	1.00	45.02	ES5	ATOM	8289	CD2	TYR	61	167.151	134.402	-0.856	1.00	86.88	ES1	
ATOM	8237	N	VAL	55	171.007	129.492	7.217	1.00	48.75	ES5	ATOM	8290	CE2	TYR	61	168.272	134.874	-1.512	1.00	86.88	ES1
ATOM	8238	CA	VAL	55	169.659	129.470	7.768	1.00	48.75	ES5	ATOM	8291	C2	TYR	61	169.216	135.600	-0.812	1.00	86.88	ES1
ATOM	8239	CB	VAL	55	169.640	128.838	9.164	1.00	32.46	ES5	ATOM	8292	OH	TYR	61	170.321	136.095	-1.458	1.00	86.88	ES1
ATOM	8240	CG1	VAL	55	168.221	128.454	9.532	1.00	32.46	ES5	ATOM	8293	C	TYR	61	163.424	134.702	1.877	1.00	49.98	ES1
ATOM	8241	CG2	VAL	55	170.572	127.630	9.198	1.00	32.46	ES5	ATOM	8294	O	TYR	61	162.668	135.079	0.993	1.00	49.98	ES1
ATOM	8242	C	VAL	55	169.210	130.918	7.887	1.00	48.75	ES5	ATOM	8295	N	ALA	62	163.043	133.873	2.843	1.00	40.22	ES1
ATOM	8243	O	VAL	55	168.125	131.290	7.443	1.00	48.75	ES5	ATOM	8296	CA	ALA	62	161.675	133.365	2.894	1.00	40.22	ES1
ATOM	8244	ALA	56	170.066	131.741	8.481	1.00	46.49	ES5	ATOM	8297	CB	ALA	62	161.565	132.247	3.929	1.00	50.46	ES1	
ATOM	8245	CA	GLN	56	169.746	133.143	8.633	1.00	46.49	ES5	ATOM	8298	C	ALA	62	160.698	134.483	3.230	1.00	40.22	ES1
ATOM	8246	CB	GLN	56	170.913	133.900	9.258	1.00	36.56	ES5	ATOM	8299	O	ALA	62	159.612	134.577	2.648	1.00	40.22	ES1
ATOM	8247	CG	GLN	56	170.437	134.983	10.195	1.00	36.56	ES5	ATOM	8300	N	ARG	63	161.106	135.326	4.176	1.00	56.56	ES1
ATOM	8248	CD	GLN	56	169.310	134.488	11.089	1.00	36.56	ES5	ATOM	8301	CA	ARG	63	160.303	136.446	4.646	1.00	56.56	ES1
ATOM	8249	OE1	GLN	56	169.448	133.474	11.777	1.00	36.56	ES5	ATOM	8302	CB	ARG	63	161.109	137.260	5.639	1.00	70.67	ES1
ATOM	8250	NE2	GLN	56	168.185	135.198	11.078	1.00	36.56	ES5	ATOM	8303	CG	ARG	63	160.266	137.932	6.677	1.00	70.67	ES1
ATOM	8251	C	GLN	56	169.398	133.731	7.274	1.00	46.49	ES5	ATOM	8304	CD	ARG	63	161.018	137.937	7.983	1.00	70.67	ES1
ATOM	8252	O	GLN	56	168.370	134.380	7.125	1.00	46.49	ES5	ATOM	8305	NE	ARG	63	161.096	136.601	8.563	1.00	70.67	ES1
ATOM	8253	N	LYS	57	170.237	133.479	6.275	1.00	56.61	ES5	ATOM	8306	C2	ARG	63	162.104	136.176	9.313	1.00	70.67	ES1
ATOM	8254	CA	LYS	57	169.985	134.000	4.936	1.00	56.61	ES5	ATOM	8307	NH1	ARG	63	163.129	136.982	9.570	1.00	70.67	ES1
ATOM	8255	CB	LYS	57	171.148	133.624	3.997	1.00	56.47	ES5	ATOM	8308	NH2	ARG	63	162.081	134.951	9.819	1.00	70.67	ES1
ATOM	8256	CG	LYS	57	171.271	134.522	2.751	1.00	56.47	ES5	ATOM	8309	C	ARG	63	159.865	137.309	3.480	1.00	56.56	ES1
ATOM	8257	CD	LYS	57	172.593	134.310	2.002	1.00	56.47	ES5	ATOM	8310	O	ARG	63	158.783	137.890	3.494	1.00	56.56	ES1
ATOM	8258	CE	LYS	57	173.798	134.789	2.819	1.00	56.47	ES5	ATOM	8311	N	ARG	64	160.730	137.408	2.479	1.00	69.54	ES1
ATOM	8259	NZ	LYS	57	175.115	134.398	2.232	1.00	56.47	ES5	ATOM	8312	CA	ARG	64	160.410	138.145	1.270	1.00	69.54	ES1
ATOM	8260	C	LYS	57	168.645	133.478	4.391	1.00	56.61	ES5	ATOM	8313	CB	ARG	64	161.662	138.817	0.720	1.00	113.78	ES1
ATOM	8261	O	LYS	57	167.838	134.237	3.847	1.00	56.61	ES5	ATOM	8314	CG	ARG	64	162.338	139.663	1.775	1.00	113.78	ES1
ATOM	8262	N	ALA	58	168.401	132.182	4.551	1.00	36.24	ES5	ATOM	8315	CD	ARG	64	163.318	140.645	1.197	1.00	113.78	ES1
ATOM	8263	CA	ALA	58	167.156	131.594	4.075	1.00	36.24	ES5	ATOM	8316	NE	ARG	64	163.747	141.585	2.227	1.00	113.78	ES1
ATOM	8264	CB	ALA	58	167.132	130.102	4.384	1.00	71.96	ES5	ATOM	8317	C2	ARG	64	164.565	142.609	2.012	1.00	113.78	ES1
ATOM	8265	C	ALA	58	165.973	132.298	4.740	1.00	36.24	ES5	ATOM	8318	NH1	ARG	64	165.050	142.828	0.796	1.00	113.78	ES1
ATOM	8266	O	ALA	58	165.082	132.797	4.053	1.00	36.24	ES5	ATOM	8319	NH2	ARG	64	164.905	143.412	3.015	1.00	113.78	ES1
ATOM	8267	N	GLY	59	165.976	132.334	6.076	1.00	46.81	ES5	ATOM	8320	C	ARG	64	159.951	136.987	0.403	1.00	69.54	ES1
ATOM	8268	CA	GLY	59	164.909	132.988	6.815	1.00	46.81	ES5	ATOM	8321	O	ARG	64	160.550	135.913	0.459	1.00	69.54	ES1
ATOM	8269	C	GLY	59	164.548	134.301	6.146	1.00	46.81	ES5	ATOM	8322	N	ASN	65	158.881	137.180	-0.365	1.00	94.47	ES1
ATOM	8270	O	GLY	59	163.416	134.506	5.704	1.00	46.81	ES5	ATOM	8323	CA	ASN	65	158.317	136.104	-1.187	1.00	94.47	ES1
ATOM	8271	N	TYR	60	165.534	135.187	6.060	1.00	49.46	ES5	ATOM	8324	CB	ASN	65	159.429	135.202	-1.754	1.00	101.39	ES1
ATOM	8272	CA	TYR	60	165.377	136.493	5.429	1.00	49.46	ES5	ATOM	8325	CG	ASN	65	158.965	133.776	-2.001	1.00	101.39	ES1
ATOM	8273	CB	TYR	60	166.741	137.181	5.372	1.00	88.17	ES5	ATOM	8326	OD1	ASN	65	158.031	133.532	-2.766	1.00	101.39	ES1
ATOM	8274	CG	TYR	60	166.821	138.366	4.444	1.00	88.17	ES5	ATOM	8327	ND2	ASN	65	159.616	132.825	-1.341	1.00	101.39	ES1
ATOM	8275	CD1	TYR	60	166.097	139.531	4.690	1.00	88.17	ES5	ATOM	8328	C	ASN	65	157.357	135.288	-0.306	1.00	94.47	ES1
ATOM	8276	CE1	TYR	60	166.200	140.633	3.841	1.00	88.17	ES5	ATOM	8329	O	ASN	65	157.602	134.122	0.016	1.00	94.47	ES1
ATOM	8277	CD2	TYR	60	167.642	138.327	3.327	1.00	88.17	ES5	ATOM	8330	N	MET	66	156.267	135.929	0.098	1.00	52.20	ES1
ATOM	8278	CE2	TYR	60	167.752	139.415	2.473	1.00	88.17	ES5	ATOM	8331	CA	MET	66	155.267	135.287	0.935	1.00	52.20	ES1
ATOM	8279	C2	TYR	60	167.036	140.566	2.731	1.00	88.17	ES5	ATOM	8332	CB	MET	66	154.887	136.200	2.098	1.00	59.77	ES1
ATOM	8280	OH	TYR	60	167.187	141.645	1.881	1.00	88.17	ES5	ATOM	8333	CG	MET	66	156.039	136.618	2.978	1.00	59.77	ES1
ATOM	8281	C	TYR	60	164.799	136.359	4.020	1.00	49.46	ES5	ATOM	8334	SD	MET	66	156.329	135.507	4.365	1.00	59.77	ES1
ATOM	8282	O	TYR	60	163.903	137.107	3.628	1.00	49.46	ES5	ATOM	8335	CE	MET	66	154.701	135.463	5.063	1.00	59.77	ES1
ATOM	8283	N	TYR	61	165.325	135.402	3.261	1.00	49.98	ES5	ATOM	8336	C	MET	66	154.024	135.014	0.103	1.00	52.20	ES1
ATOM	8284	CA	TYR	61	164.866	135.166	1.899	1.00	49.98	ES5	ATOM	8337	O	MET	66	153.757	135.717	-0.877	1.00	52.20	ES1
ATOM	8285	CB	TYR	61	165.736	134.110	1.212	1.00	86.88	ES5	ATOM	8338	N	VAL	67	153.263	133.995	0.487	1.00	61.59	ES1
ATOM	8286	CG	TYR	61	166.958	134.643	0.499	1.00	86.88	ES5	ATOM	8339	CA	VAL	67	152.037	133.693	-0.229	1.00	61.59	ES1

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ATOM	8340	CB	VAL	67	152.083	132.304	-0.876	1.00	35.41	ES5	ATOM	8393	N	GLY	74	140.465	126.051	8.290	1.00	47.38	ES
ATOM	8341	CG1	VAL	67	150.802	132.032	-1.630	1.00	35.41	ES5	ATOM	8394	CA	GLY	74	141.647	125.221	8.482	1.00	47.38	ES
ATOM	8342	CG2	VAL	67	153.242	132.221	-1.819	1.00	35.41	ES5	ATOM	8395	C	GLY	74	142.024	124.331	7.310	1.00	47.38	ES
ATOM	8343	C	VAL	67	150.875	133.723	0.749	1.00	61.59	ES5	ATOM	8396	O	GLY	74	143.026	123.620	7.352	1.00	47.38	ES
ATOM	8344	O	VAL	67	151.023	133.365	1.915	1.00	61.59	ES5	ATOM	8397	N	THR	75	141.213	124.349	6.263	1.00	45.03	ES
ATOM	8345	N	GLU	68	149.729	134.222	0.268	1.00	50.65	ES5	ATOM	8398	CA	THR	75	141.514	123.549	5.101	1.00	45.03	ES
ATOM	8346	CA	GLU	68	148.517	134.318	1.074	1.00	50.65	ES5	ATOM	8399	CB	THR	75	140.484	122.442	4.876	1.00	57.41	ES
ATOM	8347	CB	GLU	68	147.768	135.616	0.754	1.00	100.6.43	ES5	ATOM	8400	CG1	THR	75	141.027	121.461	3.985	1.00	57.41	ES
ATOM	8348	CG	GLU	68	147.955	136.730	1.776	1.00	100.6.43	ES5	ATOM	8401	CG2	THR	75	139.225	123.008	4.264	1.00	57.41	ES
ATOM	8349	CD	GLU	68	149.412	137.031	2.064	1.00	100.6.43	ES5	ATOM	8402	C	THR	75	141.570	124.440	3.876	1.00	45.03	ES
ATOM	8350	OE1	GLU	68	150.176	137.329	1.120	1.00	100.6.43	ES5	ATOM	8403	O	THR	75	141.601	125.658	3.973	1.00	45.03	ES
ATOM	8351	OE2	GLU	68	149.794	136.972	3.246	1.00	100.6.43	ES5	ATOM	8404	N	ILE	76	141.543	123.816	2.716	1.00	51.55	ES
ATOM	8352	C	GLU	68	147.604	133.117	0.819	1.00	50.65	ES5	ATOM	8405	CA	ILE	76	141.680	124.533	1.475	1.00	51.55	ES
ATOM	8353	O	GLU	68	146.930	133.038	-0.208	1.00	50.65	ES5	ATOM	8406	CB	ILE	76	142.961	124.007	0.795	1.00	46.31	ES
ATOM	8354	N	VAL	69	147.583	132.193	1.773	1.00	51.78	ES5	ATOM	8407	CG2	ILE	76	142.732	123.633	-0.649	1.00	46.31	ES
ATOM	8355	CA	VAL	69	146.775	130.989	1.674	1.00	51.78	ES5	ATOM	8408	CG1	ILE	76	144.059	125.026	1.008	1.00	46.31	ES
ATOM	8356	CB	VAL	69	147.331	129.897	2.572	1.00	55.57	ES5	ATOM	8409	CD1	ILE	76	145.406	124.530	0.602	1.00	46.31	ES
ATOM	8357	CG1	VAL	69	146.853	128.536	2.081	1.00	55.57	ES5	ATOM	8410	C	ILE	76	140.457	124.464	0.569	1.00	51.55	ES
ATOM	8358	CG2	VAL	69	148.856	129.991	2.617	1.00	55.57	ES5	ATOM	8411	O	ILE	76	139.695	123.503	0.602	1.00	51.55	ES
ATOM	8359	C	VAL	69	145.336	131.242	2.090	1.00	51.78	ES5	ATOM	8412	N	PRO	77	140.249	125.504	-0.246	1.00	45.58	ES
ATOM	8360	O	VAL	69	145.076	131.669	3.210	1.00	51.78	ES5	ATOM	8413	CD	PRO	77	141.030	126.745	-0.227	1.00	45.58	ES
ATOM	8361	N	PRO	70	144.385	130.984	1.185	1.00	53.71	ES5	ATOM	8414	CA	PRO	77	139.132	125.619	-1.180	1.00	45.58	ES
ATOM	8362	CD	PRO	70	144.694	130.807	-0.238	1.00	45.95	ES5	ATOM	8415	CB	PRO	77	139.323	126.999	-1.786	1.00	19.53	ES
ATOM	8363	CA	PRO	70	142.940	131.152	1.367	1.00	53.71	ES5	ATOM	8416	CG	PRO	77	140.757	127.274	-1.589	1.00	19.53	ES
ATOM	8364	CB	PRO	70	142.394	131.031	-0.046	1.00	45.95	ES5	ATOM	8417	C	PRO	77	138.965	124.556	-2.241	1.00	45.58	ES
ATOM	8365	CG	PRO	70	143.533	131.495	-0.877	1.00	45.95	ES5	ATOM	8418	O	PRO	77	137.840	124.272	-2.640	1.00	44.58	ES
ATOM	8366	C	PRO	70	142.330	130.097	2.259	1.00	53.71	ES5	ATOM	8419	N	HIS	78	140.050	123.967	-2.718	1.00	44.58	ES
ATOM	8367	O	PRO	70	141.387	129.427	1.848	1.00	53.71	ES5	ATOM	8420	CA	HIS	78	139.910	122.939	-3.746	1.00	44.58	ES
ATOM	8368	N	LEU	71	142.854	129.950	3.469	1.00	71.40	ES5	ATOM	8421	CG	HIS	78	139.433	123.562	-5.057	1.00	47.96	ES
ATOM	8369	CA	LEU	71	142.348	128.953	4.408	1.00	71.40	ES5	ATOM	8422	CB	HIS	78	140.348	124.618	-5.590	1.00	47.96	ES
ATOM	8370	CB	LEU	71	143.115	129.048	5.726	1.00	52.19	ES5	ATOM	8423	CG	HIS	78	140.142	125.932	-5.838	1.00	47.96	ES
ATOM	8371	CG1	LEU	71	144.571	128.595	5.622	1.00	52.19	ES5	ATOM	8424	ND1	HIS	78	141.656	124.362	-5.944	1.00	47.96	ES
ATOM	8372	CD1	LEU	71	145.365	128.981	6.863	1.00	52.19	ES5	ATOM	8425	CE1	HIS	78	142.215	125.473	-6.387	1.00	47.96	ES
ATOM	8373	CD2	LEU	71	144.584	127.091	4.406	1.00	52.19	ES5	ATOM	8426	NE2	HIS	78	141.318	126.440	-6.334	1.00	47.96	ES
ATOM	8374	C	LEU	71	140.855	129.076	4.681	1.00	71.40	ES5	ATOM	8427	C	HIS	78	141.208	122.205	-3.982	1.00	44.58	ES
ATOM	8375	O	LEU	71	140.388	130.098	5.160	1.00	71.40	ES5	ATOM	8428	O	HIS	78	142.242	122.586	-3.442	1.00	44.58	ES
ATOM	8376	N	GLN	72	140.104	128.033	4.361	1.00	52.61	ES5	ATOM	8429	N	GLU	79	141.160	121.152	-4.792	1.00	45.98	ES
ATOM	8377	CA	GLN	72	138.674	128.036	4.612	1.00	52.61	ES5	ATOM	8430	CA	GLU	79	142.359	120.376	-5.068	1.00	45.98	ES
ATOM	8378	CB	GLN	72	137.885	127.719	3.345	1.00	81.89	ES5	ATOM	8431	CB	GLU	79	142.015	118.923	-5.407	1.00	46.54	ES
ATOM	8379	CG	GLN	72	138.138	128.659	2.192	1.00	81.89	ES5	ATOM	8432	CG	GLU	79	140.758	118.383	-4.763	1.00	46.54	ES
ATOM	8380	CD	GLN	72	137.141	128.443	1.065	1.00	81.89	ES5	ATOM	8433	CG	GLU	79	139.523	118.652	-5.598	1.00	46.54	ES
ATOM	8381	OE1	GLN	72	136.747	127.313	0.794	1.00	81.89	ES5	ATOM	8434	OE1	GLU	79	139.165	119.836	-5.769	1.00	46.54	ES
ATOM	8382	NE2	GLN	72	136.760	129.524	0.394	1.00	81.89	ES5	ATOM	8435	OE2	GLU	79	138.912	117.677	-6.089	1.00	46.54	ES
ATOM	8383	C	GLN	72	138.405	126.964	5.656	1.00	52.61	ES5	ATOM	8436	C	GLU	79	143.135	120.969	-6.227	1.00	45.98	ES
ATOM	8384	O	GLN	72	138.271	125.784	6.910	1.00	52.61	ES5	ATOM	8437	O	GLU	79	142.557	121.354	-7.238	1.00	45.98	ES
ATOM	8385	N	ASN	73	138.345	127.382	6.910	1.00	56.27	ES5	ATOM	8438	N	ILE	80	144.447	121.059	-6.057	1.00	46.54	ES
ATOM	8386	CA	ASN	73	138.089	126.469	8.012	1.00	56.27	ES5	ATOM	8439	CA	ILE	80	145.327	121.548	-7.110	1.00	46.54	ES
ATOM	8387	CB	ASN	73	136.794	125.691	7.764	1.00	67.31	ES5	ATOM	8440	CB	ILE	80	146.104	122.864	-6.763	1.00	53.30	ES
ATOM	8388	CG	ASN	73	136.255	125.033	9.025	1.00	67.31	ES5	ATOM	8441	CG2	ILE	80	145.817	123.966	-7.778	1.00	53.30	ES
ATOM	8389	OD1	ASN	73	135.288	124.264	8.974	1.00	67.31	ES5	ATOM	8442	CG1	ILE	80	145.825	123.249	-5.326	1.00	53.30	ES
ATOM	8390	ND2	ASN	73	136.874	125.337	10.168	1.00	67.31	ES5	ATOM	8443	C	ILE	80	146.412	122.269	-4.363	1.00	46.54	ES
ATOM	8391	C	ASN	73	139.254	125.502	8.197	1.00	56.27	ES5	ATOM	8444	C	ILE	80	146.402	120.500	-7.210	1.00	46.54	ES
ATOM	8392	O	ASN	73	139.058	124.284	8.249	1.00	56.27	ES5	ATOM	8445	O	ILE	80	146.764	119.876	-6.207	1.00	46.54	ES

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ATOM	8446	N	GLU	81	146.892	120.306	-8.426	1.00	40.31	ES5	ATOM	8499	CB	LVS	88	153.802	115.805	-9.634	1.00	47.66	ES
ATOM	8447	CA	GLU	81	147.994	119.404	-8.673	1.00	40.31	ES5	ATOM	8500	CG	LVS	88	152.421	116.133	-10.123	1.00	47.66	ES
ATOM	8448	CB	GLU	81	147.590	118.267	-9.606	1.00	115.35	ES5	ATOM	8501	CD	LVS	88	151.874	115.046	-11.024	1.00	47.66	ES
ATOM	8449	CG	GLU	81	146.965	117.097	-8.881	1.00	115.35	ES5	ATOM	8502	CE	LVS	88	150.568	115.510	-11.645	1.00	47.66	ES
ATOM	8450	CD	GLU	81	146.777	115.898	-9.779	1.00	115.35	ES5	ATOM	8503	CE	LVS	88	149.618	114.381	-11.878	1.00	47.66	ES
ATOM	8451	CE	GLU	81	147.737	115.544	-10.496	1.00	115.35	ES5	ATOM	8504	C	LVS	88	153.877	116.834	-7.367	1.00	40.04	ES
ATOM	8452	OE2	GLU	81	145.676	115.306	-9.762	1.00	115.35	ES5	ATOM	8505	C	LVS	88	154.155	115.888	-6.646	1.00	40.04	ES
ATOM	8453	C	GLU	81	148.996	120.319	-9.346	1.00	40.31	ES5	ATOM	8506	N	ILE	89	153.118	117.843	-6.950	1.00	44.02	ES
ATOM	8454	O	GLU	81	148.649	121.066	-10.258	1.00	40.31	ES5	ATOM	8507	CA	ILE	89	152.535	117.832	-5.609	1.00	44.02	ES
ATOM	8455	N	VAL	82	150.233	120.304	-8.887	1.00	45.42	ES5	ATOM	8508	CB	ILE	89	152.985	119.075	-4.768	1.00	40.07	ES
ATOM	8456	CB	VAL	82	151.205	121.166	-9.514	1.00	45.42	ES5	ATOM	8509	CG2	ILE	89	152.000	120.210	-3.284	1.00	40.07	ES
ATOM	8457	CB	VAL	82	151.455	122.406	-8.661	1.00	29.50	ES5	ATOM	8510	CG1	ILE	89	153.153	118.688	-3.284	1.00	40.07	ES
ATOM	8458	CG1	VAL	82	152.778	123.032	-9.044	1.00	29.50	ES5	ATOM	8511	CD1	ILE	89	151.984	117.977	-2.653	1.00	40.07	ES
ATOM	8459	CG2	VAL	82	150.326	123.404	-8.859	1.00	29.50	ES5	ATOM	8512	C	ILE	89	151.030	117.841	-5.785	1.00	44.02	ES
ATOM	8460	C	VAL	82	152.516	120.466	-9.774	1.00	45.42	ES5	ATOM	8513	N	ILE	89	150.509	118.474	-6.698	1.00	44.02	ES
ATOM	8461	O	VAL	82	153.060	119.802	-8.895	1.00	45.42	ES5	ATOM	8514	N	VAL	90	150.335	117.114	-4.925	1.00	48.31	ES
ATOM	8462	N	GLU	83	153.017	120.610	-10.994	1.00	47.14	ES5	ATOM	8515	CA	VAL	90	148.885	117.059	-4.991	1.00	48.31	ES
ATOM	8463	CA	GLU	83	154.293	119.013	-11.359	1.00	47.14	ES5	ATOM	8516	CB	VAL	90	148.385	115.671	-5.331	1.00	23.32	ES
ATOM	8464	CB	GLU	83	154.239	119.396	-12.749	1.00	90.68	ES5	ATOM	8517	CG1	VAL	90	146.869	115.651	-5.179	1.00	23.32	ES
ATOM	8465	CG	GLU	83	153.535	118.078	-12.837	1.00	90.68	ES5	ATOM	8518	CG2	VAL	90	148.821	115.279	-6.741	1.00	23.32	ES
ATOM	8466	CD	GLU	83	153.820	117.391	-14.150	1.00	90.68	ES5	ATOM	8519	C	VAL	90	148.250	117.415	-3.663	1.00	48.31	ES
ATOM	8467	OE1	GLU	83	155.007	117.086	-14.407	1.00	90.68	ES5	ATOM	8520	O	VAL	90	148.558	116.804	-2.636	1.00	48.31	ES
ATOM	8468	OE2	GLU	83	152.863	117.164	-14.923	1.00	90.68	ES5	ATOM	8521	N	LEU	91	147.349	118.389	-2.692	1.00	41.75	ES
ATOM	8469	C	GLU	83	155.357	121.085	-11.380	1.00	47.14	ES5	ATOM	8522	CA	LEU	91	146.651	118.808	-2.484	1.00	41.75	ES
ATOM	8470	O	GLU	83	155.156	122.145	-11.956	1.00	47.14	ES5	ATOM	8523	CB	LEU	91	146.970	120.270	-2.157	1.00	25.10	ES
ATOM	8471	N	PHE	84	156.486	120.817	-10.745	1.00	37.80	ES5	ATOM	8524	CG	LEU	91	148.455	120.651	-1.136	1.00	25.10	ES
ATOM	8472	CA	PHE	84	157.595	121.758	-10.752	1.00	37.80	ES5	ATOM	8525	CD1	LEU	91	149.146	119.876	-1.031	1.00	25.10	ES
ATOM	8473	CB	PHE	84	157.763	122.421	-9.407	1.00	27.01	ES5	ATOM	8526	CD2	LEU	91	145.143	118.618	-2.661	1.00	41.75	ES
ATOM	8474	CG	PHE	84	158.776	123.497	-9.406	1.00	27.01	ES5	ATOM	8527	C	LEU	91	144.521	118.089	-1.616	1.00	32.54	ES
ATOM	8475	CD1	PHE	84	158.469	124.758	-9.897	1.00	27.01	ES5	ATOM	8528	O	LEU	91	144.564	118.932	-3.709	1.00	41.75	ES
ATOM	8476	CD2	PHE	84	160.046	123.264	-8.912	1.00	27.01	ES5	ATOM	8529	N	LVS	92	144.521	118.089	-1.616	1.00	32.54	ES
ATOM	8477	CE1	PHE	84	159.423	125.788	-9.892	1.00	27.01	ES5	ATOM	8530	CA	LVS	92	143.092	117.821	-1.599	1.00	61.49	ES
ATOM	8478	CE2	PHE	84	161.012	124.288	-8.902	1.00	27.01	ES5	ATOM	8531	CB	LVS	92	142.876	116.324	-1.717	1.00	61.49	ES
ATOM	8479	C2	PHE	84	160.693	125.553	-9.394	1.00	27.01	ES5	ATOM	8532	CG	LVS	92	141.523	115.908	-2.177	1.00	61.49	ES
ATOM	8480	C	PHE	84	158.800	120.892	-11.041	1.00	37.80	ES5	ATOM	8533	CD	LVS	92	141.519	114.408	-2.364	1.00	61.49	ES
ATOM	8481	O	PHE	84	159.257	120.143	-10.177	1.00	37.80	ES5	ATOM	8534	CE	LVS	92	140.475	113.992	-3.373	1.00	61.49	ES
ATOM	8482	N	GLY	85	159.307	120.984	-12.264	1.00	27.68	ES5	ATOM	8535	N2	LVS	92	140.620	112.557	-3.711	1.00	61.49	ES
ATOM	8483	CA	GLY	85	160.425	120.151	-12.641	1.00	27.68	ES5	ATOM	8536	C	LVS	92	142.557	118.314	-0.260	1.00	32.54	ES
ATOM	8484	C	GLY	85	159.808	118.787	-12.820	1.00	27.68	ES5	ATOM	8537	O	LVS	92	143.154	118.058	-0.785	1.00	32.54	ES
ATOM	8485	O	GLY	85	158.813	118.642	-13.531	1.00	27.68	ES5	ATOM	8538	N	PRO	93	141.440	119.052	-0.271	1.00	32.47	ES
ATOM	8486	N	ALA	86	160.383	117.782	-12.174	1.00	47.26	ES5	ATOM	8539	CD	PRO	93	140.708	119.591	-1.432	1.00	17.79	ES
ATOM	8487	CA	ALA	86	159.844	116.436	-12.272	1.00	47.26	ES5	ATOM	8540	CA	PRO	93	140.871	119.552	-0.988	1.00	32.47	ES
ATOM	8488	CB	ALA	86	160.967	115.443	-12.457	1.00	58.94	ES5	ATOM	8541	CB	PRO	93	139.839	120.571	-0.512	1.00	17.79	ES
ATOM	8489	C	ALA	86	159.064	116.132	-10.992	1.00	47.26	ES5	ATOM	8542	CG	PRO	93	139.414	120.040	-0.807	1.00	17.79	ES
ATOM	8490	O	ALA	86	158.603	115.013	-10.786	1.00	47.26	ES5	ATOM	8543	C	PRO	93	140.259	118.445	-1.859	1.00	32.47	ES
ATOM	8491	N	SER	87	158.925	117.146	-10.141	1.00	37.64	ES5	ATOM	8544	O	PRO	93	139.748	117.447	-1.347	1.00	32.47	ES
ATOM	8492	CA	SER	87	158.212	117.023	-8.881	1.00	37.64	ES5	ATOM	8545	N	ALA	94	140.321	118.620	-3.175	1.00	53.23	ES
ATOM	8493	CB	SER	87	158.855	117.909	-7.828	1.00	35.30	ES5	ATOM	8546	CA	ALA	94	139.774	117.625	-4.095	1.00	53.23	ES
ATOM	8494	OG	SER	87	160.172	117.480	-7.560	1.00	35.30	ES5	ATOM	8547	CB	ALA	94	140.905	116.831	-4.744	1.00	29.80	ES
ATOM	8495	C	SER	87	156.778	117.451	-9.093	1.00	37.64	ES5	ATOM	8548	C	ALA	94	138.898	118.241	-5.179	1.00	53.23	ES
ATOM	8496	O	SER	87	156.517	118.510	-9.666	1.00	37.64	ES5	ATOM	8549	O	ALA	94	138.959	119.447	-5.434	1.00	53.23	ES
ATOM	8497	N	LVS	88	155.853	116.622	-8.632	1.00	40.04	ES5	ATOM	8550	N	ALA	95	138.085	117.402	-5.815	1.00	47.83	ES
ATOM	8498	CA	LVS	88	154.438	116.892	-8.773	1.00	40.04	ES5	ATOM	8551	CA	ALA	95	137.214	117.863	-6.883	1.00	47.83	ES

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ATOM	8552	CB	ALA	95	136.128	116.857	7.124	1.00	43.50	ESS	ATOM	8605	O	ALA	104	156.727	118.603	5.417	1.00	46.99	ESS
ATOM	8553	C	ALA	95	138.043	118.048	8.143	1.00	47.83	ESS	ATOM	8606	N	VAL	105	158.399	117.878	4.133	1.00	36.25	ESS
ATOM	8554	ALA	95	139.248	117.802	8.146	1.00	47.83	ESS	ATOM	8607	CA	VAL	105	158.475	119.130	3.388	1.00	36.25	ESS	
ATOM	8555	N	PRO	96	137.422	118.524	9.226	1.00	38.90	ESS	ATOM	8608	CB	VAL	105	159.218	118.931	2.051	1.00	28.40	ESS
ATOM	8556	CD	PRO	96	136.251	119.409	9.243	1.00	33.73	ESS	ATOM	8609	CG1	VAL	105	159.398	120.279	1.338	1.00	28.40	ESS
ATOM	8557	CA	PRO	96	138.205	118.702	10.449	1.00	38.90	ESS	ATOM	8610	CG2	VAL	105	160.574	118.264	2.311	1.00	28.40	ESS
ATOM	8558	CB	PRO	96	137.342	119.639	11.270	1.00	33.73	ESS	ATOM	8611	C	VAL	105	157.093	119.740	3.133	1.00	36.25	ESS
ATOM	8559	CG	PRO	96	136.685	120.456	10.229	1.00	33.73	ESS	ATOM	8612	O	VAL	105	156.810	120.846	3.585	1.00	36.25	ESS
ATOM	8560	C	PRO	96	138.428	117.371	11.141	1.00	38.90	ESS	ATOM	8613	N	PRO	106	156.212	119.035	2.410	1.00	40.52	ESS
ATOM	8561	O	PRO	96	137.584	116.478	11.059	1.00	38.90	ESS	ATOM	8614	CD	PRO	106	156.376	117.750	1.713	1.00	35.97	ESS
ATOM	8562	GLY	97	139.569	117.241	11.813	1.00	73.47	ESS	ATOM	8615	CA	PRO	106	154.879	119.599	2.161	1.00	40.52	ESS	
ATOM	8563	CA	GLY	97	139.886	116.009	12.510	1.00	73.47	ESS	ATOM	8616	CB	PRO	106	154.143	118.450	1.483	1.00	35.97	ESS
ATOM	8564	C	GLY	97	140.702	115.084	11.633	1.00	73.47	ESS	ATOM	8617	CG	PRO	106	155.226	117.778	0.735	1.00	35.97	ESS
ATOM	8565	O	GLY	97	141.120	114.005	12.058	1.00	73.47	ESS	ATOM	8618	C	PRO	106	154.180	120.024	3.459	1.00	40.52	ESS
ATOM	8566	N	THR	98	140.924	115.515	10.396	1.00	37.12	ESS	ATOM	8619	O	PRO	106	153.541	121.074	3.527	1.00	40.52	ESS
ATOM	8567	CA	THR	98	141.698	114.740	9.432	1.00	37.12	ESS	ATOM	8620	N	ARG	107	154.302	119.190	4.484	1.00	49.63	ESS
ATOM	8568	CB	THR	98	141.372	115.176	7.992	1.00	29.64	ESS	ATOM	8621	CA	ARG	107	153.684	119.462	5.773	1.00	49.63	ESS
ATOM	8569	CG1	THR	98	139.980	114.960	7.726	1.00	29.64	ESS	ATOM	8622	CB	ARG	107	153.969	118.299	6.735	1.00	66.74	ESS
ATOM	8570	CG2	THR	98	142.181	114.375	7.006	1.00	29.64	ESS	ATOM	8623	CG	ARG	107	154.035	118.681	8.196	1.00	66.74	ESS
ATOM	8571	C	THR	98	143.205	114.895	9.684	1.00	37.12	ESS	ATOM	8624	CD	ARG	107	154.428	117.501	9.020	1.00	66.74	ESS
ATOM	8572	O	THR	98	143.951	113.918	9.652	1.00	37.12	ESS	ATOM	8625	NE	ARG	107	153.305	116.592	9.178	1.00	66.74	ESS
ATOM	8573	N	GLY	99	143.638	116.124	9.953	1.00	47.31	ESS	ATOM	8626	CZ	ARG	107	153.403	115.266	9.118	1.00	66.74	ESS
ATOM	8574	CA	GLY	99	145.042	116.387	10.213	1.00	47.31	ESS	ATOM	8627	NH1	ARG	107	154.588	114.698	8.894	1.00	66.74	ESS
ATOM	8575	C	GLY	99	145.759	116.806	8.947	1.00	47.31	ESS	ATOM	8628	NH2	ARG	107	152.320	114.504	9.294	1.00	66.74	ESS
ATOM	8576	O	GLY	99	145.198	116.739	7.846	1.00	47.31	ESS	ATOM	8629	C	ARG	107	154.169	120.782	6.364	1.00	49.63	ESS
ATOM	8577	N	VAL	100	146.993	117.274	9.092	1.00	36.91	ESS	ATOM	8630	O	ARG	107	153.390	121.728	6.514	1.00	49.63	ESS
ATOM	8578	CA	VAL	100	147.766	117.657	7.923	1.00	36.91	ESS	ATOM	8631	N	ALA	108	155.457	120.835	6.689	1.00	33.03	ESS
ATOM	8579	CB	VAL	100	148.815	118.721	8.240	1.00	39.32	ESS	ATOM	8632	CA	ALA	108	156.080	122.016	7.271	1.00	33.03	ESS
ATOM	8580	CG1	VAL	100	149.486	119.164	6.951	1.00	39.32	ESS	ATOM	8633	CB	ALA	108	157.580	121.926	7.115	1.00	46.75	ESS
ATOM	8581	CG2	VAL	100	148.169	119.907	8.946	1.00	39.32	ESS	ATOM	8634	C	ALA	108	155.576	123.327	6.668	1.00	33.03	ESS
ATOM	8582	C	VAL	100	148.474	116.379	7.560	1.00	36.91	ESS	ATOM	8635	O	ALA	108	155.469	124.338	7.354	1.00	33.03	ESS
ATOM	8583	O	VAL	100	149.469	116.012	8.189	1.00	36.91	ESS	ATOM	8636	N	ILE	109	155.288	123.321	5.380	1.00	41.85	ESS
ATOM	8584	N	ILE	101	147.940	115.681	6.565	1.00	31.70	ESS	ATOM	8637	CA	ILE	109	154.787	124.517	4.747	1.00	41.85	ESS
ATOM	8585	CA	ILE	101	148.509	114.408	6.122	1.00	31.70	ESS	ATOM	8638	CB	ILE	109	154.925	124.429	3.236	1.00	27.64	ESS
ATOM	8586	CB	ILE	101	147.383	113.408	5.859	1.00	40.79	ESS	ATOM	8639	CG2	ILE	109	154.047	125.482	2.568	1.00	27.64	ESS
ATOM	8587	CG2	ILE	101	147.914	112.110	5.268	1.00	40.79	ESS	ATOM	8640	CG1	ILE	109	156.403	124.558	2.868	1.00	27.64	ESS
ATOM	8588	CG1	ILE	101	146.700	113.131	7.184	1.00	40.79	ESS	ATOM	8641	CD1	ILE	109	156.688	124.329	1.409	1.00	27.64	ESS
ATOM	8589	CD1	ILE	101	145.491	112.279	7.031	1.00	40.79	ESS	ATOM	8642	C	ILE	109	153.324	124.670	5.112	1.00	41.85	ESS
ATOM	8590	C	ILE	101	149.386	114.576	4.892	1.00	31.70	ESS	ATOM	8643	O	ILE	109	152.923	125.684	4.799	1.00	41.85	ESS
ATOM	8591	O	ILE	101	148.914	114.564	3.755	1.00	31.70	ESS	ATOM	8644	N	LEU	110	152.531	123.656	4.799	1.00	32.33	ESS
ATOM	8592	N	ALA	102	150.679	114.721	5.138	1.00	37.24	ESS	ATOM	8645	CA	LEU	110	151.105	123.676	5.092	1.00	32.33	ESS
ATOM	8593	CA	ALA	102	151.603	114.934	4.050	1.00	37.24	ESS	ATOM	8646	CB	LEU	110	150.502	122.313	4.750	1.00	15.90	ESS
ATOM	8594	CB	ALA	102	151.536	116.397	3.614	1.00	33.32	ESS	ATOM	8647	CG	LEU	110	150.508	122.034	3.249	1.00	15.90	ESS
ATOM	8595	C	ALA	102	153.027	114.582	4.450	1.00	37.24	ESS	ATOM	8648	CG1	LEU	110	150.095	120.601	2.989	1.00	15.90	ESS
ATOM	8596	O	ALA	102	153.333	114.429	5.638	1.00	37.24	ESS	ATOM	8649	CD2	LEU	110	149.593	123.022	2.554	1.00	15.90	ESS
ATOM	8597	N	GLY	103	153.890	114.451	3.443	1.00	44.04	ESS	ATOM	8650	C	LEU	110	150.777	124.060	6.543	1.00	32.33	ESS
ATOM	8598	CA	GLY	103	155.282	114.171	4.398	1.00	44.04	ESS	ATOM	8651	O	LEU	110	149.796	124.765	6.794	1.00	32.33	ESS
ATOM	8599	C	GLY	103	155.846	115.403	4.398	1.00	44.04	ESS	ATOM	8652	N	GLU	111	151.597	123.605	7.489	1.00	44.06	ESS
ATOM	8600	O	GLY	103	155.300	116.489	4.241	1.00	44.04	ESS	ATOM	8653	CA	GLU	111	151.381	123.925	8.897	1.00	44.06	ESS
ATOM	8601	N	ALA	104	156.934	115.254	5.140	1.00	46.99	ESS	ATOM	8654	CB	GLU	111	152.362	123.161	9.780	1.00	99.68	ESS
ATOM	8602	CA	ALA	104	157.517	116.380	5.850	1.00	46.99	ESS	ATOM	8655	CD	GLU	111	152.361	121.669	9.534	1.00	99.68	ESS
ATOM	8603	CB	ALA	104	158.998	116.036	6.270	1.00	23.42	ESS	ATOM	8656	CG	GLU	111	152.769	120.876	10.761	1.00	99.68	ESS
ATOM	8604	C	ALA	104	157.517	117.718	5.107	1.00	46.99	ESS	ATOM	8657	CG1	GLU	111	153.840	121.166	11.338	1.00	99.68	ESS

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ATOM	8658	OE2	GLU	111	152.011	119.956	11.144	1.00	99.68	ES5	ATOM	8711	CG	LEU	119	143.013	114.007	2.467	1.00	45.05	ES
ATOM	8659	C	GLU	111	151.543	125.422	9.128	1.00	44.06	ES5	ATOM	8712	CD1	LEU	119	141.912	113.218	1.786	1.00	45.05	ES
ATOM	8660	OE	GLU	111	150.605	126.101	9.533	1.00	44.06	ES5	ATOM	8713	CD2	LEU	119	143.764	113.120	3.448	1.00	45.05	ES
ATOM	8661	N	LEU	112	152.731	125.947	8.872	1.00	39.88	ES5	ATOM	8714	C	LEU	119	146.202	115.684	1.032	1.00	44.13	ES
ATOM	8662	CA	LEU	112	152.940	127.369	9.059	1.00	39.88	ES5	ATOM	8715	O	LEU	119	145.960	116.533	0.171	1.00	44.13	ES
ATOM	8663	CB	LEU	112	154.375	127.767	8.718	1.00	20.05	ES5	ATOM	8716	N	THR	120	147.362	115.059	1.123	1.00	48.94	ES
ATOM	8664	CG	LEU	112	155.453	126.967	9.451	1.00	20.05	ES5	ATOM	8717	CA	THR	120	148.483	115.386	0.271	1.00	48.94	ES
ATOM	8665	CD1	LEU	112	156.766	127.716	9.387	1.00	20.05	ES5	ATOM	8718	CB	THR	120	149.599	115.941	1.165	1.00	41.31	ES
ATOM	8666	CD2	LEU	112	155.051	126.758	10.899	1.00	20.05	ES5	ATOM	8719	OG1	THR	120	149.603	117.365	1.066	1.00	41.31	ES
ATOM	8667	C	LEU	112	151.979	128.108	8.151	1.00	39.88	ES5	ATOM	8720	CG2	THR	120	150.975	115.341	0.820	1.00	41.31	ES
ATOM	8668	OE	LEU	112	151.614	129.253	8.411	1.00	39.88	ES5	ATOM	8721	C	THR	120	149.006	114.198	-0.494	1.00	48.94	ES
ATOM	8669	N	ALA	113	151.561	127.462	7.075	1.00	45.54	ES5	ATOM	8722	O	THR	120	148.563	113.083	-0.276	1.00	48.94	ES
ATOM	8670	CA	ALA	113	150.644	128.129	6.174	1.00	45.54	ES5	ATOM	8723	N	LVS	121	149.948	114.453	-1.398	1.00	57.68	ES
ATOM	8671	CB	ALA	113	150.437	127.295	4.923	1.00	59.65	ES5	ATOM	8724	CA	LVS	121	150.599	113.396	-2.154	1.00	57.68	ES
ATOM	8672	C	ALA	113	149.329	128.330	6.912	1.00	45.54	ES5	ATOM	8725	CB	LVS	121	149.591	112.612	-2.972	1.00	42.52	ES
ATOM	8673	O	ALA	113	148.457	129.073	6.471	1.00	45.54	ES5	ATOM	8726	CG	LVS	121	150.215	111.393	-3.636	1.00	42.52	ES
ATOM	8674	N	GLY	114	149.190	127.673	8.052	1.00	44.69	ES5	ATOM	8727	CD	LVS	121	151.132	110.651	-2.683	1.00	42.52	ES
ATOM	8675	CA	GLY	114	147.958	127.809	8.797	1.00	44.69	ES5	ATOM	8728	CE	LVS	121	151.612	109.373	-3.311	1.00	42.52	ES
ATOM	8676	C	GLY	114	146.992	126.684	8.479	1.00	44.69	ES5	ATOM	8729	NZ	LVS	121	152.780	108.822	-2.569	1.00	42.52	ES
ATOM	8677	O	GLY	114	145.937	126.570	9.101	1.00	44.69	ES5	ATOM	8730	C	LVS	121	151.703	113.872	-3.074	1.00	57.68	ES
ATOM	8678	N	VAL	115	147.331	125.854	7.500	1.00	52.58	ES5	ATOM	8731	O	LVS	121	151.471	114.677	-3.973	1.00	57.68	ES
ATOM	8679	CA	VAL	115	146.452	124.741	7.179	1.00	52.58	ES5	ATOM	8732	N	GLU	122	152.911	113.372	-2.834	1.00	45.69	ES
ATOM	8680	CB	VAL	115	146.904	123.943	5.967	1.00	33.03	ES5	ATOM	8733	CA	GLU	122	154.072	113.708	-3.658	1.00	45.69	ES
ATOM	8681	CG1	VAL	115	145.972	122.742	5.805	1.00	33.03	ES5	ATOM	8734	CB	GLU	122	155.356	113.710	-2.829	1.00	54.94	ES
ATOM	8682	CG2	VAL	115	146.892	124.828	4.720	1.00	33.03	ES5	ATOM	8735	CG	GLU	122	155.498	114.870	-1.901	1.00	54.94	ES
ATOM	8683	C	VAL	115	146.464	123.804	8.357	1.00	52.58	ES5	ATOM	8736	CD	GLU	122	156.735	114.759	-1.037	1.00	54.94	ES
ATOM	8684	O	VAL	115	147.445	123.716	9.084	1.00	52.58	ES5	ATOM	8737	OE1	GLU	122	157.836	114.544	-1.593	1.00	54.94	ES
ATOM	8685	N	THR	116	145.380	123.078	8.535	1.00	50.81	ES5	ATOM	8738	OE2	GLU	122	156.612	114.895	0.202	1.00	54.94	ES
ATOM	8686	CA	THR	116	145.309	122.191	9.670	1.00	50.81	ES5	ATOM	8739	C	GLU	122	154.222	112.687	-4.785	1.00	45.69	ES
ATOM	8687	CB	THR	116	144.534	122.901	10.798	1.00	33.19	ES5	ATOM	8740	N	LEU	122	154.270	113.181	-6.003	1.00	40.47	ES
ATOM	8688	OG1	THR	116	144.906	122.337	12.056	1.00	33.19	ES5	ATOM	8741	CA	LEU	123	154.422	112.289	-7.120	1.00	40.47	ES
ATOM	8689	CG2	THR	116	143.028	122.774	10.584	1.00	33.19	ES5	ATOM	8742	CB	LEU	123	153.132	112.297	-7.944	1.00	30.12	ES
ATOM	8690	C	THR	116	144.665	120.854	9.300	1.00	50.81	ES5	ATOM	8743	CB	LEU	123	153.132	112.297	-7.944	1.00	30.12	ES
ATOM	8691	O	THR	116	144.768	119.877	10.037	1.00	50.81	ES5	ATOM	8744	CG1	LEU	123	151.936	111.628	-7.246	1.00	30.12	ES
ATOM	8692	N	ASP	117	144.021	120.816	8.141	1.00	52.62	ES5	ATOM	8745	CD1	LEU	123	150.835	111.417	-6.654	1.00	30.12	ES
ATOM	8693	CA	ASP	117	143.375	119.604	7.679	1.00	52.62	ES5	ATOM	8746	CD2	LEU	123	152.331	110.283	-6.254	1.00	40.47	ES
ATOM	8694	CB	ASP	117	141.904	119.591	8.113	1.00	88.85	ES5	ATOM	8747	C	LEU	123	155.638	112.738	-7.925	1.00	40.47	ES
ATOM	8695	CG	ASP	117	141.904	119.591	8.113	1.00	88.85	ES5	ATOM	8748	O	LEU	123	156.100	113.862	-7.755	1.00	40.47	ES
ATOM	8696	OD1	ASP	117	141.727	119.381	9.603	1.00	88.85	ES5	ATOM	8749	N	GLY	124	156.176	111.858	-8.767	1.00	35.18	ES
ATOM	8697	OD2	ASP	117	141.904	118.240	10.071	1.00	88.85	ES5	ATOM	8750	CA	GLY	124	157.342	112.207	-9.567	1.00	35.18	ES
ATOM	8698	C	ASP	117	143.427	119.444	6.160	1.00	52.62	ES5	ATOM	8751	C	GLY	124	158.607	112.366	-8.739	1.00	35.18	ES
ATOM	8699	O	ASP	117	142.659	120.110	5.455	1.00	52.62	ES5	ATOM	8752	O	GLY	124	158.819	111.654	-7.755	1.00	35.18	ES
ATOM	8700	N	ILE	118	144.343	118.598	5.662	1.00	43.63	ES5	ATOM	8753	N	SER	125	159.464	113.296	-9.138	1.00	40.34	ES
ATOM	8701	CA	ILE	118	144.424	118.284	4.226	1.00	43.63	ES5	ATOM	8754	CA	SER	125	160.691	113.537	-8.396	1.00	40.34	ES
ATOM	8702	CB	ILE	118	145.285	119.223	3.364	1.00	44.29	ES5	ATOM	8755	CB	SER	125	161.513	114.638	-9.047	1.00	46.25	ES
ATOM	8703	CG2	ILE	118	144.412	120.127	2.551	1.00	44.29	ES5	ATOM	8756	OG	SER	125	162.427	115.166	-8.106	1.00	46.25	ES
ATOM	8704	CG1	ILE	118	146.290	119.970	4.201	1.00	44.29	ES5	ATOM	8757	C	SER	125	160.345	113.984	-6.995	1.00	40.34	ES
ATOM	8705	CD1	ILE	118	147.049	120.977	3.349	1.00	43.63	ES5	ATOM	8758	O	SER	125	159.499	114.860	-6.800	1.00	38.70	ES
ATOM	8706	C	ILE	118	144.974	116.926	3.909	1.00	43.63	ES5	ATOM	8759	N	ARG	126	161.007	113.407	-6.009	1.00	38.70	ES
ATOM	8707	O	ILE	118	145.603	116.276	4.745	1.00	43.63	ES5	ATOM	8760	CA	ARG	126	160.716	113.802	-4.651	1.00	38.70	ES
ATOM	8708	N	LEU	119	144.712	116.529	2.665	1.00	44.13	ES5	ATOM	8761	CB	ARG	126	160.370	112.566	-3.842	1.00	45.44	ES
ATOM	8709	CA	LEU	119	145.164	115.278	2.076	1.00	44.13	ES5	ATOM	8762	CG	ARG	126	159.132	111.928	-4.391	1.00	45.44	ES
ATOM	8710	CB	LEU	119	143.997	114.542	1.432	1.00	45.05	ES5	ATOM	8763	CD	ARG	126	158.585	110.944	-3.421	1.00	45.44	ES

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ATOM	8764	NE	ARG	126	157.428	110.243	-3.959	1.00	45.44	ES5	ATOM	8817	CG	TYR	133	161.043	125.767	-5.499	1.00	75.69	ES
ATOM	8765	CM	ARG	126	156.933	109.147	-3.403	1.00	45.44	ES5	ATOM	8818	CDI	TYR	133	162.176	125.552	-6.282	1.00	75.69	ES
ATOM	8766	NH1	ARG	126	157.511	108.662	-2.305	1.00	45.44	ES5	ATOM	8819	CE1	TYR	133	163.411	126.111	-5.961	1.00	75.69	ES
ATOM	8767	NH2	ARG	126	155.881	108.536	-3.938	1.00	45.44	ES5	ATOM	8820	CD2	TYR	133	161.171	126.577	-4.363	1.00	75.69	ES
ATOM	8768	O	ARG	126	161.825	114.622	-4.007	1.00	38.70	ES5	ATOM	8821	CE2	TYR	133	162.408	127.152	-4.024	1.00	75.69	ES
ATOM	8769	O	ARG	126	162.071	114.553	-2.800	1.00	38.70	ES5	ATOM	8822	CZ	TYR	133	163.531	126.907	-4.838	1.00	75.69	ES
ATOM	8770	N	ASN	127	162.483	115.425	-4.826	1.00	47.71	ES5	ATOM	8823	OH	TYR	133	164.788	127.428	-4.568	1.00	75.69	ES
ATOM	8771	CA	ASN	127	163.535	116.267	-4.309	1.00	47.71	ES5	ATOM	8824	O	TYR	133	157.339	124.636	-5.369	1.00	38.15	ES
ATOM	8772	CB	ASN	127	164.293	116.952	-5.436	1.00	67.76	ES5	ATOM	8825	C	TYR	133	156.462	125.470	-5.616	1.00	38.15	ES
ATOM	8773	CG	ASN	127	165.505	117.630	-4.933	1.00	67.76	ES5	ATOM	8826	N	ALA	134	157.182	123.337	-5.588	1.00	40.69	ES
ATOM	8774	CD	ASN	127	165.396	118.603	-4.112	1.00	67.76	ES5	ATOM	8827	CA	ALA	134	156.061	121.324	-6.310	1.00	50.88	ES
ATOM	8775	ND2	ASN	127	166.674	117.291	-5.410	1.00	67.76	ES5	ATOM	8828	CB	ALA	134	155.948	122.809	-6.140	1.00	40.69	ES
ATOM	8776	C	ASN	127	162.873	117.320	-3.443	1.00	47.71	ES5	ATOM	8829	O	ALA	134	154.789	123.135	-5.213	1.00	40.69	ES
ATOM	8777	O	ASN	127	162.173	118.190	-3.957	1.00	47.71	ES5	ATOM	8830	C	ALA	134	153.731	123.582	-5.655	1.00	40.69	ES
ATOM	8778	N	PRO	128	163.095	117.265	-2.120	1.00	41.44	ES5	ATOM	8831	N	THR	135	154.981	122.907	-3.921	1.00	43.23	ES
ATOM	8779	CD	PRO	128	164.171	116.550	-1.418	1.00	24.18	ES5	ATOM	8832	CA	THR	135	153.932	123.203	-2.971	1.00	43.23	ES
ATOM	8780	CA	PRO	128	162.481	118.253	-1.235	1.00	41.44	ES5	ATOM	8833	CB	THR	135	154.378	122.893	-1.569	1.00	33.27	ES
ATOM	8781	CB	PRO	128	163.324	118.155	-0.038	1.00	24.18	ES5	ATOM	8834	OG1	THR	135	154.434	121.473	-1.412	1.00	33.27	ES
ATOM	8782	CG	PRO	128	164.622	117.581	-0.434	1.00	24.18	ES5	ATOM	8835	CG2	THR	135	153.416	123.482	-0.564	1.00	33.27	ES
ATOM	8783	C	PRO	128	162.456	119.654	-1.817	1.00	41.44	ES5	ATOM	8836	C	THR	135	153.524	124.663	-3.065	1.00	43.23	ES
ATOM	8784	O	PRO	128	161.389	120.257	-1.944	1.00	41.44	ES5	ATOM	8837	O	THR	135	152.387	124.961	-3.415	1.00	43.23	ES
ATOM	8785	N	ILE	129	163.618	120.166	-2.195	1.00	38.62	ES5	ATOM	8838	N	MET	136	154.447	125.571	-2.766	1.00	52.34	ES
ATOM	8786	CA	ILE	129	163.680	121.509	-2.747	1.00	38.62	ES5	ATOM	8839	CA	MET	136	154.163	126.999	-2.844	1.00	52.34	ES
ATOM	8787	CB	ILE	129	165.081	121.845	-3.207	1.00	34.32	ES5	ATOM	8840	CB	MET	136	155.458	127.777	-2.814	1.00	51.35	ES
ATOM	8788	CG2	ILE	129	165.171	123.334	-3.529	1.00	34.32	ES5	ATOM	8841	CG	MET	136	156.200	127.606	-1.521	1.00	51.35	ES
ATOM	8790	CD1	ILE	129	166.065	121.457	-2.098	1.00	34.32	ES5	ATOM	8842	SD	MET	136	155.444	128.534	-0.197	1.00	51.35	ES
ATOM	8791	C	ILE	129	167.504	121.695	-2.445	1.00	34.32	ES5	ATOM	8843	CE	MET	136	156.434	130.077	-0.270	1.00	51.35	ES
ATOM	8792	O	ILE	129	162.148	122.811	-4.034	1.00	38.62	ES5	ATOM	8844	C	MET	136	153.377	127.378	-4.097	1.00	52.34	ES
ATOM	8793	N	ASN	130	162.523	120.716	-4.734	1.00	34.62	ES5	ATOM	8845	O	MET	136	152.387	128.114	-4.016	1.00	52.34	ES
ATOM	8794	CA	ASN	130	161.596	120.864	-5.840	1.00	34.62	ES5	ATOM	8846	N	GLU	137	153.807	126.894	-5.261	1.00	32.30	ES
ATOM	8795	CB	ASN	130	161.982	119.955	-6.999	1.00	48.03	ES5	ATOM	8847	CA	GLU	137	153.733	126.584	-7.709	1.00	53.39	ES
ATOM	8796	CG	ASN	130	163.135	120.516	-7.799	1.00	48.03	ES5	ATOM	8848	CB	GLU	137	154.472	127.604	-8.562	1.00	53.39	ES
ATOM	8797	OD1	ASN	130	163.288	121.740	-7.921	1.00	48.03	ES5	ATOM	8849	CG	GLU	137	152.480	128.656	-8.898	1.00	53.39	ES
ATOM	8798	ND2	ASN	130	163.950	119.628	-8.365	1.00	48.03	ES5	ATOM	8850	CD	GLU	137	154.106	129.970	-8.682	1.00	53.39	ES
ATOM	8799	C	ASN	130	160.156	120.614	-5.427	1.00	34.62	ES5	ATOM	8851	OE1	GLU	137	151.665	126.717	-6.365	1.00	32.30	ES
ATOM	8800	O	ASN	130	159.226	121.162	-6.022	1.00	34.62	ES5	ATOM	8852	OE2	GLU	137	150.738	127.425	-6.712	1.00	32.30	ES
ATOM	8801	N	ILE	131	159.964	119.786	-4.411	1.00	33.58	ES5	ATOM	8853	C	GLU	137	151.501	125.500	-5.862	1.00	38.82	ES
ATOM	8802	CA	ILE	131	158.620	119.512	-3.923	1.00	33.58	ES5	ATOM	8854	O	ALA	138	150.172	124.942	-5.689	1.00	38.82	ES
ATOM	8803	CB	ILE	131	156.615	118.303	-2.956	1.00	37.10	ES5	ATOM	8855	N	ALA	138	150.258	123.583	-5.046	1.00	30.16	ES
ATOM	8804	CG2	ILE	131	157.523	118.455	-1.913	1.00	37.10	ES5	ATOM	8856	CA	ALA	138	149.350	125.890	-4.820	1.00	38.82	ES
ATOM	8805	CG1	ILE	131	158.439	117.015	-3.755	1.00	37.10	ES5	ATOM	8857	CB	ALA	138	148.188	126.171	-5.118	1.00	38.82	ES
ATOM	8806	CD1	ILE	131	157.141	116.982	-4.561	1.00	37.10	ES5	ATOM	8858	O	ALA	138	149.954	126.391	-3.749	1.00	54.12	ES
ATOM	8807	C	ILE	131	156.141	120.773	-3.206	1.00	33.58	ES5	ATOM	8859	N	LEU	139	149.249	127.316	-2.879	1.00	54.12	ES
ATOM	8808	O	ILE	131	156.963	121.147	-3.289	1.00	33.58	ES5	ATOM	8860	CA	LEU	139	150.091	127.661	-1.646	1.00	26.67	ES
ATOM	8809	N	ALA	132	159.069	121.433	-2.514	1.00	40.33	ES5	ATOM	8861	CB	LEU	139	150.358	126.507	-0.671	1.00	26.67	ES
ATOM	8810	CA	ALA	132	158.749	122.668	-1.807	1.00	40.33	ES5	ATOM	8862	CG	LEU	139	149.050	125.833	-0.250	1.00	26.67	ES
ATOM	8811	CB	ALA	132	159.980	123.202	-1.092	1.00	30.87	ES5	ATOM	8863	CD1	LEU	139	148.892	128.585	-3.648	1.00	54.12	ES
ATOM	8812	C	ALA	132	158.240	123.690	-2.819	1.00	40.33	ES5	ATOM	8864	CD2	LEU	139	147.722	128.957	-3.710	1.00	54.12	ES
ATOM	8813	O	ALA	132	157.088	124.105	-2.752	1.00	40.33	ES5	ATOM	8865	C	LEU	139	149.881	129.247	-4.246	1.00	36.00	ES
ATOM	8814	N	TYR	133	159.092	124.084	-3.763	1.00	38.15	ES5	ATOM	8866	O	LEU	139	149.782	128.957	-4.246	1.00	36.00	ES
ATOM	8815	CA	TYR	133	158.683	125.050	-4.778	1.00	38.15	ES5	ATOM	8867	N	ARG	140	149.600	130.464	-5.002	1.00	36.00	ES
ATOM	8816	CB	TYR	133	159.721	125.137	-5.891	1.00	75.69	ES5	ATOM	8868	CA	ARG	140	149.600	130.464	-5.002	1.00	36.00	ES

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ATOM	8870	CB	ARG	140	150.782	130.866	-5.863	1.00	49.67	ES5	ATOM	8923	N	ALA	146	134.964	133.258	-4.496	1.00	49.42	ES5
ATOM	8871	CG	ARG	140	151.959	131.381	-5.131	1.00	49.67	ES5	ATOM	8924	CA	ALA	146	134.910	134.704	-4.595	1.00	49.42	ES5
ATOM	8872	CD	ARG	140	152.822	132.194	-6.080	1.00	49.67	ES5	ATOM	8925	CB	ALA	146	135.546	135.330	-3.376	1.00	39.60	ES5
ATOM	8873	NE	ARG	140	154.066	132.563	-5.424	1.00	49.67	ES5	ATOM	8926	C	ALA	146	135.675	135.101	-5.844	1.00	49.42	ES5
ATOM	8874	CZ	ARG	140	155.044	131.703	-5.167	1.00	49.67	ES5	ATOM	8927	O	ALA	146	135.088	135.622	-6.797	1.00	49.42	ES5
ATOM	8875	NH1	ARG	140	154.916	130.432	-5.533	1.00	49.67	ES5	ATOM	8928	N	ASP	147	136.986	134.832	-5.823	1.00	38.82	ES5
ATOM	8876	NH2	ARG	140	156.129	132.106	-4.510	1.00	49.67	ES5	ATOM	8929	CA	ASP	147	137.903	135.136	-6.925	1.00	38.82	ES5
ATOM	8877	C	ARG	140	148.405	130.335	-5.936	1.00	36.00	ES5	ATOM	8930	CB	ASP	147	139.259	134.498	-6.668	1.00	55.55	ES5
ATOM	8878	O	ARG	140	147.597	131.255	-6.056	1.00	36.00	ES5	ATOM	8931	CG	ASP	147	139.772	135.878	-4.820	1.00	55.55	ES5
ATOM	8879	N	GLN	141	148.301	129.192	-6.606	1.00	29.80	ES5	ATOM	8932	OD1	ASP	147	139.772	135.878	-4.820	1.00	55.55	ES5
ATOM	8880	CA	GLN	141	147.231	128.981	-7.558	1.00	29.80	ES5	ATOM	8933	OD2	ASP	147	140.097	133.717	-4.595	1.00	55.55	ES5
ATOM	8881	CB	GLN	141	147.583	127.806	-8.457	1.00	50.67	ES5	ATOM	8934	C	ASP	147	137.385	134.621	-8.256	1.00	38.82	ES5
ATOM	8882	CG	GLN	141	149.037	127.784	-8.840	1.00	50.67	ES5	ATOM	8935	O	ASP	147	137.415	135.322	-9.259	1.00	38.82	ES5
ATOM	8883	CD	GLN	141	149.278	127.207	-10.215	1.00	50.67	ES5	ATOM	8936	N	VAL	148	136.934	133.375	-8.260	1.00	33.08	ES5
ATOM	8884	OE1	GLN	141	148.653	126.220	-10.616	1.00	50.67	ES5	ATOM	8937	CA	VAL	148	136.410	132.753	-9.458	1.00	33.08	ES5
ATOM	8885	NE2	GLN	141	150.202	127.817	-10.950	1.00	50.67	ES5	ATOM	8938	CB	VAL	148	135.984	131.307	-9.176	1.00	59.95	ES5
ATOM	8886	C	GLN	141	145.834	128.793	-6.968	1.00	29.80	ES5	ATOM	8939	CG1	VAL	148	135.422	130.672	-10.431	1.00	59.95	ES5
ATOM	8887	O	GLN	141	144.838	128.884	-7.703	1.00	29.80	ES5	ATOM	8940	CG2	VAL	148	137.177	130.522	-8.657	1.00	59.95	ES5
ATOM	8888	N	LEU	142	145.749	128.522	-5.665	1.00	39.89	ES5	ATOM	8941	C	VAL	148	135.219	133.530	-9.969	1.00	33.08	ES5
ATOM	8889	CA	LEU	142	144.451	128.353	-5.014	1.00	39.89	ES5	ATOM	8942	O	VAL	148	135.157	133.855	-11.150	1.00	33.08	ES5
ATOM	8890	CB	LEU	142	144.606	128.200	-3.503	1.00	30.99	ES5	ATOM	8943	N	GLU	149	134.271	133.824	-9.082	1.00	51.77	ES5
ATOM	8891	CG	LEU	142	145.235	126.905	-3.011	1.00	30.99	ES5	ATOM	8944	CA	GLU	149	133.068	134.574	-9.449	1.00	51.77	ES5
ATOM	8892	CD1	LEU	142	145.568	127.015	-1.538	1.00	30.99	ES5	ATOM	8945	CB	GLU	149	132.160	134.751	-8.233	1.00	50.80	ES5
ATOM	8893	CD2	LEU	142	144.276	125.764	-3.285	1.00	30.99	ES5	ATOM	8946	CG	GLU	149	130.979	135.675	-8.488	1.00	50.80	ES5
ATOM	8894	C	LEU	142	143.591	129.580	-5.277	1.00	39.89	ES5	ATOM	8947	CD	GLU	149	130.439	136.295	-7.215	1.00	50.80	ES5
ATOM	8895	O	LEU	142	144.079	130.715	-5.263	1.00	39.89	ES5	ATOM	8948	OE1	GLU	149	131.207	137.004	-6.529	1.00	50.80	ES5
ATOM	8896	N	ARG	143	142.307	129.346	-5.515	1.00	35.56	ES5	ATOM	8949	OE2	GLU	149	129.249	136.077	-6.902	1.00	51.77	ES5
ATOM	8897	CA	ARG	143	141.375	130.423	-5.773	1.00	35.56	ES5	ATOM	8950	C	GLU	149	133.478	135.946	-9.963	1.00	51.77	ES5
ATOM	8898	CB	ARG	143	141.037	130.490	-7.260	1.00	47.33	ES5	ATOM	8951	O	GLU	149	132.958	136.446	-10.963	1.00	51.77	ES5
ATOM	8899	CG	ARG	143	142.196	130.952	-8.112	1.00	47.33	ES5	ATOM	8952	N	ARG	150	134.418	136.543	-9.244	1.00	45.70	ES5
ATOM	8900	CD	ARG	143	142.644	132.323	-7.671	1.00	47.33	ES5	ATOM	8953	CA	ARG	150	134.954	137.851	-9.565	1.00	45.70	ES5
ATOM	8901	NE	ARG	143	144.090	132.406	-7.519	1.00	47.33	ES5	ATOM	8954	CB	ARG	150	135.939	138.253	-8.475	1.00	45.70	ES5
ATOM	8902	CZ	ARG	143	144.947	132.423	-8.531	1.00	47.33	ES5	ATOM	8955	CG	ARG	150	135.590	139.527	-7.772	1.00	45.70	ES5
ATOM	8903	NH1	ARG	143	144.251	132.503	-8.295	1.00	47.33	ES5	ATOM	8956	CD	ARG	150	136.167	140.706	-8.513	1.00	45.70	ES5
ATOM	8904	NH2	ARG	143	140.118	130.170	-4.968	1.00	35.56	ES5	ATOM	8957	NE	ARG	150	136.691	141.690	-7.573	1.00	45.70	ES5
ATOM	8905	C	ARG	143	140.118	130.170	-4.968	1.00	35.56	ES5	ATOM	8958	CZ	ARG	150	137.559	141.407	-6.603	1.00	45.70	ES5
ATOM	8906	O	ARG	143	139.824	129.034	-4.609	1.00	35.56	ES5	ATOM	8959	NH1	ARG	150	138.001	140.163	-6.441	1.00	45.70	ES5
ATOM	8907	N	THR	144	139.380	131.236	-4.685	1.00	63.71	ES5	ATOM	8960	NH2	ARG	150	137.987	142.368	-5.791	1.00	45.70	ES5
ATOM	8908	CA	THR	144	138.154	131.142	-3.915	1.00	63.71	ES5	ATOM	8961	C	ARG	150	135.650	137.843	-10.924	1.00	45.70	ES5
ATOM	8909	CB	THR	144	138.154	131.142	-3.915	1.00	63.71	ES5	ATOM	8962	O	ARG	150	135.652	138.842	-11.625	1.00	45.70	ES5
ATOM	8910	OG1	THR	144	139.276	131.987	-1.985	1.00	70.69	ES5	ATOM	8963	N	LEU	151	136.239	136.710	-11.295	1.00	53.66	ES5
ATOM	8911	CG2	THR	144	136.868	132.064	-1.997	1.00	70.69	ES5	ATOM	8964	CA	LEU	151	136.942	136.579	-12.567	1.00	53.66	ES5
ATOM	8912	C	THR	144	136.960	131.390	-4.798	1.00	63.71	ES5	ATOM	8965	CB	LEU	151	137.879	135.383	-12.536	1.00	42.78	ES5
ATOM	8913	O	THR	144	137.058	132.118	-5.779	1.00	63.71	ES5	ATOM	8966	CG	LEU	151	139.335	135.625	-12.175	1.00	42.78	ES5
ATOM	8914	N	LVS	145	135.831	130.783	-4.445	1.00	55.45	ES5	ATOM	8967	CD1	LEU	151	140.075	134.306	-12.274	1.00	42.78	ES5
ATOM	8915	CA	LVS	145	134.597	130.966	-5.201	1.00	55.45	ES5	ATOM	8968	CD2	LEU	151	139.941	136.643	-13.116	1.00	42.78	ES5
ATOM	8916	CB	LVS	145	133.412	130.416	-4.400	1.00	68.82	ES5	ATOM	8969	C	LEU	151	136.033	136.411	-13.759	1.00	53.66	ES5
ATOM	8917	CG	LVS	145	132.100	130.381	-5.153	1.00	68.82	ES5	ATOM	8970	N	LEU	151	136.421	136.723	-14.878	1.00	53.66	ES5
ATOM	8918	CD	LVS	145	131.014	129.747	-4.289	1.00	68.82	ES5	ATOM	8971	O	LEU	151	134.830	135.905	-13.524	1.00	49.86	ES5
ATOM	8919	CE	LVS	145	129.631	129.772	-4.964	1.00	68.82	ES5	ATOM	8972	CA	ARG	152	133.902	135.683	-14.612	1.00	49.86	ES5
ATOM	8920	NZ	LVS	145	128.523	129.271	-4.074	1.00	68.82	ES5	ATOM	8973	CB	ARG	152	133.333	134.288	-14.511	1.00	57.67	ES5
ATOM	8921	C	LVS	145	134.440	132.471	-5.434	1.00	55.45	ES5	ATOM	8974	CG	ARG	152	134.328	133.258	-14.099	1.00	57.67	ES5
ATOM	8922	O	LVS	145	133.872	132.907	-6.436	1.00	55.45	ES5	ATOM	8975	CD	ARG	152	133.639	131.930	-14.082	1.00	57.67	ES5

ATOM	8976	NE ARG	152	134.448	130.876	-13.491	1.00	57.67	ESS	ATOM	9029	CG2 VAL	14	218.720	119.980	-81.262	1.00	57.81	KS1
ATOM	8977	CA ARG	152	133.962	129.683	-13.164	1.00	57.67	ESS	ATOM	9030	C VAL	14	218.949	123.713	-80.428	1.00	93.72	KS1
ATOM	8978	NH1 ARG	152	132.670	129.420	-13.376	1.00	57.67	ESS	ATOM	9031	O VAL	14	218.841	123.649	-79.210	1.00	93.72	KS1
ATOM	8979	NH2 ARG	152	134.759	128.756	-12.637	1.00	57.67	ESS	ATOM	9032	N ALA	15	218.903	124.858	-81.093	1.00	69.46	KS1
ATOM	8980	C ARG	152	132.753	136.679	-14.673	1.00	49.86	ESS	ATOM	9033	CA ALA	15	218.762	126.124	-80.339	1.00	69.46	KS1
ATOM	8981	O ARG	152	131.735	136.402	-15.305	1.00	49.86	ESS	ATOM	9034	CB ALA	15	218.841	127.264	-81.376	1.00	84.95	KS1
ATOM	8982	N LYS	153	131.910	137.829	-14.018	1.00	78.39	ESS	ATOM	9035	C ALA	15	217.506	126.257	-79.533	1.00	69.46	KS1
ATOM	8983	CA LYS	153	131.879	138.869	-14.020	1.00	78.39	ESS	ATOM	9036	O ALA	15	217.598	126.551	-78.340	1.00	69.46	KS1
ATOM	8984	CB LYS	153	132.215	139.952	-12.992	1.00	154.91	ESS	ATOM	9037	N SER	16	216.342	126.072	-80.148	1.00	83.05	KS1
ATOM	8985	CG LYS	153	131.918	139.576	-11.553	1.00	154.91	ESS	ATOM	9038	CA SER	16	215.045	126.198	-79.478	1.00	83.05	KS1
ATOM	8986	CD LYS	153	130.423	139.565	-11.285	1.00	154.91	ESS	ATOM	9039	CB SER	16	213.998	126.640	-80.494	1.00	106.34	KS1
ATOM	8987	CE LYS	153	130.130	139.290	-9.818	1.00	154.91	ESS	ATOM	9040	OG SER	16	213.911	125.698	-81.553	1.00	106.34	KS1
ATOM	8988	NZ LYS	153	128.683	139.439	-9.506	1.00	154.91	ESS	ATOM	9041	C SER	16	214.578	124.898	-78.835	1.00	83.05	KS1
ATOM	8989	C LYS	153	131.749	139.507	-15.401	1.00	78.39	ESS	ATOM	9042	O SER	16	214.507	123.862	-79.500	1.00	83.05	KS1
ATOM	8990	O LYS	153	131.506	138.822	-16.390	1.00	78.39	ESS	ATOM	9043	N GLY	17	214.220	124.957	-77.555	1.00	78.84	KS1
ATOM	8991	N GLY	154	131.912	140.824	-15.465	1.00	127.73	ESS	ATOM	9044	CA GLY	17	213.779	123.746	-76.884	1.00	78.84	KS1
ATOM	8992	CA GLY	154	131.809	141.525	-16.733	1.00	127.73	ESS	ATOM	9045	C GLY	17	212.681	123.831	-75.836	1.00	78.84	KS1
ATOM	8993	C GLY	154	130.471	141.343	-17.427	1.00	127.73	ESS	ATOM	9046	O GLY	17	212.124	124.896	-75.566	1.00	78.84	KS1
ATOM	8994	O GLY	154	129.651	140.530	-16.951	1.00	127.73	ESS	ATOM	9047	N ARG	18	212.391	122.673	-75.244	1.00	53.41	KS1
ATOM	8995	OXF GLY	154	130.241	142.013	-18.455	1.00	102.63	ESS	ATOM	9048	CA ARG	18	211.369	122.518	-74.218	1.00	53.41	KS1
ATOM	8996	CB LYS	11	222.494	113.993	-81.387	1.00	144.49	KS11	ATOM	9049	CB ARG	18	210.316	122.530	-74.713	1.00	63.38	KS1
ATOM	8997	CG LYS	11	223.277	112.843	-80.748	1.00	144.49	KS11	ATOM	9050	CG ARG	18	208.910	122.036	-74.577	1.00	63.38	KS1
ATOM	8998	CD LYS	11	224.629	113.270	-80.189	1.00	144.49	KS11	ATOM	9051	CD ARG	18	208.113	121.824	-75.853	1.00	63.38	KS1
ATOM	8999	CE LYS	11	225.370	112.073	-79.605	1.00	144.49	KS11	ATOM	9052	NE ARG	18	207.636	120.454	-76.002	1.00	63.38	KS1
ATOM	9000	NZ LYS	11	226.736	112.418	-79.129	1.00	144.49	KS11	ATOM	9053	CZ ARG	18	206.929	120.023	-77.043	1.00	63.38	KS1
ATOM	9001	C LYS	11	223.779	116.002	-82.147	1.00	167.41	KS11	ATOM	9054	NH1 ARG	18	206.626	120.859	-78.026	1.00	63.38	KS1
ATOM	9002	O LYS	11	224.622	116.042	-81.249	1.00	167.41	KS11	ATOM	9055	NH2 ARG	18	206.513	118.760	-77.104	1.00	63.38	KS1
ATOM	9003	N LYS	11	224.204	113.752	-83.173	1.00	167.41	KS11	ATOM	9056	C ARG	18	211.991	121.998	-72.915	1.00	53.41	KS1
ATOM	9004	CA LYS	11	223.180	114.667	-82.584	1.00	167.41	KS11	ATOM	9057	O ARG	18	212.920	121.194	-72.941	1.00	53.41	KS1
ATOM	9005	N ARG	12	223.341	117.091	-82.780	1.00	76.21	KS11	ATOM	9058	N ALA	19	211.495	122.464	-71.773	1.00	63.71	KS1
ATOM	9006	CA ARG	12	223.853	118.409	-82.432	1.00	76.21	KS11	ATOM	9059	CA ALA	19	212.020	122.001	-70.490	1.00	63.71	KS1
ATOM	9007	CB ARG	12	225.261	118.609	-83.008	1.00	141.95	KS11	ATOM	9060	CB ALA	19	212.813	123.098	-69.812	1.00	23.83	KS1
ATOM	9008	CG ARG	12	226.378	118.130	-82.091	1.00	141.95	KS11	ATOM	9061	C ALA	19	210.886	121.541	-69.580	1.00	63.71	KS1
ATOM	9009	CD ARG	12	226.287	118.809	-80.731	1.00	141.95	KS11	ATOM	9062	O ALA	19	210.050	122.342	-69.167	1.00	63.71	KS1
ATOM	9010	NE ARG	12	227.224	118.249	-79.760	1.00	141.95	KS11	ATOM	9063	N TYR	20	210.867	120.244	-69.283	1.00	50.05	KS1
ATOM	9011	C2 ARG	12	227.263	118.591	-78.475	1.00	141.95	KS11	ATOM	9064	CA TYR	20	209.847	119.667	-68.431	1.00	50.05	KS1
ATOM	9012	NH1 ARG	12	226.413	119.493	-78.003	1.00	141.95	KS11	ATOM	9065	CB TYR	20	209.418	118.299	-68.960	1.00	57.40	KS1
ATOM	9013	NH2 ARG	12	228.148	118.033	-77.659	1.00	141.95	KS11	ATOM	9066	CG TYR	20	208.631	118.361	-70.245	1.00	57.40	KS1
ATOM	9014	C ARG	12	222.998	119.605	-82.818	1.00	76.21	KS11	ATOM	9067	CD1 TYR	20	209.269	118.433	-71.475	1.00	57.40	KS1
ATOM	9015	O ARG	12	222.060	119.505	-83.601	1.00	76.21	KS11	ATOM	9068	CE1 TYR	20	208.541	118.522	-72.663	1.00	57.40	KS1
ATOM	9016	N GLN	13	223.361	120.736	-82.222	1.00	86.11	KS11	ATOM	9069	CD2 TYR	20	207.241	118.379	-70.231	1.00	57.40	KS1
ATOM	9017	CA GLN	13	222.746	122.044	-82.417	1.00	86.11	KS11	ATOM	9070	CE2 TYR	20	206.507	118.469	-71.410	1.00	57.40	KS1
ATOM	9018	CB GLN	13	223.424	122.729	-83.600	1.00	90.60	KS11	ATOM	9071	CZ TYR	20	207.168	118.540	-72.620	1.00	57.40	KS1
ATOM	9019	CG GLN	13	224.956	122.625	-83.543	1.00	90.60	KS11	ATOM	9072	OH TYR	20	206.453	118.633	-73.785	1.00	57.40	KS1
ATOM	9020	CD GLN	13	225.556	123.096	-82.213	1.00	90.60	KS11	ATOM	9073	C TYR	20	210.330	119.521	-66.997	1.00	50.05	KS1
ATOM	9021	OE1 GLN	13	225.508	124.286	-81.882	1.00	90.60	KS11	ATOM	9074	O TYR	20	211.331	118.853	-66.722	1.00	50.05	KS1
ATOM	9022	NE2 GLN	13	226.119	122.155	-81.443	1.00	90.60	KS11	ATOM	9075	N ILE	21	209.615	120.156	-66.078	1.00	58.55	KS1
ATOM	9023	C GLN	13	221.226	122.134	-82.538	1.00	86.11	KS11	ATOM	9076	CA ILE	21	209.964	120.073	-64.678	1.00	58.55	KS1
ATOM	9024	O GLN	13	220.652	122.059	-83.625	1.00	86.11	KS11	ATOM	9077	CB ILE	21	209.988	121.449	-64.035	1.00	52.02	KS1
ATOM	9025	N VAL	14	220.595	122.316	-81.384	1.00	93.72	KS11	ATOM	9078	CG2 ILE	21	210.458	121.340	-64.588	1.00	52.02	KS1
ATOM	9026	CA VAL	14	219.149	122.454	-81.250	1.00	93.72	KS11	ATOM	9079	CG1 ILE	21	210.926	122.351	-64.833	1.00	52.02	KS1
ATOM	9027	CB VAL	14	218.548	121.275	-80.470	1.00	57.81	KS11	ATOM	9080	CD1 ILE	21	211.165	123.699	-64.207	1.00	52.02	KS1
ATOM	9028	CG1 VAL	14	217.089	121.550	-80.175	1.00	57.81	KS11	ATOM	9081	C ILE	21	208.914	119.216	-64.014	1.00	58.55	KS1

ATOM	9082	O	FILE	21	207.739	119.553	-64.000	1.00	58.55	KS11	ATOM	9135	OG1	THR	28	213.950	111.949	-57.217	1.00	34.05	KS11
ATOM	9083	N	HIS	22	209.356	118.089	-63.481	1.00	41.00	KS11	ATOM	9136	CG2	THR	28	215.202	113.901	-57.775	1.00	34.05	KS11
ATOM	9084	CA	HIS	22	208.491	117.132	-62.811	1.00	41.00	KS11	ATOM	9137	C	THR	28	212.175	115.080	-57.221	1.00	54.43	KS11
ATOM	9085	CB	HIS	22	208.743	115.748	-63.395	1.00	64.05	KS11	ATOM	9138	O	THR	28	210.985	115.260	-56.953	1.00	54.43	KS11
ATOM	9086	CG	HIS	22	208.040	114.654	-62.665	1.00	64.05	KS11	ATOM	9139	N	THR	29	212.851	115.667	-58.189	1.00	55.56	KS11
ATOM	9087	CD2	HIS	22	208.499	113.731	-61.790	1.00	64.05	KS11	ATOM	9140	CA	THR	29	212.309	116.579	-59.142	1.00	55.56	KS11
ATOM	9088	ND1	HIS	22	206.685	114.435	-62.780	1.00	64.05	KS11	ATOM	9141	CB	THR	29	212.437	118.032	-58.650	1.00	63.60	KS11
ATOM	9089	CE1	HIS	22	206.339	113.421	-62.010	1.00	64.05	KS11	ATOM	9142	CG2	THR	29	213.619	118.168	-57.706	1.00	63.60	KS11
ATOM	9090	NE2	HIS	22	207.422	112.976	-61.398	1.00	64.05	KS11	ATOM	9143	CG1	THR	29	212.495	118.970	-59.848	1.00	63.60	KS11
ATOM	9091	C	HIS	22	208.725	117.096	-61.293	1.00	41.00	KS11	ATOM	9144	CD1	THR	29	212.539	120.424	-59.476	1.00	63.60	KS11
ATOM	9092	O	HIS	22	209.511	116.287	-60.792	1.00	41.00	KS11	ATOM	9145	C	THR	29	213.230	116.262	-60.315	1.00	55.56	KS11
ATOM	9093	N	ALA	23	208.029	117.966	-60.568	1.00	47.60	KS11	ATOM	9146	O	THR	29	214.449	116.390	-60.217	1.00	55.56	KS11
ATOM	9094	CA	ALA	23	208.146	118.038	-59.116	1.00	47.60	KS11	ATOM	9147	N	VAL	30	212.622	115.772	-61.391	1.00	41.75	KS11
ATOM	9095	CB	ALA	23	207.623	119.375	-58.622	1.00	45.83	KS11	ATOM	9148	CA	VAL	30	213.310	115.384	-62.608	1.00	41.75	KS11
ATOM	9096	C	ALA	23	207.409	116.894	-58.411	1.00	47.60	KS11	ATOM	9149	CB	VAL	30	212.692	114.076	-63.142	1.00	44.04	KS11
ATOM	9097	O	ALA	23	206.430	116.347	-58.932	1.00	47.60	KS11	ATOM	9150	CG1	VAL	30	213.297	113.708	-64.481	1.00	44.04	KS11
ATOM	9098	N	SER	24	207.889	116.550	-57.217	1.00	41.97	KS11	ATOM	9151	CG2	VAL	30	212.901	112.963	-62.130	1.00	44.04	KS11
ATOM	9099	CA	SER	24	207.326	115.467	-56.412	1.00	41.97	KS11	ATOM	9152	C	VAL	30	213.173	116.495	-63.653	1.00	41.75	KS11
ATOM	9100	CB	SER	24	208.014	114.152	-56.792	1.00	59.41	KS11	ATOM	9153	O	VAL	30	212.145	117.152	-63.725	1.00	41.75	KS11
ATOM	9101	OG	SER	24	207.750	113.122	-55.859	1.00	59.41	KS11	ATOM	9154	N	THR	31	214.204	116.720	-64.458	1.00	40.80	KS11
ATOM	9102	C	SER	24	207.516	115.749	-54.918	1.00	41.97	KS11	ATOM	9155	CA	THR	31	214.116	117.763	-65.472	1.00	40.80	KS11
ATOM	9103	O	SER	24	208.622	116.045	-54.466	1.00	41.97	KS11	ATOM	9156	CB	THR	31	214.972	118.977	-65.118	1.00	54.88	KS11
ATOM	9104	N	TYR	25	206.438	115.683	-54.146	1.00122.68	KS11	ATOM	9157	OG1	THR	31	214.751	119.341	-63.752	1.00	54.88	KS11	
ATOM	9105	CA	TYR	25	206.550	115.929	-52.711	1.00122.68	KS11	ATOM	9158	CG2	THR	31	214.595	120.148	-66.004	1.00	54.88	KS11	
ATOM	9106	CB	TYR	25	205.168	115.924	-52.061	1.00112.74	KS11	ATOM	9159	C	THR	31	214.587	117.241	-66.804	1.00	40.80	KS11	
ATOM	9107	CG	TYR	25	204.567	117.298	-51.916	1.00112.74	KS11	ATOM	9160	O	THR	31	215.703	116.759	-66.917	1.00	40.80	KS11	
ATOM	9108	CD1	TYR	25	203.211	117.513	-52.153	1.00112.74	KS11	ATOM	9161	N	THR	32	213.731	117.350	-67.812	1.00	44.71	KS11	
ATOM	9109	CE1	TYR	25	202.649	118.776	-52.008	1.00112.74	KS11	ATOM	9162	CA	THR	32	214.041	116.874	-69.151	1.00	44.71	KS11	
ATOM	9110	CD2	TYR	25	205.353	118.386	-51.528	1.00112.74	KS11	ATOM	9163	CB	THR	32	212.975	115.898	-69.644	1.00	46.76	KS11	
ATOM	9111	CE2	TYR	25	204.804	119.654	-51.379	1.00112.74	KS11	ATOM	9164	CG2	THR	32	213.396	115.271	-70.951	1.00	46.76	KS11	
ATOM	9112	CZ	TYR	25	203.450	119.842	-51.621	1.00112.74	KS11	ATOM	9165	CG1	THR	32	212.732	114.819	-68.602	1.00	46.76	KS11	
ATOM	9113	OH	TYR	25	202.895	121.092	-51.480	1.00112.74	KS11	ATOM	9166	CD1	THR	32	213.960	114.179	-68.079	1.00	46.76	KS11	
ATOM	9114	C	TYR	25	207.407	114.832	-52.115	1.00122.68	KS11	ATOM	9167	C	THR	32	214.034	118.041	-70.103	1.00	44.71	KS11	
ATOM	9115	O	TYR	25	207.248	114.455	-50.952	1.00122.68	KS11	ATOM	9168	O	THR	32	213.309	119.006	-69.874	1.00	44.71	KS11	
ATOM	9116	N	ASN	26	208.332	114.338	-52.928	1.00	52.24	KS11	ATOM	9169	N	THR	33	214.818	117.959	-71.178	1.00	64.33	KS11
ATOM	9117	CA	ASN	26	209.208	113.247	-52.528	1.00	52.24	KS11	ATOM	9170	CA	THR	33	214.839	119.040	-72.166	1.00	64.33	KS11
ATOM	9118	CB	ASN	26	208.498	111.914	-52.758	1.00	67.31	KS11	ATOM	9171	CB	THR	33	216.196	119.811	-72.115	1.00	42.89	KS11
ATOM	9119	CG	ASN	26	209.253	110.755	-52.186	1.00	67.31	KS11	ATOM	9172	OG1	THR	33	216.496	120.199	-70.760	1.00	42.89	KS11
ATOM	9120	OD1	ASN	26	210.025	110.916	-51.250	1.00	67.31	KS11	ATOM	9173	CG2	THR	33	216.110	121.068	-72.962	1.00	42.89	KS11
ATOM	9121	ND2	ASN	26	209.019	109.569	-52.728	1.00	67.31	KS11	ATOM	9174	C	THR	33	214.550	118.489	-73.586	1.00	64.33	KS11
ATOM	9122	C	ASN	26	210.545	113.232	-53.251	1.00	52.24	KS11	ATOM	9175	O	THR	33	215.132	117.493	-73.998	1.00	64.33	KS11
ATOM	9123	O	ASN	26	210.692	113.756	-54.353	1.00	52.24	KS11	ATOM	9176	N	ASP	34	213.634	119.133	-74.312	1.00	57.44	KS11
ATOM	9124	N	ASN	27	211.511	112.610	-52.597	1.00130.12	KS11	ATOM	9177	CA	ASP	34	213.225	118.713	-75.661	1.00	57.44	KS11	
ATOM	9125	CA	ASN	27	212.860	112.500	-53.098	1.00130.12	KS11	ATOM	9178	CB	ASP	34	211.722	118.455	-75.701	1.00132.60	KS11		
ATOM	9126	CB	ASN	27	213.210	111.046	-53.342	1.00	91.86	KS11	ATOM	9179	CG	ASP	34	211.342	117.168	-75.049	1.00132.60	KS11	
ATOM	9127	CG	ASN	27	213.513	110.344	-52.075	1.00	91.86	KS11	ATOM	9180	OD1	ASP	34	212.209	116.279	-74.962	1.00132.60	KS11	
ATOM	9128	OD1	ASN	27	212.631	109.783	-51.447	1.00	91.86	KS11	ATOM	9181	OD2	ASP	34	210.173	117.037	-74.639	1.00132.60	KS11	
ATOM	9129	ND2	ASN	27	214.763	110.406	-51.654	1.00	91.86	KS11	ATOM	9182	C	ASP	34	213.528	119.702	-76.787	1.00	57.44	KS11
ATOM	9130	C	ASN	27	213.289	113.315	-54.288	1.00130.12	KS11	ATOM	9183	O	ASP	34	214.093	120.768	-76.550	1.00	57.44	KS11	
ATOM	9131	O	ASN	27	214.336	113.921	-54.235	1.00130.12	KS11	ATOM	9184	N	PRO	35	213.154	119.342	-78.039	1.00	64.21	KS11	
ATOM	9132	N	THR	28	212.540	113.354	-55.377	1.00	54.43	KS11	ATOM	9185	CD	PRO	35	213.011	117.916	-78.411	1.00	70.63	KS11
ATOM	9133	CA	THR	28	213.072	114.162	-56.461	1.00	54.43	KS11	ATOM	9186	CA	PRO	35	213.336	120.141	-79.257	1.00	64.21	KS11
ATOM	9134	CB	THR	28	213.835	113.332	-57.572	1.00	34.05	KS11	ATOM	9187	CB	PRO	35	214.010	119.145	-80.191	1.00	70.63	KS11

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ATOM	9188	CG PRO	35	213.209	117.906	-79.939	1.00	70.63	KS11	ATOM	9241	NE1 TRP	42	218.540	110.429	-68.467	1.00	46.01	KS1
ATOM	9189	PRO	35	211.963	120.583	-79.793	1.00	64.21	KS11	ATOM	9242	CZ2 TRP	42	218.580	109.559	-66.109	1.00	46.01	KS1
ATOM	9190	PRO	35	210.818	121.614	-80.464	1.00	64.21	KS11	ATOM	9243	CZ3 TRP	42	217.550	111.097	-64.539	1.00	46.01	KS1
ATOM	9191	N ASP	36	210.980	119.745	-79.483	1.00	94.62	KS11	ATOM	9244	CH2 TRP	42	218.205	109.878	-64.829	1.00	46.01	KS1
ATOM	9192	CA ASP	36	209.583	119.893	-79.859	1.00	94.62	KS11	ATOM	9245	C TRP	42	218.655	114.874	-67.100	1.00	58.70	KS1
ATOM	9193	CB ASP	36	209.421	120.079	-81.367	1.00	99.30	KS11	ATOM	9246	O TRP	42	219.770	114.354	-67.082	1.00	58.70	KS1
ATOM	9194	CG ASP	36	209.600	118.773	-82.139	1.00	99.30	KS11	ATOM	9247	N SER	43	218.095	115.428	-66.029	1.00	48.64	KS1
ATOM	9195	OD1 ASP	36	209.064	118.660	-83.262	1.00	99.30	KS11	ATOM	9248	CA SER	43	218.751	115.432	-64.726	1.00	48.64	KS1
ATOM	9196	OD2 ASP	36	210.283	117.860	-81.626	1.00	99.30	KS11	ATOM	9249	CB SER	43	219.500	116.737	-64.479	1.00	38.49	KS1
ATOM	9197	ASP	36	208.968	118.549	-79.464	1.00	94.62	KS11	ATOM	9250	OG SER	43	220.208	116.664	-64.274	1.00	38.49	KS1
ATOM	9198	ASP	36	207.922	118.145	-79.999	1.00	94.62	KS11	ATOM	9251	C SER	43	217.745	115.245	-63.601	1.00	48.64	KS1
ATOM	9199	N GLY	37	209.622	117.841	-78.550	1.00	69.47	KS11	ATOM	9252	O SER	43	216.543	115.347	-63.806	1.00	48.64	KS1
ATOM	9200	CA GLY	37	209.100	116.564	-78.112	1.00	69.47	KS11	ATOM	9253	N SER	44	218.245	114.980	-62.405	1.00	33.28	KS1
ATOM	9201	C GLY	37	210.039	115.576	-77.528	1.00	69.47	KS11	ATOM	9254	CA SER	44	217.378	114.789	-61.252	1.00	33.28	KS1
ATOM	9202	N GLY	37	209.945	115.152	-76.381	1.00	69.47	KS11	ATOM	9255	CB SER	44	216.808	113.376	-61.254	1.00	37.58	KS1
ATOM	9203	N ASN	38	211.114	115.207	-78.295	1.00	61.93	KS11	ATOM	9256	OG SER	44	217.810	112.442	-60.885	1.00	37.58	KS1
ATOM	9204	CA ASN	38	212.077	114.212	-77.825	1.00	61.93	KS11	ATOM	9257	C SER	44	218.166	114.993	-59.967	1.00	33.28	KS1
ATOM	9205	CB ASN	38	212.656	113.475	-79.028	1.00	70.80	KS11	ATOM	9258	O SER	44	219.339	115.334	-59.999	1.00	33.28	KS1
ATOM	9206	CG ASN	38	211.607	113.238	-80.104	1.00	70.80	KS11	ATOM	9259	N GLY	45	217.518	114.772	-58.833	1.00	55.68	KS1
ATOM	9207	OD1 ASN	38	210.954	114.109	-80.066	1.00	70.80	KS11	ATOM	9260	CA GLY	45	218.201	114.913	-57.560	1.00	55.68	KS1
ATOM	9208	ND2 ASN	38	210.954	112.076	-80.066	1.00	70.80	KS11	ATOM	9261	C GLY	45	219.146	113.743	-57.367	1.00	55.68	KS1
ATOM	9209	C ASN	38	213.178	114.760	-76.931	1.00	61.93	KS11	ATOM	9262	O GLY	45	220.115	113.820	-56.614	1.00	55.68	KS1
ATOM	9210	O ASN	38	213.747	115.808	-77.194	1.00	61.93	KS11	ATOM	9263	N GLY	46	218.855	112.646	-58.053	1.00	70.12	KS1
ATOM	9211	N PRO	39	213.438	114.046	-75.845	1.00	47.51	KS11	ATOM	9264	CA GLY	46	219.702	111.478	-57.953	1.00	70.12	KS1
ATOM	9212	CD PRO	39	212.848	112.836	-75.300	1.00	47.51	KS11	ATOM	9265	C GLY	46	220.862	111.589	-58.926	1.00	70.12	KS1
ATOM	9213	CA PRO	39	214.540	114.541	-74.947	1.00	47.51	KS11	ATOM	9266	O GLY	46	221.993	111.225	-58.597	1.00	70.12	KS1
ATOM	9214	CB PRO	39	214.416	113.619	-73.730	1.00	42.40	KS11	ATOM	9267	N VAL	47	220.578	112.084	-60.131	1.00	69.41	KS1
ATOM	9215	CG PRO	39	213.871	112.349	-74.307	1.00	42.40	KS11	ATOM	9268	CA VAL	47	221.604	112.258	-61.153	1.00	69.41	KS1
ATOM	9216	C PRO	39	215.960	114.622	-75.483	1.00	47.51	KS11	ATOM	9269	CB VAL	47	221.120	113.193	-62.268	1.00	76.71	KS1
ATOM	9217	O PRO	39	216.409	113.777	-76.245	1.00	47.51	KS11	ATOM	9270	CG1 VAL	47	220.179	112.441	-63.197	1.00	76.71	KS1
ATOM	9218	N ILE	40	216.655	115.673	-75.078	1.00	55.89	KS11	ATOM	9271	CG2 VAL	47	222.815	112.873	-60.485	1.00	69.41	KS1
ATOM	9219	CA ILE	40	218.042	115.882	-75.454	1.00	55.89	KS11	ATOM	9272	C VAL	47	223.950	112.469	-60.727	1.00	69.41	KS1
ATOM	9220	CB ILE	40	218.332	117.366	-75.699	1.00	65.76	KS11	ATOM	9273	O VAL	47	222.560	113.859	-59.638	1.00	64.12	KS1
ATOM	9221	CG2 ILE	40	219.814	117.635	-75.573	1.00	65.76	KS11	ATOM	9274	N ILE	48	223.627	114.512	-58.906	1.00	64.12	KS1
ATOM	9222	CG1 ILE	40	217.804	117.779	-77.066	1.00	65.76	KS11	ATOM	9275	CA ILE	48	223.340	115.974	-58.713	1.00	40.60	KS1
ATOM	9223	CD1 ILE	40	217.926	119.273	-77.335	1.00	65.76	KS11	ATOM	9276	CB ILE	48	224.620	116.678	-58.268	1.00	40.60	KS1
ATOM	9224	C ILE	40	218.896	115.408	-74.272	1.00	55.89	KS11	ATOM	9277	CG2 ILE	48	222.778	116.556	-60.007	1.00	40.60	KS1
ATOM	9225	O ILE	40	219.856	114.648	-74.445	1.00	55.89	KS11	ATOM	9278	CG1 ILE	48	221.987	117.820	-59.791	1.00	40.60	KS1
ATOM	9226	N THR	41	218.534	115.870	-73.076	1.00	75.56	KS11	ATOM	9279	CD1 ILE	48	223.702	113.868	-57.528	1.00	64.12	KS1
ATOM	9227	CA THR	41	219.235	115.512	-71.847	1.00	75.56	KS11	ATOM	9280	C ILE	48	222.831	113.077	-57.149	1.00	64.12	KS1
ATOM	9228	CB THR	41	220.405	116.466	-71.548	1.00	70.83	KS11	ATOM	9281	O ILE	48	224.732	114.226	-56.774	1.00	43.44	KS1
ATOM	9229	OG1 THR	41	219.926	117.814	-72.574	1.00	70.83	KS11	ATOM	9282	N GLY	49	223.756	112.969	-54.764	1.00	43.44	KS1
ATOM	9230	CG2 THR	41	221.499	116.327	-72.574	1.00	70.83	KS11	ATOM	9283	CA GLY	49	223.578	111.769	-54.915	1.00	43.44	KS1
ATOM	9231	C THR	41	218.286	115.600	-70.672	1.00	75.56	KS11	ATOM	9284	C GLY	49	222.977	113.750	-54.018	1.00	69.10	KS1
ATOM	9232	O THR	41	217.272	116.297	-70.739	1.00	75.56	KS11	ATOM	9285	O GLY	49	221.804	113.321	-53.242	1.00	69.10	KS1
ATOM	9233	N TRP	42	218.632	114.904	-69.592	1.00	58.70	KS11	ATOM	9286	N TYR	50	220.775	114.444	-53.284	1.00	52.48	KS1
ATOM	9234	CA TRP	42	217.826	114.912	-68.379	1.00	58.70	KS11	ATOM	9287	CA TYR	50	221.354	115.774	-52.848	1.00	52.48	KS1
ATOM	9235	CB TRP	42	216.868	113.729	-68.367	1.00	46.01	KS11	ATOM	9288	CB TYR	50	220.768	116.197	-52.850	1.00	52.48	KS1
ATOM	9236	CG TRP	42	217.507	112.396	-68.125	1.00	46.01	KS11	ATOM	9289	CG TYR	50	221.312	118.197	-52.850	1.00	52.48	KS1
ATOM	9237	CD2 TRP	42	218.289	110.713	-66.866	1.00	46.01	KS11	ATOM	9290	CE1 TYR	50	222.501	115.834	-52.059	1.00	52.48	KS1
ATOM	9238	CE3 TRP	42	217.263	112.020	-65.549	1.00	46.01	KS11	ATOM	9291	CD2 TYR	50	223.050	117.054	-51.669	1.00	52.48	KS1
ATOM	9239	CE2 TRP	42	218.071	111.579	-69.061	1.00	46.01	KS11	ATOM	9292	CE1 TYR	50						
ATOM	9240	CD1 TRP	42							ATOM	9293	CE2 TYR	50						

ATOM	9294	CZ	TYR	50	222.451	118.228	-52.068	1.00	52.48	KS11	ATOM	9347	O	THR	57	215.864	120.001	-53.384	1.00	61.98	KS11
ATOM	9295	OH	TYR	50	222.939	119.437	-51.683	1.00	52.48	KS11	ATOM	9348	N	PRO	58	214.618	121.570	-52.367	1.00	65.78	KS11
ATOM	9296	C	TYR	50	221.136	111.983	-53.575	1.00	69.10	KS11	ATOM	9349	CD	PRO	58	214.017	122.174	-51.170	1.00	45.27	KS11
ATOM	9297	O	TYR	50	220.653	111.770	-54.687	1.00	69.10	KS11	ATOM	9350	CA	PRO	58	214.639	122.555	-53.448	1.00	65.78	KS11
ATOM	9298	N	LYS	51	221.104	111.096	-52.583	1.00	63.28	KS11	ATOM	9351	CB	PRO	58	214.105	123.813	-52.816	1.00	45.27	KS11
ATOM	9299	CA	LYS	51	220.527	109.769	-52.753	1.00	63.28	KS11	ATOM	9352	CG	PRO	58	214.376	123.622	-51.360	1.00	45.27	KS11
ATOM	9300	CB	LYS	51	221.489	108.703	-52.223	1.00	58.54	KS11	ATOM	9353	C	PRO	58	216.120	122.778	-53.953	1.00	65.78	KS11
ATOM	9301	CG	LYS	51	221.993	107.746	-53.294	1.00	58.54	KS11	ATOM	9354	O	PRO	58	216.330	123.112	-55.124	1.00	65.78	KS11
ATOM	9302	CD	LYS	51	222.430	106.390	-52.717	1.00	58.54	KS11	ATOM	9355	N	TYR	59	217.101	122.606	-53.076	1.00	63.47	KS11
ATOM	9303	CE	LYS	51	221.227	105.543	-52.232	1.00	58.54	KS11	ATOM	9356	CA	TYR	59	218.467	122.790	-53.517	1.00	63.47	KS11
ATOM	9304	NZ	LYS	51	221.608	104.180	-51.725	1.00	58.54	KS11	ATOM	9357	CB	TYR	59	219.462	122.523	-52.400	1.00	69.66	KS11
ATOM	9305	C	LYS	51	219.154	109.541	-52.112	1.00	63.28	KS11	ATOM	9358	CG	TYR	59	220.864	122.866	-52.815	1.00	69.66	KS11
ATOM	9306	O	LYS	51	218.190	109.182	-52.797	1.00	63.28	KS11	ATOM	9359	CD1	TYR	59	221.130	124.059	-53.485	1.00	69.66	KS11
ATOM	9307	N	GLY	52	219.061	109.717	-50.798	1.00	57.03	KS11	ATOM	9360	CE1	TYR	59	222.426	124.404	-53.864	1.00	69.66	KS11
ATOM	9308	CA	GLY	52	217.788	109.481	-50.141	1.00	57.03	KS11	ATOM	9361	CD2	TYR	59	221.932	122.014	-52.530	1.00	69.66	KS11
ATOM	9309	C	GLY	52	216.919	110.710	-50.110	1.00	57.03	KS11	ATOM	9362	CE2	TYR	59	223.239	122.345	-52.901	1.00	69.66	KS11
ATOM	9310	O	GLY	52	216.781	111.415	-51.103	1.00	57.03	KS11	ATOM	9363	CZ	TYR	59	223.481	123.547	-53.569	1.00	69.66	KS11
ATOM	9311	N	SER	53	216.321	110.958	-48.957	1.00	59.02	KS11	ATOM	9364	OH	TYR	59	224.769	123.904	-53.927	1.00	69.66	KS11
ATOM	9312	CA	SER	53	215.256	112.329	-47.280	1.00	53.53	KS11	ATOM	9365	C	TYR	59	218.069	122.819	-54.651	1.00	63.47	KS11
ATOM	9313	CB	SER	53	214.963	113.688	-47.010	1.00	53.53	KS11	ATOM	9366	O	TYR	59	219.069	122.530	-54.392	1.00	44.55	KS11
ATOM	9314	OG	SER	53	216.048	113.412	-49.393	1.00	59.02	KS11	ATOM	9367	N	ALA	60	218.475	120.530	-54.424	1.00	44.55	KS11
ATOM	9315	C	SER	53	215.365	114.115	-50.136	1.00	59.02	KS11	ATOM	9368	CA	ALA	60	218.116	118.192	-54.959	1.00	18.89	KS11
ATOM	9316	O	SER	53	217.305	113.706	-49.065	1.00	61.63	KS11	ATOM	9369	CB	ALA	60	217.911	119.950	-56.684	1.00	44.55	KS11
ATOM	9317	N	ARG	54	218.017	114.900	-49.525	1.00	61.63	KS11	ATOM	9370	C	ALA	60	216.476	119.962	-57.771	1.00	44.55	KS11
ATOM	9318	CA	ARG	54	219.522	114.663	-49.403	1.00	105.85	KS11	ATOM	9371	O	ALA	61	215.881	120.778	-57.684	1.00	43.96	KS11
ATOM	9319	CB	ARG	54	220.119	115.030	-46.976	1.00	105.85	KS11	ATOM	9372	N	ALA	61	216.850	121.311	-56.541	1.00	43.96	KS11
ATOM	9320	CG	ARG	54	222.026	116.065	-48.776	1.00	105.85	KS11	ATOM	9373	CA	ALA	61	214.592	121.419	-58.421	1.00	80.08	KS11
ATOM	9321	CD	ARG	54	223.677	115.924	-47.191	1.00	105.85	KS11	ATOM	9374	CB	ALA	61	217.336	122.723	-57.693	1.00	59.11	KS11
ATOM	9322	NE	ARG	54	217.685	115.273	-50.961	1.00	61.63	KS11	ATOM	9375	C	ALA	61	216.850	121.750	-59.645	1.00	43.96	KS11
ATOM	9323	CZ	ARG	54	217.654	116.438	-51.332	1.00	61.63	KS11	ATOM	9376	O	ALA	61	217.336	122.723	-57.693	1.00	59.11	KS11
ATOM	9324	NH1	ARG	54	217.441	114.250	-51.759	1.00	45.27	KS11	ATOM	9377	N	GLN	62	218.168	123.725	-58.336	1.00	71.82	KS11
ATOM	9325	NH2	ARG	54	216.874	112.941	-53.690	1.00	24.64	KS11	ATOM	9378	CA	GLN	62	219.518	128.002	-57.033	1.00	71.82	KS11
ATOM	9326	C	ARG	54	216.773	112.744	-55.179	1.00	24.64	KS11	ATOM	9379	CB	GLN	62	220.061	126.794	-56.939	1.00	71.82	KS11
ATOM	9327	O	ARG	54	217.049	110.225	-54.926	1.00	24.64	KS11	ATOM	9380	CG	GLN	62	219.597	125.773	-57.945	1.00	71.82	KS11
ATOM	9328	N	LYS	55	216.197	111.353	-55.495	1.00	24.64	KS11	ATOM	9381	CD	GLN	62	220.892	126.504	-56.080	1.00	71.82	KS11
ATOM	9329	CA	LYS	55	216.874	112.941	-53.690	1.00	24.64	KS11	ATOM	9382	OE1	GLN	62	219.518	128.002	-57.033	1.00	71.82	KS11
ATOM	9330	CB	LYS	55	216.773	112.744	-55.179	1.00	24.64	KS11	ATOM	9383	NE2	GLN	62	219.302	123.063	-59.098	1.00	59.11	KS11
ATOM	9331	CG	LYS	55	216.874	112.941	-53.690	1.00	24.64	KS11	ATOM	9384	C	GLN	62	219.302	123.063	-59.098	1.00	59.11	KS11
ATOM	9332	CD	LYS	55	216.773	112.744	-55.179	1.00	24.64	KS11	ATOM	9385	O	GLN	62	219.390	123.175	-60.318	1.00	59.11	KS11
ATOM	9333	CE	LYS	55	217.049	110.225	-54.926	1.00	24.64	KS11	ATOM	9386	N	LEU	63	220.177	122.376	-58.377	1.00	60.75	KS11
ATOM	9334	NZ	LYS	55	216.385	108.878	-54.942	1.00	45.27	KS11	ATOM	9387	CA	LEU	63	221.291	121.707	-59.016	1.00	60.75	KS11
ATOM	9335	C	LYS	55	215.953	115.303	-53.506	1.00	45.27	KS11	ATOM	9388	CB	LEU	63	221.989	120.771	-58.020	1.00	41.35	KS11
ATOM	9336	O	LYS	55	215.883	115.889	-54.596	1.00	45.27	KS11	ATOM	9389	CG	LEU	63	222.764	121.470	-56.886	1.00	41.35	KS11
ATOM	9337	N	GLY	56	215.012	115.427	-52.574	1.00	84.48	KS11	ATOM	9390	CD1	LEU	63	223.670	120.478	-56.170	1.00	41.35	KS11
ATOM	9338	CA	GLY	56	213.844	116.260	-52.819	1.00	84.48	KS11	ATOM	9391	CD2	LEU	63	223.670	120.478	-56.170	1.00	41.35	KS11
ATOM	9339	C	GLY	56	214.088	117.740	-52.661	1.00	84.48	KS11	ATOM	9392	O	LEU	63	220.842	120.935	-60.260	1.00	60.75	KS11
ATOM	9340	O	GLY	56	213.738	118.541	-53.528	1.00	84.48	KS11	ATOM	9393	C	LEU	63	221.412	121.095	-61.339	1.00	60.75	KS11
ATOM	9341	N	THR	57	214.692	118.090	-51.535	1.00	61.98	KS11	ATOM	9394	N	ALA	64	219.806	120.118	-60.123	1.00	45.93	KS11
ATOM	9342	CA	THR	57	215.016	119.465	-51.203	1.00	61.98	KS11	ATOM	9395	CA	ALA	64	219.316	119.337	-61.254	1.00	45.93	KS11
ATOM	9343	CB	THR	57	216.301	119.535	-50.362	1.00	78.59	KS11	ATOM	9396	CB	ALA	64	218.139	118.440	-60.814	1.00	19.77	KS11
ATOM	9344	OG1	THR	57	216.554	120.896	-50.004	1.00	78.59	KS11	ATOM	9397	C	ALA	64	218.839	120.234	-62.423	1.00	45.93	KS11
ATOM	9345	CG2	THR	57	217.488	119.017	-51.146	1.00	78.59	KS11	ATOM	9398	O	ALA	64	219.144	119.914	-63.590	1.00	45.93	KS11
ATOM	9346	C	THR	57	215.199	120.366	-52.416	1.00	61.98	KS11	ATOM	9399	N	ALA	65	218.265	121.357	-62.114	1.00	49.58	KS11

ATOM	9400	CA	ALA	65	217.840	122.273	-63.161	1.00	49.58	KS11	ATOM	9453	N	MET	73	223.131	123.061	-72.836	1.00	73.84	KS1
ATOM	9401	ALA	ALA	65	217.201	123.525	-62.547	1.00	33.75	KS11	ATOM	9454	CA	MET	73	223.834	124.202	-73.416	1.00	73.84	KS1
ATOM	9402	C	ALA	65	219.075	122.655	-63.959	1.00	49.58	KS11	ATOM	9455	CB	MET	73	224.635	124.901	-72.355	1.00	107.94	KS1
ATOM	9403	O	ALA	65	219.148	122.428	-65.172	1.00	49.58	KS11	ATOM	9456	CG	MET	73	223.930	125.424	-71.145	1.00	107.94	KS1
ATOM	9404	N	LEU	66	220.046	123.225	-63.250	1.00	57.71	KS11	ATOM	9457	SD	MET	73	222.908	126.861	-71.504	1.00	107.94	KS1
ATOM	9405	CA	LEU	66	221.302	123.672	-63.839	1.00	57.71	KS11	ATOM	9458	CE	MET	73	223.665	128.111	-70.461	1.00	107.94	KS1
ATOM	9406	CB	LEU	66	222.229	124.188	-62.743	1.00	49.03	KS11	ATOM	9459	C	MET	73	224.731	123.660	-74.527	1.00	73.84	KS1
ATOM	9407	CD	LEU	66	221.538	125.146	-61.767	1.00	49.03	KS11	ATOM	9460	O	MET	73	224.909	124.290	-75.572	1.00	73.84	KS1
ATOM	9408	CD	LEU	66	222.458	125.437	-60.598	1.00	49.03	KS11	ATOM	9461	N	ALA	74	225.286	122.476	-74.285	1.00	90.31	KS1
ATOM	9409	CD	LEU	66	221.138	126.426	-62.486	1.00	49.03	KS11	ATOM	9462	CA	ALA	74	226.157	121.818	-75.245	1.00	90.31	KS1
ATOM	9410	C	LEU	66	221.978	122.549	-64.606	1.00	57.71	KS11	ATOM	9463	CB	ALA	74	226.546	121.454	-74.730	1.00	90.31	KS1
ATOM	9411	O	LEU	66	222.337	122.720	-65.768	1.00	57.71	KS11	ATOM	9464	C	ALA	74	225.464	121.685	-76.597	1.00	90.31	KS1
ATOM	9412	N	ASP	67	222.148	121.400	-63.956	1.00	54.13	KS11	ATOM	9465	O	ALA	74	225.922	122.252	-77.590	1.00	90.31	KS1
ATOM	9413	CA	ASP	67	222.770	120.255	-64.605	1.00	54.13	KS11	ATOM	9466	N	TYR	75	224.363	120.935	-76.635	1.00	62.47	KS1
ATOM	9414	CB	ASP	67	222.639	118.997	-63.745	1.00	73.96	KS11	ATOM	9467	CA	TYR	75	223.606	120.737	-77.871	1.00	62.47	KS1
ATOM	9415	CG	ASP	67	223.296	117.777	-64.387	1.00	73.96	KS11	ATOM	9468	CB	TYR	75	222.345	119.906	-77.612	1.00	92.26	KS1
ATOM	9416	ODI	ASP	67	222.799	116.644	-64.191	1.00	73.96	KS11	ATOM	9469	CG	TYR	75	222.552	118.416	-77.430	1.00	92.26	KS1
ATOM	9417	OD2	ASP	67	224.319	117.950	-65.080	1.00	73.96	KS11	ATOM	9470	CD1	TYR	75	223.439	117.921	-76.530	1.00	92.26	KS1
ATOM	9418	C	ASP	67	222.074	120.012	-65.933	1.00	54.13	KS11	ATOM	9471	CE1	TYR	75	223.625	116.542	-76.293	1.00	92.26	KS1
ATOM	9419	O	ASP	67	222.719	119.812	-66.952	1.00	54.13	KS11	ATOM	9472	CD2	TYR	75	221.736	117.496	-78.099	1.00	92.26	KS1
ATOM	9420	N	ALA	68	220.749	120.035	-65.923	1.00	52.09	KS11	ATOM	9473	CE2	TYR	75	221.848	116.120	-77.867	1.00	92.26	KS1
ATOM	9421	CA	ALA	68	220.006	119.797	-67.147	1.00	52.09	KS11	ATOM	9474	CZ	TYR	75	222.793	115.649	-76.962	1.00	92.26	KS1
ATOM	9422	CB	ALA	68	218.525	119.684	-66.850	1.00	77.13	KS11	ATOM	9475	OH	TYR	75	222.896	114.296	-76.715	1.00	92.26	KS1
ATOM	9423	C	ALA	68	220.261	120.908	-68.146	1.00	52.09	KS11	ATOM	9476	C	TYR	75	223.191	122.065	-78.507	1.00	62.47	KS1
ATOM	9424	O	ALA	68	220.458	120.646	-69.326	1.00	52.09	KS11	ATOM	9477	O	TYR	75	222.372	122.085	-79.426	1.00	62.47	KS1
ATOM	9425	N	ALA	69	220.269	122.150	-67.677	1.00	61.10	KS11	ATOM	9478	N	GLY	76	223.738	123.169	-78.052	1.00	69.50	KS1
ATOM	9426	CA	ALA	69	220.495	123.278	-68.571	1.00	61.10	KS11	ATOM	9479	CA	GLY	76	223.427	124.477	-78.551	1.00	69.50	KS1
ATOM	9427	CB	ALA	69	220.308	124.576	-67.820	1.00	40.07	KS11	ATOM	9480	C	GLY	76	222.106	125.081	-78.117	1.00	69.50	KS1
ATOM	9428	O	ALA	69	221.888	123.219	-69.198	1.00	61.10	KS11	ATOM	9481	O	GLY	76	221.591	125.973	-78.789	1.00	69.50	KS1
ATOM	9429	C	ALA	69	222.017	123.191	-70.421	1.00	61.10	KS11	ATOM	9482	N	MET	77	221.549	124.606	-77.005	1.00	76.64	KS1
ATOM	9430	N	LVS	70	222.925	123.194	-68.361	1.00	68.75	KS11	ATOM	9483	CA	MET	77	220.282	122.142	-76.507	1.00	76.64	KS1
ATOM	9431	CA	LVS	70	224.305	123.126	-68.838	1.00	68.75	KS11	ATOM	9484	CB	MET	77	219.798	124.373	-75.267	1.00	97.68	KS1
ATOM	9432	CB	LVS	70	225.257	122.880	-67.670	1.00	113.48	KS11	ATOM	9485	CG	MET	77	218.995	123.091	-75.538	1.00	97.68	KS1
ATOM	9433	CG	LVS	70	225.199	123.980	-66.627	1.00	113.48	KS11	ATOM	9486	SD	MET	77	217.312	123.364	-76.168	1.00	97.68	KS1
ATOM	9434	CD	LVS	70	226.006	123.644	-65.382	1.00	113.48	KS11	ATOM	9487	CE	MET	77	216.508	123.857	-74.707	1.00	97.68	KS1
ATOM	9435	CE	LVS	70	225.785	124.697	-64.300	1.00	113.48	KS11	ATOM	9488	C	MET	77	220.471	126.597	-76.129	1.00	76.64	KS1
ATOM	9436	NZ	LVS	70	226.471	124.357	-63.024	1.00	113.48	KS11	ATOM	9489	O	MET	77	221.523	126.982	-75.621	1.00	76.64	KS1
ATOM	9437	C	LVS	70	224.451	122.024	-69.976	1.00	68.75	KS11	ATOM	9490	N	GLN	78	219.449	127.405	-76.377	1.00	91.28	KS1
ATOM	9438	O	LVS	70	224.794	122.299	-71.017	1.00	68.75	KS11	ATOM	9491	CA	GLN	78	219.508	128.816	-76.034	1.00	91.28	KS1
ATOM	9439	N	LVS	71	224.180	120.781	-69.490	1.00	54.87	KS11	ATOM	9492	CB	GLN	78	219.861	129.642	-77.268	1.00	98.39	KS1
ATOM	9440	CA	LVS	71	224.276	119.659	-70.426	1.00	54.87	KS11	ATOM	9493	CG	GLN	78	221.249	129.350	-77.787	1.00	98.39	KS1
ATOM	9441	CB	LVS	71	223.621	118.399	-69.852	1.00	47.26	KS11	ATOM	9494	CD	GLN	78	221.837	130.514	-78.541	1.00	98.39	KS1
ATOM	9442	CG	LVS	71	224.358	117.728	-68.709	1.00	47.26	KS11	ATOM	9495	OE1	GLN	78	221.939	131.622	-78.012	1.00	98.39	KS1
ATOM	9443	CD	LVS	71	223.661	116.420	-68.319	1.00	47.26	KS11	ATOM	9496	NE2	GLN	78	222.236	130.273	-79.782	1.00	98.39	KS1
ATOM	9444	CE	LVS	71	224.441	115.646	-67.257	1.00	47.26	KS11	ATOM	9497	C	GLN	78	218.198	129.307	-75.422	1.00	91.28	KS1
ATOM	9445	NZ	LVS	71	223.846	114.298	-66.991	1.00	47.26	KS11	ATOM	9498	N	GLN	78	218.203	130.007	-74.408	1.00	91.28	KS1
ATOM	9446	C	LVS	71	223.589	119.993	-71.747	1.00	54.87	KS11	ATOM	9499	CA	GLN	79	217.082	128.928	-76.038	1.00	76.87	KS1
ATOM	9447	O	LVS	71	224.054	119.604	-72.818	1.00	54.87	KS11	ATOM	9500	CB	GLN	79	215.757	129.316	-75.567	1.00	76.87	KS1
ATOM	9448	N	ALA	72	222.478	120.712	-71.665	1.00	55.60	KS11	ATOM	9501	CB	GLN	79	215.023	130.111	-76.653	1.00	120.64	KS1
ATOM	9449	CA	ALA	72	221.733	121.078	-72.858	1.00	55.60	KS11	ATOM	9502	OG	GLN	79	213.727	130.496	-76.226	1.00	120.64	KS1
ATOM	9450	C	ALA	72	220.300	121.443	-72.491	1.00	106.43	KS11	ATOM	9503	C	GLN	79	214.963	128.064	-75.222	1.00	76.87	KS1
ATOM	9451	CB	ALA	72	222.399	122.235	-73.582	1.00	55.60	KS11	ATOM	9504	O	GLN	79	215.061	127.051	-75.913	1.00	76.87	KS1
ATOM	9452	O	ALA	72	222.241	122.382	-74.794	1.00	55.60	KS11	ATOM	9505	N	VAL	80	214.174	128.137	-74.154	1.00	80.98	KS1

ATOM	9506	CA	VAL	80	213.374	126.995	-73.732	1.00	80.98	KS11	ATOM	9559	CB	THR	87	202.245	120.200	-55.827	1.00	91.06	KS11
ATOM	9507	CG	VAL	80	214.058	126.222	-72.598	1.00	72.01	KS11	ATOM	9560	OG1	THR	87	200.965	120.192	-56.474	1.00	91.06	KS11
ATOM	9508	CG1	VAL	80	213.542	124.799	-72.563	1.00	72.01	KS11	ATOM	9561	CG2	THR	87	202.411	121.476	-55.012	1.00	91.06	KS11
ATOM	9509	CG2	VAL	80	215.561	126.261	-72.766	1.00	72.01	KS11	ATOM	9562	C	THR	87	204.517	119.423	-56.242	1.00	91.97	KS11
ATOM	9510	C	VAL	80	212.016	127.419	-73.206	1.00	80.98	KS11	ATOM	9563	O	THR	87	204.711	118.229	-56.456	1.00	91.97	KS11
ATOM	9511	O	VAL	80	211.845	128.554	-72.773	1.00	80.98	KS11	ATOM	9564	N	GLY	88	205.308	120.149	-55.847	1.00	56.37	KS11
ATOM	9512	N	ASP	81	211.055	126.497	-73.251	1.00	72.19	KS11	ATOM	9565	CA	GLY	88	206.436	119.491	-54.864	1.00	56.37	KS11
ATOM	9513	CA	ASP	81	209.706	126.728	-72.731	1.00	72.19	KS11	ATOM	9566	C	GLY	88	207.469	120.386	-54.212	1.00	56.37	KS11
ATOM	9514	CB	ASP	81	208.645	126.397	-73.773	1.00	95.47	KS11	ATOM	9567	O	GLY	88	207.473	121.603	-54.408	1.00	56.37	KS11
ATOM	9515	CG	ASP	81	208.765	127.253	-75.007	1.00	95.47	KS11	ATOM	9568	N	ALA	89	208.346	119.762	-53.437	1.00	101.53	KS11
ATOM	9516	OD1	ASP	81	209.814	127.160	-75.681	1.00	95.47	KS11	ATOM	9569	CA	ALA	89	209.420	120.469	-52.768	1.00	101.53	KS11
ATOM	9517	OD2	ASP	81	207.821	128.021	-75.299	1.00	95.47	KS11	ATOM	9570	CB	ALA	89	210.251	119.484	-51.934	1.00	65.79	KS11
ATOM	9518	C	ASP	81	209.574	125.783	-71.556	1.00	72.19	KS11	ATOM	9571	C	ALA	89	210.282	121.106	-53.849	1.00	101.53	KS11
ATOM	9519	O	ASP	81	209.678	124.568	-71.709	1.00	72.19	KS11	ATOM	9572	O	ALA	89	210.706	120.433	-54.794	1.00	101.53	KS11
ATOM	9520	N	VAL	82	209.367	126.337	-70.374	1.00	52.90	KS11	ATOM	9573	N	GLY	90	210.517	122.407	-53.728	1.00	60.68	KS11
ATOM	9521	CA	VAL	82	209.751	126.246	-67.195	1.00	60.35	KS11	ATOM	9574	CA	GLY	90	211.348	123.089	-54.705	1.00	60.68	KS11
ATOM	9522	CB	VAL	82	209.760	125.303	-66.756	1.00	60.35	KS11	ATOM	9575	C	GLY	90	211.881	122.421	-56.960	1.00	60.68	KS11
ATOM	9523	CG1	VAL	82	209.760	125.303	-66.756	1.00	60.35	KS11	ATOM	9576	O	GLY	90	211.881	122.421	-56.960	1.00	60.68	KS11
ATOM	9524	CG2	VAL	82	211.138	126.804	-68.195	1.00	60.35	KS11	ATOM	9577	N	ARG	91	209.822	123.202	-56.582	1.00	67.90	KS11
ATOM	9525	C	VAL	82	207.845	124.991	-68.963	1.00	52.90	KS11	ATOM	9578	CA	ARG	91	209.447	123.096	-57.975	1.00	67.90	KS11
ATOM	9526	O	VAL	82	206.866	125.711	-69.142	1.00	52.90	KS11	ATOM	9579	CB	ARG	91	207.945	122.850	-58.111	1.00	81.55	KS11
ATOM	9527	N	ILE	83	207.764	123.724	-68.577	1.00	48.60	KS11	ATOM	9580	CG	ARG	91	207.407	123.160	-59.493	1.00	81.55	KS11
ATOM	9528	CB	ILE	83	206.503	123.059	-68.311	1.00	48.60	KS11	ATOM	9581	CD	ARG	91	206.223	124.101	-59.412	1.00	81.55	KS11
ATOM	9529	CG1	ILE	83	206.200	122.032	-69.384	1.00	49.26	KS11	ATOM	9582	NE	ARG	91	205.067	123.457	-58.800	1.00	81.55	KS11
ATOM	9530	CG2	ILE	83	204.863	121.381	-69.100	1.00	49.26	KS11	ATOM	9583	CZ	ARG	91	203.970	124.097	-58.409	1.00	81.55	KS11
ATOM	9531	CG1	ILE	83	206.219	122.712	-70.751	1.00	49.26	KS11	ATOM	9584	NH1	ARG	91	203.874	125.409	-58.562	1.00	81.55	KS11
ATOM	9532	CD1	ILE	83	206.049	121.759	-71.898	1.00	49.26	KS11	ATOM	9585	NH2	ARG	91	202.966	123.424	-57.863	1.00	81.55	KS11
ATOM	9533	C	ILE	83	206.594	122.358	-66.963	1.00	48.60	KS11	ATOM	9586	C	ARG	91	209.803	124.464	-58.534	1.00	67.90	KS11
ATOM	9534	O	ILE	83	207.320	121.378	-66.789	1.00	48.60	KS11	ATOM	9587	O	ARG	91	210.383	124.580	-59.608	1.00	67.90	KS11
ATOM	9535	N	VAL	84	205.847	122.884	-66.006	1.00	47.44	KS11	ATOM	9588	N	GLU	92	209.465	125.501	-57.775	1.00	69.25	KS11
ATOM	9536	CB	VAL	84	205.684	123.357	-64.660	1.00	47.44	KS11	ATOM	9589	CA	GLU	92	209.734	127.869	-58.186	1.00	69.25	KS11
ATOM	9537	CG	VAL	84	205.684	123.357	-64.660	1.00	49.78	KS11	ATOM	9590	CB	GLU	92	209.030	127.855	-57.255	1.00	85.57	KS11
ATOM	9538	CG1	VAL	84	207.005	123.787	-62.993	1.00	49.78	KS11	ATOM	9591	CG	GLU	92	208.067	128.809	-57.970	1.00	85.57	KS11
ATOM	9539	CG2	VAL	84	205.226	124.754	-64.408	1.00	49.78	KS11	ATOM	9592	CD	GLU	92	206.975	128.085	-58.761	1.00	85.57	KS11
ATOM	9540	C	VAL	84	204.736	121.341	-64.479	1.00	47.44	KS11	ATOM	9593	OE1	GLU	92	206.427	127.084	-58.250	1.00	85.57	KS11
ATOM	9541	O	VAL	84	203.595	121.572	-64.852	1.00	47.44	KS11	ATOM	9594	OE2	GLU	92	206.655	128.525	-58.890	1.00	85.57	KS11
ATOM	9542	N	ARG	85	205.088	120.196	-63.923	1.00	49.26	KS11	ATOM	9595	C	GLU	92	211.225	127.156	-58.212	1.00	69.25	KS11
ATOM	9543	CA	ARG	85	204.115	119.153	-63.700	1.00	49.26	KS11	ATOM	9596	O	GLU	92	211.684	127.959	-59.020	1.00	69.25	KS11
ATOM	9544	CB	ARG	85	204.341	117.981	-64.651	1.00	65.11	KS11	ATOM	9597	N	GLN	93	211.979	126.502	-57.332	1.00	73.63	KS11
ATOM	9545	CG	ARG	85	203.908	118.231	-66.070	1.00	65.11	KS11	ATOM	9598	CA	GLN	93	213.427	126.690	-57.278	1.00	73.63	KS11
ATOM	9546	CD	ARG	85	203.984	116.941	-66.678	1.00	65.11	KS11	ATOM	9599	CB	GLN	93	214.016	125.931	-56.093	1.00	97.01	KS11
ATOM	9547	NE	ARG	85	202.814	117.138	-68.001	1.00	65.11	KS11	ATOM	9600	CG	GLN	93	214.555	126.837	-55.012	1.00	97.01	KS11
ATOM	9548	CZ	ARG	85	203.497	117.052	-69.136	1.00	65.11	KS11	ATOM	9601	CD	GLN	93	215.788	127.587	-55.460	1.00	97.01	KS11
ATOM	9549	NH1	ARG	85	204.789	116.768	-69.112	1.00	65.11	KS11	ATOM	9602	OE1	GLN	93	216.842	126.991	-55.675	1.00	97.01	KS11
ATOM	9550	NH2	ARG	85	202.889	117.243	-70.297	1.00	65.11	KS11	ATOM	9603	NE2	GLN	93	215.664	128.901	-55.573	1.00	97.01	KS11
ATOM	9551	O	ARG	85	204.234	118.659	-62.279	1.00	49.26	KS11	ATOM	9604	C	GLN	93	214.058	126.197	-58.572	1.00	73.63	KS11
ATOM	9552	O	ARG	85	205.301	118.196	-61.861	1.00	49.26	KS11	ATOM	9605	O	GLN	93	215.075	126.727	-59.026	1.00	73.63	KS11
ATOM	9553	N	GLY	86	203.133	118.770	-61.540	1.00	49.41	KS11	ATOM	9606	N	ALA	94	213.443	125.176	-59.164	1.00	64.06	KS11
ATOM	9554	CA	GLY	86	203.099	118.309	-60.166	1.00	49.41	KS11	ATOM	9607	CA	ALA	94	213.915	123.612	-60.416	1.00	64.06	KS11
ATOM	9555	C	GLY	86	203.513	119.338	-59.146	1.00	49.41	KS11	ATOM	9608	CB	ALA	94	213.198	123.313	-60.701	1.00	14.00	KS11
ATOM	9556	O	GLY	86	204.270	120.248	-59.435	1.00	49.41	KS11	ATOM	9609	C	ALA	94	213.614	125.619	-61.509	1.00	64.06	KS11
ATOM	9557	N	THR	87	202.988	119.201	-57.940	1.00	91.97	KS11	ATOM	9610	O	ALA	94	214.458	125.920	-62.341	1.00	64.06	KS11
ATOM	9558	CA	THR	87	203.340	120.112	-56.873	1.00	91.97	KS11	ATOM	9611	N	ILE	95	212.396	126.139	-61.500	1.00	56.80	KS11

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ATOM	9612	CA	ILE	95	211.987	127.122	-62.489	1.00	56.80	KS11	ATOM	9665	C	GLY	102	220.647	131.075	-70.087	1.00	98.83	KS1
ATOM	9613	CB	ILE	95	210.532	127.563	-62.261	1.00	52.54	KS11	ATOM	9666	O	GLY	102	220.522	132.006	-70.886	1.00	98.83	KS1
ATOM	9614	CG2	ILE	95	210.134	128.608	-63.294	1.00	52.54	KS11	ATOM	9667	N	LEU	103	219.913	129.970	-70.129	1.00	77.36	KS1
ATOM	9615	CG1	ILE	95	209.609	126.348	-62.328	1.00	52.54	KS11	ATOM	9668	CA	LEU	103	218.876	129.770	-71.132	1.00	77.36	KS1
ATOM	9616	CD1	ILE	95	208.147	126.692	-62.227	1.00	52.54	KS11	ATOM	9669	CB	LEU	103	218.245	128.390	-70.962	1.00	45.15	KS1
ATOM	9617	C	ILE	95	212.875	128.356	-62.336	1.00	56.80	KS11	ATOM	9670	CG	LEU	103	219.210	127.218	-71.067	1.00	45.15	KS1
ATOM	9618	O	ILE	95	212.974	129.134	-63.341	1.00	56.80	KS11	ATOM	9671	CD1	LEU	103	218.571	125.958	-70.494	1.00	45.15	KS1
ATOM	9619	N	ARG	96	213.516	128.540	-61.247	1.00	74.80	KS11	ATOM	9672	CD2	LEU	103	219.596	127.035	-72.526	1.00	45.15	KS1
ATOM	9620	CA	ARG	96	214.380	129.691	-61.042	1.00	74.80	KS11	ATOM	9673	C	LEU	103	217.789	130.830	-70.995	1.00	77.36	KS1
ATOM	9621	CB	ARG	96	214.468	130.014	-59.546	1.00	32.67	KS11	ATOM	9674	O	LEU	103	217.345	131.155	-69.892	1.00	77.36	KS1
ATOM	9622	CG	ARG	96	213.189	130.650	-59.015	1.00	32.67	KS11	ATOM	9675	N	GLN	104	217.373	131.383	-72.122	1.00	69.34	KS1
ATOM	9623	CD	ARG	96	212.962	130.409	-57.526	1.00	32.67	KS11	ATOM	9676	CA	GLN	104	216.318	132.367	-72.094	1.00	69.34	KS1
ATOM	9624	NE	ARG	96	213.904	131.123	-56.669	1.00	32.67	KS11	ATOM	9677	CB	GLN	104	216.274	133.151	-73.404	1.00	103.58	KS1
ATOM	9625	C2	ARG	96	213.808	131.177	-55.343	1.00	32.67	KS11	ATOM	9678	CG	GLN	104	215.196	134.218	-73.431	1.00	103.58	KS1
ATOM	9626	NH1	ARG	96	212.809	130.559	-54.725	1.00	32.67	KS11	ATOM	9679	CD	GLN	104	214.815	134.627	-74.840	1.00	103.58	KS1
ATOM	9627	NH2	ARG	96	214.710	131.846	-54.633	1.00	32.67	KS11	ATOM	9680	OE1	GLN	104	214.487	133.781	-75.672	1.00	103.58	KS1
ATOM	9628	C	ARG	96	215.755	129.438	-61.626	1.00	74.80	KS11	ATOM	9681	NE2	GLN	104	214.849	135.928	-75.115	1.00	103.58	KS1
ATOM	9629	O	ARG	96	216.260	130.231	-62.422	1.00	74.80	KS11	ATOM	9682	C	GLN	104	215.045	131.546	-71.938	1.00	69.34	KS1
ATOM	9630	N	ALA	97	216.355	128.319	-61.244	1.00	61.68	KS11	ATOM	9683	O	GLN	104	214.789	130.636	-72.730	1.00	69.34	KS1
ATOM	9631	CB	ALA	97	217.677	127.981	-61.747	1.00	61.68	KS11	ATOM	9684	N	VAL	105	214.270	131.843	-70.899	1.00	53.78	KS1
ATOM	9632	CA	ALA	97	218.124	126.633	-61.202	1.00	55.20	KS11	ATOM	9685	CA	VAL	105	213.019	131.141	-70.666	1.00	53.78	KS1
ATOM	9633	C	ALA	97	217.678	127.960	-63.270	1.00	61.68	KS11	ATOM	9686	CB	VAL	105	212.704	131.035	-69.177	1.00	47.04	KS1
ATOM	9634	O	ALA	97	218.692	128.265	-63.886	1.00	61.68	KS11	ATOM	9687	CG1	VAL	105	211.342	130.363	-68.992	1.00	47.04	KS1
ATOM	9635	N	LEU	98	216.549	127.599	-63.876	1.00	69.59	KS11	ATOM	9688	CG2	VAL	105	213.803	130.253	-68.466	1.00	47.04	KS1
ATOM	9636	CA	LEU	98	216.476	127.567	-65.329	1.00	69.59	KS11	ATOM	9689	C	VAL	105	211.889	131.910	-71.337	1.00	53.78	KS1
ATOM	9637	CB	LEU	98	215.157	126.974	-65.823	1.00	44.32	KS11	ATOM	9690	O	VAL	105	211.576	133.030	-70.944	1.00	53.78	KS1
ATOM	9638	CG	LEU	98	215.118	125.452	-65.987	1.00	44.32	KS11	ATOM	9691	N	LYS	106	211.288	131.302	-72.355	1.00	69.08	KS1
ATOM	9639	CD1	LEU	98	213.960	125.050	-66.904	1.00	44.32	KS11	ATOM	9692	CA	LYS	106	210.194	131.919	-73.100	1.00	69.08	KS1
ATOM	9640	CD2	LEU	98	216.437	124.982	-66.585	1.00	44.32	KS11	ATOM	9693	CB	LYS	106	209.975	131.186	-74.427	1.00	139.00	KS1
ATOM	9641	C	LEU	98	216.607	128.965	-65.871	1.00	69.59	KS11	ATOM	9694	CG	LYS	106	211.035	131.456	-75.476	1.00	139.00	KS1
ATOM	9642	O	LEU	98	217.453	129.232	-66.720	1.00	69.59	KS11	ATOM	9695	CD	LYS	106	211.102	132.938	-75.792	1.00	139.00	KS1
ATOM	9643	N	GLN	99	215.769	129.866	-65.379	1.00	81.95	KS11	ATOM	9696	CE	LYS	106	212.041	133.222	-76.947	1.00	139.00	KS1
ATOM	9644	CA	GLN	99	215.814	131.242	-65.839	1.00	81.95	KS11	ATOM	9697	NZ	LYS	106	212.176	134.687	-77.191	1.00	139.00	KS1
ATOM	9645	CB	GLN	99	214.840	132.089	-65.032	1.00	70.77	KS11	ATOM	9698	C	LYS	106	208.897	131.909	-72.309	1.00	69.08	KS1
ATOM	9646	CG	GLN	99	213.404	131.745	-65.333	1.00	70.77	KS11	ATOM	9699	O	LYS	106	208.107	132.852	-72.373	1.00	69.08	KS1
ATOM	9647	CD	GLN	99	212.431	132.586	-64.556	1.00	70.77	KS11	ATOM	9700	N	SER	107	208.680	130.841	-71.554	1.00	73.07	KS1
ATOM	9648	OE1	GLN	99	212.395	132.531	-63.328	1.00	70.77	KS11	ATOM	9701	CA	SER	107	207.458	130.731	-70.782	1.00	73.07	KS1
ATOM	9649	NE2	GLN	99	211.634	133.378	-65.264	1.00	70.77	KS11	ATOM	9702	CB	SER	107	206.291	130.463	-71.718	1.00	50.36	KS1
ATOM	9650	C	GLN	99	217.216	131.816	-65.747	1.00	81.95	KS11	ATOM	9703	OG	SER	107	206.417	129.168	-72.277	1.00	50.36	KS1
ATOM	9651	O	GLN	99	217.647	132.551	-66.634	1.00	81.95	KS11	ATOM	9704	C	SER	107	207.484	129.627	-69.747	1.00	73.07	KS1
ATOM	9652	N	ALA	100	217.932	131.458	-64.685	1.00	81.41	KS11	ATOM	9705	O	SER	107	208.251	128.670	-69.835	1.00	73.07	KS1
ATOM	9653	CA	ALA	100	219.289	131.949	-64.474	1.00	81.41	KS11	ATOM	9706	N	ILE	108	206.617	129.779	-68.761	1.00	50.06	KS1
ATOM	9654	CB	ALA	100	219.580	132.023	-62.984	1.00	28.40	KS11	ATOM	9707	CA	ILE	108	206.465	128.793	-67.714	1.00	50.06	KS1
ATOM	9655	C	ALA	100	220.372	131.122	-65.173	1.00	81.41	KS11	ATOM	9708	CB	ILE	108	206.837	129.374	-66.346	1.00	44.57	KS1
ATOM	9656	O	ALA	100	221.411	131.652	-65.566	1.00	81.41	KS11	ATOM	9709	CG2	ILE	108	206.944	128.247	-65.319	1.00	44.57	KS1
ATOM	9657	N	SER	101	220.129	128.826	-65.323	1.00	90.50	KS11	ATOM	9710	CG1	ILE	108	208.188	130.092	-66.458	1.00	44.57	KS1
ATOM	9658	CA	SER	101	221.083	128.923	-65.960	1.00	90.50	KS11	ATOM	9711	CD1	ILE	108	208.585	130.943	-65.242	1.00	44.57	KS1
ATOM	9659	CB	SER	101	220.362	127.679	-66.461	1.00	57.25	KS11	ATOM	9712	C	ILE	108	204.983	128.427	-67.787	1.00	50.06	KS1
ATOM	9660	OG	SER	101	219.586	127.997	-67.602	1.00	57.25	KS11	ATOM	9713	O	ILE	108	204.117	129.297	-67.906	1.00	50.06	KS1
ATOM	9661	C	SER	101	221.795	129.574	-67.138	1.00	90.50	KS11	ATOM	9714	N	VAL	109	204.701	127.131	-67.748	1.00	56.83	KS1
ATOM	9662	O	SER	101	222.954	129.276	-67.425	1.00	90.50	KS11	ATOM	9715	CA	VAL	109	203.339	126.647	-67.868	1.00	56.83	KS1
ATOM	9663	N	GLY	102	221.087	130.461	-67.822	1.00	98.83	KS11	ATOM	9716	CB	VAL	109	203.057	126.267	-69.346	1.00	32.41	KS1
ATOM	9664	CA	GLY	102	221.662	131.129	-68.971	1.00	98.83	KS11	ATOM	9717	CG1	VAL	109	201.750	125.546	-69.478	1.00	32.41	KS1

ATOM	9718	CG2 VAL	109	203.038	127.513	-70.186	1.00	32.41	KS11	ATOM	9771	CE1 HIS	116	190.002	116.997	-66.140	1.00	45.31	KS11
ATOM	9719	C VAL	109	203.059	125.448	-66.969	1.00	56.83	KS11	ATOM	9772	NE2 HIS	116	189.210	117.049	-67.194	1.00	45.31	KS11
ATOM	9720	C VAL	109	203.755	124.430	-67.036	1.00	56.83	KS11	ATOM	9773	C HIS	116	187.467	113.057	-62.942	1.00	44.54	KS11
ATOM	9721	N ASP	110	202.047	125.577	-66.115	1.00	56.95	KS11	ATOM	9774	O HIS	116	186.311	112.709	-63.161	1.00	44.54	KS11
ATOM	9722	CA ASP	110	201.677	124.477	-65.248	1.00	56.95	KS11	ATOM	9775	N ASN	117	188.237	112.571	-61.963	1.00	55.99	KS11
ATOM	9723	CB ASP	110	200.974	124.962	-63.988	1.00126.19		KS11	ATOM	9776	CA ASN	117	187.894	111.523	-61.018	1.00	55.99	KS11
ATOM	9724	CG ASP	110	200.470	123.809	-63.137	1.00126.19		KS11	ATOM	9777	CB ASN	117	186.634	111.892	-60.269	1.00	88.11	KS11
ATOM	9725	OD1 ASP	110	199.647	123.010	-63.637	1.00126.19		KS11	ATOM	9778	CG ASN	117	186.900	112.946	-59.235	1.00	88.11	KS11
ATOM	9726	OD2 ASP	110	200.897	123.691	-61.972	1.00126.19		KS11	ATOM	9779	OD1 ASN	117	187.535	112.681	-58.210	1.00	88.11	KS11
ATOM	9727	C ASP	110	199.645	124.034	-66.416	1.00	56.95	KS11	ATOM	9780	ND2 ASN	117	186.448	114.163	-59.505	1.00	88.11	KS11
ATOM	9728	C ASP	110	201.153	122.367	-66.291	1.00	51.87	KS11	ATOM	9781	C ASN	117	187.751	110.218	-61.750	1.00	55.99	KS11
ATOM	9729	N ASP	111	200.358	121.402	-67.030	1.00	51.87	KS11	ATOM	9782	O ASN	117	186.696	109.939	-62.300	1.00	55.99	KS11
ATOM	9730	CA ASP	111	201.008	121.107	-68.384	1.00	93.32	KS11	ATOM	9783	N GLY	118	188.826	109.428	-61.770	1.00	41.00	KS11
ATOM	9731	CB ASP	111	200.226	120.094	-69.201	1.00	93.32	KS11	ATOM	9784	CA GLY	118	188.794	108.167	-62.486	1.00	41.00	KS11
ATOM	9732	CG ASP	111	198.984	120.214	-69.269	1.00	93.32	KS11	ATOM	9785	C GLY	118	189.261	106.918	-61.755	1.00	41.00	KS11
ATOM	9733	OD1 ASP	111	200.852	119.183	-69.784	1.00	93.32	KS11	ATOM	9786	O GLY	118	188.541	105.907	-61.724	1.00	41.00	KS11
ATOM	9734	OD2 ASP	111	200.265	120.127	-66.194	1.00	51.87	KS11	ATOM	9787	N CYS	119	190.463	106.955	-61.181	1.00	35.77	KS11
ATOM	9735	C ASP	111	200.265	120.127	-66.194	1.00	51.87	KS11	ATOM	9788	CA CYS	119	190.986	105.787	-60.468	1.00	35.77	KS11
ATOM	9736	O ASP	111	200.223	119.005	-66.719	1.00	51.87	KS11	ATOM	9789	CB CYS	119	192.385	105.435	-60.978	1.00	54.95	KS11
ATOM	9737	N THR	112	200.239	120.306	-64.877	1.00	69.92	KS11	ATOM	9790	SG CYS	119	192.449	104.883	-62.684	1.00	54.95	KS11
ATOM	9738	CA THR	112	200.141	119.172	-63.975	1.00	69.92	KS11	ATOM	9791	C CYS	119	191.047	105.982	-58.966	1.00	35.77	KS11
ATOM	9739	CB THR	112	200.108	119.616	-62.511	1.00	57.85	KS11	ATOM	9792	O CYS	119	191.508	107.026	-58.493	1.00	35.77	KS11
ATOM	9740	OG1 THR	112	201.230	120.470	-62.231	1.00	57.85	KS11	ATOM	9793	N ARG	120	190.585	104.984	-58.209	1.00	31.46	KS11
ATOM	9741	CG2 THR	112	200.159	118.395	-61.609	1.00	57.85	KS11	ATOM	9794	CA ARG	120	190.635	105.109	-56.760	1.00	31.46	KS11
ATOM	9742	C THR	112	198.841	118.448	-64.282	1.00	69.92	KS11	ATOM	9795	CB ARG	120	190.053	103.883	-56.037	1.00	42.73	KS11
ATOM	9743	O THR	112	197.779	119.061	-64.306	1.00	69.92	KS11	ATOM	9796	CG ARG	120	190.576	103.758	-54.585	1.00	42.73	KS11
ATOM	9744	N PRO	113	198.907	117.132	-64.518	1.00	72.31	KS11	ATOM	9797	CD ARG	120	189.888	102.717	-53.694	1.00	42.73	KS11
ATOM	9745	CD PRO	113	200.103	116.275	-64.431	1.00	47.14	KS11	ATOM	9798	NE ARG	120	188.601	103.195	-53.185	1.00	42.73	KS11
ATOM	9746	CA PRO	113	197.721	116.329	-64.825	1.00	72.31	KS11	ATOM	9799	CZ ARG	120	188.039	102.817	-52.032	1.00	42.73	KS11
ATOM	9747	CB PRO	113	198.322	114.995	-65.245	1.00	47.14	KS11	ATOM	9800	NH1 ARG	120	188.629	101.944	-51.223	1.00	42.73	KS11
ATOM	9748	CG PRO	113	199.504	114.885	-64.335	1.00	47.14	KS11	ATOM	9801	NH2 ARG	120	186.863	103.313	-51.681	1.00	42.73	KS11
ATOM	9749	C PRO	113	196.757	116.173	-63.647	1.00	72.31	KS11	ATOM	9802	C ARG	120	192.105	105.221	-56.449	1.00	31.46	KS11
ATOM	9750	O PRO	113	197.148	116.214	-62.483	1.00	57.67	KS11	ATOM	9803	O ARG	120	192.912	104.439	-56.953	1.00	31.46	KS11
ATOM	9751	N VAL	114	195.487	115.988	-63.957	1.00	57.67	KS11	ATOM	9804	N PRO	121	192.489	106.228	-55.664	1.00	34.86	KS11
ATOM	9752	CA VAL	114	194.494	115.805	-62.920	1.00	57.67	KS11	ATOM	9805	CD PRO	121	191.765	107.466	-55.369	1.00	34.86	KS11
ATOM	9753	CB VAL	114	193.978	117.143	-62.402	1.00	43.75	KS11	ATOM	9806	CA PRO	121	193.901	106.373	-55.328	1.00	34.86	KS11
ATOM	9754	CG1 VAL	114	193.505	118.003	-63.554	1.00	43.75	KS11	ATOM	9807	CB PRO	121	194.020	107.852	-54.990	1.00	34.86	KS11
ATOM	9755	CG2 VAL	114	192.835	116.904	-61.444	1.00	43.75	KS11	ATOM	9808	CG PRO	121	192.710	108.166	-54.434	1.00	34.86	KS11
ATOM	9756	C VAL	114	193.341	115.015	-63.505	1.00	57.67	KS11	ATOM	9809	C PRO	121	194.221	105.471	-54.156	1.00	34.86	KS11
ATOM	9757	O VAL	114	192.832	115.334	-64.574	1.00	57.67	KS11	ATOM	9810	O PRO	121	193.303	105.017	-53.462	1.00	34.86	KS11
ATOM	9758	N PRO	115	192.907	113.968	-62.809	1.00	50.61	KS11	ATOM	9811	N PRO	122	195.509	105.189	-53.846	1.00	31.26	KS11
ATOM	9759	CD PRO	115	193.259	113.498	-61.469	1.00	28.81	KS11	ATOM	9812	CA PRO	122	195.913	104.328	-52.942	1.00	31.26	KS11
ATOM	9760	CA PRO	115	191.803	113.183	-63.346	1.00	50.61	KS11	ATOM	9813	CB PRO	122	197.403	104.011	-52.919	1.00	63.91	KS11
ATOM	9761	CB PRO	115	191.799	111.926	-62.477	1.00	28.81	KS11	ATOM	9814	CG PRO	122	198.238	105.116	-53.532	1.00	63.91	KS11
ATOM	9762	CG PRO	115	193.066	112.025	-61.628	1.00	28.81	KS11	ATOM	9815	CD PRO	122	199.726	104.786	-53.459	1.00	63.91	KS11
ATOM	9763	C PRO	115	190.526	113.945	-63.154	1.00	50.61	KS11	ATOM	9816	CE PRO	122	200.074	103.473	-54.151	1.00	63.91	KS11
ATOM	9764	O PRO	115	190.460	114.874	-62.354	1.00	50.61	KS11	ATOM	9817	NZ PRO	122	201.490	103.093	-53.882	1.00	63.91	KS11
ATOM	9765	N HIS	116	189.510	113.543	-63.894	1.00	44.54	KS11	ATOM	9818	C PRO	122	195.583	105.033	-51.545	1.00	31.26	KS11
ATOM	9766	CA HIS	116	188.196	114.133	-63.761	1.00	44.54	KS11	ATOM	9819	O PRO	122	195.559	106.276	-51.484	1.00	31.26	KS11
ATOM	9767	CB HIS	116	187.658	114.393	-65.161	1.00	45.31	KS11	ATOM	9820	N PRO	123	195.304	104.227	-50.524	1.00	32.41	KS11
ATOM	9768	CG HIS	116	188.440	115.457	-65.884	1.00	45.31	KS11	ATOM	9821	CA PRO	123	194.946	104.717	-49.195	1.00	32.41	KS11
ATOM	9769	CD2 HIS	116	188.228	116.092	-67.064	1.00	45.31	KS11	ATOM	9822	CB PRO	123	195.291	103.668	-48.141	1.00	35.54	KS11
ATOM	9770	ND1 HIS	116	189.564	116.043	-65.335	1.00	45.31	KS11	ATOM	9823	CG PRO	123	194.926	104.052	-46.735	1.00	35.54	KS11

ATOM	9824	CD	LYS	123	195.088	102.862	-45.811	1.00	35.54	KS11	ATOM	9877	CG	SER	129	185.171	112.705	-50.030	1.00123.91	KS.
ATOM	9825	CE	LYS	123	195.116	103.270	-44.339	1.00	35.54	KS11	ATOM	9878	C	SER	129	185.665	114.383	-47.650	1.00201.09	KS.
ATOM	9826	NZ	LYS	123	195.176	102.084	-43.403	1.00	35.54	KS11	ATOM	9879	O	SER	129	186.690	113.962	-47.070	1.00201.09	KS.
ATOM	9827	C	LYS	123	195.632	106.029	-48.879	1.00	32.41	KS11	ATOM	9880	OXT	SER	129	184.539	114.427	-47.109	1.00152.88	KSJ
ATOM	9828	O	LYS	123	194.966	107.014	-48.621	1.00	32.41	KS11	ATOM	9881	CB	ALA	2	216.204	137.284	-23.252	1.00 20.75	GS*
ATOM	9829	N	LYS	124	196.959	106.046	-48.907	1.00	37.72	KS11	ATOM	9882	C	ALA	2	213.864	136.510	-22.819	1.00 41.99	GS*
ATOM	9830	CA	LYS	124	197.727	107.263	-49.650	1.00	37.72	KS11	ATOM	9883	O	ALA	2	213.739	136.543	-24.036	1.00 41.99	GS*
ATOM	9831	CB	LYS	124	199.103	107.154	-49.308	1.00127.62		KS11	ATOM	9884	N	ALA	2	215.875	135.532	-21.563	1.00 41.99	GS*
ATOM	9832	CG	LYS	124	200.263	106.985	-48.364	1.00127.62		KS11	ATOM	9885	CA	ALA	2	215.252	136.737	-22.192	1.00 41.99	GS*
ATOM	9833	CE	LYS	124	200.703	108.301	-47.756	1.00127.62		KS11	ATOM	9886	N	ARG	3	212.819	136.300	-22.019	1.00 69.88	GS*
ATOM	9834	CE	LYS	124	201.962	108.108	-46.913	1.00127.62		KS11	ATOM	9887	CA	ARG	3	211.492	136.107	-22.615	1.00 69.88	GS*
ATOM	9835	NZ	LYS	124	202.499	109.383	-46.358	1.00127.62		KS11	ATOM	9888	CB	ARG	3	210.521	135.452	-21.624	1.00 32.79	GS*
ATOM	9836	C	LYS	124	197.035	108.509	-49.203	1.00 37.72		KS11	ATOM	9889	CG	ARG	3	210.245	133.983	-21.904	1.00 32.79	GS*
ATOM	9837	O	LYS	124	196.474	109.301	-48.462	1.00 37.72		KS11	ATOM	9890	CD	ARG	3	209.528	133.333	-20.732	1.00 32.79	GS*
ATOM	9838	N	PHE	125	197.062	108.660	-50.521	1.00 57.60		KS11	ATOM	9891	NE	ARG	3	209.761	131.886	-20.649	1.00 32.79	GS*
ATOM	9839	CA	PHE	125	196.501	109.828	-51.190	1.00 54.94		KS11	ATOM	9892	CZ	ARG	3	209.518	131.032	-21.637	1.00 32.79	GS*
ATOM	9840	CB	PHE	125	197.124	109.952	-52.582	1.00 54.94		KS11	ATOM	9893	NH1	ARG	3	209.031	131.475	-22.794	1.00 32.79	GS*
ATOM	9841	CG	PHE	125	198.621	109.929	-52.564	1.00 54.94		KS11	ATOM	9894	NH2	ARG	3	209.761	129.741	-21.471	1.00 32.79	GS*
ATOM	9842	CD1	PHE	125	199.303	108.782	-52.181	1.00 54.94		KS11	ATOM	9895	C	ARG	3	210.897	137.416	-23.136	1.00 69.88	GS*
ATOM	9843	CD2	PHE	125	199.349	111.077	-52.842	1.00 54.94		KS11	ATOM	9896	O	ARG	3	209.851	137.419	-23.779	1.00 69.88	GS*
ATOM	9844	CE1	PHE	125	200.691	108.776	-52.061	1.00 54.94		KS11	ATOM	9897	N	ARG	4	211.569	138.525	-22.855	1.00117.67	GS*
ATOM	9845	CE2	PHE	125	200.739	111.091	-52.731	1.00 54.94		KS11	ATOM	9898	CA	ARG	4	211.130	139.836	-23.319	1.00117.67	GS*
ATOM	9846	CZ	PHE	125	201.414	109.935	-52.336	1.00 54.94		KS11	ATOM	9899	CB	ARG	4	210.098	140.420	-22.357	1.00 75.23	GS*
ATOM	9847	C	PHE	125	194.994	109.821	-51.295	1.00 57.60		KS11	ATOM	9900	CG	ARG	4	210.286	140.031	-20.905	1.00 75.23	GS*
ATOM	9848	O	PHE	125	194.370	108.887	-50.600	1.00 59.51		KS11	ATOM	9901	CD	ARG	4	209.066	140.471	-20.102	1.00 75.23	GS*
ATOM	9849	N	ARG	126	192.925	108.779	-50.650	1.00 59.51		KS11	ATOM	9902	NE	ARG	4	207.973	139.959	-17.941	1.00 75.23	GS*
ATOM	9850	CA	ARG	126	192.925	108.779	-50.650	1.00 59.51		KS11	ATOM	9903	CZ	ARG	4	206.825	140.479	-18.370	1.00 75.23	GS*
ATOM	9851	CB	ARG	126	192.542	107.319	-50.876	1.00 61.23		KS11	ATOM	9904	NH1	ARG	4	208.048	139.445	-16.714	1.00 75.23	GS*
ATOM	9852	CG	ARG	126	191.145	107.117	-51.355	1.00 61.23		KS11	ATOM	9905	NH2	ARG	4	212.348	140.745	-23.438	1.00117.67	GS*
ATOM	9853	CD	ARG	126	190.396	106.215	-50.440	1.00 61.23		KS11	ATOM	9906	C	ARG	4	213.420	140.402	-22.944	1.00 94.79	GS*
ATOM	9854	NE	ARG	126	188.985	106.269	-50.777	1.00 61.23		KS11	ATOM	9907	O	ARG	5	212.197	141.891	-24.039	1.00 94.79	GS*
ATOM	9855	CZ	ARG	126	188.024	105.751	-50.027	1.00 61.23		KS11	ATOM	9908	N	ARG	5	213.317	142.821	-24.286	1.00 94.79	GS*
ATOM	9856	NH1	ARG	126	188.329	105.133	-48.890	1.00 61.23		KS11	ATOM	9909	CA	ARG	5	213.982	143.190	-22.955	1.00165.33	GS*
ATOM	9857	NH2	ARG	126	186.761	105.870	-50.411	1.00 61.23		KS11	ATOM	9910	CB	ARG	5	213.221	144.109	-22.020	1.00165.33	GS*
ATOM	9858	C	ARG	126	192.289	109.276	-49.371	1.00 59.51		KS11	ATOM	9911	CG	ARG	5	214.070	144.318	-20.769	1.00165.33	GS*
ATOM	9859	O	ARG	126	192.338	108.591	-48.353	1.00 59.51		KS11	ATOM	9912	CD	ARG	5	213.453	145.182	-19.768	1.00165.33	GS*
ATOM	9860	N	LYS	127	191.639	110.464	-49.410	1.00128.86		KS11	ATOM	9913	NE	ARG	5	213.999	145.452	-18.585	1.00165.33	GS*
ATOM	9861	CA	LYS	127	192.046	111.205	-47.078	1.00100.62		KS11	ATOM	9914	CZ	ARG	5	215.171	144.924	-18.258	1.00165.33	GS*
ATOM	9862	CB	LYS	127	191.875	110.197	-45.940	1.00100.62		KS11	ATOM	9915	NH1	ARG	5	213.378	146.249	-17.725	1.00165.33	GS*
ATOM	9863	CG	LYS	127	190.423	110.176	-45.445	1.00100.62		KS11	ATOM	9916	NH2	ARG	5	214.387	142.172	-25.147	1.00 94.79	GS*
ATOM	9864	CD	LYS	127	190.127	108.964	-44.571	1.00100.62		KS11	ATOM	9917	C	ARG	5	214.424	140.956	-25.693	1.00 94.79	GS*
ATOM	9865	CE	LYS	127	190.923	108.968	-43.316	1.00100.62		KS11	ATOM	9918	O	ARG	6	216.363	142.487	-26.505	1.00 66.30	GS*
ATOM	9866	NZ	LYS	127	190.288	112.299	-48.482	1.00128.86		KS11	ATOM	9919	N	ARG	6	216.459	143.249	-27.826	1.00136.01	GS*
ATOM	9867	C	LYS	127	189.046	113.011	-47.544	1.00128.86		KS11	ATOM	9920	CA	ARG	6	215.876	142.519	-29.018	1.00136.01	GS*
ATOM	9868	O	LYS	128	189.925	112.600	-49.753	1.00201.09		KS11	ATOM	9921	CB	ARG	6	216.135	143.311	-30.286	1.00136.01	GS*
ATOM	9869	N	ALA	128	189.315	113.808	-50.107	1.00201.09		KS11	ATOM	9922	CD	ARG	6	215.709	142.602	-31.488	1.00136.01	GS*
ATOM	9870	CA	ALA	128	189.275	113.971	-51.622	1.00124.81		KS11	ATOM	9923	CG	ARG	6	215.893	143.056	-32.724	1.00136.01	GS*
ATOM	9871	CB	ALA	128	187.897	113.710	-49.543	1.00201.09		KS11	ATOM	9924	NE	ARG	6	216.484	144.223	-33.920	1.00136.01	GS*
ATOM	9872	C	ALA	128	187.486	112.651	-49.065	1.00201.09		KS11	ATOM	9925	CZ	ARG	6	215.484	142.344	-33.767	1.00136.01	GS*
ATOM	9873	O	ALA	128	187.161	114.817	-49.598	1.00201.09		KS11	ATOM	9926	NH1	ARG	6	217.650	142.681	-25.708	1.00 66.30	GS*
ATOM	9874	N	SER	129	185.789	114.882	-49.093	1.00201.09		KS11	ATOM	9927	NH2	ARG	6	218.630	143.229	-26.222	1.00 66.30	GS*
ATOM	9875	CA	SER	129	184.845	114.084	-50.007	1.00123.91		KS11	ATOM	9928	C	ARG	6					GS*
ATOM	9876	CB	SER	129						KS11	ATOM	9929	O	ARG	6					GS*

ATOM	9930	N	ALA	7	217.627	142.242	-24.451	1.00111.18	ATOM	9983	CD	GLN	13	233.021	154.573	-20.513	1.00110.09	GS7
ATOM	9931	CA	ALA	7	218.774	142.356	-23.551	1.00111.18	ATOM	9984	OEI	GLN	13	233.755	155.561	-20.462	1.00110.09	GS7
ATOM	9932	CB	ALA	7	219.365	140.970	-23.284	1.0063.58	ATOM	9985	NE2	GLN	13	231.827	154.598	-21.097	1.00110.09	GS7
ATOM	9933	C	ALA	7	219.849	143.284	-24.110	1.00111.18	ATOM	9986	C	GLN	13	235.354	151.925	-22.987	1.0079.79	GS7
ATOM	9934	O	ALA	7	220.952	142.843	-24.427	1.00111.18	ATOM	9987	O	GLN	13	236.054	150.933	-22.821	1.0079.79	GS7
ATOM	9935	N	GLU	8	219.514	144.567	-24.235	1.00118.01	ATOM	9988	N	PRO	14	235.622	152.832	-23.940	1.0059.58	GS7
ATOM	9936	CA	GLU	8	220.430	145.578	-24.763	1.00118.01	ATOM	9989	CD	PRO	14	234.842	154.034	-24.270	1.0070.82	GS7
ATOM	9937	CB	GLU	8	220.109	146.952	-24.157	1.00156.92	ATOM	9990	CA	PRO	14	236.770	152.968	-24.843	1.0059.58	GS7
ATOM	9938	CG	GLU	8	219.482	146.934	-22.759	1.00156.92	ATOM	9991	CB	PRO	14	236.721	153.985	-25.682	1.0070.82	GS7
ATOM	9939	CG	GLU	8	220.371	146.316	-21.695	1.00156.92	ATOM	9992	CG	PRO	14	235.900	154.925	-24.863	1.0070.82	GS7
ATOM	9940	OEI	GLU	8	220.582	145.084	-21.721	1.00156.92	ATOM	9993	C	PRO	14	238.134	152.443	-24.196	1.0059.58	GS7
ATOM	9941	OE2	GLU	8	220.859	147.067	-20.825	1.00156.92	ATOM	9994	O	PRO	14	238.295	152.527	-22.979	1.0059.58	GS7
ATOM	9942	C	GLU	8	221.913	145.265	-24.571	1.00118.01	ATOM	9995	N	ASP	15	239.107	152.117	-25.039	1.0077.10	GS7
ATOM	9943	O	GLU	8	222.364	144.937	-23.472	1.00118.01	ATOM	9996	CA	ASP	15	240.454	151.807	-24.596	1.0077.10	GS7
ATOM	9944	N	VAL	9	222.669	145.373	-25.657	1.0063.71	ATOM	9997	CB	ASP	15	241.251	151.231	-25.769	1.00118.05	GS7
ATOM	9945	CA	VAL	9	224.094	145.099	-25.621	1.0063.71	ATOM	9998	CG	ASP	15	242.553	150.596	-25.333	1.00118.05	GS7
ATOM	9946	CB	VAL	9	224.717	145.257	-27.011	1.0071.94	ATOM	9999	OD1	ASP	15	243.471	151.328	-24.922	1.00118.05	GS7
ATOM	9947	CG1	VAL	9	226.131	144.704	-27.012	1.0071.94	ATOM	10000	OD2	ASP	15	242.660	149.357	-25.394	1.00118.05	GS7
ATOM	9948	CG2	VAL	9	223.861	144.555	-28.045	1.0071.94	ATOM	10001	C	ASP	15	241.180	153.011	-24.009	1.0077.10	GS7
ATOM	9949	C	VAL	9	224.819	146.044	-24.678	1.0063.71	ATOM	10002	O	ASP	15	240.936	154.152	-24.407	1.0077.10	GS7
ATOM	9950	O	VAL	9	224.688	147.260	-24.795	1.0063.71	ATOM	10003	N	LEU	16	242.071	152.741	-22.385	1.00104.27	GS7
ATOM	9951	N	ARG	10	225.581	145.486	-23.743	1.0073.69	ATOM	10004	CA	LEU	16	243.482	153.224	-21.099	1.00120.33	GS7
ATOM	9952	CA	ARG	10	226.344	146.305	-22.810	1.0073.69	ATOM	10005	CB	LEU	16	242.609	153.000	-19.861	1.00120.33	GS7
ATOM	9953	CG	ARG	10	227.088	145.422	-21.802	1.0066.17	ATOM	10006	CG	LEU	16	242.288	154.341	-19.223	1.00120.33	GS7
ATOM	9954	CD	ARG	10	226.235	144.757	-20.751	1.0066.17	ATOM	10007	CD1	LEU	16	241.339	152.238	-20.240	1.00120.33	GS7
ATOM	9955	CD	ARG	10	227.094	143.943	-19.798	1.0066.17	ATOM	10008	CD2	LEU	16	243.992	154.260	-23.287	1.00104.27	GS7
ATOM	9956	NE	ARG	10	226.323	143.454	-18.657	1.0066.17	ATOM	10009	C	LEU	16	244.549	155.329	-23.071	1.00104.27	GS7
ATOM	9957	C2	ARG	10	226.221	144.087	-17.489	1.0066.17	ATOM	10010	O	LEU	16	244.326	153.468	-24.296	1.0085.28	GS7
ATOM	9958	NH1	ARG	10	226.853	145.239	-17.301	1.0066.17	ATOM	10011	N	VAL	17	245.409	153.808	-25.206	1.0085.28	GS7
ATOM	9959	NH2	ARG	10	225.479	143.580	-16.508	1.0066.17	ATOM	10012	CA	VAL	17	246.442	152.664	-25.262	1.0064.45	GS7
ATOM	9960	C	ARG	10	227.373	147.114	-23.602	1.0073.69	ATOM	10013	CB	VAL	17	247.564	153.022	-26.223	1.0064.45	GS7
ATOM	9961	O	ARG	10	228.226	146.532	-24.273	1.0073.69	ATOM	10014	CG1	VAL	17	244.963	154.136	-26.628	1.0085.28	GS7
ATOM	9962	N	GLN	11	227.290	148.443	-23.543	1.0075.74	ATOM	10015	CG2	VAL	17	245.485	155.064	-27.243	1.0085.28	GS7
ATOM	9963	CA	GLN	11	228.256	149.299	-24.240	1.0089.13	ATOM	10016	C	VAL	17	244.018	153.370	-27.159	1.0066.66	GS7
ATOM	9964	CB	GLN	11	227.651	150.668	-24.551	1.0089.13	ATOM	10017	O	VAL	17	243.533	153.620	-28.507	1.0066.66	GS7
ATOM	9965	CG	GLN	11	227.348	150.229	-26.658	1.0089.13	ATOM	10018	N	TYR	18	243.561	152.340	-29.340	1.0081.93	GS7
ATOM	9966	CD	GLN	11	225.197	150.466	-26.306	1.0089.13	ATOM	10019	CA	TYR	18	244.923	151.706	-29.446	1.0081.93	GS7
ATOM	9967	OE1	GLN	11	226.640	149.333	-27.590	1.0089.13	ATOM	10020	CB	TYR	18	245.493	151.048	-28.358	1.0081.93	GS7
ATOM	9968	NE2	GLN	11	229.444	149.471	-23.299	1.0075.74	ATOM	10021	CG	TYR	18	246.757	150.457	-28.451	1.0081.93	GS7
ATOM	9969	C	GLN	11	229.268	149.884	-22.158	1.0075.74	ATOM	10022	CD1	TYR	18	245.647	151.763	-30.635	1.0081.93	GS7
ATOM	9970	O	GLN	11	230.651	149.163	-23.761	1.0085.77	ATOM	10023	CD2	TYR	18	246.912	151.177	-30.742	1.0081.93	GS7
ATOM	9971	N	LEU	12	231.818	149.275	-22.889	1.0085.77	ATOM	10024	CE1	TYR	18	247.459	150.527	-29.646	1.0081.93	GS7
ATOM	9972	CA	LEU	12	232.717	148.042	-23.028	1.0077.22	ATOM	10025	CE2	TYR	18	248.705	149.953	-29.740	1.0081.93	GS7
ATOM	9973	CB	LEU	12	232.152	146.823	-23.757	1.0077.22	ATOM	10026	CZ	TYR	18	242.112	154.163	-28.465	1.0066.66	GS7
ATOM	9974	CG	LEU	12	232.008	147.147	-25.247	1.0077.22	ATOM	10027	OH	TYR	18	241.525	154.462	-29.569	1.0066.66	GS7
ATOM	9975	CD1	LEU	12	233.078	145.631	-23.557	1.0077.22	ATOM	10028	C	TYR	18	241.568	154.286	-27.254	1.0076.80	GS7
ATOM	9976	CD2	LEU	12	232.650	150.526	-23.113	1.0085.77	ATOM	10029	O	TYR	19	240.216	154.793	-27.085	1.0076.80	GS7
ATOM	9977	C	LEU	12	232.709	151.062	-24.221	1.0085.77	ATOM	10030	N	GLY	19	239.227	154.020	-27.931	1.0076.80	GS7
ATOM	9978	O	LEU	12	233.300	150.979	-22.046	1.0079.79	ATOM	10031	CA	GLY	19	238.130	154.493	-28.233	1.0076.80	GS7
ATOM	9979	N	GLN	13	234.137	152.168	-22.111	1.0079.79	ATOM	10032	C	GLY	19	239.629	152.814	-28.312	1.00127.42	GS7
ATOM	9980	CA	GLN	13	234.570	152.581	-20.703	1.00110.09	ATOM	10033	O	GLY	20	238.801	151.950	-29.134	1.00127.42	GS7
ATOM	9981	CB	GLN	13	233.457	153.243	-19.908	1.00110.09	ATOM	10034	N	ASP	20					GS7
ATOM	9982	CG	GLN	13					ATOM	10035	CA	ASP	20					GS7

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ATOM	10036	CB	ASP	20	239.675	151.216	-30.147	1.00	99.11	GS7	ATOM	10089	CB	ILE	27	241.339	144.025	-23.074	1.00	59.27	GS7
ATOM	10037	CG	ASP	20	238.868	150.468	-31.180	1.00	99.11	GS7	ATOM	10090	CG2	ILE	27	242.314	143.944	-21.893	1.00	59.27	GS7
ATOM	10038	ODI	ASP	20	238.192	149.482	-30.822	1.00	99.11	GS7	ATOM	10091	CG1	ILE	27	241.966	144.821	-24.223	1.00	59.27	GS7
ATOM	10039	OD2	ASP	20	238.908	150.872	-32.358	1.00	99.11	GS7	ATOM	10092	CD1	ILE	27	242.139	146.289	-23.942	1.00	59.27	GS7
ATOM	10040	C	ASP	20	238.069	150.949	-28.253	1.00	127.42	GS7	ATOM	10093	C	ILE	27	240.148	141.871	-22.531	1.00	56.50	GS7
ATOM	10041	O	ASP	20	238.687	150.243	-27.455	1.00	127.42	GS7	ATOM	10094	O	ILE	27	240.682	141.125	-21.712	1.00	56.50	GS7
ATOM	10042	N	VAL	21	236.750	150.898	-28.406	1.00	84.74	GS7	ATOM	10095	N	ASN	28	238.833	142.077	-22.575	1.00	54.74	GS7
ATOM	10043	CA	VAL	21	235.904	149.995	-27.629	1.00	84.74	GS7	ATOM	10096	CA	ASN	28	237.935	141.412	-21.676	1.00	54.74	GS7
ATOM	10044	CB	VAL	21	234.425	150.353	-27.810	1.00	72.01	GS7	ATOM	10097	CB	ASN	28	236.524	142.001	-21.708	1.00	61.21	GS7
ATOM	10045	CG1	VAL	21	234.145	151.723	-27.206	1.00	72.01	GS7	ATOM	10098	CG	ASN	28	236.439	143.375	-21.090	1.00	61.21	GS7
ATOM	10046	CG2	VAL	21	234.077	150.343	-29.287	1.00	72.01	GS7	ATOM	10099	OD1	ASN	28	237.049	143.639	-20.055	1.00	61.21	GS7
ATOM	10047	C	VAL	21	236.101	148.527	-27.999	1.00	84.74	GS7	ATOM	10100	ND2	ASN	28	235.668	144.255	-21.710	1.00	61.21	GS7
ATOM	10048	O	VAL	21	236.022	147.645	-27.140	1.00	84.74	GS7	ATOM	10101	C	ASN	28	237.874	139.913	-21.910	1.00	54.74	GS7
ATOM	10049	N	LEU	22	236.347	148.269	-29.280	1.00	74.11	GS7	ATOM	10102	O	ASN	28	237.668	139.116	-20.996	1.00	54.74	GS7
ATOM	10050	CA	LEU	22	236.572	146.908	-29.748	1.00	74.11	GS7	ATOM	10103	N	LXS	29	238.050	139.536	-23.171	1.00	52.71	GS7
ATOM	10051	CB	LEU	22	236.829	146.882	-31.252	1.00	63.50	GS7	ATOM	10104	CA	LXS	29	238.036	138.133	-23.536	1.00	52.71	GS7
ATOM	10052	CG	LEU	22	237.184	145.469	-31.719	1.00	63.50	GS7	ATOM	10105	CB	LXS	29	237.776	137.975	-25.034	1.00	59.19	GS7
ATOM	10053	CD1	LEU	22	235.973	144.562	-31.561	1.00	63.50	GS7	ATOM	10106	CG	LXS	29	236.297	137.810	-25.387	1.00	59.19	GS7
ATOM	10054	CD2	LEU	22	237.645	145.493	-33.156	1.00	63.50	GS7	ATOM	10107	CD	LXS	29	235.743	136.546	-24.737	1.00	59.19	GS7
ATOM	10055	C	LEU	22	237.776	146.295	-29.042	1.00	74.11	GS7	ATOM	10108	CE	LXS	29	234.313	136.234	-25.155	1.00	59.19	GS7
ATOM	10056	O	LEU	22	237.823	145.087	-28.803	1.00	74.11	GS7	ATOM	10109	NZ	LXS	29	233.795	135.023	-24.429	1.00	59.19	GS7
ATOM	10057	N	VAL	23	238.759	147.127	-28.718	1.00	54.77	GS7	ATOM	10110	C	LXS	29	239.354	137.488	-23.133	1.00	52.71	GS7
ATOM	10058	CA	VAL	23	239.939	146.627	-28.041	1.00	54.77	GS7	ATOM	10111	O	LXS	29	239.417	136.286	-22.901	1.00	52.71	GS7
ATOM	10059	CB	VAL	23	241.036	147.684	-27.944	1.00	43.07	GS7	ATOM	10112	N	ILE	30	240.411	138.285	-23.039	1.00	49.74	GS7
ATOM	10060	CG1	VAL	23	242.214	147.102	-27.192	1.00	43.07	GS7	ATOM	10113	CA	ILE	30	241.702	137.747	-22.617	1.00	49.74	GS7
ATOM	10061	CG2	VAL	23	241.467	148.129	-29.327	1.00	43.07	GS7	ATOM	10114	CB	ILE	30	242.903	138.670	-22.972	1.00	42.62	GS7
ATOM	10062	C	VAL	23	239.592	146.170	-26.635	1.00	54.77	GS7	ATOM	10115	CG2	ILE	30	244.192	138.112	-22.349	1.00	42.62	GS7
ATOM	10063	O	VAL	23	239.983	145.077	-26.220	1.00	54.77	GS7	ATOM	10116	CG1	ILE	30	243.040	138.811	-24.491	1.00	42.62	GS7
ATOM	10064	N	THR	24	238.856	147.009	-25.907	1.00	69.88	GS7	ATOM	10117	CD1	ILE	30	244.065	139.840	-24.906	1.00	42.62	GS7
ATOM	10065	CA	THR	24	238.457	146.676	-24.542	1.00	69.88	GS7	ATOM	10118	C	ILE	30	241.623	137.686	-21.109	1.00	49.74	GS7
ATOM	10066	CB	THR	24	237.442	147.672	-23.988	1.00	56.73	GS7	ATOM	10119	O	ILE	30	241.990	136.678	-20.495	1.00	49.74	GS7
ATOM	10067	CG1	THR	24	237.948	149.000	-24.143	1.00	56.73	GS7	ATOM	10120	N	MET	31	241.137	138.782	-20.523	1.00	67.52	GS7
ATOM	10068	CG2	THR	24	237.199	147.401	-22.507	1.00	56.73	GS7	ATOM	10121	CA	MET	31	241.003	138.878	-19.079	1.00	67.52	GS7
ATOM	10069	C	THR	24	237.809	145.307	-24.547	1.00	69.88	GS7	ATOM	10122	CB	MET	31	240.107	140.033	-18.663	1.00	72.55	GS7
ATOM	10070	O	THR	24	238.128	144.442	-23.730	1.00	69.88	GS7	ATOM	10123	CG	MET	31	239.978	140.139	-17.153	1.00	72.55	GS7
ATOM	10071	N	ALA	25	236.886	145.131	-25.481	1.00	43.42	GS7	ATOM	10124	SD	MET	31	238.696	141.270	-16.643	1.00	72.55	GS7
ATOM	10072	CA	ALA	25	236.185	143.877	-25.647	1.00	40.42	GS7	ATOM	10125	CE	MET	31	237.482	140.113	-16.017	1.00	72.55	GS7
ATOM	10073	CB	ALA	25	235.373	143.923	-26.930	1.00	40.42	GS7	ATOM	10126	C	MET	31	240.374	137.613	-18.591	1.00	67.52	GS7
ATOM	10074	C	ALA	25	237.197	142.732	-25.696	1.00	43.42	GS7	ATOM	10127	O	MET	31	239.522	137.033	-19.251	1.00	67.52	GS7
ATOM	10075	O	ALA	25	237.132	141.798	-24.894	1.00	43.42	GS7	ATOM	10128	N	ARG	32	240.785	137.181	-17.421	1.00	51.03	GS7
ATOM	10076	N	PHE	26	238.138	142.817	-26.634	1.00	64.53	GS7	ATOM	10129	CA	ARG	32	240.235	135.961	-16.905	1.00	51.03	GS7
ATOM	10077	CA	PHE	26	239.168	141.789	-26.797	1.00	64.53	GS7	ATOM	10130	CB	ARG	32	241.012	134.765	-17.467	1.00	76.28	GS7
ATOM	10078	CB	PHE	26	240.146	142.180	-27.908	1.00	55.91	GS7	ATOM	10131	CG	ARG	32	242.033	134.134	-16.518	1.00	76.28	GS7
ATOM	10079	CG	PHE	26	241.187	141.132	-28.197	1.00	55.91	GS7	ATOM	10132	CD	ARG	32	243.186	133.483	-17.276	1.00	76.28	GS7
ATOM	10080	CD1	PHE	26	240.857	139.984	-28.904	1.00	55.91	GS7	ATOM	10133	NE	ARG	32	242.807	132.989	-18.602	1.00	76.28	GS7
ATOM	10081	CD2	PHE	26	242.491	141.294	-27.765	1.00	55.91	GS7	ATOM	10134	CZ	ARG	32	243.607	132.286	-19.402	1.00	76.28	GS7
ATOM	10082	CE1	PHE	26	241.812	139.017	-29.178	1.00	55.91	GS7	ATOM	10135	NH1	ARG	32	244.841	131.979	-19.017	1.00	76.28	GS7
ATOM	10083	CE2	PHE	26	243.452	140.332	-28.034	1.00	55.91	GS7	ATOM	10136	NH2	ARG	32	243.175	131.896	-20.595	1.00	76.28	GS7
ATOM	10084	CZ	PHE	26	243.113	139.193	-28.740	1.00	55.91	GS7	ATOM	10137	C	ARG	32	240.403	136.044	-15.423	1.00	51.03	GS7
ATOM	10085	C	PHE	26	239.958	141.574	-25.517	1.00	64.53	GS7	ATOM	10138	O	ARG	32	241.486	135.404	-14.951	1.00	51.03	GS7
ATOM	10086	O	PHE	26	240.326	140.449	-25.182	1.00	64.53	GS7	ATOM	10139	N	ASP	33	239.325	135.751	-14.694	1.00	57.89	GS7
ATOM	10087	N	ILE	27	240.234	142.668	-24.816	1.00	56.50	GS7	ATOM	10140	CA	ASP	33	239.379	135.767	-13.249	1.00	57.89	GS7
ATOM	10088	CA	ILE	27	240.986	142.604	-23.573	1.00	56.50	GS7	ATOM	10141	CB	ASP	33	240.693	135.131	-12.836	1.00	62.34	GS7

ATOM	10142	CG	ASP	33	240.511	134.063	-11.844	1.00	62.34	GS7	ATOM	10195	N	ARG	41	247.660	144.626	-19.853	1.00	78.27	GS7
ATOM	10143	ODP	ASP	33	240.248	134.435	-10.697	1.00	62.34	GS7	ATOM	10196	CA	ARG	41	249.079	144.545	-20.153	1.00	78.27	GS7
ATOM	10144	OD2	ASP	33	240.625	132.874	-12.201	1.00	62.34	GS7	ATOM	10197	CB	ARG	41	249.840	144.013	-18.951	1.00	91.95	GS7
ATOM	10145	C	ASP	33	239.260	137.186	-12.680	1.00	57.89	GS7	ATOM	10198	CG	ARG	41	249.946	145.017	-17.859	1.00	91.95	GS7
ATOM	10146	O	ASP	33	239.501	137.413	-11.492	1.00	57.89	GS7	ATOM	10199	CD	ARG	41	250.714	144.469	-16.700	1.00	91.95	GS7
ATOM	10147	N	GLY	34	238.892	138.137	-13.535	1.00	72.80	GS7	ATOM	10200	NE	ARG	41	251.213	145.557	-15.872	1.00	91.95	GS7
ATOM	10148	CA	GLY	34	238.748	139.510	-13.092	1.00	72.80	GS7	ATOM	10201	CZ	ARG	41	251.846	144.385	-14.719	1.00	91.95	GS7
ATOM	10149	C	GLY	34	240.043	140.298	-13.005	1.00	72.80	GS7	ATOM	10202	NH1	ARG	41	252.050	144.157	-14.254	1.00	91.95	GS7
ATOM	10150	O	GLY	34	240.015	141.498	-12.739	1.00	72.80	GS7	ATOM	10203	NH2	ARG	41	252.288	146.437	-14.043	1.00	91.95	GS7
ATOM	10151	N	LYS	35	241.175	139.635	-13.223	1.00	63.73	GS7	ATOM	10204	C	ARG	41	249.314	143.627	-21.338	1.00	78.27	GS7
ATOM	10152	CA	LYS	35	242.474	140.298	-13.164	1.00	63.73	GS7	ATOM	10205	O	ARG	41	249.742	144.075	-22.401	1.00	78.27	GS7
ATOM	10153	CB	LYS	35	243.579	139.267	-12.969	1.00	41.51	GS7	ATOM	10206	N	ILE	42	249.022	142.344	-21.143	1.00	56.65	GS7
ATOM	10154	CG	LYS	35	243.354	138.391	-11.757	1.00	41.51	GS7	ATOM	10207	CA	ILE	42	248.345	140.101	-21.962	1.00	54.20	GS7
ATOM	10155	CD	LYS	35	244.466	137.383	-11.570	1.00	41.51	GS7	ATOM	10208	CB	ILE	42	248.468	139.162	-23.161	1.00	54.20	GS7
ATOM	10156	CE	LYS	35	245.774	138.065	-11.190	1.00	41.51	GS7	ATOM	10209	CG2	ILE	42	248.799	139.399	-20.677	1.00	54.20	GS7
ATOM	10157	NZ	LYS	35	246.949	137.124	-11.174	1.00	63.73	GS7	ATOM	10210	CG1	ILE	42	248.227	137.997	-20.493	1.00	54.20	GS7
ATOM	10158	C	LYS	35	242.717	141.097	-14.437	1.00	63.73	GS7	ATOM	10211	CD1	ILE	42	248.868	141.903	-23.582	1.00	56.65	GS7
ATOM	10159	O	LYS	35	243.664	140.839	-15.192	1.00	63.73	GS7	ATOM	10212	C	ILE	42	249.689	141.842	-24.486	1.00	56.65	GS7
ATOM	10160	N	LYS	36	241.841	142.078	-14.645	1.00	71.30	GS7	ATOM	10213	O	ILE	43	247.673	142.447	-23.754	1.00	47.18	GS7
ATOM	10161	CA	LYS	36	241.851	142.973	-15.798	1.00	71.30	GS7	ATOM	10214	N	PHE	43	247.311	142.966	-25.061	1.00	47.18	GS7
ATOM	10162	CB	LYS	36	240.701	143.969	-15.672	1.00	51.90	GS7	ATOM	10215	CA	PHE	43	245.881	143.462	-25.091	1.00	40.21	GS7
ATOM	10163	CG	LYS	36	240.439	144.807	-16.906	1.00	51.90	GS7	ATOM	10216	CB	PHE	43	245.535	144.122	-26.377	1.00	40.21	GS7
ATOM	10164	CD	LYS	36	239.480	145.948	-16.575	1.00	51.90	GS7	ATOM	10217	CG	PHE	43	245.420	143.368	-27.541	1.00	40.21	GS7
ATOM	10165	CE	LYS	36	238.910	146.610	-17.832	1.00	51.90	GS7	ATOM	10218	CD2	PHE	43	245.397	145.495	-26.448	1.00	40.21	GS7
ATOM	10166	NZ	LYS	36	237.853	145.792	-18.509	1.00	51.90	GS7	ATOM	10219	CE1	PHE	43	245.171	143.969	-28.763	1.00	40.21	GS7
ATOM	10167	C	LYS	36	243.144	143.753	-16.007	1.00	71.30	GS7	ATOM	10220	CE2	PHE	43	245.034	145.346	-28.848	1.00	40.21	GS7
ATOM	10168	O	LYS	36	243.404	144.227	-17.109	1.00	71.30	GS7	ATOM	10221	CZ	PHE	43	248.194	144.104	-25.582	1.00	47.18	GS7
ATOM	10169	N	ASN	37	243.952	143.905	-14.962	1.00	85.69	GS7	ATOM	10222	O	PHE	43	248.349	144.312	-26.753	1.00	47.18	GS7
ATOM	10170	CA	ASN	37	245.187	144.663	-15.114	1.00	85.69	GS7	ATOM	10223	C	PHE	43	248.748	144.865	-24.916	1.00	64.39	GS7
ATOM	10171	CB	ASN	37	245.850	144.915	-13.761	1.00	75.86	GS7	ATOM	10224	O	PHE	43	249.591	147.009	-23.871	1.00	54.54	GS7
ATOM	10172	CG	ASN	37	246.826	146.084	-13.800	1.00	75.86	GS7	ATOM	10225	N	TYR	44	248.236	147.669	-23.735	1.00	54.54	GS7
ATOM	10173	CD1	ASN	37	247.817	146.096	-13.070	1.00	75.86	GS7	ATOM	10226	CA	TYR	44	247.633	147.807	-22.487	1.00	54.54	GS7
ATOM	10174	ND2	ASN	37	246.540	147.076	-14.642	1.00	75.86	GS7	ATOM	10227	CB	TYR	44	246.383	148.161	-22.348	1.00	54.54	GS7
ATOM	10175	C	ASN	37	246.145	143.910	-16.019	1.00	85.69	GS7	ATOM	10228	CG	TYR	44	247.555	148.777	-24.728	1.00	54.54	GS7
ATOM	10176	O	ASN	37	246.459	144.371	-17.119	1.00	85.69	GS7	ATOM	10229	CD1	TYR	44	246.301	148.777	-24.728	1.00	54.54	GS7
ATOM	10177	N	LEU	38	247.524	141.948	-16.350	1.00	68.25	GS7	ATOM	10230	CE2	TYR	44	245.724	148.898	-23.464	1.00	54.54	GS7
ATOM	10178	CA	LEU	38	247.843	140.629	-15.628	1.00	44.38	GS7	ATOM	10231	CE2	TYR	44	244.489	149.490	-23.298	1.00	54.54	GS7
ATOM	10179	CB	LEU	38	247.272	139.270	-16.052	1.00	44.38	GS7	ATOM	10232	CZ	TYR	44	251.014	145.488	-25.293	1.00	64.39	GS7
ATOM	10180	CG	LEU	38	247.661	138.962	-17.482	1.00	44.38	GS7	ATOM	10233	OH	TYR	44	251.597	145.893	-26.293	1.00	64.39	GS7
ATOM	10181	CD1	LEU	38	247.816	138.175	-15.119	1.00	44.38	GS7	ATOM	10234	O	TYR	44	251.552	144.611	-24.448	1.00	58.68	GS7
ATOM	10182	CD2	LEU	38	246.898	141.697	-17.722	1.00	68.25	GS7	ATOM	10235	C	TYR	45	252.877	144.055	-24.687	1.00	58.68	GS7
ATOM	10183	C	LEU	38	247.588	141.657	-18.741	1.00	68.25	GS7	ATOM	10236	O	TYR	45	253.193	142.922	-22.711	1.00	86.35	GS7
ATOM	10184	O	LEU	38	244.867	141.320	-18.988	1.00	63.89	GS7	ATOM	10237	N	ASP	45	253.501	143.416	-22.313	1.00	86.35	GS7
ATOM	10185	N	ALA	39	245.582	141.541	-17.741	1.00	63.89	GS7	ATOM	10238	CA	ASP	45	252.748	143.057	-21.384	1.00	86.35	GS7
ATOM	10186	CA	ALA	39	244.376	141.239	-18.719	1.00	87.57	GS7	ATOM	10239	CB	ASP	45	252.831	143.477	-26.089	1.00	58.68	GS7
ATOM	10187	CB	ALA	39	245.159	142.444	-19.981	1.00	63.89	GS7	ATOM	10240	CG	ASP	45	253.769	143.625	-26.874	1.00	58.68	GS7
ATOM	10188	C	ALA	39	245.461	142.186	-21.144	1.00	63.89	GS7	ATOM	10241	OD1	ASP	45	251.717	142.822	-26.397	1.00	74.09	GS7
ATOM	10189	O	ALA	39	245.059	143.688	-19.516	1.00	70.82	GS7	ATOM	10242	OD2	ASP	45	251.519	142.211	-27.703	1.00	74.09	GS7
ATOM	10190	N	ALA	40	245.315	144.850	-20.361	1.00	70.82	GS7	ATOM	10243	C	ASP	46	250.174	141.507	-27.745	1.00	99.69	GS7
ATOM	10191	CA	ALA	40	245.052	146.131	-19.591	1.00	33.63	GS7	ATOM	10244	O	ASP	46						
ATOM	10192	CB	ALA	40	246.760	144.811	-20.814	1.00	70.82	GS7	ATOM	10245	N	ALA	46						
ATOM	10193	C	ALA	40	247.055	144.951	-22.004	1.00	70.82	GS7	ATOM	10246	CA	ALA	46						
ATOM	10194	O	ALA	40						GS7	ATOM	10247	CB	ALA	46						

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ATOM	10248	C	ALA	46	251.536	143.251	-28.815	1.00	74.09	GS7	ATOM	10301	CB	LYS	53	257.992	140.819	-35.161	1.00	91.43	GS7
ATOM	10249	ALA	ALA	46	252.303	143.065	-29.803	1.00	74.09	GS7	ATOM	10302	CG	LYS	53	258.840	140.388	-33.970	1.00	91.43	GS7
ATOM	10250	N	CYS	47	250.863	144.345	-28.654	1.00	66.73	GS7	ATOM	10303	CD	LYS	53	258.384	139.058	-33.405	1.00	91.43	GS7
ATOM	10251	CA	CYS	47	250.866	145.397	-29.657	1.00	66.73	GS7	ATOM	10304	CE	LYS	53	259.091	138.741	-32.097	1.00	91.43	GS7
ATOM	10252	CB	CYS	47	249.982	146.550	-29.204	1.00	77.64	GS7	ATOM	10305	NZ	LYS	53	258.720	137.389	-31.600	1.00	91.43	GS7
ATOM	10253	SG	CYS	47	248.249	146.120	-29.177	1.00	77.64	GS7	ATOM	10306	C	LYS	53	257.160	142.860	-36.408	1.00	114.80	GS7
ATOM	10254	O	CYS	47	252.274	145.902	-31.920	1.00	66.73	GS7	ATOM	10307	O	LYS	53	256.076	143.036	-35.856	1.00	114.80	GS7
ATOM	10255	C	CYS	47	252.566	146.419	-31.006	1.00	66.73	GS7	ATOM	10308	N	THR	54	257.398	143.205	-37.675	1.00	130.78	GS7
ATOM	10256	N	LYS	48	253.144	145.755	-28.925	1.00	91.62	GS7	ATOM	10309	CA	THR	54	256.416	143.859	-38.565	1.00	130.78	GS7
ATOM	10257	CG	LYS	48	254.521	146.195	-29.067	1.00	91.62	GS7	ATOM	10310	CB	THR	54	255.007	143.187	-38.535	1.00	141.86	GS7
ATOM	10258	CB	LYS	48	255.095	146.599	-27.711	1.00	96.55	GS7	ATOM	10311	OG1	THR	54	254.238	143.707	-37.444	1.00	141.86	GS7
ATOM	10259	CG	LYS	48	254.281	147.727	-27.089	1.00	96.55	GS7	ATOM	10312	CG2	THR	54	255.135	141.680	-38.395	1.00	141.86	GS7
ATOM	10260	CD	LYS	48	255.033	148.524	-26.034	1.00	96.55	GS7	ATOM	10313	C	THR	54	256.263	145.338	-38.190	1.00	130.78	GS7
ATOM	10261	CE	LYS	48	254.159	149.667	-25.495	1.00	96.55	GS7	ATOM	10314	O	THR	54	255.778	145.675	-37.109	1.00	130.78	GS7
ATOM	10262	NZ	LYS	48	253.679	150.602	-26.562	1.00	96.55	GS7	ATOM	10315	N	GLY	55	256.675	146.221	-39.092	1.00	81.11	GS7
ATOM	10263	C	LYS	48	255.349	145.106	-29.721	1.00	91.62	GS7	ATOM	10316	CA	GLY	55	256.606	147.641	-39.011	1.00	81.11	GS7
ATOM	10264	O	LYS	48	256.409	145.383	-30.277	1.00	91.62	GS7	ATOM	10317	C	GLY	55	255.253	148.284	-39.011	1.00	81.11	GS7
ATOM	10265	N	ILE	49	254.860	143.869	-29.663	1.00	72.12	GS7	ATOM	10318	O	GLY	55	255.161	149.401	-39.529	1.00	81.11	GS7
ATOM	10266	CA	ILE	49	255.543	142.747	-30.307	1.00	72.12	GS7	ATOM	10319	N	GLN	56	254.197	147.595	-38.591	1.00	107.66	GS7
ATOM	10267	CB	ILE	49	255.144	141.384	-29.667	1.00	50.90	GS7	ATOM	10320	CA	GLN	56	252.849	148.125	-38.742	1.00	107.66	GS7
ATOM	10268	CG2	ILE	49	255.756	140.222	-30.456	1.00	50.90	GS7	ATOM	10321	CB	GLN	56	251.939	147.075	-39.374	1.00	119.73	GS7
ATOM	10269	CG1	ILE	49	255.629	141.334	-28.217	1.00	50.90	GS7	ATOM	10322	CG	GLN	56	252.537	146.342	-40.558	1.00	119.73	GS7
ATOM	10270	CD1	ILE	49	255.354	140.013	-27.504	1.00	50.90	GS7	ATOM	10323	CD	GLN	56	251.516	145.467	-41.265	1.00	119.73	GS7
ATOM	10271	C	ILE	49	255.109	142.781	-31.776	1.00	72.12	GS7	ATOM	10324	OE1	GLN	56	250.562	144.967	-41.864	1.00	119.73	GS7
ATOM	10272	O	ILE	49	255.762	142.219	-32.654	1.00	72.12	GS7	ATOM	10325	NE2	GLN	56	251.707	144.154	-41.193	1.00	119.73	GS7
ATOM	10273	N	ILE	50	253.996	143.459	-32.029	1.00	63.02	GS7	ATOM	10326	C	GLN	56	252.270	148.527	-37.394	1.00	107.66	GS7
ATOM	10274	CA	ILE	50	253.478	143.603	-33.378	1.00	63.02	GS7	ATOM	10327	O	GLN	56	252.643	147.967	-36.364	1.00	107.66	GS7
ATOM	10275	CG2	ILE	50	251.959	143.829	-33.362	1.00	71.43	GS7	ATOM	10328	N	GLU	57	251.362	149.900	-37.404	1.00	111.57	GS7
ATOM	10276	CG1	ILE	50	251.289	142.661	-32.649	1.00	71.43	GS7	ATOM	10329	CA	GLU	57	250.715	149.942	-36.173	1.00	111.57	GS7
ATOM	10277	CD1	ILE	50	249.791	142.760	-32.606	1.00	71.43	GS7	ATOM	10330	CB	GLU	57	249.851	151.183	-36.426	1.00	148.77	GS7
ATOM	10278	O	ILE	50	254.169	144.805	-34.019	1.00	63.02	GS7	ATOM	10331	CG	GLU	57	248.869	151.524	-35.297	1.00	148.77	GS7
ATOM	10279	C	ILE	50	254.064	145.029	-33.228	1.00	63.02	GS7	ATOM	10332	CD	GLU	57	249.545	151.942	-33.997	1.00	148.77	GS7
ATOM	10280	O	ILE	51	254.866	145.587	-33.195	1.00	111.23	GS7	ATOM	10333	OE1	GLU	57	250.270	152.958	-33.995	1.00	148.77	GS7
ATOM	10281	N	GLN	51	255.599	146.749	-33.686	1.00	111.23	GS7	ATOM	10334	OE2	GLU	57	249.345	151.259	-32.972	1.00	148.77	GS7
ATOM	10282	CA	GLN	51	255.671	147.850	-32.627	1.00	87.39	GS7	ATOM	10335	C	GLU	57	249.837	148.786	-35.713	1.00	111.57	GS7
ATOM	10283	CG	GLN	51	254.503	148.811	-32.700	1.00	87.39	GS7	ATOM	10336	O	GLU	57	248.952	148.341	-36.444	1.00	111.57	GS7
ATOM	10284	CB	GLN	51	254.399	149.496	-34.055	1.00	87.39	GS7	ATOM	10337	N	PRO	58	250.070	148.283	-34.494	1.00	93.97	GS7
ATOM	10285	CD	GLN	51	254.651	148.888	-35.100	1.00	87.39	GS7	ATOM	10338	CD	PRO	58	250.919	148.830	-33.425	1.00	74.50	GS7
ATOM	10286	OE1	GLN	51	254.006	150.764	-34.042	1.00	87.39	GS7	ATOM	10339	CA	PRO	58	249.264	147.167	-33.996	1.00	93.97	GS7
ATOM	10287	NE2	GLN	51	256.996	146.318	-34.074	1.00	111.23	GS7	ATOM	10340	CB	PRO	58	249.671	147.079	-32.518	1.00	74.50	GS7
ATOM	10288	C	GLN	51	257.428	146.546	-35.205	1.00	74.96	GS7	ATOM	10341	CG	PRO	58	250.141	148.460	-32.196	1.00	74.50	GS7
ATOM	10289	N	GLU	52	259.038	145.214	-33.402	1.00	74.96	GS7	ATOM	10342	C	PRO	58	247.754	147.325	-34.202	1.00	93.97	GS7
ATOM	10290	CA	GLU	52	259.560	144.417	-32.207	1.00	104.4.05	GS7	ATOM	10343	O	PRO	58	247.117	146.454	-34.795	1.00	93.97	GS7
ATOM	10291	CG	GLU	52	259.756	145.291	-30.972	1.00	104.4.05	GS7	ATOM	10344	N	LEU	59	247.194	146.438	-33.733	1.00	93.46	GS7
ATOM	10292	CG	GLU	52	260.306	144.534	-29.778	1.00	104.4.05	GS7	ATOM	10345	CA	LEU	59	245.761	148.688	-33.862	1.00	93.46	GS7
ATOM	10293	CD	GLU	52	261.380	143.911	-29.909	1.00	104.4.05	GS7	ATOM	10346	CB	LEU	59	245.442	150.160	-33.595	1.00	89.39	GS7
ATOM	10294	OE1	GLU	52	259.667	144.568	-28.703	1.00	104.4.05	GS7	ATOM	10347	CG	LEU	59	243.962	150.535	-33.768	1.00	89.39	GS7
ATOM	10295	OE2	GLU	52	258.896	144.343	-34.643	1.00	74.96	GS7	ATOM	10348	CD1	LEU	59	243.087	149.623	-32.913	1.00	89.39	GS7
ATOM	10296	C	GLU	52	259.111	144.810	-35.757	1.00	74.96	GS7	ATOM	10349	C	LEU	59	243.756	151.994	-33.388	1.00	89.39	GS7
ATOM	10297	O	GLU	52	258.514	143.089	-34.471	1.00	114.80	GS7	ATOM	10350	C	LEU	59	245.156	148.294	-35.207	1.00	93.46	GS7
ATOM	10298	N	LYS	53	258.327	142.231	-35.631	1.00	114.80	GS7	ATOM	10351	O	LEU	59	243.981	147.924	-35.268	1.00	93.46	GS7
ATOM	10299	CA	LYS	53						GS7	ATOM	10352	N	LYS	60	245.938	148.381	-36.282	1.00	74.27	GS7
ATOM	10300	CA	LYS	53						GS7	ATOM	10353	CA	LYS	60	245.432	148.020	-37.606	1.00	74.27	GS7

ATOM	10354	CB	LVS	60	246.103	148.856	-38.696	1.00	96.15	GS7	ATOM	10407	C	VAL	66	238.367	140.038	-37.577	1.00	69.50	GS7
ATOM	10355	CB	LVS	60	245.549	148.561	-40.075	1.00	96.15	GS7	ATOM	10408	O	VAL	66	237.625	139.064	-37.697	1.00	69.50	GS7
ATOM	10356	CD	LVS	60	246.224	149.372	-41.162	1.00	96.15	GS7	ATOM	10409	N	GLU	67	238.599	140.904	-38.554	1.00	63.07	GS7
ATOM	10357	CE	LVS	60	245.709	148.948	-42.533	1.00	96.15	GS7	ATOM	10410	CA	GLU	67	237.973	140.782	-39.857	1.00	63.07	GS7
ATOM	10358	NZ	LVS	60	246.257	149.776	-43.643	1.00	96.15	GS7	ATOM	10411	CB	GLU	67	238.575	141.814	-40.807	1.00	83.40	GS7
ATOM	10359	C	LVS	60	245.629	146.534	-37.905	1.00	74.27	GS7	ATOM	10412	CG	GLU	67	237.961	141.796	-42.191	1.00	83.40	GS7
ATOM	10360	O	LVS	60	244.857	145.940	-38.659	1.00	74.27	GS7	ATOM	10413	CG	GLU	67	236.469	142.090	-42.179	1.00	83.40	GS7
ATOM	10361	N	VAL	61	246.664	145.938	-37.321	1.00	82.99	GS7	ATOM	10414	OE1	GLU	67	235.841	141.964	-43.255	1.00	83.40	GS7
ATOM	10362	CA	VAL	61	246.918	144.516	-37.520	1.00	82.99	GS7	ATOM	10415	OE2	GLU	67	235.930	142.450	-41.103	1.00	83.40	GS7
ATOM	10363	CB	VAL	61	248.259	144.078	-36.889	1.00	66.55	GS7	ATOM	10416	C	GLU	67	238.074	139.383	-40.484	1.00	63.07	GS7
ATOM	10364	CG1	VAL	61	248.469	142.583	-37.089	1.00	66.55	GS7	ATOM	10417	O	GLU	67	237.065	138.794	-40.878	1.00	63.07	GS7
ATOM	10365	CG2	VAL	61	249.396	144.845	-37.505	1.00	66.55	GS7	ATOM	10418	N	ASN	68	239.284	138.848	-40.584	1.00	87.74	GS7
ATOM	10366	C	VAL	61	245.792	143.771	-36.813	1.00	82.99	GS7	ATOM	10419	CA	ASN	68	239.466	137.529	-41.188	1.00	87.74	GS7
ATOM	10367	O	VAL	61	245.300	142.746	-37.289	1.00	82.99	GS7	ATOM	10420	CB	ASN	68	240.954	137.241	-41.407	1.00	61.30	GS7
ATOM	10368	N	PHE	62	245.397	144.312	-35.664	1.00	78.77	GS7	ATOM	10421	CG	ASN	68	241.604	138.216	-42.351	1.00	61.30	GS7
ATOM	10369	CA	PHE	62	244.331	143.750	-34.844	1.00	78.77	GS7	ATOM	10422	OD1	ASN	68	241.090	138.480	-43.436	1.00	61.30	GS7
ATOM	10370	CB	PHE	62	244.235	144.532	-33.527	1.00	66.64	GS7	ATOM	10423	ND2	ASN	68	242.751	138.750	-41.950	1.00	61.30	GS7
ATOM	10371	CG	PHE	62	243.060	144.156	-32.678	1.00	66.64	GS7	ATOM	10424	C	ASN	68	238.871	136.382	-40.376	1.00	87.74	GS7
ATOM	10372	CD1	PHE	62	242.926	142.864	-32.182	1.00	66.64	GS7	ATOM	10425	O	ASN	68	238.564	135.325	-40.924	1.00	87.74	GS7
ATOM	10373	CD2	PHE	62	242.084	145.099	-32.370	1.00	66.64	GS7	ATOM	10426	N	VAL	69	238.707	136.596	-39.075	1.00	66.73	GS7
ATOM	10374	CE1	PHE	62	241.835	142.514	-31.390	1.00	66.64	GS7	ATOM	10427	CA	VAL	69	238.190	135.569	-38.177	1.00	66.73	GS7
ATOM	10375	CE2	PHE	62	240.989	144.761	-31.580	1.00	66.64	GS7	ATOM	10428	CB	VAL	69	238.968	135.634	-36.846	1.00	48.84	GS7
ATOM	10376	CZ	PHE	62	240.865	143.466	-31.088	1.00	66.64	GS7	ATOM	10429	CG1	VAL	69	238.532	134.540	-35.901	1.00	48.84	GS7
ATOM	10377	C	PHE	62	243.002	143.806	-35.590	1.00	78.77	GS7	ATOM	10430	CG2	VAL	69	240.438	135.500	-37.133	1.00	68.73	GS7
ATOM	10378	O	PHE	62	242.885	142.774	-35.858	1.00	78.77	GS7	ATOM	10431	C	VAL	69	236.676	135.630	-37.915	1.00	66.73	GS7
ATOM	10379	N	LVS	63	242.569	145.013	-35.933	1.00	78.26	GS7	ATOM	10432	O	VAL	69	236.153	134.920	-37.056	1.00	66.73	GS7
ATOM	10380	CA	LVS	63	241.314	145.181	-36.643	1.00	78.26	GS7	ATOM	10433	N	LVS	70	235.964	136.466	-38.662	1.00	54.18	GS7
ATOM	10381	CG	LVS	63	241.074	146.654	-36.948	1.00	99.73	GS7	ATOM	10434	CA	LVS	70	234.520	136.578	-38.481	1.00	54.18	GS7
ATOM	10382	CG	LVS	63	240.471	147.471	-35.699	1.00	99.73	GS7	ATOM	10435	CB	LVS	70	234.041	137.996	-38.778	1.00	57.22	GS7
ATOM	10383	CD	LVS	63	240.055	148.703	-35.992	1.00	99.73	GS7	ATOM	10436	CG	LVS	70	234.457	139.055	-37.795	1.00	57.22	GS7
ATOM	10384	CE	LVS	63	239.692	149.419	-34.712	1.00	99.73	GS7	ATOM	10437	CD	LVS	70	233.931	140.390	-38.286	1.00	57.22	GS7
ATOM	10385	NZ	LVS	63	238.750	150.535	-34.981	1.00	99.73	GS7	ATOM	10438	CE	LVS	70	234.249	141.515	-37.322	1.00	57.22	GS7
ATOM	10386	C	LVS	63	241.246	144.363	-37.923	1.00	78.26	GS7	ATOM	10439	NZ	LVS	70	233.791	142.832	-37.851	1.00	57.22	GS7
ATOM	10387	O	LVS	63	240.160	144.004	-38.374	1.00	88.92	GS7	ATOM	10440	C	LVS	70	233.780	135.635	-39.410	1.00	54.18	GS7
ATOM	10388	N	GLN	64	242.403	144.069	-38.507	1.00	88.92	GS7	ATOM	10441	O	LVS	70	233.859	135.767	-40.626	1.00	54.18	GS7
ATOM	10389	CA	GLN	64	242.449	143.269	-39.725	1.00	88.92	GS7	ATOM	10442	N	PRO	71	233.061	134.656	-38.856	1.00	70.95	GS7
ATOM	10390	CB	GLN	64	243.822	143.383	-40.391	1.00	138.54	GS7	ATOM	10443	CD	PRO	71	232.868	134.279	-37.446	1.00	39.38	GS7
ATOM	10391	CG	GLN	64	243.940	142.603	-41.691	1.00	138.54	GS7	ATOM	10444	CA	PRO	71	232.336	133.754	-39.753	1.00	70.95	GS7
ATOM	10392	CD	GLN	64	243.048	143.156	-42.784	1.00	138.54	GS7	ATOM	10445	CB	PRO	71	231.901	132.629	-38.825	1.00	39.38	GS7
ATOM	10393	OE1	GLN	64	243.265	144.263	-43.277	1.00	138.54	GS7	ATOM	10446	CG	PRO	71	231.681	133.347	-37.532	1.00	39.38	GS7
ATOM	10394	NE2	GLN	64	242.033	142.389	-43.166	1.00	138.54	GS7	ATOM	10447	C	PRO	71	231.159	134.548	-40.309	1.00	70.95	GS7
ATOM	10395	C	GLN	64	242.189	141.820	-39.335	1.00	88.92	GS7	ATOM	10448	O	PRO	71	230.640	135.432	-39.632	1.00	70.95	GS7
ATOM	10396	O	GLN	64	241.474	141.092	-40.026	1.00	88.92	GS7	ATOM	10449	N	ARG	72	230.747	134.264	-41.538	1.00	60.96	GS7
ATOM	10397	N	ALA	65	242.778	141.414	-38.214	1.00	84.68	GS7	ATOM	10450	CA	ARG	72	229.634	134.999	-42.121	1.00	60.96	GS7
ATOM	10398	CA	ALA	65	242.624	140.060	-37.699	1.00	84.68	GS7	ATOM	10451	CB	ARG	72	230.074	135.668	-43.424	1.00	98.57	GS7
ATOM	10399	CB	ALA	65	243.382	139.913	-36.384	1.00	61.96	GS7	ATOM	10452	CG	ARG	72	230.823	135.438	-44.345	1.00	98.57	GS7
ATOM	10400	C	ALA	65	241.145	139.763	-37.493	1.00	84.68	GS7	ATOM	10453	CD	ARG	72	231.153	135.475	-45.651	1.00	98.57	GS7
ATOM	10401	O	ALA	65	240.582	138.900	-38.165	1.00	84.68	GS7	ATOM	10454	NE	ARG	72	231.623	134.475	-46.645	1.00	98.57	GS7
ATOM	10402	N	VAL	66	240.523	140.486	-36.564	1.00	69.50	GS7	ATOM	10455	CZ	ARG	72	232.832	133.921	-46.650	1.00	98.57	GS7
ATOM	10403	CA	VAL	66	239.103	140.312	-36.277	1.00	69.50	GS7	ATOM	10456	NH1	ARG	72	233.720	134.238	-45.712	1.00	98.57	GS7
ATOM	10404	CB	VAL	66	238.494	141.580	-35.632	1.00	40.65	GS7	ATOM	10457	NH2	ARG	72	233.150	133.037	-47.589	1.00	98.57	GS7
ATOM	10405	CG1	VAL	66	236.996	141.409	-35.460	1.00	40.65	GS7	ATOM	10458	C	ARG	72	228.429	134.088	-42.343	1.00	60.96	GS7
ATOM	10406	CG2	VAL	66	239.143	141.843	-34.282	1.00	40.65	GS7	ATOM	10459	O	ARG	72	227.333	134.546	-42.667	1.00	60.96	GS7

ATOM	10460	N	MET	73	228.647	132.794	-42.157	1.00	72.52	ATOM	10513	CA	ARG	79	215.000	119.361	-34.858	1.00	79.04	ATOM	10513	CA	ARG	79	215.000	119.361	-34.858	1.00	79.04	GS7
ATOM	10461	CA	MET	73	227.598	131.788	-42.286	1.00	72.52	ATOM	10514	CB	ARG	79	214.425	118.863	-33.530	1.00	100.44.05	ATOM	10514	CB	ARG	79	214.425	118.863	-33.530	1.00	100.44.05	GS7
ATOM	10462	CB	MET	73	227.607	131.145	-43.670	1.00	77.27	ATOM	10515	CD	ARG	79	213.845	117.455	-33.606	1.00	100.44.05	ATOM	10515	CD	ARG	79	213.845	117.455	-33.606	1.00	100.44.05	GS7
ATOM	10463	CG	MET	73	227.070	132.026	-44.778	1.00	77.27	ATOM	10516	CD	ARG	79	213.153	117.058	-32.313	1.00	100.44.05	ATOM	10516	CD	ARG	79	213.153	117.058	-32.313	1.00	100.44.05	GS7
ATOM	10464	SD	MET	73	225.296	132.306	-44.655	1.00	77.27	ATOM	10517	NE	ARG	79	212.681	115.675	-32.341	1.00	100.44.05	ATOM	10517	NE	ARG	79	212.681	115.675	-32.341	1.00	100.44.05	GS7
ATOM	10465	CE	MET	73	224.639	130.956	-45.670	1.00	77.27	ATOM	10518	CZ	ARG	79	213.478	114.611	-32.345	1.00	100.44.05	ATOM	10518	CZ	ARG	79	213.478	114.611	-32.345	1.00	100.44.05	GS7
ATOM	10466	C	MET	73	227.938	130.743	-41.244	1.00	72.52	ATOM	10519	NH1	ARG	79	214.797	114.764	-32.324	1.00	100.44.05	ATOM	10519	NH1	ARG	79	214.797	114.764	-32.324	1.00	100.44.05	GS7
ATOM	10467	O	MET	73	229.093	130.342	-41.118	1.00	72.52	ATOM	10520	NH2	ARG	79	212.956	113.391	-32.365	1.00	100.44.05	ATOM	10520	NH2	ARG	79	212.956	113.391	-32.365	1.00	100.44.05	GS7
ATOM	10468	N	GLU	74	226.953	130.309	-40.477	1.00	65.46	ATOM	10521	C	ARG	79	213.870	119.586	-35.851	1.00	79.04	ATOM	10521	C	ARG	79	213.870	119.586	-35.851	1.00	79.04	GS7
ATOM	10469	CB	GLU	74	227.227	129.314	-39.464	1.00	65.46	ATOM	10522	O	ARG	79	213.021	120.457	-35.657	1.00	79.04	ATOM	10522	O	ARG	79	213.021	120.457	-35.657	1.00	79.04	GS7
ATOM	10470	CB	GLU	74	227.406	129.974	-38.092	1.00	67.85	ATOM	10523	N	VAL	80	213.875	118.809	-36.925	1.00	100.31.52	ATOM	10523	N	VAL	80	213.875	118.809	-36.925	1.00	100.31.52	GS7
ATOM	10471	CG	GLU	74	226.105	130.220	-37.327	1.00	67.85	ATOM	10524	CA	VAL	80	212.844	118.921	-37.943	1.00	100.31.52	ATOM	10524	CA	VAL	80	212.844	118.921	-37.943	1.00	100.31.52	GS7
ATOM	10472	CD	GLU	74	226.299	131.075	-36.078	1.00	67.85	ATOM	10525	CB	VAL	80	213.389	119.590	-39.222	1.00	100.10.60	ATOM	10525	CB	VAL	80	213.389	119.590	-39.222	1.00	100.10.60	GS7
ATOM	10473	OE1	GLU	74	227.267	130.825	-35.325	1.00	67.85	ATOM	10526	CG1	VAL	80	212.294	119.681	-40.268	1.00	100.10.60	ATOM	10526	CG1	VAL	80	212.294	119.681	-40.268	1.00	100.10.60	GS7
ATOM	10474	OE2	GLU	74	225.474	131.991	-35.847	1.00	67.85	ATOM	10527	CG2	VAL	80	213.909	120.976	-38.898	1.00	100.10.60	ATOM	10527	CG2	VAL	80	213.909	120.976	-38.898	1.00	100.10.60	GS7
ATOM	10475	C	GLU	74	226.057	128.369	-39.433	1.00	65.46	ATOM	10528	C	VAL	80	212.332	117.529	-38.279	1.00	100.31.52	ATOM	10528	C	VAL	80	212.332	117.529	-38.279	1.00	100.31.52	GS7
ATOM	10476	O	GLU	74	224.950	128.724	-39.834	1.00	65.46	ATOM	10529	O	VAL	80	213.036	116.669	-38.723	1.00	100.31.52	ATOM	10529	O	VAL	80	213.036	116.669	-38.723	1.00	100.31.52	GS7
ATOM	10477	N	VAL	75	226.308	127.159	-38.964	1.00	54.17	ATOM	10530	N	GLY	81	211.931	114.407	-39.205	1.00	100.10.51	ATOM	10530	N	GLY	81	211.931	114.407	-39.205	1.00	100.10.51	GS7
ATOM	10478	CA	VAL	75	225.269	126.161	-38.862	1.00	54.17	ATOM	10531	CA	GLY	81	210.424	116.033	-38.324	1.00	100.10.51	ATOM	10531	CA	GLY	81	210.424	116.033	-38.324	1.00	100.10.51	GS7
ATOM	10479	CG1	VAL	75	225.835	124.778	-39.165	1.00	61.88	ATOM	10532	C	GLY	81	211.935	114.877	-38.202	1.00	100.10.51	ATOM	10532	C	GLY	81	211.935	114.877	-38.202	1.00	100.10.51	GS7
ATOM	10480	CG1	VAL	75	224.911	123.716	-38.652	1.00	61.88	ATOM	10533	O	GLY	82	211.637	114.429	-39.793	1.00	100.10.35	ATOM	10533	O	GLY	82	211.637	114.429	-39.793	1.00	100.10.35	GS7
ATOM	10481	CG2	VAL	75	226.021	124.624	-40.649	1.00	61.88	ATOM	10534	N	GLY	82	212.546	113.319	-36.758	1.00	100.10.35	ATOM	10534	N	GLY	82	212.546	113.319	-36.758	1.00	100.10.35	GS7
ATOM	10482	C	VAL	75	224.672	126.163	-37.455	1.00	54.17	ATOM	10535	CA	GLY	82	213.941	113.716	-36.309	1.00	100.10.35	ATOM	10535	CA	GLY	82	213.941	113.716	-36.309	1.00	100.10.35	GS7
ATOM	10483	O	VAL	75	225.400	126.146	-36.463	1.00	54.17	ATOM	10536	C	GLY	82	214.165	114.007	-35.135	1.00	100.10.35	ATOM	10536	C	GLY	82	214.165	114.007	-35.135	1.00	100.10.35	GS7
ATOM	10484	N	VAL	76	223.345	126.207	-37.379	1.00	72.70	ATOM	10537	O	GLY	83	214.884	113.731	-37.246	1.00	100.12.49	ATOM	10537	O	GLY	83	214.884	113.731	-37.246	1.00	100.12.49	GS7
ATOM	10485	CA	ARG	76	222.628	126.179	-36.103	1.00	72.70	ATOM	10538	N	ALA	83	216.268	114.073	-36.937	1.00	100.12.49	ATOM	10538	N	ALA	83	216.268	114.073	-36.937	1.00	100.12.49	GS7
ATOM	10486	CB	ARG	76	221.741	127.413	-35.946	1.00	88.63	ATOM	10539	CA	ALA	83	217.185	113.574	-38.052	1.00	84.48	ATOM	10539	CA	ALA	83	217.185	113.574	-38.052	1.00	84.48	GS7
ATOM	10487	CD	ARG	76	222.426	128.646	-35.386	1.00	88.63	ATOM	10540	CB	ALA	83	216.496	115.564	-36.799	1.00	100.12.49	ATOM	10540	CB	ALA	83	216.496	115.564	-36.799	1.00	100.12.49	GS7
ATOM	10488	CG	ARG	76	221.393	129.751	-35.223	1.00	88.63	ATOM	10541	C	ALA	83	215.608	116.389	-36.254	1.00	100.11.51	ATOM	10541	C	ALA	83	215.608	116.389	-36.254	1.00	100.11.51	GS7
ATOM	10489	NE	ARG	76	221.850	130.881	-34.421	1.00	88.63	ATOM	10542	O	ALA	83	217.704	115.893	-36.254	1.00	100.11.51	ATOM	10542	O	ALA	83	217.704	115.893	-36.254	1.00	100.11.51	GS7
ATOM	10490	CZ	ARG	76	221.056	131.876	-34.034	1.00	88.63	ATOM	10543	N	ASN	84	218.096	117.271	-35.985	1.00	100.11.51	ATOM	10543	N	ASN	84	218.096	117.271	-35.985	1.00	100.11.51	GS7
ATOM	10491	NH1	ARG	76	221.535	132.870	-33.293	1.00	88.63	ATOM	10544	CA	ASN	84	218.825	117.361	-34.642	1.00	100.11.32	ATOM	10544	CA	ASN	84	218.825	117.361	-34.642	1.00	100.11.32	GS7
ATOM	10492	NH2	ARG	76	221.754	124.928	-36.097	1.00	72.70	ATOM	10545	CB	ASN	84	217.989	116.831	-33.494	1.00	100.11.32	ATOM	10545	CB	ASN	84	217.989	116.831	-33.494	1.00	100.11.32	GS7
ATOM	10493	C	ARG	76	221.057	124.648	-37.071	1.00	72.70	ATOM	10546	CG	ASN	84	216.875	117.292	-33.261	1.00	100.11.32	ATOM	10546	CG	ASN	84	216.875	117.292	-33.261	1.00	100.11.32	GS7
ATOM	10494	O	ARG	76	221.789	124.170	-35.009	1.00	96.72	ATOM	10547	OD1	ASN	84	218.525	115.856	-32.769	1.00	100.11.32	ATOM	10547	OD1	ASN	84	218.525	115.856	-32.769	1.00	100.11.32	GS7
ATOM	10495	N	SER	77	220.990	122.958	-34.945	1.00	96.72	ATOM	10548	ND2	ASN	84	220.209	117.498	-37.102	1.00	100.11.51	ATOM	10548	ND2	ASN	84	220.209	117.498	-37.102	1.00	100.11.51	GS7
ATOM	10496	CA	SER	77	221.285	122.191	-33.656	1.00	73.34	ATOM	10549	C	ASN	84	218.417	118.470	-38.059	1.00	100.10.08	ATOM	10549	C	ASN	84	218.417	118.470	-38.059	1.00	100.10.08	GS7
ATOM	10497	CB	SER	77	220.646	120.928	-33.669	1.00	73.34	ATOM	10550	O	ASN	85	219.152	118.992	-39.205	1.00	100.10.08	ATOM	10550	O	ASN	85	219.152	118.992	-39.205	1.00	100.10.08	GS7
ATOM	10498	CG	SER	77	219.501	123.282	-35.033	1.00	96.72	ATOM	10551	N	TYR	85	218.191	119.265	-40.367	1.00	100.11.34	ATOM	10551	N	TYR	85	218.191	119.265	-40.367	1.00	100.11.34	GS7
ATOM	10499	C	SER	77	219.097	124.446	-34.980	1.00	96.72	ATOM	10552	CA	TYR	85	217.451	118.045	-40.880	1.00	100.11.34	ATOM	10552	CA	TYR	85	217.451	118.045	-40.880	1.00	100.11.34	GS7
ATOM	10500	O	SER	77	218.692	122.241	-35.181	1.00	100.11.5.04	ATOM	10553	CB	TYR	85	216.366	118.185	-41.743	1.00	100.11.34	ATOM	10553	CB	TYR	85	216.366	118.185	-41.743	1.00	100.11.34	GS7
ATOM	10501	N	ARG	78	217.247	122.350	-35.276	1.00	100.10.9.49	ATOM	10554	CG	TYR	85	215.676	117.076	-42.219	1.00	100.11.34	ATOM	10554	CG	TYR	85	215.676	117.076	-42.219	1.00	100.11.34	GS7
ATOM	10502	CA	ARG	78	215.008	124.544	-37.651	1.00	100.10.9.49	ATOM	10555	CD1	TYR	85	217.147	115.636	-40.976	1.00	100.11.34	ATOM	10555	CD1	TYR	85	217.147	115.636	-40.976	1.00	100.11.34	GS7
ATOM	10503	CB																												

ATOM	10566	CG	GLN	86	223.903	120.007	-37.864	1.00	92.03	GST	ATOM	10619	CB	PRO	93	226.446	142.980	-37.246	1.00	94.38	GST
ATOM	10567	CD	GLN	86	223.798	120.587	-36.460	1.00	92.03	GST	ATOM	10620	CG	PRO	93	225.088	142.985	-36.590	1.00	94.38	GST
ATOM	10568	OE1	GLN	86	223.993	119.882	-35.470	1.00	92.03	GST	ATOM	10621	C	PRO	93	227.489	141.440	-35.535	1.00	59.48	GST
ATOM	10569	NE2	GLN	86	223.494	121.875	-36.369	1.00	92.03	GST	ATOM	10622	O	PRO	93	228.699	141.302	-35.332	1.00	59.48	GST
ATOM	10570	C	GLN	86	223.801	122.492	-39.999	1.00	76.70	GST	ATOM	10623	N	ARG	94	226.579	141.465	-34.566	1.00	56.37	GST
ATOM	10571	O	GLN	86	222.376	122.446	-41.078	1.00	76.70	GST	ATOM	10624	CA	ARG	94	226.932	141.355	-33.159	1.00	56.37	GST
ATOM	10572	N	VAL	87	220.941	123.451	-39.683	1.00	58.95	GST	ATOM	10625	CB	ARG	94	225.657	141.451	-32.311	1.00	67.21	GST
ATOM	10573	CA	VAL	87	220.597	124.510	-40.622	1.00	58.95	GST	ATOM	10626	CG	ARG	94	225.790	140.992	-30.866	1.00	67.21	GST
ATOM	10574	CB	VAL	87	219.204	125.087	-40.306	1.00	65.48	GST	ATOM	10627	CD	ARG	94	226.653	141.919	-30.036	1.00	67.21	GST
ATOM	10575	CG1	VAL	87	218.891	126.250	-41.243	1.00	65.48	GST	ATOM	10628	NE	ARG	94	226.830	141.391	-28.685	1.00	67.21	GST
ATOM	10576	CG2	VAL	87	218.157	123.997	-40.436	1.00	65.48	GST	ATOM	10629	CZ	ARG	94	227.728	141.837	-27.810	1.00	67.21	GST
ATOM	10577	C	VAL	87	221.591	125.667	-40.682	1.00	58.95	GST	ATOM	10630	NH1	ARG	94	228.541	142.832	-28.132	1.00	67.21	GST
ATOM	10578	O	VAL	87	221.937	126.264	-39.667	1.00	58.95	GST	ATOM	10631	NH2	ARG	94	227.830	141.273	-26.616	1.00	67.21	GST
ATOM	10579	N	PRO	88	222.046	126.008	-41.892	1.00	65.00	GST	ATOM	10632	C	ARG	94	227.665	140.046	-32.870	1.00	56.37	GST
ATOM	10580	CD	PRO	88	222.626	125.411	-43.170	1.00	43.75	GST	ATOM	10633	O	ARG	94	228.773	140.045	-32.324	1.00	56.37	GST
ATOM	10581	CA	PRO	88	222.996	127.087	-42.141	1.00	65.00	GST	ATOM	10634	N	ARG	95	227.048	138.933	-33.260	1.00	51.80	GST
ATOM	10582	CB	PRO	88	223.456	126.800	-43.546	1.00	43.75	GST	ATOM	10635	CA	ARG	95	226.597	136.528	-33.427	1.00	48.73	GST
ATOM	10583	CG	PRO	88	222.171	126.410	-44.179	1.00	43.75	GST	ATOM	10636	CB	ARG	95	226.923	135.123	-33.924	1.00	48.73	GST
ATOM	10584	C	PRO	88	222.249	128.391	-42.101	1.00	65.00	GST	ATOM	10637	CG	ARG	95	225.881	134.096	-33.329	1.00	48.73	GST
ATOM	10585	O	PRO	88	221.035	128.406	-42.268	1.00	65.00	GST	ATOM	10638	CD	ARG	95	226.327	132.747	-33.007	1.00	48.73	GST
ATOM	10586	N	MET	89	222.977	129.484	-41.906	1.00	71.30	GST	ATOM	10639	NE	ARG	95	226.711	132.365	-31.794	1.00	48.73	GST
ATOM	10587	CA	MET	89	222.370	130.803	-41.871	1.00	71.30	GST	ATOM	10640	CZ	ARG	95	226.699	133.234	-30.790	1.00	48.73	GST
ATOM	10588	CB	MET	89	221.224	130.827	-40.873	1.00	102.31	GST	ATOM	10641	NH1	ARG	95	227.117	131.119	-31.575	1.00	48.73	GST
ATOM	10589	CG	MET	89	221.572	130.223	-39.547	1.00	102.31	GST	ATOM	10642	NH2	ARG	95	228.953	137.388	-33.757	1.00	51.80	GST
ATOM	10590	SD	MET	89	220.063	130.030	-38.654	1.00	102.31	GST	ATOM	10643	C	ARG	95	229.831	136.673	-33.272	1.00	51.80	GST
ATOM	10591	CE	MET	89	219.765	131.732	-38.151	1.00	102.31	GST	ATOM	10644	O	ARG	96	229.101	137.996	-34.928	1.00	69.39	GST
ATOM	10592	C	MET	89	223.369	131.883	-41.529	1.00	71.30	GST	ATOM	10645	N	GLN	96	230.335	137.857	-35.685	1.00	69.39	GST
ATOM	10593	O	MET	89	224.425	131.610	-40.958	1.00	71.30	GST	ATOM	10646	CA	GLN	96	230.281	138.712	-36.943	1.00	88.20	GST
ATOM	10594	N	GLU	90	223.013	133.113	-41.890	1.00	60.60	GST	ATOM	10647	CB	GLN	96	229.496	138.092	-38.063	1.00	88.20	GST
ATOM	10595	CA	GLU	90	223.847	134.278	-41.661	1.00	60.60	GST	ATOM	10648	CG	GLN	96	229.381	139.017	-39.248	1.00	88.20	GST
ATOM	10596	CB	GLU	90	223.076	135.543	-42.012	1.00	130.29	GST	ATOM	10649	CD	GLN	96	230.357	139.648	-39.653	1.00	88.20	GST
ATOM	10597	CG	GLU	90	222.440	135.513	-43.380	1.00	130.29	GST	ATOM	10650	OE1	GLN	96	228.187	139.102	-39.819	1.00	88.20	GST
ATOM	10598	CD	GLU	90	221.492	136.674	-43.594	1.00	130.29	GST	ATOM	10651	NE2	GLN	96	231.517	137.286	-34.826	1.00	69.39	GST
ATOM	10599	OE1	GLU	90	220.918	136.779	-44.699	1.00	130.29	GST	ATOM	10652	C	GLN	96	231.539	137.605	-34.759	1.00	69.39	GST
ATOM	10600	OE2	GLU	90	221.317	137.482	-42.653	1.00	130.29	GST	ATOM	10653	O	GLN	96	231.375	139.421	-34.160	1.00	59.12	GST
ATOM	10601	C	GLU	90	224.280	134.352	-40.214	1.00	60.60	GST	ATOM	10654	N	GLN	97	232.451	139.896	-33.318	1.00	59.12	GST
ATOM	10602	O	GLU	90	223.908	133.515	-39.392	1.00	60.60	GST	ATOM	10655	CA	GLN	97	232.121	141.281	-32.774	1.00	85.12	GST
ATOM	10603	N	VAL	91	225.083	135.359	-39.907	1.00	55.24	GST	ATOM	10656	CB	GLN	97	233.216	141.861	-31.909	1.00	85.12	GST
ATOM	10604	CA	VAL	91	225.544	135.556	-38.560	1.00	55.24	GST	ATOM	10657	CG	GLN	97	232.960	143.303	-31.572	1.00	85.12	GST
ATOM	10605	CB	VAL	91	227.025	135.175	-38.399	1.00	48.44	GST	ATOM	10658	CD	GLN	97	232.872	144.150	-32.462	1.00	85.12	GST
ATOM	10606	CG1	VAL	91	227.468	135.345	-36.955	1.00	48.44	GST	ATOM	10659	OE1	GLN	97	232.833	143.597	-30.281	1.00	85.12	GST
ATOM	10607	CG2	VAL	91	227.227	133.735	-38.826	1.00	48.44	GST	ATOM	10660	NE2	GLN	97	233.732	138.938	-32.165	1.00	59.12	GST
ATOM	10608	C	VAL	91	225.349	137.031	-38.283	1.00	55.24	GST	ATOM	10661	C	GLN	97	233.834	138.399	-32.054	1.00	59.12	GST
ATOM	10609	O	VAL	91	225.756	137.870	-39.088	1.00	55.24	GST	ATOM	10662	O	GLN	98	231.734	138.723	-31.313	1.00	91.53	GST
ATOM	10610	N	SER	92	224.691	137.342	-37.171	1.00	74.02	GST	ATOM	10663	N	SER	98	230.501	137.838	-30.158	1.00	91.53	GST
ATOM	10611	CA	SER	92	224.430	138.727	-36.801	1.00	74.02	GST	ATOM	10664	CA	SER	98	229.672	136.541	-29.401	1.00	77.22	GST
ATOM	10612	CB	SER	92	223.763	138.606	-35.434	1.00	89.26	GST	ATOM	10665	CG	SER	98	232.692	138.588	-30.489	1.00	91.53	GST
ATOM	10613	OG	SER	92	224.747	138.748	-34.415	1.00	89.26	GST	ATOM	10666	OG	SER	98	233.601	136.199	-29.748	1.00	91.53	GST
ATOM	10614	C	SER	92	225.738	139.483	-36.719	1.00	74.02	GST	ATOM	10667	C	SER	98	232.357	135.969	-31.615	1.00	56.99	GST
ATOM	10615	O	SER	92	226.773	138.916	-36.376	1.00	74.02	GST	ATOM	10668	O	SER	99	233.025	134.756	-32.063	1.00	56.99	GST
ATOM	10616	N	PRO	93	225.705	140.786	-37.011	1.00	59.48	GST	ATOM	10669	N	LEU	99	232.227	134.122	-33.204	1.00	48.52	GST
ATOM	10617	CD	PRO	93	226.935	141.663	-37.059	1.00	94.38	GST	ATOM	10670	CA	LEU	99						
ATOM	10618	CA	PRO	93						GST	ATOM	10671	CB	LEU	99						

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ATOM	10672	CG	LEU	99	230.801	133.715	-32.841	1.00	48.52	ATOM	10725	CB	VAL	105	241.189	134.876	-26.542	1.00	48.85	GS7
ATOM	10673	CD1	LEU	99	230.042	133.358	-34.086	1.00	48.52	ATOM	10726	CG1	VAL	105	241.874	133.483	-25.219	1.00	48.85	GS7
ATOM	10674	CD2	LEU	99	230.840	132.545	-31.891	1.00	48.52	ATOM	10727	CG2	VAL	105	241.007	136.382	-26.647	1.00	48.85	GS7
ATOM	10675	C	LEU	99	234.454	135.022	-32.514	1.00	56.99	ATOM	10728	C	VAL	105	242.167	132.858	-27.544	1.00	42.65	GS7
ATOM	10676	O	LEU	99	235.363	134.251	-32.210	1.00	56.99	ATOM	10729	O	VAL	105	243.169	132.398	-27.005	1.00	42.65	GS7
ATOM	10677	N	ALA	100	234.645	136.115	-33.245	1.00	57.92	ATOM	10730	N	GLN	106	241.166	133.098	-27.975	1.00	55.16	GS7
ATOM	10678	CA	ALA	100	235.968	136.477	-33.735	1.00	57.92	ATOM	10731	CA	GLN	106	241.216	130.648	-27.827	1.00	55.16	GS7
ATOM	10679	CB	ALA	100	235.887	137.776	-34.533	1.00	49.79	ATOM	10732	CB	GLN	106	239.950	130.002	-28.383	1.00	85.53	GS7
ATOM	10680	C	ALA	100	236.924	136.636	-32.555	1.00	57.92	ATOM	10733	CG	GLN	106	238.675	130.332	-27.651	1.00	85.53	GS7
ATOM	10681	O	ALA	100	237.933	135.926	-32.445	1.00	57.92	ATOM	10734	CD	GLN	106	237.505	129.525	-28.176	1.00	85.53	GS7
ATOM	10682	CD1	LEU	101	236.593	137.569	-31.669	1.00	51.10	ATOM	10735	OE1	GLN	106	236.352	129.872	-27.949	1.00	85.53	GS7
ATOM	10683	CA	LEU	101	237.406	137.825	-30.490	1.00	51.10	ATOM	10736	NE2	GLN	106	237.798	128.434	-28.876	1.00	85.53	GS7
ATOM	10684	CB	LEU	101	236.758	138.917	-29.635	1.00	58.51	ATOM	10737	C	GLN	106	242.422	130.049	-28.537	1.00	55.16	GS7
ATOM	10685	CG	LEU	101	236.461	140.257	-30.310	1.00	58.51	ATOM	10738	O	GLN	106	243.228	129.339	-27.931	1.00	55.16	GS7
ATOM	10686	CD1	LEU	101	235.827	141.195	-29.299	1.00	58.51	ATOM	10739	N	ALA	107	242.529	130.329	-29.831	1.00	85.05	GS7
ATOM	10687	CD2	LEU	101	237.739	140.860	-30.857	1.00	58.51	ATOM	10740	CA	ALA	107	243.631	129.825	-30.640	1.00	85.05	GS7
ATOM	10688	C	LEU	101	237.579	136.552	-29.659	1.00	51.10	ATOM	10741	CB	ALA	107	243.461	130.280	-32.063	1.00	28.46	GS7
ATOM	10689	O	LEU	101	238.678	136.244	-29.191	1.00	51.10	ATOM	10742	C	ALA	107	244.948	130.342	-30.086	1.00	85.05	GS7
ATOM	10690	N	ARG	102	236.495	135.810	-29.466	1.00	53.67	ATOM	10743	O	ALA	108	245.928	129.602	-29.961	1.00	85.05	GS7
ATOM	10691	CA	ARG	102	236.607	134.599	-28.689	1.00	53.67	ATOM	10744	N	ALA	108	244.957	131.627	-29.759	1.00	46.41	GS7
ATOM	10692	CB	ARG	102	235.250	133.909	-28.550	1.00	43.81	ATOM	10745	CA	ALA	108	246.132	132.273	-29.212	1.00	46.41	GS7
ATOM	10693	CG	ARG	102	235.320	132.620	-27.726	1.00	43.81	ATOM	10746	CB	ALA	108	245.797	133.694	-28.827	1.00	15.47	GS7
ATOM	10694	CD	ARG	102	233.972	131.926	-27.600	1.00	43.81	ATOM	10747	C	ALA	108	246.640	131.509	-27.999	1.00	46.41	GS7
ATOM	10695	NE	ARG	102	232.998	132.810	-26.973	1.00	43.81	ATOM	10748	O	ALA	108	247.846	131.324	-27.826	1.00	46.41	GS7
ATOM	10696	CZ	ARG	102	231.786	133.049	-27.460	1.00	43.81	ATOM	10749	N	ASN	109	245.720	131.063	-27.156	1.00	44.12	GS7
ATOM	10697	NH1	ARG	102	231.398	132.453	-28.578	1.00	43.81	ATOM	10750	CA	ASN	109	246.114	130.335	-25.964	1.00	44.12	GS7
ATOM	10698	NH2	ARG	102	230.988	133.926	-26.864	1.00	43.81	ATOM	10751	CB	ASN	109	245.080	130.522	-24.863	1.00	79.01	GS7
ATOM	10699	C	ARG	102	237.606	133.671	-29.378	1.00	53.67	ATOM	10752	CG	ASN	109	245.257	131.832	-24.132	1.00	79.01	GS7
ATOM	10700	O	ARG	102	238.594	133.249	-28.772	1.00	53.67	ATOM	10753	OD1	ASN	109	244.305	132.745	-24.304	1.00	79.01	GS7
ATOM	10701	N	TRP	103	237.366	133.368	-30.648	1.00	66.46	ATOM	10754	ND2	ASN	109	246.247	132.026	-23.429	1.00	79.01	GS7
ATOM	10702	CA	TRP	103	238.255	132.470	-31.370	1.00	66.46	ATOM	10755	C	ASN	109	244.594	128.088	-25.303	1.00	44.12	GS7
ATOM	10703	CB	TRP	103	237.805	132.309	-32.826	1.00	58.86	ATOM	10756	O	ASN	109	246.271	128.481	-27.492	1.00	68.10	GS7
ATOM	10704	CG	TRP	103	236.523	131.546	-32.978	1.00	58.86	ATOM	10757	N	GLN	110	246.523	127.101	-27.838	1.00	68.10	GS7
ATOM	10705	CD2	TRP	103	235.647	131.540	-34.115	1.00	58.86	ATOM	10758	CA	GLN	110	245.370	126.515	-28.641	1.00	121.05	GS7
ATOM	10706	CE2	TRP	103	234.575	130.681	-33.812	1.00	58.86	ATOM	10759	CB	GLN	110	244.703	125.369	-27.909	1.00	121.05	GS7
ATOM	10707	CE3	TRP	103	235.664	132.178	-35.361	1.00	58.86	ATOM	10760	CG	GLN	110	243.909	124.475	-28.826	1.00	121.05	GS7
ATOM	10708	CD1	TRP	103	235.962	130.709	-32.064	1.00	58.86	ATOM	10761	CD	GLN	110	243.386	123.444	-28.401	1.00	121.05	GS7
ATOM	10709	NE1	TRP	103	234.792	130.188	-32.553	1.00	58.86	ATOM	10762	OE1	GLN	110	243.814	124.858	-30.096	1.00	121.05	GS7
ATOM	10710	CZ2	TRP	103	233.526	130.443	-34.712	1.00	58.86	ATOM	10763	NE2	GLN	110	247.822	127.032	-29.621	1.00	68.10	GS7
ATOM	10711	CG2	TRP	103	234.620	131.937	-36.253	1.00	58.86	ATOM	10764	C	GLN	110	248.190	125.991	-29.166	1.00	68.10	GS7
ATOM	10712	CH2	TRP	103	233.570	131.079	-35.923	1.00	58.86	ATOM	10765	O	GLN	110	248.517	128.162	-28.665	1.00	70.82	GS7
ATOM	10713	C	TRP	103	239.709	132.916	-31.324	1.00	66.46	ATOM	10766	N	ARG	111	249.798	128.251	-29.345	1.00	70.82	GS7
ATOM	10714	O	TRP	103	240.606	132.091	-31.144	1.00	66.46	ATOM	10767	CA	ARG	111	250.105	129.706	-29.687	1.00	55.20	GS7
ATOM	10715	N	LEU	104	239.953	134.213	-31.483	1.00	61.79	ATOM	10768	CB	ARG	111	249.690	130.086	-31.074	1.00	55.20	GS7
ATOM	10716	CA	LEU	104	241.326	134.701	-31.443	1.00	61.79	ATOM	10769	CG	ARG	111	249.733	131.581	-31.310	1.00	55.20	GS7
ATOM	10717	CB	LEU	104	241.375	136.223	-31.603	1.00	50.28	ATOM	10770	CD	ARG	111	249.717	131.867	-32.743	1.00	55.20	GS7
ATOM	10718	CG	LEU	104	241.072	136.755	-33.010	1.00	50.28	ATOM	10771	NE	ARG	111	250.804	131.901	-33.511	1.00	55.20	GS7
ATOM	10719	CD1	LEU	104	242.036	136.157	-34.013	1.00	50.28	ATOM	10772	CZ	ARG	111	252.006	131.679	-32.984	1.00	55.20	GS7
ATOM	10720	CD2	LEU	104	241.995	134.290	-30.142	1.00	61.79	ATOM	10773	NH1	ARG	111	250.686	132.139	-34.813	1.00	55.20	GS7
ATOM	10721	C	LEU	104	242.994	133.582	-30.156	1.00	61.79	ATOM	10774	NH2	ARG	111	250.884	127.633	-28.434	1.00	70.82	GS7
ATOM	10722	O	LEU	104	241.441	134.717	-29.016	1.00	42.65	ATOM	10775	C	ARG	111	250.646	127.436	-27.250	1.00	70.82	GS7
ATOM	10723	N	VAL	105	242.023	134.360	-27.728	1.00	42.65	ATOM	10776	O	ARG	111	252.093	127.490	-28.977	1.00	81.36	GS7
ATOM	10724	CA	VAL	105						ATOM	10777	N	PRO	112						GS7

ATOM	10778	CD	PRO	112	252.374	127.389	-30.420	1.00	42.44	GS7	ATOM	10831	O	VAL	118	252.153	136.238	-29.394	1.00	77.05	GS7
ATOM	10779	CA	PRO	112	253.214	126.960	-28.196	1.00	81.36	GS7	ATOM	10832	N	ARG	119	251.805	134.878	-27.624	1.00	68.87	GS7
ATOM	10780	CB	PRO	112	254.072	126.284	-29.255	1.00	42.44	GS7	ATOM	10833	CA	ARG	119	250.801	134.078	-28.300	1.00	68.87	GS7
ATOM	10781	CG	PRO	112	253.865	127.144	-30.439	1.00	42.44	GS7	ATOM	10834	CB	ARG	119	250.161	133.101	-27.331	1.00	54.00	GS7
ATOM	10782	C	PRO	112	254.015	127.953	-27.343	1.00	81.36	GS7	ATOM	10835	CG	ARG	119	251.109	132.051	-26.838	1.00	54.00	GS7
ATOM	10783	O	PRO	112	254.174	127.729	-26.143	1.00	81.36	GS7	ATOM	10836	CD	ARG	119	250.336	130.964	-26.153	1.00	54.00	GS7
ATOM	10784	N	GLU	113	254.518	129.033	-27.942	1.00	63.87	GS7	ATOM	10837	NE	ARG	119	249.602	131.487	-25.007	1.00	54.00	GS7
ATOM	10785	CA	GLU	113	255.318	130.008	-27.193	1.00	63.87	GS7	ATOM	10838	CZ	ARG	119	250.154	131.770	-23.828	1.00	54.00	GS7
ATOM	10786	CB	GLU	113	255.291	131.375	-27.871	1.00	59.19	GS7	ATOM	10839	NH1	ARG	119	251.456	131.578	-23.627	1.00	54.00	GS7
ATOM	10787	CG	GLU	113	253.988	131.633	-28.555	1.00	59.19	GS7	ATOM	10840	NH2	ARG	119	249.396	133.249	-22.850	1.00	54.00	GS7
ATOM	10788	OE1	GLU	113	253.995	131.300	-30.014	1.00	59.19	GS7	ATOM	10841	C	ARG	119	249.736	134.955	-28.912	1.00	68.87	GS7
ATOM	10789	OE1	GLU	113	254.689	131.969	-30.810	1.00	59.19	GS7	ATOM	10842	O	ARG	119	249.202	134.646	-29.973	1.00	68.87	GS7
ATOM	10790	OE2	GLU	113	253.308	130.321	-30.364	1.00	59.19	GS7	ATOM	10843	N	ILE	120	249.426	136.055	-28.243	1.00	52.23	GS7
ATOM	10791	O	GLU	113	254.876	130.153	-25.741	1.00	63.87	GS7	ATOM	10844	CA	ILE	120	248.422	136.965	-28.758	1.00	52.23	GS7
ATOM	10792	O	GLU	113	253.695	130.352	-25.460	1.00	63.87	GS7	ATOM	10845	CB	ILE	120	247.939	137.925	-27.665	1.00	70.46	GS7
ATOM	10793	N	ARG	114	255.838	130.062	-24.826	1.00	54.28	GS7	ATOM	10846	CG2	ILE	120	246.927	138.917	-28.233	1.00	70.46	GS7
ATOM	10794	CA	ARG	114	255.567	130.142	-23.396	1.00	54.28	GS7	ATOM	10847	CG1	ILE	120	247.313	137.116	-26.536	1.00	70.46	GS7
ATOM	10795	CB	ARG	114	256.858	129.911	-22.606	1.00	64.48	GS7	ATOM	10848	CD1	ILE	120	246.673	137.962	-25.489	1.00	70.46	GS7
ATOM	10796	CG	ARG	114	257.735	128.724	-23.002	1.00	64.48	GS7	ATOM	10849	C	ILE	120	249.009	137.760	-29.914	1.00	52.23	GS7
ATOM	10797	CD	ARG	114	258.883	128.689	-21.999	1.00	64.48	GS7	ATOM	10850	O	ILE	120	248.373	137.928	-30.968	1.00	52.23	GS7
ATOM	10798	NE	ARG	114	259.944	127.639	-22.205	1.00	64.48	GS7	ATOM	10851	N	ALA	121	250.234	138.234	-29.710	1.00	64.01	GS7
ATOM	10799	CH2	ARG	114	259.750	126.415	-22.490	1.00	64.48	GS7	ATOM	10852	CA	ALA	121	250.935	139.014	-30.717	1.00	77.85	GS7
ATOM	10800	NH1	ARG	114	258.516	125.938	-22.633	1.00	64.48	GS7	ATOM	10853	CB	ALA	121	252.340	139.348	-30.235	1.00	77.85	GS7
ATOM	10801	NH2	ARG	114	260.796	125.590	-22.571	1.00	64.48	GS7	ATOM	10854	C	ALA	121	250.999	138.122	-32.009	1.00	64.01	GS7
ATOM	10802	C	ARG	114	254.917	131.447	-22.893	1.00	54.28	GS7	ATOM	10855	O	ALA	121	250.537	138.674	-33.056	1.00	64.01	GS7
ATOM	10803	O	ARG	114	254.173	131.427	-21.910	1.00	54.28	GS7	ATOM	10856	N	HIS	122	251.562	137.021	-31.923	1.00	50.18	GS7
ATOM	10804	N	ARG	115	255.194	132.574	-23.550	1.00	62.04	GS7	ATOM	10857	CA	HIS	122	251.696	136.162	-33.091	1.00	50.18	GS7
ATOM	10805	CA	ARG	115	254.646	133.868	-23.121	1.00	62.04	GS7	ATOM	10858	CB	HIS	122	252.562	134.951	-32.741	1.00	78.36	GS7
ATOM	10806	CB	ARG	115	255.609	134.996	-23.486	1.00	115.38	GS7	ATOM	10859	CG	HIS	122	254.012	135.283	-32.594	1.00	78.36	GS7
ATOM	10807	CG	ARG	115	256.739	135.209	-22.501	1.00	115.38	GS7	ATOM	10860	CD2	HIS	122	254.762	136.260	-33.158	1.00	78.36	GS7
ATOM	10808	CD	ARG	115	257.544	136.415	-22.924	1.00	115.38	GS7	ATOM	10861	ND1	HIS	122	254.864	135.084	-31.785	1.00	78.36	GS7
ATOM	10809	NE	ARG	115	256.674	137.565	-23.152	1.00	115.38	GS7	ATOM	10862	CE1	HIS	122	256.076	135.563	-31.855	1.00	78.36	GS7
ATOM	10810	C2	ARG	115	257.024	138.644	-23.844	1.00	115.38	GS7	ATOM	10863	NE2	HIS	122	256.041	136.114	-32.681	1.00	78.36	GS7
ATOM	10811	NH1	ARG	115	258.232	138.726	-24.383	1.00	115.38	GS7	ATOM	10864	C	HIS	122	250.365	135.710	-33.678	1.00	50.18	GS7
ATOM	10812	NH2	ARG	115	256.164	139.641	-24.004	1.00	115.38	GS7	ATOM	10865	O	HIS	122	250.207	135.667	-34.896	1.00	50.18	GS7
ATOM	10813	C	ARG	115	253.255	134.240	-23.629	1.00	62.04	GS7	ATOM	10866	N	GLU	123	249.408	135.382	-32.815	1.00	55.90	GS7
ATOM	10814	O	ARG	115	253.030	134.382	-24.832	1.00	62.04	GS7	ATOM	10867	CA	GLU	123	248.108	134.931	-33.279	1.00	55.90	GS7
ATOM	10815	N	ALA	116	252.329	134.423	-22.696	1.00	51.13	GS7	ATOM	10868	CB	GLU	123	247.191	134.632	-32.097	1.00	69.86	GS7
ATOM	10816	CA	ALA	116	250.965	134.795	-23.034	1.00	51.13	GS7	ATOM	10869	CG	GLU	123	245.895	133.970	-32.517	1.00	69.86	GS7
ATOM	10817	CB	ALA	116	250.228	135.236	-21.787	1.00	34.59	GS7	ATOM	10870	CD	GLU	123	246.127	132.716	-33.348	1.00	69.86	GS7
ATOM	10818	C	ALA	116	250.951	135.917	-24.060	1.00	51.13	GS7	ATOM	10871	OE1	GLU	123	245.157	132.233	-33.974	1.00	69.86	GS7
ATOM	10819	O	ALA	116	250.470	135.745	-25.178	1.00	51.13	GS7	ATOM	10872	OE2	GLU	123	247.273	132.210	-33.377	1.00	69.86	GS7
ATOM	10820	N	ALA	117	251.497	137.062	-23.665	1.00	60.21	GS7	ATOM	10873	C	GLU	123	247.483	135.993	-34.169	1.00	55.90	GS7
ATOM	10821	CA	ALA	117	251.544	138.247	-24.515	1.00	60.21	GS7	ATOM	10874	O	GLU	124	247.072	135.706	-35.297	1.00	55.90	GS7
ATOM	10822	CB	ALA	117	252.404	139.307	-23.862	1.00	41.39	GS7	ATOM	10875	N	LEU	124	247.423	137.222	-33.661	1.00	57.23	GS7
ATOM	10823	C	ALA	117	252.035	137.983	-25.930	1.00	60.21	GS7	ATOM	10876	CA	LEU	124	246.860	138.336	-34.418	1.00	59.28	GS7
ATOM	10824	O	ALA	117	251.641	138.682	-26.863	1.00	60.21	GS7	ATOM	10877	CB	LEU	124	247.080	139.643	-33.659	1.00	59.28	GS7
ATOM	10825	N	VAL	118	252.901	136.986	-26.088	1.00	77.05	GS7	ATOM	10878	CG1	LEU	124	246.156	139.832	-32.459	1.00	59.28	GS7
ATOM	10826	CA	VAL	118	253.434	136.645	-27.405	1.00	77.05	GS7	ATOM	10879	CD1	LEU	124	246.563	141.051	-31.672	1.00	59.28	GS7
ATOM	10827	CB	VAL	118	254.679	135.744	-27.306	1.00	43.08	GS7	ATOM	10880	CD2	LEU	124	244.728	139.974	-32.947	1.00	59.28	GS7
ATOM	10828	CG1	VAL	118	255.137	135.351	-28.698	1.00	43.08	GS7	ATOM	10881	C	LEU	124	247.477	138.431	-35.812	1.00	57.23	GS7
ATOM	10829	CG2	VAL	118	255.782	136.460	-26.556	1.00	43.08	GS7	ATOM	10882	O	LEU	124	246.761	138.453	-36.815	1.00	57.23	GS7
ATOM	10830	C	VAL	118	252.399	135.901	-28.232	1.00	77.05	GS7	ATOM	10883	N	MET	125	248.807	138.479	-35.864	1.00	61.65	GS7

ATOM	10884	CA	MET	125	249.538	138.560	-37.124	1.00	61.65	GS7	ATOM	10937	C	GLY	133	242.886	129.197	-35.571	1.00	83.11	GS7
ATOM	10885	CB	MET	125	251.039	138.504	-36.851	1.00	81.65	GS7	ATOM	10938	O	GLY	133	241.796	128.627	-35.630	1.00	83.11	GS7
ATOM	10886	GF	MET	125	251.490	139.640	-35.957	1.00	81.65	GS7	ATOM	10939	N	ALA	134	243.010	130.513	-35.452	1.00	50.75	GS7
ATOM	10887	SD	MET	125	253.265	139.796	-35.762	1.00	81.65	GS7	ATOM	10940	CA	ALA	134	241.851	131.385	-35.394	1.00	50.75	GS7
ATOM	10888	CE	MET	125	253.511	139.087	-34.140	1.00	81.65	GS7	ATOM	10941	CB	ALA	134	242.303	132.815	-35.196	1.00	79.28	GS7
ATOM	10889	C	MET	125	249.124	137.442	-38.074	1.00	61.65	GS7	ATOM	10942	C	ALA	134	241.030	131.266	-36.675	1.00	50.75	GS7
ATOM	10890	O	MET	125	248.657	137.708	-39.185	1.00	61.65	GS7	ATOM	10943	O	ALA	134	239.872	130.857	-36.652	1.00	50.75	GS7
ATOM	10891	N	ASP	126	249.292	136.194	-37.639	1.00	61.38	GS7	ATOM	10944	N	VAL	135	241.640	131.621	-37.798	1.00	65.82	GS7
ATOM	10892	CA	ASP	126	248.907	135.040	-38.452	1.00	61.38	GS7	ATOM	10945	CA	VAL	135	240.947	131.561	-39.071	1.00	65.82	GS7
ATOM	10893	CB	ASP	126	248.962	133.750	-37.620	1.00	89.46	GS7	ATOM	10946	CB	VAL	135	241.801	132.161	-40.196	1.00	53.16	GS7
ATOM	10894	CG	ASP	126	250.347	133.124	-37.588	1.00	89.46	GS7	ATOM	10947	CGI	VAL	135	241.119	131.956	-41.535	1.00	53.16	GS7
ATOM	10895	ODI	ASP	126	251.335	133.849	-37.357	1.00	89.46	GS7	ATOM	10948	CG2	VAL	135	242.007	133.641	-39.940	1.00	53.16	GS7
ATOM	10896	OD2	ASP	126	250.445	131.894	-37.783	1.00	89.46	GS7	ATOM	10949	C	VAL	135	240.536	130.148	-39.454	1.00	65.82	GS7
ATOM	10897	C	ASP	126	247.480	135.253	-38.957	1.00	61.38	GS7	ATOM	10950	O	VAL	135	239.602	129.968	-40.234	1.00	65.82	GS7
ATOM	10898	O	ASP	126	247.177	135.029	-40.134	1.00	61.38	GS7	ATOM	10951	N	LYS	136	241.223	129.142	-38.921	1.00	66.14	GS7
ATOM	10899	N	ALA	127	246.610	135.694	-38.051	1.00	64.34	GS7	ATOM	10952	CA	LYS	136	240.844	127.777	-39.251	1.00	66.14	GS7
ATOM	10900	CA	ALA	127	245.216	135.944	-38.381	1.00	64.34	GS7	ATOM	10953	CB	LYS	136	241.706	126.760	-38.516	1.00	95.91	GS7
ATOM	10901	CB	ALA	127	244.470	136.395	-37.141	1.00	64.34	GS7	ATOM	10954	CG	LYS	136	241.278	125.318	-38.786	1.00	95.91	GS7
ATOM	10902	C	ALA	127	245.128	137.004	-39.476	1.00	64.34	GS7	ATOM	10955	CD	LYS	136	241.410	124.451	-37.543	1.00	95.91	GS7
ATOM	10903	O	ALA	127	244.365	136.868	-40.434	1.00	64.34	GS7	ATOM	10956	CE	LYS	136	242.859	124.353	-37.076	1.00	95.91	GS7
ATOM	10904	N	ALA	128	245.916	138.063	-39.333	1.00	73.31	GS7	ATOM	10957	NZ	LYS	136	242.982	123.808	-35.688	1.00	95.91	GS7
ATOM	10905	CA	ALA	128	245.922	139.122	-40.329	1.00	73.31	GS7	ATOM	10958	C	LYS	136	239.393	127.590	-39.628	1.00	66.14	GS7
ATOM	10906	CB	ALA	128	246.908	140.212	-39.926	1.00	39.23	GS7	ATOM	10959	O	LYS	136	238.534	127.270	-38.849	1.00	66.14	GS7
ATOM	10907	C	ALA	128	246.309	138.527	-41.684	1.00	73.31	GS7	ATOM	10960	N	LYS	137	239.124	127.802	-37.543	1.00	49.64	GS7
ATOM	10908	O	ALA	128	245.599	138.707	-42.677	1.00	73.31	GS7	ATOM	10961	CA	LYS	137	237.773	127.654	-37.020	1.00	49.64	GS7
ATOM	10909	N	GLU	129	247.431	137.810	-41.714	1.00	81.12	GS7	ATOM	10962	CB	LYS	137	237.702	128.124	-35.557	1.00	98.46	GS7
ATOM	10910	CA	GLU	129	247.919	137.182	-42.940	1.00	81.12	GS7	ATOM	10963	CG	LYS	137	238.777	127.492	-34.672	1.00	98.46	GS7
ATOM	10911	CB	GLU	129	249.194	136.384	-42.658	1.00	137.30	GS7	ATOM	10964	CD	LYS	137	238.638	127.824	-33.181	1.00	98.46	GS7
ATOM	10912	CG	GLU	129	250.400	137.249	-42.347	1.00	137.30	GS7	ATOM	10965	CE	LYS	137	239.795	127.189	-32.394	1.00	98.46	GS7
ATOM	10913	CD	GLU	129	250.814	138.104	-43.529	1.00	137.30	GS7	ATOM	10966	NZ	LYS	137	239.593	127.190	-30.927	1.00	98.46	GS7
ATOM	10914	OE1	GLU	129	251.330	137.542	-44.518	1.00	137.30	GS7	ATOM	10967	C	LYS	137	236.808	128.457	-37.878	1.00	49.64	GS7
ATOM	10915	OE2	GLU	129	250.617	139.336	-43.474	1.00	137.30	GS7	ATOM	10968	O	LYS	137	235.772	127.945	-38.289	1.00	49.64	GS7
ATOM	10916	C	GLU	129	246.869	136.266	-43.551	1.00	81.12	GS7	ATOM	10969	N	LYS	138	237.155	129.705	-38.171	1.00	52.00	GS7
ATOM	10917	O	GLU	129	246.758	136.161	-44.773	1.00	81.12	GS7	ATOM	10970	CA	LYS	138	236.281	130.544	-38.972	1.00	52.00	GS7
ATOM	10918	N	GLY	130	246.102	135.603	-42.693	1.00	60.02	GS7	ATOM	10971	CB	LYS	138	236.916	131.913	-39.201	1.00	49.48	GS7
ATOM	10919	CA	GLY	130	245.066	134.708	-43.169	1.00	60.02	GS7	ATOM	10972	CG	LYS	138	236.105	132.832	-40.118	1.00	49.48	GS7
ATOM	10920	C	GLY	130	244.643	132.362	-43.217	1.00	60.02	GS7	ATOM	10973	CD	LYS	138	236.409	132.602	-41.606	1.00	49.48	GS7
ATOM	10921	O	GLY	130	244.617	133.085	-41.795	1.00	67.69	GS7	ATOM	10974	CE	LYS	138	235.770	133.695	-42.476	1.00	49.48	GS7
ATOM	10922	N	LYS	131	246.217	133.085	-41.795	1.00	67.69	GS7	ATOM	10975	NZ	LYS	138	236.210	133.708	-43.913	1.00	49.48	GS7
ATOM	10923	CA	LYS	131	246.522	131.751	-41.296	1.00	67.69	GS7	ATOM	10976	C	LYS	138	235.920	129.918	-40.313	1.00	52.00	GS7
ATOM	10924	CB	LYS	131	247.981	131.413	-41.619	1.00	94.81	GS7	ATOM	10977	O	LYS	138	234.742	129.798	-40.656	1.00	52.00	GS7
ATOM	10925	CG	LYS	131	248.950	132.512	-41.210	1.00	94.81	GS7	ATOM	10978	N	GLU	139	236.931	129.527	-41.078	1.00	58.03	GS7
ATOM	10926	CD	LYS	131	250.323	132.351	-41.843	1.00	94.81	GS7	ATOM	10979	CA	GLU	139	236.690	128.933	-42.384	1.00	58.03	GS7
ATOM	10927	CE	LYS	131	251.216	133.546	-41.507	1.00	94.81	GS7	ATOM	10980	CB	GLU	139	237.980	128.950	-43.204	1.00	78.69	GS7
ATOM	10928	NZ	LYS	131	252.518	133.517	-42.233	1.00	94.81	GS7	ATOM	10981	CG	GLU	139	238.524	130.363	-43.361	1.00	78.69	GS7
ATOM	10929	C	LYS	131	245.279	131.700	-39.790	1.00	67.69	GS7	ATOM	10982	CG	GLU	139	239.691	130.472	-44.325	1.00	78.69	GS7
ATOM	10930	O	LYS	131	245.697	132.618	-39.218	1.00	67.69	GS7	ATOM	10983	OE1	GLU	139	240.743	129.836	-44.080	1.00	78.69	GS7
ATOM	10931	N	GLY	132	246.715	130.624	-39.149	1.00	87.02	GS7	ATOM	10984	OE2	GLU	139	239.550	131.211	-45.328	1.00	78.69	GS7
ATOM	10932	CA	GLY	132	246.534	130.511	-37.714	1.00	87.02	GS7	ATOM	10985	C	GLU	139	236.152	127.522	-42.231	1.00	58.03	GS7
ATOM	10933	C	GLY	132	246.265	129.795	-37.296	1.00	87.02	GS7	ATOM	10986	O	GLU	139	235.542	126.976	-43.151	1.00	58.03	GS7
ATOM	10934	O	GLY	132	244.253	129.836	-38.000	1.00	87.02	GS7	ATOM	10987	N	ASP	140	236.366	126.947	-41.051	1.00	75.68	GS7
ATOM	10935	N	GLY	133	245.323	129.145	-36.136	1.00	83.11	GS7	ATOM	10988	CA	ASP	140	235.900	125.602	-40.746	1.00	75.68	GS7
ATOM	10936	CA	GLY	133	244.178	128.407	-35.624	1.00	83.11	GS7	ATOM	10989	CB	ASP	140	236.624	125.068	-39.508	1.00	156.25	GS7

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ATOM	10990	CG	ASP	140	236.395	123.589	-39.295	1.00156.25	GS7	ATOM	11043	O	GLU	146	228.627	124.154	-48.539	1.00100.05	GS7
ATOM	10991	OD1	ASP	140	236.794	122.796	-40.173	1.00156.25	GS7	ATOM	11044	N	ALA	147	227.755	123.067	-46.772	1.0076.30	GS7
ATOM	10992	OD1	ASP	140	235.816	123.217	-38.253	1.00156.25	GS7	ATOM	11045	CA	ALA	147	228.515	121.844	-47.016	1.0076.30	GS7
ATOM	10993	C	ASP	140	234.390	125.648	-40.496	1.0075.68	GS7	ATOM	11046	CB	ALA	147	229.747	121.809	-46.146	1.0097.69	GS7
ATOM	10994	O	ASP	140	233.681	124.649	-40.656	1.0075.68	GS7	ATOM	11047	C	ALA	147	227.676	120.602	-46.762	1.0076.30	GS7
ATOM	10995	N	VAL	141	233.910	126.824	-40.101	1.0063.84	GS7	ATOM	11048	O	ALA	147	226.576	120.469	-47.293	1.0076.30	GS7
ATOM	10996	CA	VAL	141	232.496	127.039	-39.830	1.0063.84	GS7	ATOM	11049	N	ASN	148	228.211	119.680	-45.965	1.00200.50	GS7
ATOM	10997	CB	VAL	141	232.286	128.277	-38.920	1.0039.85	GS7	ATOM	11050	CA	ASN	148	227.495	118.450	-45.638	1.00200.50	GS7
ATOM	10998	CG1	VAL	141	230.804	128.613	-38.813	1.0039.85	GS7	ATOM	11051	CB	ASN	148	228.120	117.773	-44.409	1.00191.21	GS7
ATOM	10999	CG2	VAL	141	232.854	128.001	-37.538	1.0039.85	GS7	ATOM	11052	CB	ASN	148	229.583	117.410	-44.616	1.00191.21	GS7
ATOM	11000	CG3	VAL	141	231.771	127.253	-41.153	1.0063.84	GS7	ATOM	11053	OD1	ASN	148	229.921	117.627	-45.504	1.00191.21	GS7
ATOM	11001	O	VAL	141	230.825	126.535	-41.476	1.0063.84	GS7	ATOM	11054	ND2	ASN	148	230.456	117.979	-43.791	1.00191.21	GS7
ATOM	11002	N	GLU	142	232.216	128.246	-41.917	1.0052.40	GS7	ATOM	11055	C	ASN	148	226.061	118.862	-45.330	1.00200.50	GS7
ATOM	11003	CA	GLU	142	231.602	128.527	-43.205	1.0052.40	GS7	ATOM	11056	O	ASN	148	225.100	118.263	-45.818	1.00200.50	GS7
ATOM	11004	CB	GLU	142	232.420	129.557	-43.970	1.0090.71	GS7	ATOM	11057	N	ARG	149	225.941	119.911	-44.522	1.00110.21	GS7
ATOM	11005	CG	GLU	142	232.083	130.976	-43.603	1.0090.71	GS7	ATOM	11058	CA	ARG	149	224.655	120.457	-44.133	1.00110.21	GS7
ATOM	11006	CD	GLU	142	233.273	131.892	-43.700	1.0090.71	GS7	ATOM	11059	CB	ARG	149	224.605	120.631	-42.616	1.00146.30	GS7
ATOM	11007	OE1	GLU	142	233.085	133.120	-43.589	1.0090.71	GS7	ATOM	11060	CG	ARG	149	225.897	121.145	-42.016	1.00146.30	GS7
ATOM	11008	OE2	GLU	142	234.399	131.382	-43.876	1.0090.71	GS7	ATOM	11061	CD	ARG	149	226.196	120.436	-40.703	1.00146.30	GS7
ATOM	11009	C	GLU	142	231.559	127.229	-43.968	1.0052.40	GS7	ATOM	11062	NE	ARG	149	226.366	118.995	-40.884	1.00146.30	GS7
ATOM	11010	O	GLU	142	230.586	126.944	-44.657	1.0052.40	GS7	ATOM	11063	CZ	ARG	149	226.568	118.132	-39.892	1.00146.30	GS7
ATOM	11011	N	ARG	143	232.626	126.442	-43.825	1.0059.83	GS7	ATOM	11064	NH1	ARG	149	226.626	118.556	-38.637	1.00146.30	GS7
ATOM	11012	CA	ARG	143	232.735	125.148	-44.493	1.0059.83	GS7	ATOM	11065	NH2	ARG	149	226.717	116.841	-40.156	1.00146.30	GS7
ATOM	11013	CB	ARG	143	234.047	124.459	-44.113	1.00142.87	GS7	ATOM	11066	C	ARG	149	224.508	121.790	-44.844	1.00110.21	GS7
ATOM	11014	CG	ARG	143	234.382	123.250	-44.971	1.00142.87	GS7	ATOM	11067	O	ARG	149	223.993	122.754	-44.289	1.00110.21	GS7
ATOM	11015	CD	ARG	143	235.682	122.599	-44.525	1.00142.87	GS7	ATOM	11068	N	ALA	150	224.985	121.824	-46.085	1.00102.50	GS7
ATOM	11016	NE	ARG	143	235.601	122.087	-43.158	1.00142.87	GS7	ATOM	11069	CA	ALA	150	224.922	123.012	-46.925	1.00102.50	GS7
ATOM	11017	CZ	ARG	143	234.792	121.105	-42.767	1.00142.87	GS7	ATOM	11070	CB	ALA	150	225.469	122.698	-48.317	1.00107.15	GS7
ATOM	11018	NH1	ARG	143	233.985	120.513	-43.640	1.00142.87	GS7	ATOM	11071	C	ALA	150	223.489	123.446	-47.046	1.00102.50	GS7
ATOM	11019	NH2	ARG	143	234.786	120.718	-41.499	1.00142.87	GS7	ATOM	11072	O	ALA	150	222.745	123.500	-46.069	1.00102.50	GS7
ATOM	11020	C	ARG	143	231.549	124.298	-44.063	1.0059.83	GS7	ATOM	11073	N	TYR	151	223.105	123.757	-48.274	1.0067.21	GS7
ATOM	11021	O	ARG	143	230.807	123.814	-44.897	1.0059.83	GS7	ATOM	11074	CA	TYR	151	221.741	124.146	-48.546	1.0067.21	GS7
ATOM	11022	N	MET	144	231.382	124.128	-42.756	1.0062.90	GS7	ATOM	11075	CB	TYR	151	221.605	124.601	-49.998	1.00115.72	GS7
ATOM	11023	CA	MET	144	230.263	123.371	-42.197	1.0062.90	GS7	ATOM	11076	CG	TYR	151	222.724	125.519	-50.437	1.00115.72	GS7
ATOM	11024	CB	MET	144	230.204	123.595	-40.686	1.00110.78	GS7	ATOM	11077	CD1	TYR	151	222.478	126.850	-50.766	1.00115.72	GS7
ATOM	11025	CG	MET	144	231.068	122.652	-39.893	1.00110.78	GS7	ATOM	11078	CE1	TYR	151	223.515	127.684	-51.194	1.00115.72	GS7
ATOM	11026	SD	MET	144	230.360	121.012	-39.999	1.00110.78	GS7	ATOM	11079	CD2	TYR	151	224.034	125.044	-50.542	1.00115.72	GS7
ATOM	11027	CE	MET	144	228.971	121.177	-38.863	1.00110.78	GS7	ATOM	11080	CE2	TYR	151	225.070	125.862	-50.966	1.00115.72	GS7
ATOM	11028	C	MET	144	228.930	122.794	-42.835	1.0062.90	GS7	ATOM	11081	CZ	TYR	151	224.809	127.178	-51.293	1.00115.72	GS7
ATOM	11029	O	MET	144	228.133	123.958	-43.269	1.0062.90	GS7	ATOM	11082	CH	TYR	151	225.844	127.973	-51.731	1.00115.72	GS7
ATOM	11030	N	ALA	145	228.677	125.097	-42.864	1.0061.75	GS7	ATOM	11083	C	TYR	151	220.989	122.846	-48.290	1.0067.21	GS7
ATOM	11031	CA	ALA	145	227.463	125.605	-43.479	1.0061.75	GS7	ATOM	11084	O	TYR	151	221.514	121.962	-47.616	1.0067.21	GS7
ATOM	11032	CB	ALA	145	227.288	127.073	-43.152	1.0032.39	GS7	ATOM	11085	N	ALA	152	219.786	122.704	-48.829	1.0089.57	GS7
ATOM	11033	C	ALA	145	227.753	125.434	-44.948	1.0061.75	GS7	ATOM	11086	CA	ALA	152	219.011	121.492	-48.587	1.0089.57	GS7
ATOM	11034	O	ALA	145	228.908	125.240	-45.315	1.0061.75	GS7	ATOM	11087	CB	ALA	152	219.870	120.234	-48.809	1.0047.42	GS7
ATOM	11035	N	GLU	146	226.740	125.488	-45.799	1.00100.05	GS7	ATOM	11088	C	ALA	152	218.585	121.587	-47.135	1.0089.57	GS7
ATOM	11036	CA	GLU	146	227.000	125.354	-47.230	1.00100.05	GS7	ATOM	11089	O	ALA	152	218.011	120.658	-46.574	1.0089.57	GS7
ATOM	11037	CB	GLU	146	227.692	126.621	-47.743	1.00127.24	GS7	ATOM	11090	N	HIS	153	218.893	122.729	-46.534	1.00105.82	GS7
ATOM	11038	CG	GLU	146	227.810	126.728	-49.253	1.00127.24	GS7	ATOM	11091	CA	HIS	153	218.554	122.993	-45.151	1.00105.82	GS7
ATOM	11039	CD	GLU	146	228.529	127.989	-49.681	1.00127.24	GS7	ATOM	11092	CB	HIS	153	219.674	122.505	-44.228	1.0086.86	GS7
ATOM	11040	OE1	GLU	146	229.777	128.018	-49.620	1.00127.24	GS7	ATOM	11093	CG	HIS	153	219.925	121.029	-44.319	1.0086.86	GS7
ATOM	11041	OE2	GLU	146	227.841	128.959	-50.063	1.00127.24	GS7	ATOM	11094	CD2	HIS	153	221.075	120.321	-44.426	1.0086.86	GS7
ATOM	11042	C	GLU	146	227.867	124.129	-47.569	1.00100.05	GS7	ATOM	11095	ND1	HIS	153	218.907	120.099	-44.304	1.0086.86	GS7

ATOM	11096	CE1 HIS	153	219.418	118.883	-44.399	1.00	86.86	GS7	ATOM	11149	CB ILE	232.202	167.137	33.174	1.00132.98	JS1
ATOM	11097	NE2 HIS	153	220.732	118.990	-44.474	1.00	86.86	GS7	ATOM	11150	CG2 ILE	231.235	165.969	33.152	1.00132.98	JS1
ATOM	11098	C ^α HIS	153	218.320	124.489	-45.006	1.00105.82	GS7	ATOM	11151	CG1 ILE	232.499	167.572	34.610	1.00132.98	JS1	
ATOM	11099	O ³ HIS	153	218.910	125.156	-44.170	1.00105.82	GS7	ATOM	11152	CD1 ILE	231.269	167.986	35.397	1.00132.98	JS1	
ATOM	11100	N ¹ TYR	154	217.456	124.991	-45.876	1.00134.39	GS7	ATOM	11153	C ILE	233.185	165.988	31.177	1.00117.11	JS1	
ATOM	11101	CA TYR	154	217.031	126.386	-45.931	1.00134.39	GS7	ATOM	11154	O ILE	232.445	166.485	30.324	1.00117.11	JS1	
ATOM	11102	CB TYR	154	216.154	126.556	-47.173	1.0074.18	GS7	ATOM	11155	N ARG	233.727	164.775	31.053	1.00103.30	JS1	
ATOM	11103	CG TYR	154	215.338	125.300	-47.388	1.0074.18	GS7	ATOM	11156	CA ARG	233.474	163.940	29.878	1.00103.30	JS1	
ATOM	11104	CD1 TYR	154	214.148	125.083	-46.690	1.0074.18	GS7	ATOM	11157	CB ARG	234.733	163.179	29.461	1.0097.31	JS1	
ATOM	11105	CE1 TYR	154	213.534	123.828	-46.692	1.0074.18	GS7	ATOM	11158	CG ARG	234.523	162.340	28.212	1.0097.31	JS1	
ATOM	11106	CD ² TYR	154	215.873	124.230	-48.111	1.0074.18	GS7	ATOM	11159	CD ARG	235.688	161.401	27.941	1.0097.31	JS1	
ATOM	11107	CE2 TYR	154	215.269	122.979	-48.114	1.0074.18	GS7	ATOM	11160	NE ARG	236.758	162.016	27.160	1.0097.31	JS1	
ATOM	11108	C2 TYR	154	214.110	122.780	-47.402	1.0074.18	GS7	ATOM	11161	CZ ARG	237.887	161.390	26.835	1.0097.31	JS1	
ATOM	11109	OH TYR	154	213.564	121.520	-47.373	1.0074.18	GS7	ATOM	11162	NH1 ARG	238.080	160.137	27.234	1.0097.31	JS1	
ATOM	11110	C TYR	154	216.198	126.649	-44.674	1.00134.39	GS7	ATOM	11163	NH2 ARG	238.819	162.004	26.113	1.0097.31	JS1	
ATOM	11111	O TYR	154	216.251	127.732	-44.082	1.00134.39	GS7	ATOM	11164	C ARG	232.352	162.943	30.132	1.00103.30	JS1	
ATOM	11112	N ARG	155	215.434	125.629	-44.286	1.0088.97	GS7	ATOM	11165	O ARG	232.490	162.018	30.940	1.00103.30	JS1	
ATOM	11113	CA ARG	155	214.544	125.653	-43.129	1.0088.97	GS7	ATOM	11166	N ILE	231.252	163.130	29.412	1.00140.90	JS1	
ATOM	11114	CB ARG	155	214.468	124.255	-42.526	1.0091.87	GS7	ATOM	11167	CA ILE	230.084	162.276	29.557	1.00140.90	JS1	
ATOM	11115	CG ARG	155	214.700	123.185	-43.548	1.0091.87	GS7	ATOM	11168	CB ILE	228.809	163.134	29.644	1.00101.06	JS1	
ATOM	11116	CD ARG	155	214.330	121.820	-43.048	1.0091.87	GS7	ATOM	11169	CG2 ILE	227.658	162.303	30.198	1.00101.06	JS1	
ATOM	11117	NE ARG	155	214.762	120.819	-44.014	1.0091.87	GS7	ATOM	11170	CG1 ILE	229.067	164.345	30.540	1.00101.06	JS1	
ATOM	11118	C2 ARG	155	214.248	119.600	-44.115	1.0091.87	GS7	ATOM	11171	CD1 ILE	227.906	165.311	30.617	1.00101.06	JS1	
ATOM	11119	NH1 ARG	155	213.270	119.221	-43.305	1.0091.87	GS7	ATOM	11172	C ILE	227.915	161.294	28.397	1.00140.90	JS1	
ATOM	11120	NH2 ARG	155	214.715	118.761	-45.029	1.0091.87	GS7	ATOM	11173	O ILE	229.868	161.702	27.242	1.00140.90	JS1	
ATOM	11121	C ARG	155	214.896	126.653	-42.032	1.0088.97	GS7	ATOM	11174	N LYS	229.835	160.000	28.704	1.00107.61	JS1	
ATOM	11122	O ARG	155	215.771	126.405	-41.206	1.0088.97	GS7	ATOM	11175	CA LYS	229.631	158.987	27.670	1.00107.61	JS1	
ATOM	11123	N TRP	156	214.195	127.781	-42.042	1.00132.56	GS7	ATOM	11176	CB LYS	230.744	157.928	27.687	1.0097.60	JS1	
ATOM	11124	CA TRP	156	214.359	128.846	-41.060	1.00132.56	GS7	ATOM	11177	CG LYS	231.940	158.272	26.796	1.0097.60	JS1	
ATOM	11125	CB TRP	156	215.835	129.097	-40.732	1.00139.89	GS7	ATOM	11178	CD LYS	232.688	157.021	26.331	1.0097.60	JS1	
ATOM	11126	CG TRP	156	216.020	129.918	-39.474	1.00139.89	GS7	ATOM	11179	CE LYS	233.675	157.315	25.191	1.0097.60	JS1	
ATOM	11127	CD2 TRP	156	216.195	129.417	-38.138	1.00139.89	GS7	ATOM	11180	N2 LYS	234.808	158.225	25.556	1.0097.60	JS1	
ATOM	11128	CE2 TRP	156	216.276	130.536	-37.279	1.00139.89	GS7	ATOM	11181	C LYS	228.271	158.320	27.854	1.00107.61	JS1	
ATOM	11129	CE3 TRP	156	216.292	128.130	-37.586	1.00139.89	GS7	ATOM	11182	O LYS	228.097	157.445	28.707	1.00107.61	JS1	
ATOM	11130	CD1 TRP	156	216.004	131.284	-39.369	1.00139.89	GS7	ATOM	11183	N LEU	227.310	158.760	27.045	1.0093.45	JS1	
ATOM	11131	NE1 TRP	156	216.157	131.661	-38.054	1.00139.89	GS7	ATOM	11184	CA LEU	225.944	158.244	27.069	1.0093.45	JS1	
ATOM	11132	C22 TRP	156	216.450	130.407	-35.897	1.00139.89	GS7	ATOM	11185	CB LEU	224.960	159.374	26.757	1.00111.10	JS1	
ATOM	11133	CZ3 TRP	156	216.464	128.004	-36.216	1.00139.89	GS7	ATOM	11186	CG LEU	224.471	160.179	27.957	1.00111.10	JS1	
ATOM	11134	CH2 TRP	156	216.542	129.137	-35.387	1.00139.89	GS7	ATOM	11187	CD1 LEU	223.570	161.319	27.522	1.00111.10	JS1	
ATOM	11135	C TRP	156	213.743	130.108	-41.635	1.00132.56	GS7	ATOM	11188	CD2 LEU	223.723	159.236	28.871	1.00111.10	JS1	
ATOM	11136	O TRP	156	213.316	130.052	-42.808	1.00132.56	GS7	ATOM	11189	C LEU	225.727	157.106	26.075	1.0093.45	JS1	
ATOM	11137	OXT TRP	156	213.690	131.127	-40.915	1.00139.89	GS7	ATOM	11190	O LEU	226.117	157.209	24.911	1.0093.45	JS1	
ATOM	11138	CB LYS	1	237.771	169.158	31.689	1.00138.75	JS10	ATOM	11191	N ARG	225.099	156.026	26.530	1.0090.41	JS1	
ATOM	11139	CG LYS	1	238.479	170.490	31.487	1.00138.75	JS10	ATOM	11192	CA ARG	224.837	154.890	25.651	1.0090.41	JS1	
ATOM	11140	CD LYS	1	239.929	170.356	31.069	1.00138.75	JS10	ATOM	11193	CB ARG	225.840	153.759	25.907	1.0092.12	JS1	
ATOM	11141	CE LYS	1	240.537	171.745	30.875	1.00138.75	JS10	ATOM	11194	CG ARG	225.525	152.915	27.124	1.0092.12	JS1	
ATOM	11142	NZ LYS	1	241.988	171.715	30.544	1.00138.75	JS10	ATOM	11195	CD ARG	226.458	151.718	27.246	1.0092.12	JS1	
ATOM	11143	C LYS	1	235.627	168.006	32.329	1.00117.89	JS10	ATOM	11196	NE ARG	227.843	152.075	27.547	1.0092.12	JS1	
ATOM	11144	O LYS	1	236.298	167.051	32.723	1.00117.89	JS10	ATOM	11197	CZ ARG	228.760	152.388	26.638	1.0092.12	JS1	
ATOM	11145	N LYS	1	236.120	170.318	33.110	1.00117.89	JS10	ATOM	11198	NH1 ARG	228.453	152.392	25.349	1.0092.12	JS1	
ATOM	11146	CA LYS	1	236.281	169.344	31.991	1.00117.89	JS10	ATOM	11199	NH2 ARG	229.990	152.694	27.022	1.0092.12	JS1	
ATOM	11147	N ILE	2	234.308	167.957	32.168	1.00117.11	JS10	ATOM	11200	C ARG	223.419	154.360	25.840	1.0090.41	JS1	
ATOM	11148	CA ILE	2	233.522	166.760	32.453	1.00117.11	JS10	ATOM	11201	O ARG	222.843	154.464	26.921	1.0090.41	JS1	

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ATOM	11202	N	GLY	8	222.867	153.786	24.776	1.00144.98	JSIO	ATOM	11255	CD1	LEU	14	222.918	157.100	22.906	1.00 87.19	JSI
ATOM	11203	CA	GLY	8	221.524	153.243	24.833	1.00144.98	JSIO	ATOM	11256	CD2	LEU	14	221.650	157.292	22.058	1.00 87.19	JSI
ATOM	11204	GLY	8	221.155	152.479	23.574	1.00144.98	JSIO	ATOM	11257	C	LEU	14	219.674	160.396	23.442	1.00111.13	JSI	
ATOM	11205	O	GLY	8	221.856	152.534	22.558	1.00144.98	JSIO	ATOM	11258	O	LEU	14	219.926	161.240	24.298	1.00111.13	JSI
ATOM	11206	N	PHE	9	220.042	151.757	23.646	1.00118.91	JSIO	ATOM	11259	N	ASP	15	219.376	160.703	22.182	1.00 89.63	JSI
ATOM	11207	CA	PHE	9	219.559	150.974	22.521	1.00118.91	JSIO	ATOM	11260	CA	ASP	15	219.311	162.093	21.747	1.00 89.63	JSI
ATOM	11208	CB	PHE	9	218.766	149.781	23.040	1.00 71.33	JSIO	ATOM	11261	CB	ASP	15	218.685	162.202	20.357	1.00134.83	JSI
ATOM	11209	CG	PHE	9	219.610	148.760	23.734	1.00 71.33	JSIO	ATOM	11262	CG	ASP	15	219.590	161.661	19.274	1.00134.83	JSI
ATOM	11210	CD1	PHE	9	219.075	147.956	24.729	1.00 71.33	JSIO	ATOM	11263	OD1	ASP	15	220.769	162.068	19.235	1.00134.83	JSI
ATOM	11211	CD2	PHE	9	220.942	148.580	23.369	1.00 71.33	JSIO	ATOM	11264	OD2	ASP	15	219.125	160.839	18.458	1.00134.83	JSI
ATOM	11212	CD3	PHE	9	219.855	146.974	25.359	1.00 71.33	JSIO	ATOM	11265	C	ASP	15	218.488	162.887	22.752	1.00 89.63	JSI
ATOM	11213	CD4	PHE	9	221.734	147.607	23.985	1.00 71.33	JSIO	ATOM	11266	O	ASP	15	218.978	163.864	23.313	1.00 89.63	JSI
ATOM	11214	CZ	PHE	9	221.189	146.798	24.986	1.00 71.33	JSIO	ATOM	11267	N	ALA	16	217.246	162.463	22.987	1.00113.61	JSI
ATOM	11215	C	PHE	9	218.696	151.826	21.612	1.00118.91	JSIO	ATOM	11268	CA	ALA	16	216.383	163.135	23.959	1.00113.61	JSI
ATOM	11216	O	PHE	9	218.784	151.731	20.389	1.00118.91	JSIO	ATOM	11269	CB	ALA	16	215.134	162.304	24.217	1.00 80.87	JSI
ATOM	11217	N	ASP	10	217.866	152.664	22.221	1.00 85.48	JSIO	ATOM	11270	C	ALA	16	217.176	163.306	25.255	1.00113.61	JSI
ATOM	11218	CA	ASP	10	216.989	153.550	21.469	1.00 85.48	JSIO	ATOM	11271	O	ALA	16	217.344	164.424	25.748	1.00113.61	JSI
ATOM	11219	CB	ASP	10	215.771	153.922	22.313	1.00107.16	JSIO	ATOM	11272	N	SER	17	217.662	162.186	25.788	1.00 67.18	JSI
ATOM	11220	CG	ASP	10	214.717	154.666	21.515	1.00107.16	JSIO	ATOM	11273	CA	SER	17	218.462	162.173	27.004	1.00 67.18	JSI
ATOM	11221	OD1	ASP	10	215.066	155.654	20.832	1.00107.16	JSIO	ATOM	11274	CB	SER	17	218.995	160.763	27.253	1.00102.06	JSI
ATOM	11222	OD2	ASP	10	213.536	154.262	21.576	1.00107.16	JSIO	ATOM	11275	OG	SER	17	220.019	160.781	28.230	1.00102.06	JSI
ATOM	11223	C	ASP	10	217.757	154.814	21.094	1.00 85.48	JSIO	ATOM	11276	C	SER	17	219.633	163.163	26.942	1.00 67.18	JSI
ATOM	11224	O	ASP	10	218.276	155.508	21.965	1.00 85.48	JSIO	ATOM	11277	O	SER	17	219.576	164.240	27.535	1.00 67.18	JSI
ATOM	11225	N	HIS	11	217.819	155.115	19.802	1.00 81.73	JSIO	ATOM	11278	N	ALA	18	220.696	162.805	26.229	1.00 96.50	JSI
ATOM	11226	CA	HIS	11	218.542	156.295	19.346	1.00 81.73	JSIO	ATOM	11279	CA	ALA	18	221.856	163.686	26.120	1.00 96.50	JSI
ATOM	11227	CB	HIS	11	218.833	156.204	17.848	1.00 95.11	JSIO	ATOM	11280	CB	ALA	18	222.832	163.153	25.074	1.00 66.65	JSI
ATOM	11228	CG	HIS	11	217.697	156.658	16.988	1.00 95.11	JSIO	ATOM	11281	C	ALA	18	221.464	165.119	25.778	1.00 96.50	JSI
ATOM	11229	CD2	HIS	11	217.481	157.831	16.348	1.00 95.11	JSIO	ATOM	11282	O	ALA	18	222.022	166.062	26.332	1.00 96.50	JSI
ATOM	11230	ND1	HIS	11	216.585	155.879	16.746	1.00 95.11	JSIO	ATOM	11283	N	GLN	19	220.500	165.280	24.876	1.00 98.56	JSI
ATOM	11231	CE1	HIS	11	215.735	156.554	15.991	1.00 95.11	JSIO	ATOM	11284	CA	GLN	19	220.060	166.611	24.469	1.00 98.56	JSI
ATOM	11232	NE2	HIS	11	216.256	157.742	15.737	1.00 95.11	JSIO	ATOM	11285	CB	GLN	19	218.970	166.518	23.405	1.00146.94	JSI
ATOM	11233	C	HIS	11	217.788	157.596	19.620	1.00 81.73	JSIO	ATOM	11286	CG	GLN	19	218.600	167.844	22.776	1.00146.94	JSI
ATOM	11234	O	HIS	11	218.302	158.681	19.354	1.00 81.73	JSIO	ATOM	11287	CD	GLN	19	217.721	167.674	21.552	1.00146.94	JSI
ATOM	11235	N	LYS	12	216.564	157.495	20.125	1.00 83.89	JSIO	ATOM	11288	OE1	GLN	19	216.651	167.063	21.616	1.00146.94	JSI
ATOM	11236	CA	LYS	12	215.788	158.692	20.426	1.00 83.89	JSIO	ATOM	11289	NE2	GLN	19	218.170	168.214	20.424	1.00146.94	JSI
ATOM	11237	CB	LYS	12	214.342	158.509	19.974	1.00123.42	JSIO	ATOM	11290	C	GLN	19	219.562	167.431	25.650	1.00 98.56	JSI
ATOM	11238	CG	LYS	12	214.215	158.176	18.499	1.00123.42	JSIO	ATOM	11291	O	GLN	19	219.525	168.657	25.577	1.00 98.56	JSI
ATOM	11239	CD	LYS	12	212.777	158.284	18.020	1.00123.42	JSIO	ATOM	11292	N	LYS	20	219.167	166.763	26.732	1.00142.34	JSI
ATOM	11240	CE	LYS	12	212.281	159.729	18.098	1.00123.42	JSIO	ATOM	11293	CA	LYS	20	218.721	167.480	27.926	1.00142.34	JSI
ATOM	11241	NZ	LYS	12	210.849	159.880	17.686	1.00123.42	JSIO	ATOM	11294	CB	LYS	20	218.062	166.545	28.950	1.00104.79	JSI
ATOM	11242	C	LYS	12	215.852	158.926	21.932	1.00 83.89	JSIO	ATOM	11295	CG	LYS	20	216.786	165.846	28.533	1.00104.79	JSI
ATOM	11243	O	LYS	12	215.812	160.062	22.413	1.00 83.89	JSIO	ATOM	11296	CD	LYS	20	216.177	165.139	29.746	1.00104.79	JSI
ATOM	11244	N	THR	13	215.973	157.826	22.665	1.00 86.88	JSIO	ATOM	11297	CE	LYS	20	215.157	164.078	29.350	1.00104.79	JSI
ATOM	11245	CA	THR	13	216.062	157.852	24.111	1.00 86.88	JSIO	ATOM	11298	NZ	LYS	20	215.793	162.816	28.851	1.00104.79	JSI
ATOM	11246	CB	THR	13	215.683	156.455	24.671	1.00 64.23	JSIO	ATOM	11299	C	LYS	20	219.995	168.025	28.557	1.00142.34	JSI
ATOM	11247	OG1	THR	13	214.464	156.573	25.406	1.00 64.23	JSIO	ATOM	11300	O	LYS	20	220.188	169.236	28.693	1.00142.34	JSI
ATOM	11248	CG2	THR	13	216.781	155.866	25.558	1.00 64.23	JSIO	ATOM	11301	N	ILE	21	220.860	167.091	28.936	1.00 78.49	JSI
ATOM	11249	C	THR	13	217.474	158.299	24.527	1.00 86.88	JSIO	ATOM	11302	CA	ILE	21	222.140	167.388	29.561	1.00 78.49	JSI
ATOM	11250	O	THR	13	217.772	158.502	25.714	1.00 86.88	JSIO	ATOM	11303	CB	ILE	21	223.028	166.106	29.588	1.00 65.13	JSI
ATOM	11251	N	LEU	14	218.344	158.447	23.535	1.00111.13	JSIO	ATOM	11304	CG2	ILE	21	224.451	166.437	29.996	1.00 65.13	JSI
ATOM	11252	CA	LEU	14	219.690	158.926	23.788	1.00111.13	JSIO	ATOM	11305	CG1	ILE	21	222.432	165.086	30.562	1.00 65.13	JSI
ATOM	11253	CB	LEU	14	220.722	158.226	22.913	1.00 87.19	JSIO	ATOM	11306	CD1	ILE	21	221.060	164.572	30.165	1.00 65.13	JSI
ATOM	11254	CG	LEU	14	221.532	157.099	23.550	1.00 87.19	JSIO	ATOM	11307	C	ILE	21	222.877	168.531	28.856	1.00 78.49	JSI

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ATOM	11308	O	ILE	21	223.682	169.232	29.470	1.0078.49	JS10	ATOM	11361	C	SER	28	226.988	176.318	34.584	1.00109.32	JS1
ATOM	11309	N	VAL	22	222.595	168.733	27.574	1.00137.47	JS10	ATOM	11362	O	SER	28	227.735	176.338	35.569	1.00109.32	JS1
ATOM	11310	CA	VAL	22	223.257	169.801	26.834	1.00137.47	JS10	ATOM	11363	N	GLY	29	227.447	176.338	33.334	1.00151.90	JS1
ATOM	11311	CB	VAL	22	223.065	169.647	25.307	1.00141.16	JS10	ATOM	11364	CA	GLY	29	228.877	176.388	33.069	1.00151.90	JS1
ATOM	11312	CG1	VAL	22	224.104	170.486	24.565	1.00141.16	JS10	ATOM	11365	C	GLY	29	229.216	177.848	31.661	1.00151.90	JS1
ATOM	11313	CG2	VAL	22	223.177	168.188	24.906	1.00141.16	JS10	ATOM	11366	O	GLY	29	228.662	177.835	31.171	1.00151.90	JS1
ATOM	11314	C	VAL	22	222.733	171.174	27.253	1.00137.47	JS10	ATOM	11367	N	ALA	30	230.129	176.128	31.010	1.00144.01	JS1
ATOM	11315	O	VAL	22	223.515	172.083	27.520	1.00137.47	JS10	ATOM	11368	CA	ALA	30	230.584	176.448	29.647	1.00144.01	JS1
ATOM	11316	N	GLU	23	221.411	171.315	27.310	1.00124.06	JS10	ATOM	11369	CB	ALA	30	231.654	175.512	29.229	1.0064.55	JS1
ATOM	11317	CA	GLU	23	220.779	172.575	27.697	1.00124.06	JS10	ATOM	11370	C	ALA	30	229.393	176.355	28.648	1.00144.01	JS1
ATOM	11318	CB	GLU	23	219.263	172.472	27.543	1.00159.90	JS10	ATOM	11371	O	ALA	30	228.233	176.549	29.015	1.00144.01	JS1
ATOM	11319	CG	GLU	23	218.800	172.155	26.140	1.00159.90	JS10	ATOM	11372	N	GLN	31	229.712	176.060	27.387	1.00157.76	JS1
ATOM	11320	CD	GLU	23	217.293	172.036	26.050	1.00159.90	JS10	ATOM	11373	CA	GLN	31	228.699	175.943	26.332	1.00157.76	JS1
ATOM	11321	OE1	GLU	23	216.599	173.045	26.301	1.00159.90	JS10	ATOM	11374	CB	GLN	31	229.094	176.769	24.986	1.00146.69	JS1
ATOM	11322	OE2	GLU	23	216.803	170.932	25.731	1.00159.90	JS10	ATOM	11375	CG	GLN	31	228.382	178.105	24.103	1.00146.69	JS1
ATOM	11323	C	GLU	23	221.102	172.962	29.139	1.00124.06	JS10	ATOM	11376	CD	GLN	31	228.677	178.801	23.673	1.00146.69	JS1
ATOM	11324	O	GLU	23	221.320	174.137	29.447	1.00124.06	JS10	ATOM	11377	OE1	GLN	31	228.462	178.242	22.596	1.00146.69	JS1
ATOM	11325	N	ALA	24	221.112	171.969	30.022	1.00141.87	JS10	ATOM	11378	NE2	GLN	31	229.173	180.029	23.755	1.00146.69	JS1
ATOM	11326	CA	ALA	24	221.410	172.195	31.431	1.00141.87	JS10	ATOM	11379	C	GLN	31	227.527	174.256	25.093	1.00157.76	JS1
ATOM	11327	CB	ALA	24	221.521	170.860	32.162	1.0074.19	JS10	ATOM	11380	O	GLN	31	228.441	174.507	25.885	1.00157.76	JS1
ATOM	11328	C	ALA	24	222.709	172.977	31.576	1.00141.87	JS10	ATOM	11381	N	VAL	32	229.048	173.572	26.386	1.00124.67	JS1
ATOM	11329	O	ALA	24	222.694	174.184	31.817	1.00141.87	JS10	ATOM	11382	CA	VAL	32	229.298	172.165	26.036	1.00124.67	JS1
ATOM	11330	N	ALA	25	223.831	172.282	31.413	1.00120.69	JS10	ATOM	11383	CB	VAL	32	227.614	171.738	26.141	1.0070.47	JS1
ATOM	11331	CA	ALA	25	225.149	172.892	31.530	1.00120.69	JS10	ATOM	11384	CG1	VAL	32	227.482	170.255	25.910	1.0070.47	JS1
ATOM	11332	CB	ALA	25	226.210	171.898	31.082	1.0070.72	JS10	ATOM	11385	CG2	VAL	32	227.057	172.119	27.505	1.0070.47	JS1
ATOM	11333	C	ALA	25	225.325	174.225	30.782	1.00120.69	JS10	ATOM	11386	C	VAL	32	229.602	171.929	24.607	1.00124.67	JS1
ATOM	11334	O	ALA	25	226.045	175.101	31.260	1.00120.69	JS10	ATOM	11387	O	VAL	32	229.389	172.762	23.721	1.00124.67	JS1
ATOM	11335	N	ARG	26	224.681	174.385	29.623	1.00134.82	JS10	ATOM	11388	N	SER	33	230.270	170.794	24.390	1.00129.26	JS1
ATOM	11336	CA	ARG	26	224.788	175.629	28.840	1.00134.82	JS10	ATOM	11389	CB	SER	33	230.817	170.448	23.072	1.00129.26	JS1
ATOM	11337	CB	ARG	26	223.874	175.579	27.616	1.00124.49	JS10	ATOM	11390	CB	SER	33	231.909	169.376	23.199	1.00120.51	JS1
ATOM	11338	CG	ARG	26	224.310	174.629	26.526	1.00124.49	JS10	ATOM	11391	OG	SER	33	232.920	169.732	24.122	1.00120.51	JS1
ATOM	11339	CD	ARG	26	223.124	174.268	25.632	1.00124.49	JS10	ATOM	11392	C	SER	33	229.757	169.926	22.104	1.00129.26	JS1
ATOM	11340	NE	ARG	26	223.511	173.402	24.521	1.00124.49	JS10	ATOM	11393	C	SER	33	230.094	169.349	21.068	1.00129.26	JS1
ATOM	11341	C2	ARG	26	224.193	173.811	23.453	1.00124.49	JS10	ATOM	11394	N	GLY	34	228.484	170.131	22.433	1.00136.33	JS1
ATOM	11342	NH1	ARG	26	224.567	175.083	23.340	1.00124.49	JS10	ATOM	11395	CA	GLY	34	227.417	169.646	21.576	1.00136.33	JS1
ATOM	11343	NH2	ARG	26	224.510	172.945	22.498	1.00124.49	JS10	ATOM	11396	C	GLY	34	227.445	168.131	21.601	1.00136.33	JS1
ATOM	11344	C	ARG	26	224.397	176.844	29.673	1.00134.82	JS10	ATOM	11397	O	GLY	34	228.513	167.543	21.437	1.00136.33	JS1
ATOM	11345	O	ARG	26	224.517	177.992	29.234	1.00134.82	JS10	ATOM	11398	N	PRO	35	226.301	167.459	21.806	1.00132.83	JS1
ATOM	11346	N	ARG	27	223.924	176.576	30.882	1.00130.83	JS10	ATOM	11399	CD	PRO	35	224.908	167.939	21.824	1.00108.39	JS1
ATOM	11347	CA	ARG	27	223.496	177.623	31.790	1.00130.83	JS10	ATOM	11400	CA	PRO	35	226.354	165.933	21.830	1.00132.83	JS1
ATOM	11348	CB	ARG	27	222.041	177.348	32.189	1.00124.27	JS10	ATOM	11401	CB	PRO	35	224.890	165.595	22.026	1.00108.39	JS1
ATOM	11349	CG	ARG	27	221.220	176.768	31.030	1.00124.27	JS10	ATOM	11402	CG	PRO	35	224.141	166.713	21.359	1.00108.39	JS1
ATOM	11350	CD	ARG	27	219.765	176.479	31.399	1.00124.27	JS10	ATOM	11403	C	PRO	35	226.971	165.399	20.563	1.00132.83	JS1
ATOM	11351	NE	ARG	27	219.025	175.900	30.274	1.00124.27	JS10	ATOM	11404	O	PRO	35	226.404	165.495	19.474	1.00132.83	JS1
ATOM	11352	C2	ARG	27	217.699	175.791	30.217	1.00124.27	JS10	ATOM	11405	N	ILE	36	228.149	164.804	20.716	1.0083.49	JS1
ATOM	11353	NH1	ARG	27	216.948	176.224	29.120	1.00124.27	JS10	ATOM	11406	CA	ILE	36	228.841	164.185	19.595	1.0083.49	JS1
ATOM	11354	NH2	ARG	27	217.115	175.249	29.156	1.00124.27	JS10	ATOM	11407	CB	ILE	36	230.363	164.195	19.801	1.0093.43	JS1
ATOM	11355	C	ARG	27	224.411	177.637	33.023	1.00130.83	JS10	ATOM	11408	CG2	ILE	36	230.908	165.603	19.627	1.0093.43	JS1
ATOM	11356	O	ARG	27	224.913	178.684	33.438	1.00130.83	JS10	ATOM	11409	CG1	ILE	36	230.694	163.646	21.190	1.0093.43	JS1
ATOM	11357	N	SER	28	224.642	176.451	33.574	1.00109.32	JS10	ATOM	11410	C	ILE	36	232.165	163.746	21.563	1.0083.49	JS1
ATOM	11358	CA	SER	28	225.462	176.263	34.766	1.00109.32	JS10	ATOM	11411	C	ILE	36	228.367	162.742	19.495	1.0083.49	JS1
ATOM	11359	CB	SER	28	225.078	174.934	35.401	1.00102.35	JS10	ATOM	11412	O	ILE	36	228.330	162.019	20.498	1.0083.49	JS1
ATOM	11360	OG	SER	28	225.219	173.869	34.477	1.00102.35	JS10	ATOM	11413	N	PRO	37	227.993	162.306	18.279	1.00113.45	JS1

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ATOM	11414	CD	PRO	37	228.069	163.092	17.034	1.00	65.14	JS10	ATOM	11467	NH1	ARG	43	226.149	140.949	21.990	1.00	88.86	JS1C
ATOM	11415	CA	PRO	37	227.509	160.947	18.007	1.00	13.45	JS10	ATOM	11468	NH2	ARG	43	228.330	140.954	22.732	1.00	88.86	JS1C
ATOM	11416	CB	PRO	37	227.340	160.935	16.482	1.00	65.14	JS10	ATOM	11469	C	ARG	43	224.438	141.762	16.100	1.00	87.83	JS1C
ATOM	11417	CG	PRO	37	228.269	162.016	16.008	1.00	65.14	JS10	ATOM	11470	O	ARG	43	223.318	142.179	15.810	1.00	87.83	JS1C
ATOM	11418	C	PRO	37	228.399	159.814	18.513	1.00	13.45	JS10	ATOM	11471	N	ARG	44	224.925	140.614	15.636	1.00	64.69	JS1C
ATOM	11419	O	PRO	37	228.450	159.554	19.710	1.00	13.45	JS10	ATOM	11472	CA	ARG	44	224.122	139.750	14.776	1.00	64.69	JS1C
ATOM	11420	N	LEU	38	229.079	159.152	17.583	1.00	90.93	JS10	ATOM	11473	CB	ARG	44	224.763	139.542	13.400	1.00	81.95	JS1C
ATOM	11421	CA	LEU	38	229.982	158.018	17.834	1.00	90.93	JS10	ATOM	11474	CG	ARG	44	225.048	140.793	12.594	1.00	81.95	JS1C
ATOM	11422	CB	LEU	38	230.229	157.769	19.330	1.00	80.51	JS10	ATOM	11475	CD	ARG	44	223.842	141.664	12.445	1.00	81.95	JS1C
ATOM	11423	CG	LEU	38	231.251	158.651	20.066	1.00	80.51	JS10	ATOM	11476	NE	ARG	44	224.032	142.632	11.353	1.00	81.95	JS1C
ATOM	11424	CD	LEU	38	231.618	157.990	21.390	1.00	80.51	JS10	ATOM	11477	CZ	ARG	44	223.312	143.737	11.184	1.00	81.95	JS1C
ATOM	11425	CD	LEU	38	232.505	158.826	19.228	1.00	80.51	JS10	ATOM	11478	NH1	ARG	44	222.347	144.052	12.041	1.00	81.95	JS1C
ATOM	11426	C	LEU	38	229.479	156.719	17.196	1.00	90.93	JS10	ATOM	11479	NH2	ARG	44	223.548	144.523	10.141	1.00	81.95	JS1C
ATOM	11427	O	LEU	38	228.304	156.359	17.326	1.00	90.93	JS10	ATOM	11480	C	ARG	44	223.962	138.386	15.427	1.00	64.69	JS1C
ATOM	11428	N	PRO	39	230.377	155.995	16.500	1.00	102.73	JS10	ATOM	11481	O	ARG	44	224.878	137.870	16.079	1.00	64.69	JS1C
ATOM	11429	CD	PRO	39	231.841	156.135	16.551	1.00	70.83	JS10	ATOM	11482	N	PHE	45	222.772	137.827	15.262	1.00	93.96	JS1C
ATOM	11430	CA	PRO	39	230.020	154.740	15.843	1.00	102.73	JS10	ATOM	11483	CA	PHE	45	222.450	136.507	15.765	1.00	80.43	JS1C
ATOM	11431	CB	PRO	39	231.384	154.112	15.547	1.00	70.83	JS10	ATOM	11484	CB	PHE	45	221.541	136.579	16.983	1.00	80.43	JS1C
ATOM	11432	CG	PRO	39	232.280	154.701	16.582	1.00	70.83	JS10	ATOM	11485	CG	PHE	45	222.032	137.501	18.042	1.00	80.43	JS1C
ATOM	11433	C	PRO	39	229.134	153.860	16.712	1.00	102.73	JS10	ATOM	11486	CD1	PHE	45	222.765	137.012	19.121	1.00	80.43	JS1C
ATOM	11434	O	PRO	39	229.317	153.780	17.928	1.00	102.73	JS10	ATOM	11487	CD2	PHE	45	222.253	139.745	18.941	1.00	80.43	JS1C
ATOM	11435	N	THR	40	228.179	153.197	16.070	1.00	66.31	JS10	ATOM	11488	CE1	PHE	45	223.246	137.876	20.112	1.00	80.43	JS1C
ATOM	11436	CA	THR	40	227.232	152.335	16.765	1.00	74.87	JS10	ATOM	11489	CE2	PHE	45	222.988	139.246	20.020	1.00	80.43	JS1C
ATOM	11437	CB	THR	40	225.832	152.557	16.196	1.00	74.87	JS10	ATOM	11490	C2	PHE	45	221.697	135.901	14.605	1.00	93.96	JS1C
ATOM	11438	OG1	THR	40	225.663	153.949	15.902	1.00	74.87	JS10	ATOM	11491	C	PHE	45	220.551	136.268	14.337	1.00	93.96	JS1C
ATOM	11439	CG2	THR	40	224.774	152.107	17.187	1.00	74.87	JS10	ATOM	11492	O	PHE	45	222.356	135.009	13.880	1.00	53.58	JS1C
ATOM	11440	C	THR	40	227.579	150.860	16.600	1.00	66.31	JS10	ATOM	11493	N	THR	46	221.708	134.382	12.752	1.00	53.58	JS1C
ATOM	11441	O	THR	40	227.377	150.310	15.527	1.00	66.31	JS10	ATOM	11494	CA	THR	46	222.643	134.308	11.558	1.00	58.34	JS1C
ATOM	11442	N	ARG	41	228.084	150.202	17.637	1.00	95.33	JS10	ATOM	11495	CB	THR	46	222.932	135.647	11.122	1.00	58.34	JS1C
ATOM	11443	CA	ARG	41	228.416	148.783	17.489	1.00	95.33	JS10	ATOM	11496	OG1	THR	46	221.998	133.021	10.426	1.00	58.34	JS1C
ATOM	11444	CB	ARG	41	229.297	148.302	18.646	1.00	102.81	JS10	ATOM	11497	CG2	THR	46	222.128	132.187	13.585	1.00	53.58	JS1C
ATOM	11445	CG	ARG	41	230.740	148.778	18.526	1.00	102.81	JS10	ATOM	11498	O	THR	46	219.977	132.821	13.252	1.00	76.19	JS1C
ATOM	11446	CD	ARG	41	231.681	147.996	19.432	1.00	102.81	JS10	ATOM	11499	C	THR	46	218.066	130.739	15.718	1.00	53.16	JS10
ATOM	11447	NE	ARG	41	233.077	148.376	19.214	1.00	102.81	JS10	ATOM	11500	N	VAL	47	219.376	131.609	13.772	1.00	76.19	JS10
ATOM	11448	CZ	ARG	41	234.116	147.819	19.835	1.00	102.81	JS10	ATOM	11501	CA	VAL	47	218.573	131.982	15.022	1.00	53.16	JS10
ATOM	11449	NH1	ARG	41	233.925	146.848	20.723	1.00	102.81	JS10	ATOM	11502	CB	VAL	47	218.437	132.815	15.941	1.00	53.16	JS10
ATOM	11450	NH2	ARG	41	235.351	148.233	19.566	1.00	102.81	JS10	ATOM	11503	CG1	VAL	47	218.465	130.800	12.849	1.00	76.19	JS10
ATOM	11451	C	ARG	41	227.171	147.901	17.373	1.00	95.33	JS10	ATOM	11504	CG2	VAL	47	217.451	131.297	12.388	1.00	76.19	JS10
ATOM	11452	O	ARG	41	226.275	147.967	18.222	1.00	95.33	JS10	ATOM	11505	C	VAL	47	218.818	129.545	11.784	1.00	44.83	JS1C
ATOM	11453	N	VAL	42	227.119	147.082	16.316	1.00	62.74	JS10	ATOM	11506	O	ILE	48	217.987	128.668	11.784	1.00	44.83	JS1C
ATOM	11454	CA	VAL	42	225.972	146.195	16.080	1.00	62.74	JS10	ATOM	11507	N	ILE	48	218.355	127.199	12.058	1.00	33.26	JS1C
ATOM	11455	CB	VAL	42	225.449	146.314	14.634	1.00	57.55	JS10	ATOM	11508	CA	ILE	48	216.539	128.894	12.227	1.00	44.83	JS10
ATOM	11456	CG1	VAL	42	224.184	145.498	14.490	1.00	57.55	JS10	ATOM	11509	CB	ILE	48	217.255	126.258	11.555	1.00	33.26	JS1C
ATOM	11457	CG2	VAL	42	225.191	147.775	14.272	1.00	57.55	JS10	ATOM	11510	CG2	ILE	48	219.731	126.905	11.465	1.00	33.26	JS10
ATOM	11458	C	VAL	42	226.260	144.717	16.337	1.00	62.74	JS10	ATOM	11511	CG1	ILE	48	216.539	128.894	12.227	1.00	44.83	JS10
ATOM	11459	O	VAL	42	227.379	144.249	16.160	1.00	62.74	JS10	ATOM	11512	CD1	ILE	48	216.539	128.894	12.227	1.00	44.83	JS10
ATOM	11460	N	ARG	43	225.230	143.596	16.745	1.00	87.83	JS10	ATOM	11513	C	ILE	48	216.539	128.894	12.227	1.00	44.83	JS10
ATOM	11461	CA	ARG	43	225.340	142.566	17.023	1.00	87.83	JS10	ATOM	11514	O	ILE	48	216.539	128.894	12.227	1.00	44.83	JS10
ATOM	11462	CB	ARG	43	224.922	142.284	18.455	1.00	88.86	JS10	ATOM	11515	N	ARG	49	215.645	129.245	11.302	1.00	57.64	JS10
ATOM	11463	CG	ARG	43	226.017	142.422	19.452	1.00	88.86	JS10	ATOM	11516	CA	ARG	49	214.249	129.517	11.653	1.00	57.64	JS10
ATOM	11464	CD	ARG	43	226.965	141.254	19.333	1.00	88.86	JS10	ATOM	11517	CB	ARG	49	213.435	129.851	10.420	1.00	34.60	JS10
ATOM	11465	NE	ARG	43	227.866	141.169	20.484	1.00	88.86	JS10	ATOM	11518	CG	ARG	49	213.261	131.316	10.221	1.00	34.60	JS10
ATOM	11466	CZ	ARG	43	227.450	141.024	21.739	1.00	88.86	JS10	ATOM	11519	CD	ARG	49	213.172	131.617	8.772	1.00	34.60	JS10

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ATOM	11520	NE	ARG	49	213.125	133.046	8.518	1.00	34.60	JS10	ATOM	11573	NZ	LYS	55	223.680	123.952	2.810	1.00	96.45	JS1
ATOM	11521	CZ	ARG	49	212.060	133.793	8.780	1.00	34.60	JS10	ATOM	11574	C	LYS	55	219.462	125.928	6.684	1.00	47.52	JS1
ATOM	11522	NH2	ARG	49	210.971	133.227	9.308	1.00	34.60	JS10	ATOM	11575	O	LYS	55	220.303	126.776	6.965	1.00	47.52	JS1
ATOM	11523	NH2	ARG	49	212.074	135.092	8.493	1.00	34.60	JS10	ATOM	11576	N	ASP	56	218.486	126.165	5.814	1.00	44.66	JS1
ATOM	11524	C	ARG	49	213.484	128.483	12.444	1.00	57.64	JS10	ATOM	11577	CA	ASP	56	218.457	127.441	5.112	1.00	44.66	JS1
ATOM	11525	O	ARG	49	212.944	128.794	13.505	1.00	57.64	JS10	ATOM	11578	CB	ASP	56	218.426	127.199	3.609	1.00	64.44	JS1
ATOM	11526	N	GLY	50	213.392	127.262	11.951	1.00	36.37	JS10	ATOM	11579	CG	ASP	56	219.496	126.232	3.154	1.00	64.44	JS1
ATOM	11527	CA	GLY	50	212.644	126.289	12.726	1.00	36.37	JS10	ATOM	11580	OD1	ASP	56	220.634	126.681	2.869	1.00	64.44	JS1
ATOM	11528	C	GLY	50	213.553	125.360	13.491	1.00	36.37	JS10	ATOM	11581	OD2	ASP	56	219.190	125.015	3.099	1.00	64.44	JS1
ATOM	11529	O	GLY	50	214.778	125.473	13.376	1.00	36.37	JS10	ATOM	11582	C	ASP	56	217.365	128.434	5.442	1.00	44.66	JS1
ATOM	11530	N	PRO	51	213.005	124.464	14.323	1.00	48.53	JS10	ATOM	11583	O	ASP	56	216.831	129.069	4.537	1.00	44.66	JS1
ATOM	11531	CD	PRO	51	211.610	124.315	14.767	1.00	34.96	JS10	ATOM	11584	N	SER	57	217.040	128.606	6.717	1.00	77.95	JS1
ATOM	11532	CA	PRO	51	213.894	123.548	15.045	1.00	48.53	JS10	ATOM	11585	CA	SER	57	216.005	129.564	7.084	1.00	77.95	JS1
ATOM	11533	CB	PRO	51	213.012	123.021	16.155	1.00	34.96	JS10	ATOM	11586	CB	SER	57	215.033	128.902	8.045	1.00	11.33	JS1
ATOM	11534	CG	PRO	51	211.646	122.978	15.498	1.00	34.96	JS10	ATOM	11587	CG	SER	57	214.379	127.810	7.419	1.00	77.95	JS1
ATOM	11535	C	PRO	51	214.000	122.671	12.825	1.00	48.53	JS10	ATOM	11588	C	SER	57	216.654	130.808	7.261	1.00	77.95	JS1
ATOM	11536	O	PRO	51	214.689	121.322	14.468	1.00	59.83	JS10	ATOM	11589	O	SER	57	217.444	130.604	8.747	1.00	93.83	JS1
ATOM	11537	N	PHE	52	215.014	120.214	13.563	1.00	59.83	JS10	ATOM	11590	N	ARG	58	218.181	131.703	9.352	1.00	93.83	JS1
ATOM	11538	CA	PHE	52	213.960	119.133	13.686	1.00	68.43	JS10	ATOM	11591	CA	ARG	58	219.144	132.258	8.300	1.00	66.81	JS1
ATOM	11539	CB	PHE	52	214.464	117.786	13.339	1.00	68.43	JS10	ATOM	11592	CB	ARG	58	220.425	131.444	8.168	1.00	66.81	JS1
ATOM	11540	CG	PHE	52	215.130	117.019	12.288	1.00	68.43	JS10	ATOM	11593	CD	ARG	58	220.149	129.956	8.223	1.00	66.81	JS1
ATOM	11541	CD1	PHE	52	214.286	117.277	12.069	1.00	68.43	JS10	ATOM	11594	NE	ARG	58	221.238	129.206	8.848	1.00	66.81	JS1
ATOM	11542	CD2	PHE	52	215.612	115.757	13.979	1.00	68.43	JS10	ATOM	11595	CZ	ARG	58	222.386	128.892	8.252	1.00	66.81	JS1
ATOM	11543	CE1	PHE	52	214.763	116.017	11.745	1.00	68.43	JS10	ATOM	11596	CZ	ARG	58	222.623	129.257	6.999	1.00	66.81	JS1
ATOM	11544	CE2	PHE	52	215.428	115.254	12.707	1.00	68.43	JS10	ATOM	11597	NH1	ARG	58	223.300	128.195	10.094	1.00	93.83	JS1
ATOM	11545	CZ	PHE	52	215.201	120.524	12.062	1.00	59.83	JS10	ATOM	11598	NH2	ARG	58	217.523	132.875	10.094	1.00	93.83	JS1
ATOM	11546	C	PHE	52	214.226	120.786	11.339	1.00	59.83	JS10	ATOM	11599	C	ARG	58	216.748	133.736	9.429	1.00	52.09	JS1
ATOM	11547	O	PHE	52	216.461	120.460	11.615	1.00	60.03	JS10	ATOM	11600	O	ARG	58	215.057	134.422	11.122	1.00	69.20	JS1
ATOM	11548	N	LYS	53	216.890	120.697	10.229	1.00	60.03	JS10	ATOM	11601	N	GLU	59	213.306	135.998	12.114	1.00	69.20	JS1
ATOM	11549	CA	LYS	53	215.552	119.490	9.349	1.00	54.18	JS10	ATOM	11602	CA	GLU	59	212.362	135.339	12.598	1.00	69.20	JS1
ATOM	11550	CB	LYS	53	215.089	119.215	9.077	1.00	54.18	JS10	ATOM	11603	CB	GLU	59	213.306	135.998	12.114	1.00	69.20	JS1
ATOM	11551	CG	LYS	53	214.986	117.857	8.378	1.00	54.18	JS10	ATOM	11604	CG	GLU	59	212.362	135.339	12.598	1.00	69.20	JS1
ATOM	11552	CD	LYS	53	213.559	117.480	7.965	1.00	54.18	JS10	ATOM	11605	CD	GLU	59	213.306	135.998	12.114	1.00	69.20	JS1
ATOM	11553	CE	LYS	53	213.012	118.333	6.872	1.00	54.18	JS10	ATOM	11606	OE1	GLU	59	212.362	135.339	12.598	1.00	69.20	JS1
ATOM	11554	NZ	LYS	53	216.442	121.980	9.539	1.00	60.03	JS10	ATOM	11607	OE2	GLU	59	217.244	135.669	10.978	1.00	52.09	JS1
ATOM	11555	C	LYS	53	216.201	122.981	10.197	1.00	60.03	JS10	ATOM	11608	C	GLU	59	217.804	135.158	11.959	1.00	52.09	JS1
ATOM	11556	O	LYS	53	216.357	121.946	8.210	1.00	53.70	JS10	ATOM	11609	O	GLU	59	218.505	137.770	11.222	1.00	57.06	JS1
ATOM	11557	N	HIS	54	214.674	123.743	7.925	1.00	68.98	JS10	ATOM	11610	N	HIS	60	219.222	138.593	10.154	1.00	69.32	JS1
ATOM	11558	CA	HIS	54	213.466	122.867	7.774	1.00	68.98	JS10	ATOM	11611	CA	HIS	60	220.253	137.821	9.400	1.00	69.32	JS1
ATOM	11559	CB	HIS	54	212.513	122.503	8.664	1.00	68.98	JS10	ATOM	11612	CB	HIS	60	220.937	136.700	9.729	1.00	69.32	JS1
ATOM	11560	CG	HIS	54	211.994	121.599	6.735	1.00	68.98	JS10	ATOM	11613	CG	HIS	60	220.696	138.190	8.147	1.00	69.32	JS1
ATOM	11561	CD2	HIS	54	211.610	121.717	7.992	1.00	68.98	JS10	ATOM	11614	CD2	HIS	60	221.771	136.413	8.678	1.00	69.32	JS1
ATOM	11562	ND1	HIS	54	217.087	124.717	7.423	1.00	53.70	JS10	ATOM	11615	ND1	HIS	60	218.037	138.722	12.332	1.00	57.06	JS1
ATOM	11563	CE1	HIS	54	216.818	125.377	7.486	1.00	53.70	JS10	ATOM	11616	CE1	HIS	60	217.023	139.411	12.193	1.00	70.25	JS1
ATOM	11564	NE2	HIS	54	218.332	123.707	7.349	1.00	47.52	JS10	ATOM	11617	NE2	HIS	60	218.551	139.619	14.575	1.00	70.25	JS1
ATOM	11565	C	HIS	54	219.533	124.555	7.360	1.00	47.52	JS10	ATOM	11618	C	HIS	60	218.203	138.763	15.789	1.00	57.50	JS1
ATOM	11566	O	HIS	54	220.738	123.793	6.746	1.00	96.45	JS10	ATOM	11619	O	HIS	60	216.890	138.068	15.684	1.00	57.50	JS1
ATOM	11567	N	LYS	55	220.564	123.376	5.240	1.00	96.45	JS10	ATOM	11620	N	PHE	61	216.787	136.712	15.994	1.00	57.50	JS1
ATOM	11568	CA	LYS	55	221.893	123.025	4.455	1.00	96.45	JS10	ATOM	11621	CA	PHE	61	215.747	138.768	15.306	1.00	57.50	JS1
ATOM	11569	CB	LYS	55	222.593	124.261	3.806	1.00	96.45	JS10	ATOM	11622	CB	PHE	61						
ATOM	11570	CG	LYS	55						JS10	ATOM	11623	CG	PHE	61						
ATOM	11571	CD	LYS	55						JS10	ATOM	11624	CD1	PHE	61						
ATOM	11572	CE	LYS	55						JS10	ATOM	11625	CD2	PHE	61						

ATOM	11626	CE1	PHE	61	215.557	136.053	15.930	1.00	57.50	JS10	ATOM	11679	CG	ASN	67	228.307	154.155	21.725	1.00	96.86	JS1
ATOM	11627	CE2	PHE	61	214.518	138.132	15.238	1.00	57.50	JS10	ATOM	11680	OD1	ASN	67	227.928	153.481	22.682	1.00	96.86	JS1
ATOM	11628	OE	PHE	61	214.418	136.766	15.551	1.00	57.50	JS10	ATOM	11681	ND2	ASN	67	228.835	153.613	20.634	1.00	96.86	JS1
ATOM	11629	C	PHE	61	219.772	140.454	14.945	1.00	70.25	JS10	ATOM	11682	C	ASN	67	226.684	157.657	21.564	1.00	97.81	JS1
ATOM	11630	O	PHE	61	220.876	139.918	15.069	1.00	70.25	JS10	ATOM	11683	O	ASN	67	226.453	158.084	20.431	1.00	97.81	JS1
ATOM	11631	N	GLU	62	219.574	141.756	15.143	1.00	72.21	JS10	ATOM	11684	N	ARG	68	226.917	158.450	22.614	1.00	100.25	JS1
ATOM	11632	CA	GLU	62	220.671	142.644	15.533	1.00	72.21	JS10	ATOM	11685	CA	ARG	68	226.932	159.921	22.553	1.00	100.25	JS1
ATOM	11633	CB	GLU	62	221.028	143.582	14.381	1.00	82.82	JS10	ATOM	11686	CB	ARG	68	225.528	160.481	22.798	1.00	101.27.57	JS1
ATOM	11634	CD	GLU	62	219.842	144.288	13.759	1.00	82.82	JS10	ATOM	11687	CD	ARG	68	224.443	159.905	21.900	1.00	101.27.57	JS1
ATOM	11635	CE	GLU	62	219.843	145.794	13.994	1.00	82.82	JS10	ATOM	11688	CE	ARG	68	224.648	160.296	20.451	1.00	101.27.57	JS1
ATOM	11636	OE1	GLU	62	219.689	146.223	15.160	1.00	82.82	JS10	ATOM	11689	NE	ARG	68	223.603	159.750	19.590	1.00	101.27.57	JS1
ATOM	11637	OE2	GLU	62	219.998	146.552	13.009	1.00	82.82	JS10	ATOM	11690	CZ	ARG	68	223.503	160.001	18.288	1.00	101.27.57	JS1
ATOM	11638	C	GLU	62	220.359	143.466	16.791	1.00	72.21	JS10	ATOM	11691	NH1	ARG	68	224.387	160.793	17.688	1.00	101.27.57	JS1
ATOM	11639	O	GLU	62	219.265	144.021	16.922	1.00	72.21	JS10	ATOM	11692	NH2	ARG	68	222.515	159.468	17.582	1.00	101.27.57	JS1
ATOM	11640	N	LEU	63	221.320	143.525	17.716	1.00	74.47	JS10	ATOM	11693	C	ARG	68	227.875	160.417	23.660	1.00	100.25	JS1
ATOM	11641	CA	LEU	63	221.182	144.296	18.961	1.00	74.47	JS10	ATOM	11694	O	ARG	68	227.932	159.809	24.730	1.00	100.25	JS1
ATOM	11642	CB	LEU	63	221.511	143.413	20.173	1.00	70.78	JS10	ATOM	11695	N	LEU	69	228.602	161.512	23.418	1.00	101.47.46	JS1
ATOM	11643	CG	LEU	63	221.535	144.033	21.580	1.00	70.78	JS10	ATOM	11696	CA	LEU	69	229.537	162.025	24.428	1.00	101.47.46	JS1
ATOM	11644	CD1	LEU	63	221.186	142.973	22.614	1.00	70.78	JS10	ATOM	11697	CB	LEU	69	230.978	161.949	23.919	1.00	101.24.09	JS1
ATOM	11645	CD2	LEU	63	222.900	144.616	21.879	1.00	70.78	JS10	ATOM	11698	CG	LEU	69	231.601	160.580	23.642	1.00	101.24.09	JS1
ATOM	11646	C	LEU	63	222.140	145.489	18.918	1.00	74.47	JS10	ATOM	11699	CD1	LEU	69	232.993	160.569	24.252	1.00	101.24.09	JS1
ATOM	11647	O	LEU	63	223.219	145.437	19.496	1.00	74.47	JS10	ATOM	11700	CD2	LEU	69	230.760	159.452	24.227	1.00	101.24.09	JS1
ATOM	11648	N	ARG	64	221.140	146.561	18.237	1.00	83.69	JS10	ATOM	11701	C	LEU	69	229.299	163.432	24.976	1.00	101.47.46	JS1
ATOM	11649	CA	ARG	64	222.587	147.744	18.086	1.00	83.69	JS10	ATOM	11702	O	LEU	69	229.256	163.629	26.195	1.00	101.47.46	JS1
ATOM	11650	CB	ARG	64	222.118	148.547	16.874	1.00	101.28.28	JS10	ATOM	11703	N	VAL	70	229.180	164.417	24.092	1.00	101.56.69	JS1
ATOM	11651	CD	ARG	64	220.610	148.668	16.763	1.00	101.28.28	JS10	ATOM	11704	CA	VAL	70	228.945	165.788	25.535	1.00	101.56.69	JS1
ATOM	11652	NE	ARG	64	220.233	149.546	15.590	1.00	101.28.28	JS10	ATOM	11705	CB	VAL	70	227.886	165.808	25.659	1.00	101.01.91	JS1
ATOM	11653	NE	ARG	64	220.912	149.128	14.366	1.00	101.28.28	JS10	ATOM	11706	CG1	VAL	70	227.598	167.219	26.083	1.00	101.01.91	JS1
ATOM	11654	CZ	ARG	64	220.871	149.806	13.223	1.00	101.28.28	JS10	ATOM	11707	CG2	VAL	70	226.617	165.119	25.179	1.00	101.01.91	JS1
ATOM	11655	NH1	ARG	64	220.183	150.939	13.146	1.00	101.28.28	JS10	ATOM	11708	C	VAL	70	230.227	166.487	25.017	1.00	101.56.69	JS1
ATOM	11656	NH2	ARG	64	221.514	149.354	12.154	1.00	101.28.28	JS10	ATOM	11709	O	VAL	70	230.968	167.038	24.204	1.00	101.56.69	JS1
ATOM	11657	C	ARG	64	222.702	148.665	19.299	1.00	83.69	JS10	ATOM	11710	N	ASP	71	230.475	166.460	26.330	1.00	92.33	JS1
ATOM	11658	O	ARG	64	221.697	149.163	19.812	1.00	83.69	JS10	ATOM	11711	CA	ASP	71	231.662	167.079	26.957	1.00	92.33	JS1
ATOM	11659	N	THR	65	223.945	148.895	19.731	1.00	101.26.70	JS10	ATOM	11712	CB	ASP	71	232.884	166.989	26.033	1.00	79.89	JS1
ATOM	11660	CA	THR	65	224.278	149.756	20.878	1.00	101.26.70	JS10	ATOM	11713	CG	ASP	71	233.958	166.060	26.581	1.00	79.89	JS1
ATOM	11661	CB	THR	65	225.458	149.168	21.683	1.00	61.91	JS10	ATOM	11714	OD1	ASP	71	233.602	165.031	27.210	1.00	79.89	JS1
ATOM	11662	OG1	THR	65	225.058	147.940	22.305	1.00	61.91	JS10	ATOM	11715	OD2	ASP	71	235.159	166.349	26.375	1.00	79.89	JS1
ATOM	11663	CG2	THR	65	225.936	150.159	22.735	1.00	61.91	JS10	ATOM	11716	C	ASP	71	231.510	168.531	27.445	1.00	92.33	JS1
ATOM	11664	C	THR	65	224.702	151.151	20.406	1.00	101.26.70	JS10	ATOM	11717	O	ASP	71	231.326	169.666	26.656	1.00	92.33	JS1
ATOM	11665	O	THR	65	225.690	151.283	19.685	1.00	101.26.70	JS10	ATOM	11718	N	ILE	72	231.599	168.696	28.765	1.00	101.24.18	JS1
ATOM	11666	N	HIS	66	223.983	152.188	20.828	1.00	95.18	JS10	ATOM	11719	CA	ILE	72	231.485	170.002	29.414	1.00	101.24.18	JS1
ATOM	11667	CB	HIS	66	224.314	153.551	20.045	1.00	95.18	JS10	ATOM	11720	CB	ILE	72	230.444	169.999	30.558	1.00	101.02.33	JS1
ATOM	11668	CA	HIS	66	223.033	154.297	20.045	1.00	71.55	JS10	ATOM	11721	CG2	ILE	72	230.272	171.410	30.085	1.00	101.02.33	JS1
ATOM	11669	CG	HIS	66	222.183	153.578	19.046	1.00	71.55	JS10	ATOM	11722	CG1	ILE	72	229.101	169.458	30.073	1.00	101.02.33	JS1
ATOM	11670	CD2	HIS	66	221.632	152.340	19.072	1.00	71.55	JS10	ATOM	11723	CD1	ILE	72	228.121	169.187	31.202	1.00	101.02.33	JS1
ATOM	11671	ND1	HIS	66	221.796	154.146	17.850	1.00	71.55	JS10	ATOM	11724	C	ILE	72	232.820	170.369	30.050	1.00	101.24.18	JS1
ATOM	11672	CE1	HIS	66	221.041	153.290	17.903	1.00	71.55	JS10	ATOM	11725	O	ILE	72	233.040	170.966	31.229	1.00	101.24.18	JS1
ATOM	11673	NE2	HIS	66	220.926	152.187	17.903	1.00	71.55	JS10	ATOM	11726	N	ILE	73	233.717	170.966	29.275	1.00	101.44.47	JS1
ATOM	11674	C	HIS	66	225.122	154.350	21.439	1.00	95.18	JS10	ATOM	11727	CA	ILE	73	235.002	171.365	29.826	1.00	101.49.17	JS1
ATOM	11675	O	HIS	66	225.047	154.082	22.640	1.00	95.18	JS10	ATOM	11728	CB	ILE	73	236.124	171.370	28.731	1.00	101.49.17	JS1
ATOM	11676	N	ASN	67	225.886	155.336	20.964	1.00	97.81	JS10	ATOM	11729	CG2	ILE	73	237.267	172.309	29.128	1.00	101.49.17	JS1
ATOM	11677	CA	ASN	67	226.731	156.147	21.842	1.00	97.81	JS10	ATOM	11730	CG1	ILE	73	236.654	169.940	28.526	1.00	101.49.17	JS1
ATOM	11678	CB	ASN	67	228.185	155.670	21.733	1.00	96.86	JS10	ATOM	11731	CD1	ILE	73	237.886	169.833	27.628	1.00	101.49.17	JS1

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ATOM	11732	C	ILE	73	234.837	172.744	30.463	1.00144.47	JS10	ATOM	11785	CA	ILE	80	227.483	169.703	38.710	1.00	91.04	JS1	
ATOM	11733	O	FILE	73	234.111	173.598	29.941	1.00144.47	JS10	ATOM	11786	CB	ILE	80	228.659	169.501	39.696	1.00112.37		JS1	
ATOM	11734	M/	ASN	74	235.495	172.941	31.606	1.00125.89	JS10	ATOM	11787	CG2	ILE	80	228.442	168.239	40.530	1.00112.37		JS1	
ATOM	11735	CA	ASN	74	235.426	174.196	32.352	1.00125.89	JS10	ATOM	11788	CG1	ILE	80	229.973	169.414	38.911	1.00112.37		JS1	
ATOM	11736	CB	ASN	74	235.957	175.359	31.499	1.00167.43	JS10	ATOM	11789	CD1	ILE	80	231.211	169.250	39.781	1.00112.37		JS1	
ATOM	11737	CG	ASN	74	237.427	175.185	31.123	1.00167.43	JS10	ATOM	11790	C	ILE	80	226.167	169.769	39.490	1.00	91.04	JS1	
ATOM	11738	OD1	ASN	74	238.265	174.877	31.974	1.00167.43	JS10	ATOM	11791	O	ILE	80	225.799	168.842	40.222	1.00	91.04	JS1	
ATOM	11739	ND2	ASN	74	237.744	175.392	29.848	1.00167.43	JS10	ATOM	11792	N	GLU	81	225.469	170.888	39.305	1.00118.06		JS1	
ATOM	11740	C	ASN	74	233.992	174.470	32.826	1.00125.89	JS10	ATOM	11793	CA	GLU	81	224.185	171.170	39.936	1.00118.06		JS1	
ATOM	11741	O	ASN	74	233.272	175.309	32.272	1.00125.89	JS10	ATOM	11794	CB	GLU	81	224.115	172.658	40.301	1.00157.57		JS1	
ATOM	11742	M/	PRO	75	233.554	173.727	33.854	1.00127.05	JS10	ATOM	11795	CG	GLU	81	222.767	173.147	40.791	1.00157.57		JS1	
ATOM	11743	CD	PRO	75	234.158	172.425	34.198	1.00108.69	JS10	ATOM	11796	CD	GLU	81	222.708	173.267	42.296	1.00157.57		JS1	
ATOM	11744	CA	PRO	75	232.227	173.830	34.457	1.00127.05	JS10	ATOM	11797	OE1	GLU	81	223.041	172.277	42.982	1.00157.57		JS1	
ATOM	11745	CB	PRO	75	231.730	172.408	34.359	1.00108.69	JS10	ATOM	11798	OE2	GLU	81	222.328	174.351	42.790	1.00157.57		JS1	
ATOM	11746	CG	PRO	75	232.972	171.651	34.821	1.00108.69	JS10	ATOM	11799	C	GLU	81	223.066	170.821	38.955	1.00118.06		JS1	
ATOM	11747	C	PRO	75	232.357	174.265	35.917	1.00127.05	JS10	ATOM	11800	O	GLU	81	222.202	169.984	39.251	1.00118.06		JS1	
ATOM	11748	O	PRO	75	233.388	174.028	36.553	1.00127.05	JS10	ATOM	11801	N	GLN	82	223.094	171.467	37.789	1.00146.77		JS1	
ATOM	11749	N	ASN	76	231.311	174.877	36.455	1.00	96.37	JS10	ATOM	11802	CA	GLN	82	222.096	171.232	36.751	1.00146.77		JS1
ATOM	11750	CA	ASN	76	231.348	175.318	37.839	1.00	96.37	JS10	ATOM	11803	CB	GLN	82	222.269	172.236	35.603	1.00124.93		JS1
ATOM	11751	CB	ASN	76	231.530	176.840	37.913	1.00169.94	JS10	ATOM	11804	CG	GLN	82	221.854	173.660	35.961	1.00124.93		JS1	
ATOM	11752	CG	ASN	76	232.980	177.271	37.742	1.00169.94	JS10	ATOM	11805	CD	GLN	82	221.749	174.589	34.748	1.00124.93		JS1	
ATOM	11753	OD1	ASN	76	233.850	176.895	38.530	1.00169.94	JS10	ATOM	11806	OE1	GLN	82	221.062	174.282	33.771	1.00124.93		JS1	
ATOM	11754	ND2	ASN	76	233.242	178.070	36.714	1.00169.94	JS10	ATOM	11807	NE2	GLN	82	222.420	175.737	34.818	1.00124.93		JS1	
ATOM	11755	C	ASN	76	230.100	174.926	38.616	1.00	96.37	JS10	ATOM	11808	C	GLN	82	222.165	169.804	36.209	1.00146.77		JS1
ATOM	11756	O	ASN	76	228.988	175.095	38.122	1.00	96.37	JS10	ATOM	11809	O	GLN	82	221.327	169.397	35.402	1.00146.77		JS1
ATOM	11757	N	ARG	77	230.321	174.413	39.829	1.00126.38	JS10	ATOM	11810	N	LEU	83	223.163	169.047	36.660	1.00141.04		JS1	
ATOM	11758	CA	ARG	77	229.359	174.875	42.033	1.00126.38	JS10	ATOM	11811	CA	LEU	83	223.336	167.661	36.227	1.00141.04		JS1	
ATOM	11759	CB	ARG	77	229.771	173.420	44.017	1.00168.02	JS10	ATOM	11812	CB	LEU	83	224.749	167.437	35.655	1.00109.34		JS1	
ATOM	11760	CG	ARG	77	230.387	174.421	43.055	1.00168.02	JS10	ATOM	11813	CG	LEU	83	225.305	168.329	34.536	1.00109.34		JS1	
ATOM	11761	CD	ARG	77	229.771	173.420	44.017	1.00168.02	JS10	ATOM	11814	CD1	LEU	83	226.680	167.802	34.128	1.00109.34		JS1	
ATOM	11762	NE	ARG	77	230.774	172.662	44.758	1.00168.02	JS10	ATOM	11815	CD2	LEU	83	224.361	168.350	33.340	1.00109.34		JS1	
ATOM	11763	CZ	ARG	77	231.612	171.796	44.199	1.00168.02	JS10	ATOM	11816	C	LEU	83	223.113	166.684	37.384	1.00141.04		JS1	
ATOM	11764	NH1	ARG	77	231.572	171.578	42.889	1.00168.02	JS10	ATOM	11817	O	LEU	83	222.011	166.170	37.573	1.00141.04		JS1	
ATOM	11765	NH2	ARG	77	232.483	171.137	44.950	1.00168.02	JS10	ATOM	11818	N	MET	84	224.175	166.455	38.154	1.00145.18		JS1	
ATOM	11766	C	ARG	77	227.841	173.964	40.281	1.00126.38	JS10	ATOM	11819	CA	MET	84	224.185	165.532	39.291	1.00145.18		JS1	
ATOM	11767	O	ARG	77	227.143	172.971	40.483	1.00126.38	JS10	ATOM	11820	CB	MET	84	225.227	165.985	40.319	1.00128.26		JS1	
ATOM	11768	N	LYS	78	227.386	175.061	39.675	1.00140.38	JS10	ATOM	11821	CG	MET	84	225.795	164.837	41.129	1.00128.26		JS1	
ATOM	11769	CA	LYS	78	226.032	175.141	39.129	1.00140.38	JS10	ATOM	11822	SD	MET	84	226.462	163.525	40.055	1.00128.26		JS1	
ATOM	11770	CB	LYS	78	225.782	176.532	38.528	1.00108.32	JS10	ATOM	11823	CE	MET	84	225.059	162.367	39.968	1.00128.26		JS1	
ATOM	11771	CG	LYS	78	224.367	176.745	37.984	1.00108.32	JS10	ATOM	11824	C	MET	84	222.855	165.290	39.966	1.00145.18		JS1	
ATOM	11772	CD	LYS	78	223.309	176.403	39.027	1.00108.32	JS10	ATOM	11825	O	MET	84	222.492	164.147	40.269	1.00145.18		JS1	
ATOM	11773	CE	LYS	78	223.496	177.218	40.297	1.00108.32	JS10	ATOM	11826	N	ALA	85	222.132	166.360	40.297	1.00149.14		JS1	
ATOM	11774	N2	LYS	78	222.590	176.752	41.378	1.00108.32	JS10	ATOM	11827	CA	ALA	85	220.851	166.226	40.974	1.00149.14		JS1	
ATOM	11775	C	LYS	78	225.880	174.068	38.045	1.00140.38	JS10	ATOM	11828	CB	ALA	85	220.493	167.540	41.665	1.00109.21		JS1	
ATOM	11776	O	LYS	78	224.776	173.578	37.772	1.00140.38	JS10	ATOM	11829	C	ALA	85	219.747	165.820	39.994	1.00149.14		JS1	
ATOM	11777	N	THR	79	227.006	173.721	37.423	1.00174.22	JS10	ATOM	11830	O	ALA	85	218.944	164.925	40.274	1.00149.14		JS1	
ATOM	11778	CA	THR	79	227.037	172.699	36.386	1.00174.22	JS10	ATOM	11831	N	ALA	86	219.725	166.478	38.840	1.00142.94		JS1	
ATOM	11779	CB	THR	79	228.418	172.652	35.692	1.00148.95	JS10	ATOM	11832	CA	ALA	86	218.727	166.214	37.807	1.00142.94		JS1	
ATOM	11780	OG1	THR	79	228.733	173.949	35.161	1.00148.95	JS10	ATOM	11833	CB	ALA	86	218.596	167.454	36.913	1.00	95.88	JS1	
ATOM	11781	CG2	THR	79	228.409	171.624	34.558	1.00148.95	JS10	ATOM	11834	C	ALA	86	219.066	164.965	36.967	1.00142.94		JS1	
ATOM	11782	C	THR	79	226.747	171.362	37.061	1.00174.22	JS10	ATOM	11835	O	ALA	86	220.230	164.579	36.867	1.00142.94		JS1	
ATOM	11783	O	THR	79	225.722	170.734	36.784	1.00174.22	JS10	ATOM	11836	N	ALA	87	218.049	164.336	36.371	1.00158.54		JS1	
ATOM	11784	N	ILE	80	227.642	170.949	37.958	1.00	91.04	JS10	ATOM	11837	CA	ALA	87	218.253	163.129	35.554	1.00158.54		JS1

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ATOM	11838	CB	ALA	87	218.687	161.958	36.458	1.00100.78	JS10	ATOM	11891	OE1	GLU	95	230.398	155.841	34.112	1.00135.30	JS1
ATOM	11839	C	ALA	87	217.009	162.731	34.731	1.00158.54	JS10	ATOM	11892	OE2	GLU	95	228.454	154.793	34.113	1.00135.30	JS1
ATOM	11840	Q	ALA	87	215.936	163.324	34.898	1.00158.54	JS10	ATOM	11893	C	GLU	95	229.736	156.855	32.056	1.00117.98	JS1
ATOM	11841	N	ALA	88	217.150	161.728	33.855	1.00158.44	JS10	ATOM	11894	O	GLU	95	229.585	159.619	31.102	1.00117.98	JS1
ATOM	11842	CA	ALA	88	216.029	161.285	33.015	1.00158.44	JS10	ATOM	11895	N	ILE	96	230.529	159.120	33.088	1.00133.14	JS1
ATOM	11843	CB	ALA	88	215.640	162.411	32.062	1.0080.54	JS10	ATOM	11896	CA	ILE	96	231.305	160.346	33.143	1.00133.14	JS1
ATOM	11844	C	ALA	88	216.233	159.986	32.210	1.00158.44	JS10	ATOM	11897	CB	ILE	96	231.162	162.814	33.511	1.0094.09	JS1
ATOM	11845	O	ALA	88	217.330	159.423	32.174	1.00158.44	JS10	ATOM	11898	CG2	ILE	96	229.063	161.477	33.420	1.0094.09	JS1
ATOM	11846	N	ALA	89	215.147	159.534	31.572	1.0089.16	JS10	ATOM	11899	CG1	ILE	96	228.192	162.448	33.182	1.0094.09	JS1
ATOM	11847	CA	ALA	89	215.103	158.331	30.726	1.0089.16	JS10	ATOM	11900	CD1	ILE	96	232.591	160.102	33.913	1.00133.14	JS1
ATOM	11848	CB	ALA	89	215.879	158.593	29.424	1.0039.09	JS10	ATOM	11901	C	ILE	96	232.630	159.270	34.821	1.00133.14	JS1
ATOM	11849	C	ALA	89	215.574	157.018	31.374	1.0089.16	JS10	ATOM	11902	O	ILE	96	233.638	160.831	33.537	1.00155.82	JS1
ATOM	11850	O	ALA	89	216.323	157.029	32.354	1.0089.16	JS10	ATOM	11903	N	LYS	97	234.943	160.738	34.186	1.00155.82	JS1
ATOM	11851	N	THR	90	215.127	155.889	30.816	1.0097.44	JS10	ATOM	11904	CA	LYS	97	235.755	159.566	33.620	1.00145.37	JS1
ATOM	11852	CA	THR	90	214.488	154.561	31.330	1.0097.44	JS10	ATOM	11905	CB	LYS	97	235.334	158.183	33.575	1.00145.37	JS1
ATOM	11853	CB	THR	90	214.266	153.701	31.635	1.0071.59	JS10	ATOM	11906	CG	LYS	97	236.273	157.108	33.575	1.00145.37	JS1
ATOM	11854	OG1	THR	90	213.426	154.373	32.578	1.0071.59	JS10	ATOM	11907	CD	LYS	97	236.839	154.689	33.563	1.00145.37	JS1
ATOM	11855	CG2	THR	90	214.706	152.362	32.212	1.0071.59	JS10	ATOM	11908	CE	LYS	97	235.898	152.724	34.076	1.00145.37	JS1
ATOM	11856	C	THR	90	216.339	153.721	30.390	1.0097.44	JS10	ATOM	11909	NZ	LYS	97	235.706	162.045	33.967	1.00155.82	JS1
ATOM	11857	O	THR	90	217.217	152.983	30.837	1.0097.44	JS10	ATOM	11910	C	LYS	97	236.804	162.047	33.409	1.00155.82	JS1
ATOM	11858	N	GLY	91	216.055	153.799	29.095	1.00126.99	JS10	ATOM	11911	O	LYS	97	235.115	163.151	34.414	1.00149.46	JS1
ATOM	11859	CA	GLY	91	216.820	153.027	28.130	1.00126.99	JS10	ATOM	11912	N	ALA	98	235.708	164.481	34.268	1.00149.46	JS1
ATOM	11860	C	GLY	91	218.198	153.625	27.928	1.00126.99	JS10	ATOM	11913	CB	ALA	98	234.985	165.467	35.183	1.0097.56	JS1
ATOM	11861	O	GLY	91	218.802	153.478	26.861	1.00126.99	JS10	ATOM	11914	C	ALA	98	237.212	164.515	34.548	1.00149.46	JS1
ATOM	11862	N	VAL	92	218.692	154.296	28.966	1.0074.15	JS10	ATOM	11915	C	ALA	98	237.731	163.544	35.139	1.00149.46	JS1
ATOM	11863	CA	VAL	92	219.994	154.943	28.924	1.0074.15	JS10	ATOM	11916	O	ALA	98	237.854	165.552	34.176	1.0097.56	JS1
ATOM	11864	CB	VAL	92	219.852	156.476	28.852	1.0048.18	JS10	ATOM	11917	OXF	ALA	98	156.554	113.657	-84.469	1.00132.72	JS6
ATOM	11865	CG1	VAL	92	221.217	157.089	28.588	1.0048.18	JS10	ATOM	11918	CB	MET	1	156.091	112.724	-85.554	1.00132.72	JS6
ATOM	11866	CG2	VAL	92	218.844	156.885	27.771	1.0048.18	JS10	ATOM	11919	CG	MET	1	156.417	113.461	-87.153	1.00132.72	JS6
ATOM	11867	C	VAL	92	220.859	154.613	30.142	1.0074.15	JS10	ATOM	11920	SD	MET	1	156.964	114.124	-82.082	1.00111.13	JS6
ATOM	11868	O	VAL	92	220.347	154.354	31.235	1.0074.15	JS10	ATOM	11921	CE	MET	1	156.292	114.584	-81.161	1.00111.13	JS6
ATOM	11869	N	GLU	93	222.175	154.619	29.935	1.0090.27	JS10	ATOM	11922	C	MET	1	154.932	112.869	-82.780	1.00111.13	JS6
ATOM	11870	CA	GLU	93	223.139	154.345	30.993	1.0090.27	JS10	ATOM	11923	O	MET	1	158.945	115.416	-82.302	1.0075.51	JS6
ATOM	11871	CB	GLU	93	223.643	152.911	30.926	1.00128.85	JS10	ATOM	11924	N	MET	1	159.655	114.697	-80.305	1.0060.31	JS6
ATOM	11872	CG	GLU	93	224.607	152.570	32.040	1.00128.85	JS10	ATOM	11925	CA	MET	2	158.718	114.097	-79.257	1.0060.31	JS6
ATOM	11873	CD	GLU	93	225.346	151.276	31.785	1.00128.85	JS10	ATOM	11926	N	MET	2	158.945	115.416	-82.302	1.0075.51	JS6
ATOM	11874	OE1	GLU	93	226.188	151.246	30.863	1.00128.85	JS10	ATOM	11927	CA	ARG	2	159.655	114.697	-80.305	1.0060.31	JS6
ATOM	11875	OE2	GLU	93	225.082	150.285	32.500	1.00128.85	JS10	ATOM	11928	CB	ARG	2	158.718	114.097	-79.257	1.0060.31	JS6
ATOM	11876	C	GLU	93	224.313	155.286	30.798	1.0090.27	JS10	ATOM	11929	CG	ARG	2	158.945	115.416	-82.302	1.0075.51	JS6
ATOM	11877	O	GLU	93	225.246	154.988	30.045	1.0090.27	JS10	ATOM	11930	CD	ARG	2	159.655	114.697	-80.305	1.0060.31	JS6
ATOM	11878	N	ILE	94	224.254	156.421	31.488	1.00154.55	JS10	ATOM	11931	NE	ARG	2	158.558	113.654	-77.123	1.0060.31	JS6
ATOM	11879	CA	ILE	94	225.285	157.447	31.403	1.00154.55	JS10	ATOM	11932	CZ	ARG	2	158.885	111.578	-76.549	1.0060.31	JS6
ATOM	11880	CB	ILE	94	224.885	158.735	32.141	1.0086.07	JS10	ATOM	11933	NH1	ARG	2	160.123	111.095	-76.567	1.0060.31	JS6
ATOM	11881	CG2	ILE	94	225.759	159.891	31.664	1.0086.07	JS10	ATOM	11934	NH2	ARG	2	157.959	110.964	-75.822	1.0060.31	JS6
ATOM	11882	CG1	ILE	94	223.407	159.036	31.912	1.0086.07	JS10	ATOM	11935	C	ARG	2	159.965	116.155	-82.325	1.0075.51	JS6
ATOM	11883	CD1	ILE	94	222.912	160.277	32.626	1.0086.07	JS10	ATOM	11936	O	ARG	2	160.580	115.566	-83.216	1.0075.51	JS6
ATOM	11884	C	ILE	94	226.602	157.031	32.014	1.00154.55	JS10	ATOM	11937	N	ARG	3	160.128	117.447	-82.056	1.0070.92	JS6
ATOM	11885	O	ILE	94	226.678	156.097	32.815	1.00154.55	JS10	ATOM	11938	CA	ARG	3	161.069	119.752	-82.792	1.0070.92	JS6
ATOM	11886	N	ILE	95	227.638	157.762	31.624	1.00117.98	JS10	ATOM	11939	CB	ARG	3	160.628	118.752	-82.676	1.00165.05	JS6
ATOM	11887	CA	GLU	95	228.977	157.553	32.130	1.00117.98	JS10	ATOM	11940	CG	ARG	3	160.951	120.619	-83.873	1.00165.05	JS6
ATOM	11888	CB	GLU	95	229.704	156.463	31.349	1.00135.30	JS10	ATOM	11941	CD	ARG	3	160.574	122.063	-83.589	1.00165.05	JS6
ATOM	11889	CG	GLU	95	229.537	155.119	32.009	1.00135.30	JS10	ATOM	11942	NE	ARG	3	160.570	122.887	-84.795	1.00165.05	JS6
ATOM	11890	CD	GLU	95	229.458	155.256	33.521	1.00135.30	JS10	ATOM	11943	CZ	ARG	3	160.433	124.210	-84.796	1.00165.05	JS6

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ATOM	11944	NH1 ARG	3	160.292	124.865	-83.651	1.00165.05	FS6	ATOM	11997	C VAL	9	181.525	115.909	-88.162	1.00	72.74	FS6	
ATOM	11945	NH2 ARG	3	160.430	124.880	-85.941	1.00165.05	FS6	ATOM	11998	O VAL	9	181.838	114.851	-87.604	1.00	72.74	FS6	
ATOM	11946	CA ARG	3	162.484	118.127	-82.211	1.00	70.92	FS6	ATOM	11999	N LEU	10	181.827	116.180	-89.428	1.00	75.81	FS6
ATOM	11947	O ARG	3	162.709	118.346	-81.015	1.00	70.92	FS6	ATOM	12000	CA LEU	10	182.562	115.231	-90.247	1.00	75.81	FS6
ATOM	11948	N TYR	4	163.438	117.745	-83.054	1.00	67.90	FS6	ATOM	12001	CB LEU	10	181.696	114.787	-91.432	1.00	69.18	FS6
ATOM	11949	CA TYR	4	164.816	117.547	-82.601	1.00	67.90	FS6	ATOM	12002	CG LEU	10	180.756	115.851	-91.995	1.00	69.18	FS6
ATOM	11950	CB TYR	4	165.243	116.095	-82.831	1.00	89.40	FS6	ATOM	12003	CD1 LEU	10	181.566	116.960	-92.610	1.00	69.18	FS6
ATOM	11951	CG TYR	4	164.414	115.082	-82.080	1.00	89.40	FS6	ATOM	12004	CD2 LEU	10	179.835	115.234	-93.028	1.00	69.18	FS6
ATOM	11952	CD1 TYR	4	164.540	114.932	-80.700	1.00	89.40	FS6	ATOM	12005	C LEU	10	183.891	115.795	-90.727	1.00	75.81	FS6
ATOM	11953	CD2 TYR	4	163.780	113.990	-80.007	1.00	89.40	FS6	ATOM	12006	O LEU	10	184.111	117.009	-90.698	1.00	75.81	FS6
ATOM	11954	CE1 TYR	4	163.503	114.267	-82.752	1.00	89.40	FS6	ATOM	12007	N ASN	11	184.767	114.890	-91.155	1.00	101.98	FS6
ATOM	11955	CE2 TYR	4	162.738	113.325	-82.069	1.00	89.40	FS6	ATOM	12008	CA ASN	11	186.104	115.221	-91.638	1.00	101.98	FS6
ATOM	11956	CZ TYR	4	162.883	113.189	-80.699	1.00	89.40	FS6	ATOM	12009	CB ASN	11	186.642	114.070	-92.485	1.00	97.72	FS6
ATOM	11957	OH TYR	4	162.141	112.243	-80.032	1.00	89.40	FS6	ATOM	12010	CG ASN	11	188.137	114.138	-92.664	1.00	97.72	FS6
ATOM	11958	C TYR	4	165.824	118.466	-83.284	1.00	67.90	FS6	ATOM	12011	OD1 ASN	11	188.689	115.189	-92.995	1.00	97.72	FS6
ATOM	11959	O TYR	4	165.464	119.366	-84.034	1.00	67.90	FS6	ATOM	12012	ND2 ASN	11	188.807	113.012	-92.450	1.00	97.72	FS6
ATOM	11960	N GLU	5	167.096	118.226	-82.995	1.00	76.64	FS6	ATOM	12013	C ASN	11	186.182	116.518	-92.447	1.00	101.98	FS6
ATOM	11961	CA GLU	5	168.194	118.984	-83.569	1.00	76.64	FS6	ATOM	12014	O ASN	11	185.412	116.729	-93.384	1.00	101.98	FS6
ATOM	11962	CB GLU	5	168.602	120.140	-82.663	1.00	68.31	FS6	ATOM	12015	N PRO	12	187.133	117.398	-92.099	1.00	83.25	FS6
ATOM	11963	CG GLU	5	167.851	121.411	-82.963	1.00	68.31	FS6	ATOM	12016	CD PRO	12	188.015	117.271	-90.923	1.00	83.25	FS6
ATOM	11964	CD GLU	5	168.201	122.531	-82.011	1.00	68.31	FS6	ATOM	12017	CA PRO	12	187.339	118.688	-92.771	1.00	83.25	FS6
ATOM	11965	OE1 GLU	5	169.401	122.675	-81.692	1.00	68.31	FS6	ATOM	12018	CB PRO	12	187.981	119.532	-91.682	1.00	62.12	FS6
ATOM	11966	OE2 GLU	5	167.284	123.275	-81.591	1.00	68.31	FS6	ATOM	12019	C PRO	12	188.883	118.528	-91.018	1.00	62.12	FS6
ATOM	11967	C GLU	5	169.356	118.036	-83.749	1.00	76.64	FS6	ATOM	12020	C PRO	12	188.227	118.601	-94.015	1.00	83.25	FS6
ATOM	11968	O GLU	5	169.856	117.455	-82.785	1.00	76.64	FS6	ATOM	12021	O PRO	12	188.731	119.616	-94.501	1.00	83.25	FS6
ATOM	11969	N VAL	6	169.761	117.860	-85.000	1.00	71.96	FS6	ATOM	12022	N ASN	13	188.416	117.391	-94.529	1.00	113.16	FS6
ATOM	11970	CA VAL	6	170.864	116.978	-85.313	1.00	71.96	FS6	ATOM	12023	CA ASN	13	189.261	117.204	-95.697	1.00	113.16	FS6
ATOM	11971	CB VAL	6	170.590	116.141	-86.567	1.00	44.17	FS6	ATOM	12024	CB ASN	13	190.419	116.273	-95.352	1.00	80.37	FS6
ATOM	11972	CG1 VAL	6	171.735	115.169	-86.784	1.00	44.17	FS6	ATOM	12025	CG ASN	13	191.228	116.774	-94.182	1.00	80.37	FS6
ATOM	11973	CG2 VAL	6	169.283	115.400	-86.428	1.00	44.17	FS6	ATOM	12026	OD1 ASN	13	191.580	117.953	-94.118	1.00	80.37	FS6
ATOM	11974	C VAL	6	172.115	117.789	-85.570	1.00	71.96	FS6	ATOM	12027	ND2 ASN	13	191.536	115.882	-92.248	1.00	80.37	FS6
ATOM	11975	O VAL	6	172.085	118.764	-86.314	1.00	71.96	FS6	ATOM	12028	C ASN	13	188.520	116.669	-96.911	1.00	113.16	FS6
ATOM	11976	N ASN	7	173.204	117.382	-84.930	1.00	63.91	FS6	ATOM	12029	O ASN	13	189.074	116.609	-98.009	1.00	113.16	FS6
ATOM	11977	CA ASN	7	174.495	118.023	-85.097	1.00	63.91	FS6	ATOM	12030	N LEU	14	187.268	116.283	-96.722	1.00	102.11	FS6
ATOM	11978	CB ASN	7	175.052	118.481	-83.759	1.00	65.39	FS6	ATOM	12031	CA LEU	14	186.497	115.756	-97.832	1.00	102.11	FS6
ATOM	11979	CG ASN	7	174.278	119.630	-83.184	1.00	65.39	FS6	ATOM	12032	CB LEU	14	185.076	115.430	-97.371	1.00	83.33	FS6
ATOM	11980	OD1 ASN	7	174.537	120.791	-83.498	1.00	65.39	FS6	ATOM	12033	CG LEU	14	185.004	114.419	-96.220	1.00	83.33	FS6
ATOM	11981	ND2 ASN	7	173.300	119.317	-82.350	1.00	65.39	FS6	ATOM	12034	CD1 LEU	14	183.574	113.928	-96.063	1.00	83.33	FS6
ATOM	11982	C ASN	7	175.375	116.938	-85.693	1.00	63.91	FS6	ATOM	12035	CD2 LEU	14	185.926	113.243	-96.498	1.00	83.33	FS6
ATOM	11983	O ASN	7	175.338	115.795	-85.204	1.00	63.91	FS6	ATOM	12036	C LEU	14	186.472	116.757	-98.981	1.00	102.11	FS6
ATOM	11984	N ILE	8	176.150	117.279	-86.679	1.00	64.31	FS6	ATOM	12037	O LEU	14	186.252	117.949	-98.765	1.00	102.11	FS6
ATOM	11985	CA ILE	8	177.029	116.304	-87.282	1.00	64.31	FS6	ATOM	12038	N ASP	15	186.726	116.274	-100.196	1.00	104.46	FS6
ATOM	11986	CB ILE	8	176.392	115.680	-88.518	1.00	44.69	FS6	ATOM	12039	CA ASP	15	186.745	117.140	-101.369	1.00	104.46	FS6
ATOM	11987	CG2 ILE	8	177.347	114.698	-89.132	1.00	44.69	FS6	ATOM	12040	CB ASP	15	187.442	116.481	-102.553	1.00	131.30	FS6
ATOM	11988	CG1 ILE	8	175.103	114.959	-88.126	1.00	44.69	FS6	ATOM	12041	CG ASP	15	186.808	115.167	-102.987	1.00	131.30	FS6
ATOM	11989	CD1 ILE	8	174.393	114.283	-89.280	1.00	44.69	FS6	ATOM	12042	OD1 ASP	15	185.617	115.164	-103.360	1.00	131.30	FS6
ATOM	11990	C ILE	8	178.354	116.958	-87.667	1.00	64.31	FS6	ATOM	12043	OD2 ASP	15	185.270	117.444	-101.735	1.00	131.30	FS6
ATOM	11991	O ILE	8	178.352	117.947	-88.431	1.00	64.31	FS6	ATOM	12044	C ASP	15	185.270	117.444	-101.735	1.00	104.46	FS6
ATOM	11992	N VAL	9	179.426	116.446	-87.117	1.00	72.74	FS6	ATOM	12045	O ASP	15	184.354	116.740	-101.301	1.00	89.76	FS6
ATOM	11993	CA VAL	9	180.741	116.983	-87.419	1.00	72.74	FS6	ATOM	12046	N GLN	16	185.071	118.494	-102.525	1.00	89.76	FS6
ATOM	11994	CB VAL	9	181.500	117.360	-86.144	1.00	56.61	FS6	ATOM	12047	CA GLN	16	183.732	118.906	-102.932	1.00	89.76	FS6
ATOM	11995	CG1 VAL	9	182.502	118.448	-86.450	1.00	56.61	FS6	ATOM	12048	CB GLN	16	183.818	119.772	-104.191	1.00	141.78	FS6
ATOM	11996	CG2 VAL	9	180.530	117.808	-85.077	1.00	56.61	FS6	ATOM	12049	CG GLN	16	182.490	120.384	-104.589	1.00	141.78	FS6

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ATOM	12050	CD	GLN	16	181.760	120.999-103.406	1.00141.78	FS6	ATOM	12103	CG	LYS	23	176.550	116.877	-97.066	1.00	70.93	FS6		
ATOM	12051	OE1	GLN	16	182.288	121.878-102.720	1.00141.78	FS6	ATOM	12104	CD	LYS	23	176.409	118.293	-97.612	1.00	70.93	FS6		
ATOM	12052	NE2	GLN	16	180.538	120.534-103.158	1.00141.78	FS6	ATOM	12105	CE	LYS	23	175.033	118.884	-97.297	1.00	70.93	FS6		
ATOM	12053	C	GLN	16	182.751	117.744-103.163	1.00	89.76	FS6	ATOM	12106	NZ	LYS	23	174.876	120.303	-97.761	1.00	70.93	FS6	
ATOM	12054	O	GLN	16	181.577	117.814-102.777	1.00	89.76	FS6	ATOM	12107	C	LYS	23	174.327	113.764	-97.651	1.00	80.97	FS6	
ATOM	12055	N	SER	17	183.239	116.677-103.786	1.00102.84	FS6	ATOM	12108	O	LYS	23	173.193	113.773	-97.173	1.00	80.97	FS6		
ATOM	12056	CA	SER	17	182.412	115.511-104.071	1.00102.84	FS6	ATOM	12109	N	GLU	24	174.652	113.082	-98.741	1.00	90.32	FS6		
ATOM	12057	CB	SER	17	183.059	114.680-105.178	1.00	98.81	FS6	ATOM	12110	CA	GLU	24	173.684	112.256	-99.436	1.00	90.32	FS6	
ATOM	12058	OG	SER	17	183.343	115.485-106.308	1.00	98.81	FS6	ATOM	12111	CB	GLU	24	174.352	111.550-100.618	1.00143.04	FS6	FS6		
ATOM	12059	C	SER	17	182.213	114.648-102.829	1.00102.84	FS6	ATOM	12112	CG	GLU	24	173.570	110.374-101.181	1.00143.04	FS6	FS6			
ATOM	12060	OE1	SER	17	181.083	114.435-102.390	1.00102.84	FS6	ATOM	12113	CD	GLU	24	172.181	110.762-101.639	1.00143.04	FS6	FS6			
ATOM	12061	N	GLN	18	183.318	114.151-102.277	1.00103.75	FS6	ATOM	12114	OE1	GLU	24	172.069	111.643-102.515	1.00143.04	FS6	FS6			
ATOM	12062	CA	GLN	18	183.293	113.311-101.083	1.00103.75	FS6	ATOM	12115	OE2	GLU	24	171.202	110.185-101.122	1.00143.04	FS6	FS6			
ATOM	12063	CB	GLN	18	184.689	113.220-100.466	1.00	94.76	FS6	ATOM	12116	C	GLU	24	173.163	111.232	-98.441	1.00	90.32	FS6	
ATOM	12064	CG	GLN	18	185.632	112.220-101.117	1.00	94.76	FS6	ATOM	12117	O	GLU	24	171.992	111.260	-98.061	1.00	90.32	FS6	
ATOM	12065	CD	GLN	18	187.035	112.267-100.513	1.00	94.76	FS6	ATOM	12118	N	ILE	25	174.051	110.344	-98.008	1.00	97.14	FS6	
ATOM	12066	OE1	GLN	18	187.827	111.342-100.685	1.00	94.76	FS6	ATOM	12119	CA	ILE	25	173.708	109.290	-97.057	1.00	97.14	FS6	
ATOM	12067	NE2	GLN	18	187.346	113.352	-99.811	1.00	94.76	FS6	ATOM	12120	CB	ILE	25	174.983	108.581	-96.574	1.00	83.45	FS6
ATOM	12068	C	GLN	18	182.335	113.861-100.040	1.00103.75	FS6	ATOM	12121	CG2	ILE	25	174.621	107.384	-95.692	1.00	83.45	FS6		
ATOM	12069	O	GLN	18	181.541	113.117	-99.461	1.00103.75	FS6	ATOM	12122	CG1	ILE	25	175.798	108.139	-97.789	1.00	83.45	FS6	
ATOM	12070	N	LEU	19	182.423	115.167	-99.800	1.00	93.91	FS6	ATOM	12123	CD1	ILE	25	177.120	107.496	-97.454	1.00	83.45	FS6
ATOM	12071	CA	LEU	19	181.965	117.307	-98.682	1.00	93.91	FS6	ATOM	12124	C	ILE	25	172.921	109.806	-95.846	1.00	97.14	FS6
ATOM	12072	CB	LEU	19	181.570	115.828	-98.818	1.00	93.91	FS6	ATOM	12125	O	ILE	25	172.005	109.141	-95.360	1.00	97.14	FS6
ATOM	12073	CG	LEU	19	181.175	118.206	-97.714	1.00	66.67	FS6	ATOM	12126	N	ILE	26	173.289	110.989	-95.362	1.00	74.14	FS6
ATOM	12074	CD1	LEU	19	181.988	119.457	-97.434	1.00	66.67	FS6	ATOM	12127	CA	ILE	26	172.615	111.609	-94.226	1.00	74.14	FS6
ATOM	12075	CD2	LEU	19	179.796	118.566	-98.291	1.00	66.67	FS6	ATOM	12128	CB	ILE	26	173.296	112.950	-93.861	1.00	56.75	FS6
ATOM	12076	C	LEU	19	180.101	115.718	-99.205	1.00	93.91	FS6	ATOM	12129	CG2	ILE	26	172.355	113.804	-93.013	1.00	56.75	FS6
ATOM	12077	O	LEU	19	179.279	115.213	-98.436	1.00	93.91	FS6	ATOM	12130	CG1	ILE	26	174.625	112.684	-93.142	1.00	56.75	FS6
ATOM	12078	N	ALA	20	179.779	116.195-100.401	1.00103.08	FS6	ATOM	12131	CD1	ILE	26	175.396	113.940	-92.796	1.00	56.75	FS6		
ATOM	12079	CA	ALA	20	178.413	116.157-100.896	1.00103.08	FS6	ATOM	12132	C	ILE	26	171.147	111.871	-94.578	1.00	74.14	FS6		
ATOM	12080	CB	ALA	20	178.356	116.793-102.277	1.00113.24	FS6	ATOM	12133	O	ILE	26	170.228	111.324	-93.952	1.00	74.14	FS6		
ATOM	12081	C	ALA	20	177.846	114.728-100.933	1.00103.08	FS6	ATOM	12134	N	GLN	27	170.945	112.722	-95.582	1.00	80.57	FS6		
ATOM	12082	O	ALA	20	176.631	114.538-101.020	1.00103.08	FS6	ATOM	12135	CA	GLN	27	169.615	113.075	-96.065	1.00	80.57	FS6		
ATOM	12083	N	LEU	21	178.724	113.730-100.868	1.00	73.57	FS6	ATOM	12136	CB	GLN	27	169.738	113.893	-97.347	1.00110.20	FS6	FS6	
ATOM	12084	CA	LEU	21	179.295	112.333-100.872	1.00	73.57	FS6	ATOM	12137	CG	GLN	27	169.680	116.250	-96.484	1.00110.20	FS6	FS6	
ATOM	12085	CB	LEU	21	179.429	111.412-101.325	1.00	77.83	FS6	ATOM	12138	CD	GLN	27	170.162	117.354	-96.226	1.00110.20	FS6	FS6	
ATOM	12086	CG	LEU	21	179.281	109.943-100.894	1.00	77.83	FS6	ATOM	12139	OE1	GLN	27	168.424	115.925	-96.181	1.00110.20	FS6	FS6	
ATOM	12087	CD1	LEU	21	178.013	109.345-101.483	1.00	77.83	FS6	ATOM	12140	NE2	GLN	27	168.829	111.803	-96.356	1.00	80.57	FS6	
ATOM	12088	CD2	LEU	21	180.506	109.152-101.326	1.00	77.83	FS6	ATOM	12141	C	GLN	27	167.642	111.700	-96.041	1.00	80.57	FS6	
ATOM	12089	C	LEU	21	177.855	111.908	-99.477	1.00	73.57	FS6	ATOM	12142	O	GLN	27	169.512	110.842	-96.967	1.00	87.00	FS6
ATOM	12090	O	LEU	21	176.875	111.174	-99.320	1.00	73.57	FS6	ATOM	12143	N	ARG	28	168.913	109.565	-97.315	1.00	87.00	FS6
ATOM	12091	N	GLU	22	178.538	112.352	-98.465	1.00	95.19	FS6	ATOM	12144	CA	ARG	28	169.925	108.705	-98.075	1.00122.71	FS6	FS6
ATOM	12092	CA	GLU	22	178.274	112.013	-97.086	1.00	95.19	FS6	ATOM	12145	CB	ARG	28	169.315	107.608	-98.923	1.00122.71	FS6	FS6
ATOM	12093	CB	GLU	22	179.391	112.483	-96.147	1.00	98.87	FS6	ATOM	12146	CG	ARG	28	170.395	106.717	-99.517	1.00122.71	FS6	FS6
ATOM	12094	CG	GLU	22	180.722	111.747	-96.355	1.00	98.87	FS6	ATOM	12147	CD	ARG	28	169.964	106.109-100.774	1.00122.71	FS6	FS6	
ATOM	12095	CD	GLU	22	180.652	110.258	-96.010	1.00	98.87	FS6	ATOM	12148	NE	ARG	28	169.839	106.774-101.920	1.00122.71	FS6	FS6	
ATOM	12096	OE1	GLU	22	179.743	109.563	-96.509	1.00	98.87	FS6	ATOM	12149	C2	ARG	28	170.118	108.069-101.970	1.00122.71	FS6	FS6	
ATOM	12097	OE2	GLU	22	181.513	109.773	-95.246	1.00	98.87	FS6	ATOM	12150	NH1	ARG	28	169.429	106.150-103.016	1.00122.71	FS6	FS6	
ATOM	12098	C	GLU	22	176.945	112.656	-96.716	1.00	95.19	FS6	ATOM	12151	NH2	ARG	28	168.505	108.856	-96.032	1.00	87.00	FS6
ATOM	12099	O	GLU	22	176.157	112.082	-95.961	1.00	95.19	FS6	ATOM	12152	C	ARG	28	167.404	108.321	-95.931	1.00	87.00	FS6
ATOM	12100	N	LYS	23	176.701	113.845	-97.264	1.00	80.97	FS6	ATOM	12153	O	ARG	29	169.401	108.863	-95.050	1.00	86.60	FS6
ATOM	12101	CA	LYS	23	175.456	114.565	-97.021	1.00	80.97	FS6	ATOM	12154	N	ALA	29	169.152	108.220	-93.765	1.00	86.60	FS6
ATOM	12102	CB	LYS	23	175.501	115.958	-97.650	1.00	70.93	FS6	ATOM	12155	CA	ALA	29						FS6

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ATOM	12156	CB	ALA	29	170.378	108.302	-92.909	1.00	26.27	FS6	ATOM	12209	CD	ARG	36	157.577	117.193	-91.330	1.00	91.51	FS6
ATOM	12157	C	ALA	29	167.989	108.858	-93.035	1.00	86.60	FS6	ATOM	12210	NE	ARG	36	157.017	118.502	-91.654	1.00	91.51	FS6
ATOM	12158	Q	ALA	29	167.129	108.162	-92.495	1.00	86.60	FS6	ATOM	12211	CZ	ARG	36	157.585	119.664	-91.335	1.00	91.51	FS6
ATOM	12159	N	LEU	30	167.974	110.186	-93.003	1.00	75.31	FS6	ATOM	12212	NH1	ARG	36	158.738	119.688	-90.681	1.00	91.51	FS6
ATOM	12160	CA	LEU	30	166.901	110.901	-92.333	1.00	75.31	FS6	ATOM	12213	NH2	ARG	36	157.001	120.808	-91.666	1.00	91.51	FS6
ATOM	12161	CB	LEU	30	167.052	112.398	-92.572	1.00	63.91	FS6	ATOM	12214	C	ARG	36	161.917	116.853	-91.558	1.00	54.47	FS6
ATOM	12162	CG	LEU	30	168.328	112.927	-91.922	1.00	63.91	FS6	ATOM	12215	C	ARG	36	161.641	117.667	-90.672	1.00	54.47	FS6
ATOM	12163	CD1	LEU	30	168.450	114.430	-92.096	1.00	63.91	FS6	ATOM	12216	N	VAL	37	162.928	117.023	-92.404	1.00	86.25	FS6
ATOM	12164	CD2	LEU	30	168.292	112.568	-90.451	1.00	63.91	FS6	ATOM	12217	CA	VAL	37	163.827	118.178	-92.352	1.00	86.25	FS6
ATOM	12165	C	LEU	30	165.549	110.406	-92.827	1.00	75.31	FS6	ATOM	12218	CB	VAL	37	164.756	118.193	-93.581	1.00	69.82	FS6
ATOM	12166	CG	LEU	30	164.641	110.147	-92.035	1.00	75.31	FS6	ATOM	12219	CG1	VAL	37	166.098	118.792	-93.198	1.00	69.82	FS6
ATOM	12167	N	LEU	31	165.422	110.267	-94.141	1.00	94.23	FS6	ATOM	12220	CG2	VAL	37	164.901	116.778	-94.152	1.00	69.82	FS6
ATOM	12168	CA	GLU	31	164.192	109.769	-94.744	1.00	94.23	FS6	ATOM	12221	C	VAL	37	163.150	119.552	-92.265	1.00	86.25	FS6
ATOM	12169	CB	GLU	31	164.372	109.635	-96.259	1.00	133.98	FS6	ATOM	12222	O	VAL	37	162.807	120.140	-93.285	1.00	86.25	FS6
ATOM	12170	CG	GLU	31	164.489	110.953	-97.001	1.00	133.98	FS6	ATOM	12223	N	GLU	38	162.978	120.070	-91.051	1.00	83.30	FS6
ATOM	12171	CD	GLU	31	163.137	111.517	-97.378	1.00	133.98	FS6	ATOM	12224	CA	GLU	38	162.351	121.380	-90.871	1.00	83.30	FS6
ATOM	12172	OE1	GLU	31	162.453	110.900	-98.221	1.00	133.98	FS6	ATOM	12225	CB	GLU	38	162.050	121.659	-89.399	1.00	105.75	FS6
ATOM	12173	OE2	GLU	31	162.756	112.570	-96.829	1.00	133.98	FS6	ATOM	12226	CG	GLU	38	160.878	120.884	-88.835	1.00	105.75	FS6
ATOM	12174	C	GLU	31	163.891	108.396	-94.148	1.00	94.23	FS6	ATOM	12227	CD	GLU	38	160.266	121.582	-87.640	1.00	105.75	FS6
ATOM	12175	O	GLU	31	162.838	108.175	-93.556	1.00	94.23	FS6	ATOM	12228	OE1	GLU	38	159.391	120.982	-86.981	1.00	105.75	FS6
ATOM	12176	N	ASN	32	164.843	107.485	-94.314	1.00	79.62	FS6	ATOM	12229	OE2	GLU	38	160.660	122.737	-87.369	1.00	105.75	FS6
ATOM	12177	CA	ASN	32	164.736	106.117	-93.821	1.00	79.62	FS6	ATOM	12230	C	GLU	38	163.232	122.495	-91.407	1.00	83.30	FS6
ATOM	12178	CB	ASN	32	166.112	105.456	-93.833	1.00	133.98	FS6	ATOM	12231	O	GLU	38	162.733	123.502	-91.910	1.00	83.30	FS6
ATOM	12179	CG	ASN	32	166.774	105.518	-95.185	1.00	133.98	FS6	ATOM	12232	N	LVS	39	164.541	122.330	-91.263	1.00	80.88	FS6
ATOM	12180	OD1	ASN	32	167.983	105.318	-95.305	1.00	133.98	FS6	ATOM	12233	CA	LVS	39	165.483	123.312	-91.778	1.00	80.88	FS6
ATOM	12181	ND2	ASN	32	165.984	105.789	-96.218	1.00	133.98	FS6	ATOM	12234	CB	LVS	39	165.245	124.699	-91.165	1.00	97.29	FS6
ATOM	12182	C	ASN	32	164.170	106.020	-92.412	1.00	79.62	FS6	ATOM	12235	CG	LVS	39	165.816	124.978	-89.801	1.00	97.29	FS6
ATOM	12183	O	ASN	32	163.671	104.966	-92.016	1.00	79.62	FS6	ATOM	12236	CD	LVS	39	165.577	126.457	-89.525	1.00	97.29	FS6
ATOM	12184	N	TYR	33	164.251	107.105	-91.649	1.00	97.70	FS6	ATOM	12237	CE	LVS	39	165.959	126.875	-88.126	1.00	97.29	FS6
ATOM	12185	CA	TYR	33	163.752	107.068	-90.283	1.00	97.70	FS6	ATOM	12238	NZ	LVS	39	165.541	128.287	-87.878	1.00	97.29	FS6
ATOM	12186	CB	TYR	33	164.900	107.355	-89.308	1.00	82.38	FS6	ATOM	12239	C	LVS	39	166.927	122.880	-91.608	1.00	80.88	FS6
ATOM	12187	CG	TYR	33	165.917	106.227	-89.261	1.00	82.38	FS6	ATOM	12240	O	LVS	39	167.194	121.763	-91.154	1.00	80.88	FS6
ATOM	12188	CD1	TYR	33	167.092	106.276	-90.014	1.00	82.38	FS6	ATOM	12241	N	VAL	40	167.859	123.752	-91.983	1.00	80.90	FS6
ATOM	12189	CE1	TYR	33	167.996	105.209	-90.012	1.00	82.38	FS6	ATOM	12242	CA	VAL	40	169.265	123.387	-91.906	1.00	80.90	FS6
ATOM	12190	CD2	TYR	33	165.673	105.083	-88.504	1.00	82.38	FS6	ATOM	12243	CB	VAL	40	169.390	123.093	-94.388	1.00	60.01	FS6
ATOM	12191	CE2	TYR	33	166.567	104.014	-88.497	1.00	82.38	FS6	ATOM	12244	CG1	VAL	40	171.048	121.892	-92.931	1.00	60.01	FS6
ATOM	12192	CZ	TYR	33	167.725	104.081	-89.250	1.00	82.38	FS6	ATOM	12245	CG2	VAL	40	170.235	124.560	-91.951	1.00	80.90	FS6
ATOM	12193	OH	TYR	33	168.607	103.022	-89.219	1.00	82.38	FS6	ATOM	12246	C	VAL	40	169.901	125.646	-92.411	1.00	80.90	FS6
ATOM	12194	C	TYR	33	162.555	107.963	-89.983	1.00	97.70	FS6	ATOM	12247	O	VAL	40	171.441	124.312	-91.457	1.00	88.89	FS6
ATOM	12195	O	TYR	33	161.953	107.861	-88.916	1.00	97.70	FS6	ATOM	12248	N	GLU	41	172.515	125.289	-91.427	1.00	88.89	FS6
ATOM	12196	N	GLY	34	162.196	108.822	-90.928	1.00	62.39	FS6	ATOM	12249	CA	GLU	41	172.619	125.911	-90.044	1.00	105.25	FS6
ATOM	12197	CA	GLY	34	161.058	109.696	-90.724	1.00	62.39	FS6	ATOM	12250	CB	GLU	41	171.434	126.769	-89.695	1.00	105.25	FS6
ATOM	12198	C	GLY	34	161.461	111.134	-90.475	1.00	62.39	FS6	ATOM	12251	CG	GLU	41	171.442	127.193	-88.246	1.00	105.25	FS6
ATOM	12199	O	GLY	34	160.611	111.992	-90.227	1.00	62.39	FS6	ATOM	12252	CD	GLU	41	172.514	127.621	-87.763	1.00	105.25	FS6
ATOM	12200	N	ALA	35	162.756	111.412	-90.547	1.00	88.53	FS6	ATOM	12253	OE1	GLU	41	170.378	127.105	-87.596	1.00	105.25	FS6
ATOM	12201	CA	ALA	35	163.239	112.765	-90.315	1.00	88.53	FS6	ATOM	12254	OE2	GLU	41	173.777	124.509	-91.745	1.00	88.89	FS6
ATOM	12202	CB	ALA	35	164.762	112.782	-90.325	1.00	88.53	FS6	ATOM	12255	C	GLU	41	173.809	123.289	-91.572	1.00	88.89	FS6
ATOM	12203	C	ALA	35	162.693	113.775	-91.329	1.00	88.53	FS6	ATOM	12256	O	GLU	41	174.815	125.197	-92.208	1.00	110.91	FS6
ATOM	12204	O	ALA	35	163.154	113.856	-92.469	1.00	88.53	FS6	ATOM	12257	N	GLU	42	176.052	124.510	-92.554	1.00	117.65	FS6
ATOM	12205	N	ARG	36	161.698	114.539	-90.903	1.00	54.47	FS6	ATOM	12258	CA	GLU	42	175.990	124.072	-94.019	1.00	117.65	FS6
ATOM	12206	CA	ARG	36	161.098	115.564	-91.746	1.00	54.47	FS6	ATOM	12259	CB	GLU	42	177.081	123.111	-94.446	1.00	117.65	FS6
ATOM	12207	CB	ARG	36	159.636	115.575	-91.733	1.00	91.51	FS6	ATOM	12260	CG	GLU	42	176.770	122.441	-95.774	1.00	117.65	FS6
ATOM	12208	CG	ARG	36	158.947	116.974	-91.963	1.00	91.51	FS6	ATOM	12261	CD	GLU	42						FS6

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ATOM	12262	OE1	GLU	42	177.603	121.641	-96.249	1.00117.65	FS6	ATOM	12315	O	LEU	48	189.872	123.381	-81.532	1.00	63.86	FS6	
ATOM	12263	OE2	GLU	42	175.688	122.709	-96.343	1.00117.65	FS6	ATOM	12316	N	ALA	49	188.082	123.069	-80.209	1.00	66.49	FS6	
ATOM	12264	C ^α /GLU		42	177.298	125.351	-92.301	1.00110.91	FS6	ATOM	12317	CA	ALA	49	188.780	123.418	-78.979	1.00	66.49	FS6	
ATOM	12265	O	GLU	42	178.049	125.650	-93.226	1.00110.91	FS6	ATOM	12318	CB	ALA	49	187.805	123.452	-77.816	1.00108.67	FS6		
ATOM	12266	N	LEU	43	177.511	125.719	-91.040	1.00	88.90	FS6	ATOM	12319	C	ALA	49	189.889	122.417	-78.707	1.00	66.49	FS6
ATOM	12267	CA	LEU	43	178.666	126.518	-90.637	1.00	88.90	FS6	ATOM	12320	O	ALA	49	190.913	122.747	-78.103	1.00	66.49	FS6
ATOM	12268	CB	LEU	43	178.766	126.574	-89.110	1.00	96.68	FS6	ATOM	12321	N	TYR	50	189.669	121.188	-79.154	1.00	67.17	FS6
ATOM	12269	CG	LEU	43	177.626	127.224	-88.320	1.00	96.68	FS6	ATOM	12322	CA	TYR	50	190.642	120.116	-78.996	1.00	67.17	FS6
ATOM	12270	CD1	LEU	43	177.528	128.689	-88.693	1.00	96.68	FS6	ATOM	12323	CB	TYR	50	190.326	119.276	-77.756	1.00	55.90	FS6
ATOM	12271	CD2	LEU	43	176.311	126.505	-88.592	1.00	96.68	FS6	ATOM	12324	CG	TYR	50	188.948	118.651	-77.768	1.00	55.90	FS6
ATOM	12272	C ^α /LEU		43	179.953	125.925	-91.207	1.00	88.90	FS6	ATOM	12325	CD1	TYR	50	187.818	119.400	-77.449	1.00	55.90	FS6
ATOM	12273	O	LEU	43	180.981	126.603	-91.303	1.00	88.90	FS6	ATOM	12326	CE1	TYR	50	186.547	118.837	-77.475	1.00	55.90	FS6
ATOM	12274	N	GLY	44	179.890	124.647	-91.567	1.00100.17	FS6	ATOM	12327	CD2	TYR	50	188.772	117.313	-76.118	1.00	55.90	FS6	
ATOM	12275	CA	GLY	44	181.041	123.986	-92.143	1.00100.17	FS6	ATOM	12328	CE2	TYR	50	187.504	116.736	-78.151	1.00	55.90	FS6	
ATOM	12276	C	GLY	44	182.272	123.873	-91.267	1.00100.17	FS6	ATOM	12329	CZ	TYR	50	186.391	117.503	-77.827	1.00	55.90	FS6	
ATOM	12277	O	GLY	44	182.205	123.390	-90.138	1.00100.17	FS6	ATOM	12330	CH	TYR	50	185.128	116.934	-77.853	1.00	55.90	FS6	
ATOM	12278	N	LEU	45	183.404	124.326	-91.795	1.00101.05	FS6	ATOM	12331	C	TYR	50	190.566	119.250	-80.252	1.00	67.17	FS6	
ATOM	12279	CA	LEU	45	185.808	124.575	-92.077	1.00	79.48	FS6	ATOM	12332	O	TYR	50	189.534	119.203	-80.920	1.00	67.17	FS6
ATOM	12280	CB	LEU	45	185.959	123.526	-93.173	1.00	79.48	FS6	ATOM	12333	N	PRO	51	191.657	118.556	-80.597	1.00	57.56	FS6
ATOM	12281	CG	LEU	45	186.889	124.035	-94.259	1.00	79.48	FS6	ATOM	12334	CD	PRO	51	192.985	118.559	-79.967	1.00	57.56	FS6
ATOM	12282	CD1	LEU	45	186.889	124.035	-94.259	1.00	79.48	FS6	ATOM	12335	CA	PRO	51	191.655	117.710	-81.791	1.00	57.56	FS6
ATOM	12283	CD2	LEU	45	186.478	122.236	-92.560	1.00	79.48	FS6	ATOM	12336	CB	PRO	51	193.123	117.322	-81.933	1.00	63.40	FS6
ATOM	12284	C	LEU	45	184.823	125.168	-89.885	1.00101.05	FS6	ATOM	12337	CG	PRO	51	193.592	117.304	-80.528	1.00	63.40	FS6	
ATOM	12285	O	LEU	45	184.465	126.344	-89.945	1.00101.05	FS6	ATOM	12338	C	PRO	51	190.740	116.494	-81.746	1.00	57.56	FS6	
ATOM	12286	N	ARG	46	185.361	124.612	-88.795	1.00103.56	FS6	ATOM	12339	O	PRO	51	190.720	115.751	-80.766	1.00	57.56	FS6	
ATOM	12287	CA	ARG	46	185.587	125.362	-87.556	1.00103.56	FS6	ATOM	12340	N	ILE	52	189.975	116.308	-82.816	1.00	79.88	FS6	
ATOM	12288	CB	ARG	46	184.320	125.383	-86.639	1.00104.19	FS6	ATOM	12341	CA	ILE	52	189.075	115.170	-82.941	1.00	79.88	FS6	
ATOM	12289	CG	ARG	46	183.152	126.083	-87.357	1.00104.19	FS6	ATOM	12342	CB	ILE	52	187.632	115.602	-83.256	1.00	50.02	FS6	
ATOM	12290	CD	ARG	46	182.278	126.729	-86.322	1.00104.19	FS6	ATOM	12343	CG2	ILE	52	186.768	114.362	-83.504	1.00	50.02	FS6	
ATOM	12291	NE	ARG	46	183.052	127.642	-85.490	1.00104.19	FS6	ATOM	12344	CG1	ILE	52	187.069	116.440	-82.106	1.00	50.02	FS6	
ATOM	12292	C2	ARG	46	182.550	128.333	-84.472	1.00104.19	FS6	ATOM	12345	CG1	ILE	52	185.595	116.815	-82.269	1.00	50.02	FS6	
ATOM	12293	NH1	ARG	46	181.265	128.215	-84.160	1.00104.19	FS6	ATOM	12346	C	ILE	52	189.580	114.317	-84.039	1.00	79.88	FS6	
ATOM	12294	NH2	ARG	46	183.330	129.138	-83.760	1.00104.19	FS6	ATOM	12347	O	ILE	52	189.671	114.789	-85.234	1.00	79.88	FS6	
ATOM	12295	C	ARG	46	186.756	124.808	-86.731	1.00103.56	FS6	ATOM	12348	N	ALA	53	189.907	113.062	-83.815	1.00	77.94	FS6	
ATOM	12296	O	ARG	46	187.001	123.595	-86.710	1.00103.56	FS6	ATOM	12349	CA	ALA	53	190.416	112.172	-84.844	1.00	77.94	FS6	
ATOM	12297	N	ARG	47	187.467	125.715	-86.056	1.00	77.47	FS6	ATOM	12350	CB	ALA	53	189.385	112.012	-85.957	1.00	77.94	FS6
ATOM	12298	CA	ARG	47	188.621	125.361	-85.231	1.00	77.47	FS6	ATOM	12351	C	ALA	53	191.708	112.774	-85.391	1.00	77.94	FS6
ATOM	12299	CB	ARG	47	189.473	126.603	-84.945	1.00131.38	FS6	ATOM	12352	O	ALA	53	191.923	112.829	-86.601	1.00	77.94	FS6	
ATOM	12300	CG	ARG	47	189.669	127.530	-86.137	1.00131.38	FS6	ATOM	12353	N	LVS	54	192.559	113.223	-84.472	1.00	72.42	FS6	
ATOM	12301	CD	ARG	47	190.344	126.833	-87.318	1.00131.38	FS6	ATOM	12354	CA	LVS	54	193.849	113.832	-84.789	1.00	72.42	FS6	
ATOM	12302	NE	ARG	47	190.360	127.675	-88.518	1.00131.38	FS6	ATOM	12355	CB	LVS	54	194.661	112.940	-85.733	1.00110.24	FS6		
ATOM	12303	C2	ARG	47	190.767	127.274	-89.722	1.00131.38	FS6	ATOM	12356	CG	LVS	54	194.482	111.445	-85.516	1.00110.24	FS6		
ATOM	12304	NH1	ARG	47	191.202	126.034	-89.903	1.00131.38	FS6	ATOM	12357	CD	LVS	54	194.744	111.027	-84.084	1.00110.24	FS6		
ATOM	12305	NH2	ARG	47	190.727	128.110	-90.753	1.00131.38	FS6	ATOM	12358	CE	LVS	54	194.377	109.564	-83.887	1.00110.24	FS6		
ATOM	12306	C	ARG	47	188.172	124.754	-83.906	1.00	77.47	FS6	ATOM	12359	N2	LVS	54	194.462	109.166	-82.460	1.00110.24	FS6	
ATOM	12307	O	ARG	47	187.784	125.477	-82.990	1.00	77.47	FS6	ATOM	12360	C	LVS	54	193.658	115.200	-85.429	1.00	72.42	FS6
ATOM	12308	N	LEU	48	188.233	123.428	-83.807	1.00	63.86	FS6	ATOM	12361	O	LVS	54	192.675	115.296	-86.319	1.00	72.42	FS6
ATOM	12309	CA	LEU	48	187.839	122.715	-82.591	1.00	63.86	FS6	ATOM	12362	N	ASP	55	192.367	116.534	-87.028	1.00	63.06	FS6
ATOM	12310	CB	LEU	48	187.942	121.211	-82.805	1.00	44.68	FS6	ATOM	12363	CA	ASP	55	192.367	116.534	-87.028	1.00	63.06	FS6
ATOM	12311	CG	LEU	48	187.116	120.658	-83.961	1.00	44.68	FS6	ATOM	12364	CB	ASP	55	191.287	116.253	-88.065	1.00	91.73	FS6
ATOM	12312	CD1	LEU	48	187.238	119.133	-83.961	1.00	44.68	FS6	ATOM	12365	CG	ASP	55	191.391	117.153	-89.262	1.00	91.73	FS6
ATOM	12313	CD2	LEU	48	185.655	121.088	-83.831	1.00	44.68	FS6	ATOM	12366	OD1	ASP	55	191.351	118.393	-89.092	1.00	91.73	FS6
ATOM	12314	C	LEU	48	188.690	123.091	-81.391	1.00	63.86	FS6	ATOM	12367	OD2	ASP	55	191.515	116.613	-90.378	1.00	91.73	FS6

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ATOM	12368	C	ASP	55	191.880	117.619	-86.060	1.00	63.06	FS6	ATOM	12421	N	TRP	62	174.042	121.243	-89.249	1.00	74.71	FS6
ATOM	12369	O	ASP	55	190.918	117.404	-85.330	1.00	63.06	FS6	ATOM	12422	CA	TRP	62	172.987	121.378	-88.250	1.00	74.71	FS6
ATOM	12370	N	PRO	56	192.532	118.801	-86.048	1.00	65.53	FS6	ATOM	12423	CB	TRP	62	173.066	122.760	-87.597	1.00102.71	FS6	FS6
ATOM	12371	CD	PRO	56	193.755	119.132	-86.796	1.00	75.55	FS6	ATOM	12424	CG	TRP	62	172.076	122.973	-86.487	1.00102.71	FS6	FS6
ATOM	12372	CA	PRO	56	192.171	119.920	-85.170	1.00	65.53	FS6	ATOM	12425	CD2	TRP	62	170.780	123.573	-86.598	1.00102.71	FS6	FS6
ATOM	12373	CB	PRO	56	193.467	120.692	-85.076	1.00	75.55	FS6	ATOM	12426	CE2	TRP	62	170.202	123.560	-85.312	1.00102.71	FS6	FS6
ATOM	12374	CG	PRO	56	193.941	120.610	-86.474	1.00	75.55	FS6	ATOM	12427	CE3	TRP	62	170.049	124.121	-87.663	1.00102.71	FS6	FS6
ATOM	12375	O	PRO	56	191.042	120.802	-85.699	1.00	65.53	FS6	ATOM	12428	CD1	TRP	62	172.225	122.627	-85.175	1.00102.71	FS6	FS6
ATOM	12376	C	PRO	56	190.812	121.892	-85.176	1.00	65.53	FS6	ATOM	12429	NE1	TRP	62	171.106	122.977	-84.462	1.00102.71	FS6	FS6
ATOM	12377	N	GLN	57	190.354	120.333	-86.739	1.00	51.08	FS6	ATOM	12430	CZ2	TRP	62	168.927	124.075	-85.058	1.00102.71	FS6	FS6
ATOM	12378	CB	GLN	57	189.244	121.071	-87.347	1.00	51.08	FS6	ATOM	12431	CZ3	TRP	62	168.781	124.631	-87.411	1.00102.71	FS6	FS6
ATOM	12379	CB	GLN	57	189.651	121.639	-88.703	1.00126.32	FS6	FS6	ATOM	12432	CH2	TRP	62	168.234	124.604	-86.118	1.00102.71	FS6	FS6
ATOM	12380	CG	GLN	57	190.795	122.620	-88.678	1.00126.32	FS6	FS6	ATOM	12433	C	TRP	62	171.615	121.195	-88.901	1.00	74.71	FS6
ATOM	12381	CD	GLN	57	191.318	122.911	-90.071	1.00126.32	FS6	FS6	ATOM	12434	O	TRP	62	171.176	122.037	-89.673	1.00	74.71	FS6
ATOM	12382	OE1	GLN	57	192.172	123.777	-90.258	1.00126.32	FS6	FS6	ATOM	12435	N	TRP	63	170.941	120.093	-88.594	1.00	77.91	FS6
ATOM	12383	NE2	GLN	57	188.058	120.148	-87.568	1.00	51.08	FS6	ATOM	12436	CA	TYR	63	169.622	119.824	-89.163	1.00	77.91	FS6
ATOM	12384	C	GLN	57	188.150	118.933	-87.378	1.00	49.12	FS6	ATOM	12437	CB	TYR	63	169.581	118.448	-89.831	1.00109.00	FS6	FS6
ATOM	12385	O	GLN	57	186.945	120.733	-87.989	1.00	49.12	FS6	ATOM	12438	CG	TYR	63	170.594	118.190	-90.920	1.00109.00	FS6	FS6
ATOM	12386	N	GLY	58	185.763	119.939	-88.244	1.00	49.12	FS6	ATOM	12439	CD1	TYR	63	172.736	118.937	-91.016	1.00109.00	FS6	FS6
ATOM	12387	CA	GLY	58	184.806	120.656	-89.173	1.00	49.12	FS6	ATOM	12440	CE1	TYR	63	170.418	117.131	-91.807	1.00109.00	FS6	FS6
ATOM	12388	O	GLY	58	184.847	121.891	-89.297	1.00	49.12	FS6	ATOM	12441	CD2	TYR	63	171.381	116.817	-92.752	1.00109.00	FS6	FS6
ATOM	12389	N	TYR	59	183.958	119.876	-89.842	1.00	59.47	FS6	ATOM	12442	CE2	TYR	63	172.538	117.567	-92.822	1.00109.00	FS6	FS6
ATOM	12390	C	TYR	59	182.952	120.417	-90.750	1.00	59.47	FS6	ATOM	12443	CZ	TYR	63	173.511	117.236	-93.732	1.00109.00	FS6	FS6
ATOM	12391	CA	TYR	59	183.000	119.701	-92.107	1.00	87.06	FS6	ATOM	12444	OH	TYR	63	168.573	119.813	-88.057	1.00	77.91	FS6
ATOM	12392	CG	TYR	59	182.226	120.422	-93.189	1.00	87.06	FS6	ATOM	12445	C	TYR	63	167.515	120.596	-88.022	1.00	76.23	FS6
ATOM	12393	CB	TYR	59	182.681	121.636	-93.700	1.00	87.06	FS6	ATOM	12446	O	TYR	64	166.438	120.615	-87.241	1.00	76.23	FS6
ATOM	12394	CD1	TYR	59	181.944	122.345	-94.641	1.00	87.06	FS6	ATOM	12448	CA	GLN	64	165.957	122.050	-87.000	1.00	83.88	FS6
ATOM	12395	CE1	TYR	59	181.007	119.925	-93.655	1.00	87.06	FS6	ATOM	12449	CB	GLN	64	164.632	122.134	-86.252	1.00	83.88	FS6
ATOM	12396	CD2	TYR	59	180.258	120.626	-94.597	1.00	87.06	FS6	ATOM	12450	CG	GLN	64	164.282	123.547	-85.841	1.00	83.88	FS6
ATOM	12397	CZ	TYR	59	180.733	121.839	-95.083	1.00	87.06	FS6	ATOM	12451	CD	GLN	64	164.870	124.097	-84.910	1.00	83.88	FS6
ATOM	12398	CE2	TYR	59	179.993	122.560	-95.991	1.00	87.06	FS6	ATOM	12452	OE1	GLN	64	163.323	124.148	-86.542	1.00	83.88	FS6
ATOM	12399	OH	TYR	59	181.600	120.178	-90.077	1.00	59.47	FS6	ATOM	12453	NE2	GLN	64	165.301	119.760	-87.801	1.00	76.23	FS6
ATOM	12400	C	TYR	59	181.302	119.057	-89.665	1.00	59.47	FS6	ATOM	12454	C	GLN	64	164.574	120.196	-87.685	1.00	76.23	FS6
ATOM	12401	O	TYR	59	180.784	121.223	-89.969	1.00	90.81	FS6	ATOM	12455	O	GLN	64	165.146	118.543	-87.293	1.00	87.35	FS6
ATOM	12402	N	PHE	60	179.497	121.099	-89.298	1.00	90.81	FS6	ATOM	12456	N	VAL	65	164.104	117.662	-87.801	1.00	87.35	FS6
ATOM	12403	CA	PHE	60	180.342	121.974	-87.077	1.00	81.62	FS6	ATOM	12457	CA	VAL	65	165.876	116.281	-88.890	1.00101.22	FS6	FS6
ATOM	12404	CB	PHE	60	179.987	121.230	-85.958	1.00	81.62	FS6	ATOM	12458	CB	VAL	65	164.928	115.567	-86.691	1.00101.22	FS6	FS6
ATOM	12405	CG	PHE	60	182.539	122.289	-86.119	1.00	81.62	FS6	ATOM	12459	CG1	VAL	65	162.855	117.538	-86.943	1.00	87.35	FS6
ATOM	12406	CD1	PHE	60	180.893	121.013	-84.929	1.00	81.62	FS6	ATOM	12460	CG2	VAL	65	162.658	118.268	-85.969	1.00	87.35	FS6
ATOM	12407	CD2	PHE	60	182.171	121.543	-85.010	1.00	81.62	FS6	ATOM	12461	C	VAL	65	162.018	116.590	-87.344	1.00	70.61	FS6
ATOM	12408	CE1	PHE	60	178.237	121.120	-90.141	1.00	90.81	FS6	ATOM	12462	O	VAL	65	159.626	117.089	-87.254	1.00100.10	FS6	FS6
ATOM	12409	CE2	PHE	60	177.269	120.332	-89.689	1.00	79.43	FS6	ATOM	12463	CA	GLU	66	158.267	116.738	-86.694	1.00100.10	FS6	FS6
ATOM	12410	CZ	PHE	60	175.964	120.192	-90.316	1.00	79.43	FS6	ATOM	12464	CB	GLU	66	157.191	117.689	-87.170	1.00100.10	FS6	FS6
ATOM	12411	C	PHE	60	175.874	118.854	-91.034	1.00100.31	FS6	FS6	ATOM	12465	CD	GLU	66	156.266	117.238	-87.883	1.00100.10	FS6	FS6
ATOM	12412	O	PHE	60	176.680	118.720	-92.315	1.00100.31	FS6	FS6	ATOM	12466	OE1	GLU	66	160.608	114.793	-87.069	1.00	70.61	FS6
ATOM	12413	CA	LEU	61	176.610	117.284	-92.811	1.00100.31	FS6	FS6	ATOM	12467	OE2	GLU	66	160.632	114.469	-88.255	1.00	70.61	FS6
ATOM	12414	CB	LEU	61	174.122	119.686	-93.348	1.00100.31	FS6	FS6	ATOM	12468	C	GLU	67	160.463	113.908	-86.085	1.00	63.86	FS6
ATOM	12415	CG	LEU	61	174.904	120.232	-89.220	1.00	79.43	FS6	ATOM	12469	N	MET	67	160.358	112.481	-86.387	1.00	63.86	FS6
ATOM	12416	CD1	LEU	61	174.873	119.352	-88.360	1.00	79.43	FS6	ATOM	12470	O	MET	67						FS6
ATOM	12417	C	LEU	61						FS6	ATOM	12471	CA	MET	67						FS6
ATOM	12418	CD2	LEU	61						FS6	ATOM	12472	N	MET	67						FS6
ATOM	12419	C	LEU	61						FS6	ATOM	12473	CA	MET	67						FS6
ATOM	12420	O	LEU	61						FS6	ATOM	12474	N	MET	67						FS6

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ATOM	12474	CB	MET	67	161.733	111.952	-86.807	1.00	80.84	FS6	ATOM	12527	ND2	ASN	73	167.420	106.167	-77.948	1.00	93.57	FS6
ATOM	12475	CG	MET	67	162.793	112.137	-85.726	1.00	80.84	FS6	ATOM	12528	C	ASN	73	168.903	105.684	-82.527	1.00	80.39	FS6
ATOM	12476	BD	MET	67	164.446	111.541	-86.142	1.00	80.84	FS6	ATOM	12529	O	ASN	73	170.095	105.856	-82.797	1.00	80.39	FS6
ATOM	12477	CE	MET	67	164.378	109.872	-85.499	1.00	80.84	FS6	ATOM	12530	N	ASP	74	168.097	104.925	-83.272	1.00	82.22	FS6
ATOM	12478	C	MET	67	159.855	111.644	-85.219	1.00	63.86	FS6	ATOM	12531	CA	ASP	74	168.601	104.231	-84.457	1.00	82.22	FS6
ATOM	12479	O	MET	67	159.660	112.145	-84.113	1.00	63.86	FS6	ATOM	12532	CB	ASP	74	167.493	103.428	-85.135	1.00	85.60	FS6
ATOM	12480	N	PRO	68	159.627	110.345	-85.463	1.00	100.08.66	FS6	ATOM	12533	CG	ASP	74	166.804	102.476	-84.187	1.00	85.60	FS6
ATOM	12481	CD	PRO	68	159.487	109.746	-86.801	1.00	88.88	FS6	ATOM	12534	OD1	ASP	74	167.475	101.988	-83.257	1.00	85.60	FS6
ATOM	12482	CA	PRO	68	159.150	109.415	-84.437	1.00	100.08.66	FS6	ATOM	12535	OD2	ASP	74	165.597	102.212	-84.375	1.00	85.60	FS6
ATOM	12483	CB	PRO	68	158.768	108.179	-85.248	1.00	88.88	FS6	ATOM	12536	C	ASP	74	169.155	105.242	-85.444	1.00	82.22	FS6
ATOM	12484	PRO	PRO	68	158.390	108.748	-86.580	1.00	88.88	FS6	ATOM	12537	O	ASP	74	170.261	105.082	-85.958	1.00	82.22	FS6
ATOM	12485	C	PRO	68	160.266	109.120	-83.437	1.00	100.08.66	FS6	ATOM	12538	N	LEU	75	168.371	106.282	-85.703	1.00	52.62	FS6
ATOM	12486	O	PRO	68	161.279	108.505	-83.785	1.00	100.08.66	FS6	ATOM	12539	CA	LEU	75	168.771	107.341	-86.616	1.00	52.62	FS6
ATOM	12487	N	GLU	69	160.076	109.560	-82.198	1.00	96.56	FS6	ATOM	12540	CB	LEU	75	167.888	108.574	-86.394	1.00	77.30	FS6
ATOM	12488	CA	GLU	69	161.066	109.356	-81.147	1.00	83.56	FS6	ATOM	12541	CG	LEU	75	168.058	109.846	-87.238	1.00	77.30	FS6
ATOM	12489	CB	GLU	69	160.516	109.802	-79.794	1.00	83.56	FS6	ATOM	12542	CD1	LEU	75	169.395	110.505	-86.933	1.00	77.30	FS6
ATOM	12490	CG	GLU	69	159.338	110.748	-79.864	1.00	83.56	FS6	ATOM	12543	CD2	LEU	75	167.933	109.508	-88.712	1.00	77.30	FS6
ATOM	12491	CD	GLU	69	158.040	110.032	-80.156	1.00	83.56	FS6	ATOM	12544	C	LEU	75	170.243	107.694	-86.407	1.00	52.62	FS6
ATOM	12492	OE1	GLU	69	157.835	109.618	-81.315	1.00	83.56	FS6	ATOM	12545	O	LEU	75	170.978	107.894	-87.370	1.00	52.62	FS6
ATOM	12493	OE2	GLU	69	157.225	109.869	-79.222	1.00	83.56	FS6	ATOM	12546	N	ALA	76	170.688	107.762	-85.158	1.00	63.03	FS6
ATOM	12494	C	GLU	69	161.502	107.902	-81.045	1.00	96.56	FS6	ATOM	12547	CA	ALA	76	172.085	108.095	-84.908	1.00	63.03	FS6
ATOM	12495	O	GLU	69	162.665	107.614	-80.766	1.00	96.56	FS6	ATOM	12548	CB	ALA	76	172.236	108.848	-83.592	1.00	17.78	FS6
ATOM	12496	N	ASP	70	160.565	106.987	-81.272	1.00	67.72	FS6	ATOM	12549	C	ALA	76	174.195	107.011	-85.133	1.00	63.03	FS6
ATOM	12497	CA	ASP	70	160.855	105.560	-81.194	1.00	67.72	FS6	ATOM	12550	O	ALA	76	172.993	106.872	-84.929	1.00	63.03	FS6
ATOM	12498	CG	ASP	70	159.593	104.752	-81.508	1.00	100.58.15	FS6	ATOM	12551	N	ARG	77	172.440	105.679	-84.703	1.00	74.02	FS6
ATOM	12499	CG	ASP	70	158.940	105.172	-82.807	1.00	100.58.15	FS6	ATOM	12552	CA	ARG	77	173.267	104.475	-84.758	1.00	74.02	FS6
ATOM	12500	OD1	ASP	70	158.521	106.344	-82.907	1.00	100.58.15	FS6	ATOM	12553	CB	ARG	77	172.460	102.195	-84.592	1.00	121.07	FS6
ATOM	12501	OD2	ASP	70	158.846	104.332	-83.726	1.00	100.58.15	FS6	ATOM	12554	CG	ARG	77	171.842	102.959	-83.258	1.00	121.07	FS6
ATOM	12502	C	ASP	70	161.999	105.103	-82.102	1.00	67.72	FS6	ATOM	12555	CD	ARG	77	171.196	101.599	-83.295	1.00	121.07	FS6
ATOM	12503	O	ASP	70	162.405	103.935	-82.049	1.00	67.72	FS6	ATOM	12556	NE	ARG	77	169.550	100.292	-82.938	1.00	121.07	FS6
ATOM	12504	N	ARG	71	162.505	106.014	-82.925	1.00	74.49	FS6	ATOM	12557	CZ	ARG	77	170.296	101.381	-82.175	1.00	121.07	FS6
ATOM	12505	CA	ARG	71	163.621	105.674	-83.825	1.00	74.49	FS6	ATOM	12558	NH1	ARG	77	169.607	99.331	-82.948	1.00	121.07	FS6
ATOM	12506	CB	ARG	71	163.116	105.609	-85.274	1.00	100.122.02	FS6	ATOM	12559	NH2	ARG	77	168.745	100.166	-80.985	1.00	121.07	FS6
ATOM	12507	CG	ARG	71	162.063	104.526	-85.486	1.00	100.122.02	FS6	ATOM	12560	C	ARG	77	173.733	104.494	-86.184	1.00	74.02	FS6
ATOM	12508	CD	ARG	71	162.196	103.807	-86.825	1.00	100.122.02	FS6	ATOM	12561	O	ARG	77	174.896	104.243	-86.482	1.00	74.02	FS6
ATOM	12509	NE	ARG	71	161.839	104.646	-87.966	1.00	100.122.02	FS6	ATOM	12562	N	GLU	78	172.780	104.805	-87.057	1.00	80.61	FS6
ATOM	12510	CZ	ARG	71	161.623	104.181	-89.195	1.00	100.122.02	FS6	ATOM	12563	CA	GLU	78	172.995	104.874	-88.491	1.00	80.61	FS6
ATOM	12511	NH1	ARG	71	161.727	102.882	-89.444	1.00	100.122.02	FS6	ATOM	12564	CB	GLU	78	171.654	105.093	-89.195	1.00	101.18.77	FS6
ATOM	12512	NH2	ARG	71	161.299	105.010	-90.177	1.00	100.122.02	FS6	ATOM	12565	CG	GLU	78	171.717	105.091	-90.714	1.00	101.18.77	FS6
ATOM	12513	C	ARG	71	164.832	106.612	-83.724	1.00	74.49	FS6	ATOM	12566	CD	GLU	78	172.075	103.735	-91.288	1.00	101.18.77	FS6
ATOM	12514	O	ARG	71	165.908	106.309	-84.245	1.00	74.49	FS6	ATOM	12567	OE1	GLU	78	171.404	102.742	-90.929	1.00	101.18.77	FS6
ATOM	12515	N	VAL	72	164.663	107.734	-83.034	1.00	74.59	FS6	ATOM	12568	OE2	GLU	78	173.021	103.664	-92.103	1.00	101.18.77	FS6
ATOM	12516	CA	VAL	72	165.744	108.700	-82.882	1.00	74.59	FS6	ATOM	12569	C	GLU	78	173.953	105.993	-88.859	1.00	80.61	FS6
ATOM	12517	CB	VAL	72	165.416	109.759	-81.822	1.00	70.24	FS6	ATOM	12570	O	GLU	78	174.951	105.766	-89.544	1.00	80.61	FS6
ATOM	12518	CG1	VAL	72	166.480	110.840	-81.831	1.00	70.24	FS6	ATOM	12571	N	LEU	79	173.656	107.202	-88.405	1.00	57.27	FS6
ATOM	12519	CG2	VAL	72	164.065	110.365	-82.100	1.00	70.24	FS6	ATOM	12572	CA	LEU	79	174.511	108.331	-88.725	1.00	57.27	FS6
ATOM	12520	C	VAL	72	167.069	108.057	-82.508	1.00	74.59	FS6	ATOM	12573	CB	LEU	79	173.947	109.620	-88.125	1.00	40.63	FS6
ATOM	12521	O	VAL	72	168.122	108.503	-82.954	1.00	74.59	FS6	ATOM	12574	CG	LEU	79	172.537	110.029	-88.562	1.00	40.63	FS6
ATOM	12522	N	ASN	73	167.037	107.018	-81.686	1.00	80.39	FS6	ATOM	12575	CD1	LEU	79	172.271	111.484	-88.170	1.00	40.63	FS6
ATOM	12523	CA	ASN	73	168.287	106.375	-81.313	1.00	80.39	FS6	ATOM	12576	CD2	LEU	79	172.402	109.854	-90.067	1.00	40.63	FS6
ATOM	12524	CG	ASN	73	168.077	105.379	-80.159	1.00	93.57	FS6	ATOM	12577	C	LEU	79	175.963	108.144	-88.280	1.00	57.27	FS6
ATOM	12525	CG	ASN	73	168.430	105.980	-78.789	1.00	93.57	FS6	ATOM	12578	O	LEU	79	176.878	108.663	-88.916	1.00	57.27	FS6
ATOM	12526	OD1	ASN	73	169.595	106.273	-78.502	1.00	93.57	FS6	ATOM	12579	N	ARG	80	176.185	107.399	-87.203	1.00	86.16	FS6

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ATOM	12580	CA	ARG	80	177.545	107.193	-86.710	1.00	86.16	FS6	ATOM	12633	CA	ARG	86	183.201	111.932	-86.345	1.00	73.25	FS6
ATOM	12581	CB	ARG	80	177.523	106.781	-85.235	1.00	70.96	FS6	ATOM	12634	CB	ARG	86	184.606	112.509	-86.530	1.00	78.46	FS6
ATOM	12582	CG	ARG	80	176.823	107.734	-84.274	1.00	70.96	FS6	ATOM	12635	CG	ARG	86	184.680	113.628	-87.542	1.00	78.46	FS6
ATOM	12583	CD	ARG	80	176.932	107.169	-82.851	1.00	70.96	FS6	ATOM	12636	CD	ARG	86	186.124	113.948	-87.906	1.00	78.46	FS6
ATOM	12584	NE	ARG	80	175.883	107.629	-81.941	1.00	70.96	FS6	ATOM	12637	NE	ARG	86	186.788	112.831	-88.571	1.00	78.46	FS6
ATOM	12585	CZ	ARG	80	175.723	108.890	-81.556	1.00	70.96	FS6	ATOM	12638	CZ	ARG	86	188.019	112.889	-89.068	1.00	78.46	FS6
ATOM	12586	NH1	ARG	80	176.550	109.829	-82.004	1.00	70.96	FS6	ATOM	12639	NH1	ARG	86	188.725	114.014	-88.976	1.00	78.46	FS6
ATOM	12587	NH2	ARG	80	174.737	109.204	-80.722	1.00	70.96	FS6	ATOM	12640	NH2	ARG	86	188.539	111.823	-89.663	1.00	78.46	FS6
ATOM	12588	C	ARG	80	178.341	106.145	-87.438	1.00	86.16	FS6	ATOM	12641	C	ARG	86	182.508	112.570	-85.139	1.00	73.25	FS6
ATOM	12589	O	ARG	80	179.560	106.036	-87.329	1.00	86.16	FS6	ATOM	12642	O	ARG	86	183.156	112.859	-84.134	1.00	73.25	FS6
ATOM	12590	N	ILE	81	177.654	105.383	-88.347	1.00	84.50	FS6	ATOM	12643	N	ARG	87	181.192	112.765	-85.247	1.00	76.91	FS6
ATOM	12591	CA	ILE	81	178.284	104.329	-89.151	1.00	84.50	FS6	ATOM	12644	CA	ARG	87	180.362	113.332	-84.180	1.00	76.91	FS6
ATOM	12592	CB	ILE	81	177.241	103.584	-89.989	1.00	85.01	FS6	ATOM	12645	CB	ARG	87	180.822	114.726	-83.780	1.00	59.62	FS6
ATOM	12593	CG2	ILE	81	177.901	102.438	-90.735	1.00	85.01	FS6	ATOM	12646	CG	ARG	87	181.888	114.761	-82.704	1.00	59.62	FS6
ATOM	12594	CG1	ILE	81	176.136	103.054	-89.080	1.00	85.01	FS6	ATOM	12647	CD	ARG	87	182.439	114.561	-80.349	1.00	59.62	FS6
ATOM	12595	CD1	ILE	81	174.978	102.427	-89.820	1.00	85.01	FS6	ATOM	12648	NE	ARG	87	183.645	114.002	-80.250	1.00	59.62	FS6
ATOM	12596	C	ILE	81	179.365	104.836	-90.101	1.00	84.50	FS6	ATOM	12649	CZ	ARG	87	184.009	113.036	-81.087	1.00	59.62	FS6
ATOM	12597	O	ILE	81	180.413	104.203	-90.268	1.00	84.50	FS6	ATOM	12650	NH1	ARG	87	178.918	113.430	-84.616	1.00	76.91	FS6
ATOM	12598	N	ARG	82	179.092	105.971	-90.733	1.00	98.97	FS6	ATOM	12651	NH2	ARG	87	178.918	113.430	-84.616	1.00	76.91	FS6
ATOM	12599	CA	ARG	82	180.025	106.587	-91.666	1.00	98.97	FS6	ATOM	12652	C	ARG	87	178.918	113.430	-84.616	1.00	76.91	FS6
ATOM	12600	CB	ARG	82	179.451	107.922	-92.152	1.00	102.41	FS6	ATOM	12653	O	ARG	87	178.918	113.430	-84.616	1.00	76.91	FS6
ATOM	12601	CG	ARG	82	178.190	107.812	-93.011	1.00	102.41	FS6	ATOM	12654	N	VAL	88	176.596	112.994	-84.043	1.00	68.34	FS6
ATOM	12602	CD	ARG	82	178.542	107.606	-94.481	1.00	102.41	FS6	ATOM	12655	CA	VAL	88	176.093	111.654	-84.589	1.00	74.20	FS6
ATOM	12603	NE	ARG	82	178.997	106.250	-94.784	1.00	102.41	FS6	ATOM	12656	CB	VAL	88	174.636	111.783	-85.002	1.00	74.20	FS6
ATOM	12604	CZ	ARG	82	179.609	105.899	-95.951	1.00	102.41	FS6	ATOM	12657	CG1	VAL	88	174.636	111.783	-85.002	1.00	74.20	FS6
ATOM	12605	NH1	ARG	82	179.849	106.803	-96.853	1.00	102.41	FS6	ATOM	12658	CG2	VAL	88	175.873	113.244	-82.735	1.00	68.34	FS6
ATOM	12606	NH2	ARG	82	179.970	104.639	-96.108	1.00	102.41	FS6	ATOM	12659	C	VAL	88	175.873	113.244	-82.735	1.00	68.34	FS6
ATOM	12607	C	ARG	82	181.390	106.816	-91.010	1.00	98.97	FS6	ATOM	12660	O	VAL	88	175.958	112.424	-81.832	1.00	68.34	FS6
ATOM	12608	O	ARG	82	181.475	107.171	-89.831	1.00	98.97	FS6	ATOM	12661	N	MET	89	175.166	114.365	-82.622	1.00	72.25	FS6
ATOM	12609	N	ASP	83	182.454	106.610	-91.781	1.00	71.16	FS6	ATOM	12662	CA	MET	89	174.434	114.657	-81.394	1.00	72.25	FS6
ATOM	12610	CA	ASP	83	183.815	106.792	-91.286	1.00	71.16	FS6	ATOM	12663	CB	MET	89	174.186	115.694	-80.557	1.00	84.43	FS6
ATOM	12611	CB	ASP	83	184.804	105.996	-92.141	1.00	172.18	FS6	ATOM	12664	CG	MET	89	174.603	115.891	-79.160	1.00	84.43	FS6
ATOM	12612	CG	ASP	83	184.687	104.498	-91.922	1.00	172.18	FS6	ATOM	12665	SD	MET	89	175.613	116.952	-78.106	1.00	84.43	FS6
ATOM	12613	OD1	ASP	83	185.411	103.736	-92.598	1.00	172.18	FS6	ATOM	12666	CE	MET	89	174.988	118.565	-78.572	1.00	84.43	FS6
ATOM	12614	OD2	ASP	83	183.874	104.083	-91.069	1.00	172.18	FS6	ATOM	12667	C	MET	89	173.014	115.145	-81.660	1.00	72.25	FS6
ATOM	12615	C	ASP	83	184.207	108.261	-91.275	1.00	71.16	FS6	ATOM	12668	O	MET	89	172.816	116.246	-82.170	1.00	72.25	FS6
ATOM	12616	O	ASP	83	185.011	108.684	-90.451	1.00	71.16	FS6	ATOM	12669	N	VAL	90	172.032	114.317	-81.311	1.00	71.32	FS6
ATOM	12617	N	ASN	84	183.637	109.040	-92.186	1.00	92.91	FS6	ATOM	12670	CA	VAL	90	169.628	114.668	-81.503	1.00	71.32	FS6
ATOM	12618	CA	ASN	84	183.936	110.465	-92.241	1.00	92.91	FS6	ATOM	12671	CB	VAL	90	169.791	113.453	-81.864	1.00	51.00	FS6
ATOM	12619	CB	ASN	84	183.618	111.026	-93.625	1.00	110.56	FS6	ATOM	12672	CG1	VAL	90	168.450	113.917	-82.398	1.00	51.00	FS6
ATOM	12620	CG	ASN	84	184.555	110.503	-94.684	1.00	110.56	FS6	ATOM	12673	CG2	VAL	90	170.531	112.585	-82.867	1.00	51.00	FS6
ATOM	12621	OD1	ASN	84	185.768	110.708	-94.609	1.00	110.56	FS6	ATOM	12674	C	VAL	90	170.066	115.245	-80.211	1.00	71.32	FS6
ATOM	12622	ND2	ASN	84	184.002	109.817	-95.678	1.00	110.56	FS6	ATOM	12675	O	VAL	90	170.142	114.617	-79.161	1.00	71.32	FS6
ATOM	12623	C	ASN	84	183.144	111.218	-91.182	1.00	92.91	FS6	ATOM	12676	N	VAL	91	169.469	116.423	-80.295	1.00	70.25	FS6
ATOM	12624	O	ASN	84	183.404	112.394	-90.917	1.00	92.91	FS6	ATOM	12677	CA	VAL	91	168.953	117.077	-79.106	1.00	70.25	FS6
ATOM	12625	N	VAL	85	182.168	110.532	-90.588	1.00	89.60	FS6	ATOM	12678	CB	VAL	91	169.896	118.246	-78.738	1.00	47.70	FS6
ATOM	12626	CA	VAL	85	181.342	111.113	-89.533	1.00	89.60	FS6	ATOM	12679	CG1	VAL	91	169.155	119.342	-77.970	1.00	47.70	FS6
ATOM	12627	CB	VAL	85	179.969	110.421	-89.426	1.00	77.21	FS6	ATOM	12680	CG2	VAL	91	171.050	117.706	-77.925	1.00	47.70	FS6
ATOM	12628	CG1	VAL	85	179.343	110.725	-88.082	1.00	77.21	FS6	ATOM	12681	C	VAL	91	167.520	117.584	-79.215	1.00	70.25	FS6
ATOM	12629	CG2	VAL	85	179.056	110.903	-90.533	1.00	77.21	FS6	ATOM	12682	O	VAL	91	167.157	118.193	-80.216	1.00	70.25	FS6
ATOM	12630	C	VAL	85	182.073	110.908	-88.221	1.00	89.60	FS6	ATOM	12683	N	LVS	92	166.707	117.340	-78.186	1.00	56.82	FS6
ATOM	12631	O	VAL	85	182.264	109.768	-87.778	1.00	89.60	FS6	ATOM	12684	CA	LVS	92	165.326	117.814	-78.196	1.00	56.82	FS6
ATOM	12632	N	ARG	86	182.477	112.011	-87.602	1.00	73.25	FS6	ATOM	12685	CB	LVS	92	164.594	117.459	-76.907	1.00	61.13	FS6

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ATOM	12666	CG	LYS	92	164.224	116.006	-76.749	1.00	61.13	FS6	ATOM	12739	CD2	LEU	98	167.267	135.886	-74.713	1.00	76.30	FS6
ATOM	12667	CD	LYS	92	163.039	115.884	-75.806	1.00	61.13	FS6	ATOM	12740	C	LEU	98	167.464	134.366	-71.104	1.00	62.83	FS6
ATOM	12668	OE	LYS	92	163.226	114.763	-74.805	1.00	61.13	FS6	ATOM	12741	O	LEU	98	167.297	133.647	-70.126	1.00	62.83	FS6
ATOM	12669	NZ	LYS	92	164.444	114.965	-73.950	1.00	61.13	FS6	ATOM	12742	N	ALA	99	168.202	135.471	-71.081	1.00	75.61	FS6
ATOM	12690	C	LYS	92	165.353	119.321	-78.318	1.00	56.82	FS6	ATOM	12743	CA	ALA	99	168.901	135.941	-69.886	1.00	75.61	FS6
ATOM	12691	O	LYS	92	166.050	119.991	-77.553	1.00	56.82	FS6	ATOM	12744	CB	ALA	99	170.018	134.999	-69.534	1.00	44.58	FS6
ATOM	12692	N	LYS	93	164.607	119.853	-79.281	1.00	73.03	FS6	ATOM	12745	C	ALA	99	169.475	137.315	-70.182	1.00	75.61	FS6
ATOM	12693	CA	LYS	93	164.555	121.296	-79.474	1.00	73.03	FS6	ATOM	12746	O	ALA	99	169.663	137.666	-71.347	1.00	75.61	FS6
ATOM	12694	CB	LYS	93	163.594	121.661	-80.605	1.00	67.28	FS6	ATOM	12747	N	ASN	100	169.758	138.089	-69.138	1.00	96.53	FS6
ATOM	12695	OG	LYS	93	163.923	120.981	-81.798	1.00	67.28	FS6	ATOM	12748	CA	ASN	100	170.318	139.432	-69.310	1.00	96.53	FS6
ATOM	12696	OG	LYS	93	164.033	121.870	-78.177	1.00	73.03	FS6	ATOM	12749	CB	ASN	100	171.640	139.356	-70.079	1.00	100.25	FS6
ATOM	12697	O	LYS	93	163.262	121.215	-77.479	1.00	73.03	FS6	ATOM	12750	CG	ASN	100	172.781	140.044	-69.357	1.00	100.25	FS6
ATOM	12698	N	LYS	94	164.456	123.082	-77.844	1.00	60.50	FS6	ATOM	12751	OD1	ASN	100	172.636	141.160	-68.852	1.00	100.25	FS6
ATOM	12699	CA	LYS	94	163.994	123.714	-76.620	1.00	60.50	FS6	ATOM	12752	NH2	ASN	100	173.935	139.381	-69.316	1.00	100.25	FS6
ATOM	12700	CB	LYS	94	164.955	123.424	-75.474	1.00	74.84	FS6	ATOM	12753	C	ASN	100	169.381	140.397	-70.049	1.00	96.53	FS6
ATOM	12701	CG	LYS	94	164.906	121.987	-75.006	1.00	74.84	FS6	ATOM	12754	O	ASN	100	168.162	139.955	-70.347	1.00	96.53	FS6
ATOM	12702	CD	LYS	94	165.686	121.763	-73.730	1.00	74.84	FS6	ATOM	12755	N	ALA	101	168.162	139.955	-70.347	1.00	144.44	FS6
ATOM	12703	OE1	LYS	94	165.656	120.670	-73.160	1.00	74.84	FS6	ATOM	12756	CA	ALA	101	167.201	140.803	-71.060	1.00	144.44	FS6
ATOM	12704	NE2	LYS	94	166.388	122.796	-73.269	1.00	74.84	FS6	ATOM	12757	CB	ALA	101	166.761	140.131	-72.356	1.00	59.20	FS6
ATOM	12705	C	LYS	94	163.814	125.210	-76.767	1.00	60.50	FS6	ATOM	12758	C	ALA	101	165.976	141.128	-70.205	1.00	144.44	FS6
ATOM	12706	O	LYS	94	164.636	125.889	-77.391	1.00	60.50	FS6	ATOM	12759	O	ALA	101	165.891	140.618	-69.065	1.00	144.44	FS6
ATOM	12707	N	LYS	95	162.719	125.711	-76.198	1.00	58.82	FS6	ATOM	12760	OXT	ALA	101	165.109	141.888	-70.692	1.00	102.76	FS6
ATOM	12708	CA	LYS	95	162.407	127.131	-76.243	1.00	58.82	FS6	ATOM	12761	CB	ALA	1	279.489	117.396	-7.709	1.00	118.45	MS1
ATOM	12709	CB	LYS	95	161.259	127.455	-75.286	1.00	139.01	FS6	ATOM	12762	C	ALA	1	278.381	115.206	-8.134	1.00	68.79	MS1
ATOM	12710	CG	LYS	95	160.091	126.475	-75.338	1.00	139.01	FS6	ATOM	12763	O	ALA	1	277.162	115.128	-8.265	1.00	68.79	MS1
ATOM	12711	CD	LYS	95	160.474	125.068	-74.893	1.00	139.01	FS6	ATOM	12764	N	ALA	1	278.372	116.979	-9.867	1.00	68.79	MS1
ATOM	12712	OE1	LYS	95	161.046	124.917	-73.790	1.00	139.01	FS6	ATOM	12765	CA	ALA	1	279.157	116.353	-8.765	1.00	68.79	MS1
ATOM	12713	OE2	LYS	95	160.199	124.111	-75.648	1.00	139.01	FS6	ATOM	12766	N	ARG	2	279.090	114.313	-7.450	1.00	81.09	MS1
ATOM	12714	C	LYS	95	163.680	127.801	-75.769	1.00	58.82	FS6	ATOM	12767	CA	ARG	2	278.449	113.180	-6.800	1.00	81.09	MS1
ATOM	12715	O	LYS	95	164.290	127.371	-74.791	1.00	58.82	FS6	ATOM	12768	CB	ARG	2	279.043	111.870	-7.300	1.00	153.50	MS1
ATOM	12716	N	LYS	96	164.122	128.848	-76.465	1.00	82.34	FS6	ATOM	12769	CG	ARG	2	279.119	111.785	-8.800	1.00	153.50	MS1
ATOM	12717	CD	LYS	96	163.515	129.593	-77.579	1.00	82.34	FS6	ATOM	12770	CD	ARG	2	278.981	110.355	-9.254	1.00	153.50	MS1
ATOM	12718	CA	LYS	96	165.353	129.491	-76.007	1.00	82.34	FS6	ATOM	12771	NE	ARG	2	279.235	110.223	-10.682	1.00	153.50	MS1
ATOM	12719	CB	LYS	96	165.637	130.505	-77.108	1.00	63.23	FS6	ATOM	12772	CZ	ARG	2	278.979	109.125	-11.382	1.00	153.50	MS1
ATOM	12720	C	LYS	96	164.263	130.914	-77.519	1.00	63.23	FS6	ATOM	12773	NH1	ARG	2	278.451	108.065	-10.785	1.00	153.50	MS1
ATOM	12721	CG	LYS	96	165.169	130.144	-74.644	1.00	82.34	FS6	ATOM	12774	NH2	ARG	2	279.269	109.083	-12.675	1.00	153.50	MS1
ATOM	12722	O	LYS	96	164.285	130.975	-74.458	1.00	82.34	FS6	ATOM	12775	C	ARG	2	278.649	113.282	-5.304	1.00	81.09	MS1
ATOM	12723	N	LYS	97	165.990	129.749	-73.682	1.00	41.91	FS6	ATOM	12776	O	ARG	2	279.744	113.036	-4.810	1.00	81.09	MS1
ATOM	12724	CA	LYS	97	165.908	130.332	-72.369	1.00	41.91	FS6	ATOM	12777	N	ILE	3	277.591	113.639	-4.581	1.00	93.93	MS1
ATOM	12725	CB	LYS	97	166.425	129.346	-71.311	1.00	52.34	FS6	ATOM	12778	CA	ILE	3	277.693	113.780	-3.140	1.00	93.93	MS1
ATOM	12726	CG	LYS	97	166.260	129.831	-69.898	1.00	52.34	FS6	ATOM	12779	CB	ILE	3	276.901	115.010	-2.659	1.00	55.16	MS1
ATOM	12727	CD1	LYS	97	165.098	129.556	-69.187	1.00	52.34	FS6	ATOM	12780	CG2	ILE	3	276.897	115.093	-1.148	1.00	55.16	MS1
ATOM	12728	CD2	LYS	97	167.249	130.603	-69.293	1.00	52.34	FS6	ATOM	12781	CG1	ILE	3	277.558	117.580	-2.602	1.00	55.16	MS1
ATOM	12729	CE1	LYS	97	164.926	130.042	-67.905	1.00	52.34	FS6	ATOM	12782	CG1	ILE	3	277.058	117.538	-2.350	1.00	93.93	MS1
ATOM	12730	CE2	LYS	97	167.085	131.095	-68.010	1.00	52.34	FS6	ATOM	12783	C	ILE	3	277.297	112.538	-2.350	1.00	93.93	MS1
ATOM	12731	CZ	LYS	97	165.924	130.815	-67.315	1.00	52.34	FS6	ATOM	12784	O	ILE	3	278.004	111.533	-2.395	1.00	93.93	MS1
ATOM	12732	C	LYS	97	166.754	131.610	-72.324	1.00	41.91	FS6	ATOM	12785	N	ALA	4	276.179	112.584	-1.634	1.00	75.80	MS1
ATOM	12733	O	LYS	97	167.975	131.554	-72.176	1.00	41.91	FS6	ATOM	12786	CA	ALA	4	275.767	111.445	-0.810	1.00	75.80	MS1
ATOM	12734	N	LYS	98	166.104	132.761	-72.459	1.00	62.83	FS6	ATOM	12787	CB	ALA	4	274.451	111.751	-0.110	1.00	86.33	MS1
ATOM	12735	CA	LYS	98	166.807	134.037	-72.437	1.00	62.83	FS6	ATOM	12788	C	ALA	4	275.651	110.141	-1.583	1.00	75.80	MS1
ATOM	12736	CB	LYS	98	165.854	135.168	-72.797	1.00	76.30	FS6	ATOM	12789	O	ALA	4	275.779	110.118	-2.808	1.00	75.80	MS1
ATOM	12737	CG	LYS	98	165.840	135.608	-74.255	1.00	76.30	FS6	ATOM	12790	N	GLY	5	275.410	109.060	-0.850	1.00	128.52	MS1
ATOM	12738	CD1	LYS	98	164.983	136.863	-74.386	1.00	76.30	FS6	ATOM	12791	CA	GLY	5	275.272	107.758	-1.469	1.00	128.52	MS1

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ATOM	12792	C	GLY	5	274.853	107.840	-2.924	1.00128.52	MS13	ATOM	12845	CA	LVS	12	270.653	122.615	-12.216	1.00	82.15	MS13	
ATOM	12793	O	GLY	5	273.677	108.011	-3.240	1.00128.52	MS13	ATOM	12846	CB	LVS	12	269.597	121.669	-11.647	1.00	88.50	MS13	
ATOM	12794	N	VAL	6	275.837	107.738	-3.810	1.00113.72	MS13	ATOM	12847	CG	LVS	12	268.455	121.347	-12.582	1.00	88.50	MS13	
ATOM	12795	CA	VAL	6	275.624	107.779	-5.252	1.00113.72	MS13	ATOM	12848	CD	LVS	12	267.350	120.620	-11.840	1.00	88.50	MS13	
ATOM	12796	CB	VAL	6	275.143	106.390	-5.781	1.00120.12	MS13	ATOM	12849	CE	LVS	12	266.153	120.422	-12.730	1.00	88.50	MS13	
ATOM	12797	CG1	VAL	6	276.227	105.341	-5.539	1.00120.12	MS13	ATOM	12850	NZ	LVS	12	266.576	119.704	-13.954	1.00	88.50	MS13	
ATOM	12798	CG2	VAL	6	273.835	105.973	-5.102	1.00120.12	MS13	ATOM	12851	C	LVS	12	271.326	123.322	-11.064	1.00	82.15	MS13	
ATOM	12799	C	VAL	6	274.680	108.868	-5.769	1.00113.72	MS13	ATOM	12852	O	LVS	12	272.442	122.972	-10.684	1.00	82.15	MS13	
ATOM	12800	O	VAL	6	273.800	108.600	-6.586	1.00113.72	MS13	ATOM	12853	N	ARG	13	270.652	124.322	-10.510	1.00	47.00	MS13	
ATOM	12801	N	GLU	7	274.874	110.099	-5.305	1.00	84.69	MS13	ATOM	12854	CA	ARG	13	271.189	125.035	-9.362	1.00	47.00	MS13
ATOM	12802	CG	GLU	7	274.043	111.216	-5.753	1.00	84.69	MS13	ATOM	12855	CB	ARG	13	270.124	125.966	-8.804	1.00	56.43	MS13
ATOM	12803	CB	GLU	7	273.850	112.221	-4.619	1.00201.09	MS13	ATOM	12856	CG	ARG	13	269.694	127.008	-9.776	1.00	56.43	MS13	
ATOM	12804	CG	GLU	7	273.007	111.681	-3.481	1.00201.09	MS13	ATOM	12857	CD	ARG	13	268.541	127.775	-9.215	1.00	56.43	MS13	
ATOM	12805	CD	GLU	7	271.629	111.246	-3.944	1.00201.09	MS13	ATOM	12858	NE	ARG	13	268.771	129.217	-9.224	1.00	56.43	MS13	
ATOM	12806	OE1	GLU	7	270.872	112.102	-4.443	1.00201.09	MS13	ATOM	12859	CZ	ARG	13	269.049	129.933	-8.137	1.00	56.43	MS13	
ATOM	12807	OE2	GLU	7	271.305	110.047	-3.815	1.00201.09	MS13	ATOM	12860	NH1	ARG	13	269.134	129.334	-6.952	1.00	56.43	MS13	
ATOM	12808	C	GLU	7	274.691	111.900	-6.956	1.00	84.69	MS13	ATOM	12861	NH2	ARG	13	269.222	131.249	-8.233	1.00	56.43	MS13
ATOM	12809	O	GLU	7	275.883	112.189	-6.939	1.00	84.69	MS13	ATOM	12862	C	ARG	13	271.585	123.987	-8.309	1.00	47.00	MS13
ATOM	12810	N	ILE	8	273.907	112.164	-7.998	1.00127.43	MS13	ATOM	12863	O	ARG	13	270.955	122.938	-8.209	1.00	47.00	MS13	
ATOM	12811	CA	ILE	8	274.461	112.781	-9.197	1.00127.43	MS13	ATOM	12864	N	VAL	14	272.625	124.264	-7.529	1.00	84.22	MS13	
ATOM	12812	CB	ILE	8	274.955	111.695	-10.203	1.00101.69	MS13	ATOM	12865	CA	VAL	14	273.080	123.306	-6.525	1.00	84.22	MS13	
ATOM	12813	CG1	ILE	8	276.366	112.022	-10.669	1.00101.69	MS13	ATOM	12866	CB	VAL	14	274.358	123.802	-5.821	1.00	76.28	MS13	
ATOM	12814	CG2	ILE	8	274.931	110.301	-9.560	1.00101.69	MS13	ATOM	12867	CG1	VAL	14	274.882	122.736	-4.874	1.00	76.28	MS13	
ATOM	12815	CD1	ILE	8	273.549	109.672	-9.455	1.00101.69	MS13	ATOM	12868	CG2	VAL	14	275.410	124.137	-6.858	1.00	76.28	MS13	
ATOM	12816	C	ILE	8	273.523	113.729	-9.957	1.00127.43	MS13	ATOM	12869	C	VAL	14	272.021	122.978	-5.479	1.00	84.22	MS13	
ATOM	12817	O	ILE	8	273.007	113.380	-11.019	1.00127.43	MS13	ATOM	12870	O	VAL	14	271.873	121.819	-5.087	1.00	84.22	MS13	
ATOM	12818	N	PRO	9	273.287	114.940	-9.423	1.00101.51	MS13	ATOM	12871	N	ASP	15	271.292	123.988	-5.018	1.00	114.34	MS13	
ATOM	12819	CD	PRO	9	273.579	115.353	-8.034	1.00	64.96	MS13	ATOM	12872	CA	ASP	15	270.240	123.752	-4.036	1.00	114.34	MS13
ATOM	12820	CB	PRO	9	272.407	115.912	-10.093	1.00101.51	MS13	ATOM	12873	CB	ASP	15	269.509	125.055	-3.715	1.00	86.06	MS13	
ATOM	12821	CG	PRO	9	271.702	116.573	-8.931	1.00	64.96	MS13	ATOM	12874	CG	ASP	15	269.553	126.042	-4.860	1.00	86.06	MS13
ATOM	12822	CG	PRO	9	272.854	116.696	-7.917	1.00	64.96	MS13	ATOM	12875	OD1	ASP	15	269.514	125.596	-6.025	1.00	86.06	MS13
ATOM	12823	C	PRO	9	273.283	116.901	-10.854	1.00101.51	MS13	ATOM	12876	OD2	ASP	15	269.617	127.261	-4.597	1.00	86.06	MS13	
ATOM	12824	O	PRO	9	274.317	117.321	-10.338	1.00101.51	MS13	ATOM	12877	C	ASP	15	269.271	122.737	-4.636	1.00	114.34	MS13	
ATOM	12825	N	ARG	10	272.893	117.286	-12.062	1.00	74.57	MS13	ATOM	12878	O	ASP	15	269.153	121.614	-4.143	1.00	114.34	MS13
ATOM	12826	CA	ARG	10	273.729	118.217	-12.820	1.00	74.57	MS13	ATOM	12879	N	VAL	16	268.589	123.144	-5.703	1.00	76.03	MS13
ATOM	12827	CB	ARG	10	274.669	117.432	-13.742	1.00161.70	MS13	ATOM	12880	CA	VAL	16	267.470	122.776	-7.884	1.00	34.79	MS13	
ATOM	12828	CD	ARG	10	275.734	118.269	-14.437	1.00161.70	MS13	ATOM	12881	CB	VAL	16	267.470	122.776	-7.884	1.00	34.79	MS13	
ATOM	12829	CG	ARG	10	275.384	118.574	-15.890	1.00161.70	MS13	ATOM	12882	CG1	VAL	16	266.710	124.127	-7.915	1.00	34.79	MS13	
ATOM	12830	NE	ARG	10	275.274	117.361	-16.701	1.00161.70	MS13	ATOM	12883	CG2	VAL	16	266.761	124.127	-7.915	1.00	34.79	MS13	
ATOM	12831	CZ	ARG	10	275.184	117.346	-18.030	1.00161.70	MS13	ATOM	12884	C	VAL	16	268.189	120.868	-6.488	1.00	76.03	MS13	
ATOM	12832	NH1	ARG	10	275.193	118.484	-18.711	1.00161.70	MS13	ATOM	12885	O	VAL	16	267.557	119.906	-6.042	1.00	76.03	MS13	
ATOM	12833	NH2	ARG	10	275.079	116.193	-18.680	1.00161.70	MS13	ATOM	12886	N	ALA	17	269.383	120.779	-7.062	1.00	61.77	MS13	
ATOM	12834	C	ARG	10	272.901	119.197	-13.634	1.00	74.57	MS13	ATOM	12887	CA	ALA	17	270.107	119.538	-7.264	1.00	61.77	MS13
ATOM	12835	O	ARG	10	271.694	119.030	-13.757	1.00	74.57	MS13	ATOM	12888	CB	ALA	17	271.434	119.851	-7.915	1.00	61.77	MS13
ATOM	12836	N	ASN	11	273.544	120.227	-14.175	1.00	70.51	MS13	ATOM	12889	C	ALA	17	270.326	118.699	-6.006	1.00	61.77	MS13
ATOM	12837	CA	ASN	11	272.846	121.221	-14.994	1.00	70.51	MS13	ATOM	12890	O	ALA	17	270.199	117.471	-6.030	1.00	61.77	MS13
ATOM	12838	CB	ASN	11	272.217	120.561	-16.221	1.00	87.55	MS13	ATOM	12891	N	LEU	18	270.676	119.350	-4.908	1.00	55.04	MS13
ATOM	12839	CG	ASN	11	272.906	120.955	-17.505	1.00	87.55	MS13	ATOM	12892	CA	LEU	18	270.904	118.617	-3.672	1.00	55.04	MS13
ATOM	12840	OD1	ASN	11	273.359	122.092	-17.658	1.00	87.55	MS13	ATOM	12893	CB	LEU	18	271.436	119.573	-2.606	1.00	69.94	MS13
ATOM	12841	ND2	ASN	11	272.973	120.023	-18.449	1.00	87.55	MS13	ATOM	12894	CG	LEU	18	272.871	120.044	-2.856	1.00	69.94	MS13
ATOM	12842	C	ASN	11	271.763	122.036	-14.289	1.00	70.51	MS13	ATOM	12895	CD1	LEU	18	273.119	121.394	-2.201	1.00	69.94	MS13
ATOM	12843	O	ASN	11	271.035	122.795	-14.934	1.00	70.51	MS13	ATOM	12896	CD2	LEU	18	273.824	118.983	-2.331	1.00	69.94	MS13
ATOM	12844	N	LVS	12	271.648	121.877	-12.978	1.00	82.15	MS13	ATOM	12897	C	LEU	18	269.604	117.964	-3.214	1.00	55.04	MS13

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ATOM	12898	O	LEU	18	269.618	116.932	-2.535	1.00	55.04	MS13	ATOM	12951	CA	GLY	25	264.834	119.150	1.125	1.00	49.91	MS1
ATOM	12899	N	THR	19	268.487	118.573	-3.613	1.00	64.86	MS13	ATOM	12952	C	GLY	25	265.282	120.559	0.809	1.00	49.91	MS1
ATOM	12900	CR	THR	19	267.158	118.090	-3.265	1.00	64.86	MS13	ATOM	12953	O	GLY	25	266.451	120.872	0.991	1.00	49.91	MS1
ATOM	12901	CB	THR	19	266.068	118.963	-3.885	1.00104.36	MS13	ATOM	12954	N	LYS	26	264.366	121.401	0.335	1.00	71.22	MS1	
ATOM	12902	CG1	THR	19	266.235	120.312	-3.442	1.00104.36	MS13	ATOM	12955	CA	LYS	26	264.682	122.788	-0.003	1.00	71.22	MS1	
ATOM	12903	CG2	THR	19	264.994	118.470	-3.471	1.00104.36	MS13	ATOM	12956	CB	LYS	26	263.423	123.522	-0.483	1.00127.75	MS1		
ATOM	12904	C	THR	19	266.959	116.676	-3.762	1.00	64.86	MS13	ATOM	12957	CG	LYS	26	263.355	123.768	-1.990	1.00127.75	MS1	
ATOM	12905	O	THR	19	266.218	115.892	-3.145	1.00	64.86	MS13	ATOM	12958	CD	LYS	26	264.430	124.757	-2.457	1.00127.75	MS1	
ATOM	12906	N	THR	20	267.624	116.362	-4.877	1.00	45.22	MS13	ATOM	12959	CE	LYS	26	264.296	125.075	-3.946	1.00127.75	MS1	
ATOM	12907	CA	THR	20	267.544	115.037	-5.491	1.00	45.22	MS13	ATOM	12960	NZ	LYS	26	265.285	126.091	-4.404	1.00127.75	MS1	
ATOM	12908	CG	THR	20	268.240	115.034	-6.853	1.00	97.56	MS13	ATOM	12961	C	LYS	26	265.269	126.513	1.203	1.00	71.22	MS1
ATOM	12909	CG	THR	20	267.461	115.775	-7.909	1.00	97.56	MS13	ATOM	12962	O	LYS	26	265.875	124.574	1.070	1.00	71.22	MS1
ATOM	12910	CD1	THR	20	267.372	117.163	-7.892	1.00	97.56	MS13	ATOM	12963	N	ALA	27	265.082	122.934	2.382	1.00	79.71	MS1
ATOM	12911	CD2	THR	20	266.628	117.850	-8.851	1.00	97.56	MS13	ATOM	12964	CA	ALA	27	265.596	123.531	3.601	1.00	79.71	MS1
ATOM	12912	CE1	THR	20	266.785	115.084	-8.912	1.00	97.56	MS13	ATOM	12965	CB	ALA	27	264.831	123.003	4.791	1.00	41.54	MS1
ATOM	12913	CE2	THR	20	266.034	115.758	-9.876	1.00	97.56	MS13	ATOM	12966	C	ALA	27	267.081	123.221	3.746	1.00	79.71	MS1
ATOM	12914	CZ	THR	20	265.959	117.142	-9.843	1.00	97.56	MS13	ATOM	12967	O	ALA	27	267.911	124.127	3.786	1.00	79.71	MS1
ATOM	12915	OH	THR	20	265.220	117.817	-10.797	1.00	97.56	MS13	ATOM	12968	N	ARG	28	267.422	121.941	3.821	1.00	53.76	MS1
ATOM	12916	C	THR	20	268.100	113.920	-4.615	1.00	45.22	MS13	ATOM	12969	CA	ARG	28	268.817	121.554	3.956	1.00	53.76	MS1
ATOM	12917	O	THR	20	268.099	112.751	-5.008	1.00	45.22	MS13	ATOM	12970	CB	ARG	28	268.928	120.037	4.098	1.00	43.03	MS1
ATOM	12918	N	ILE	21	268.560	114.290	-3.422	1.00	63.76	MS13	ATOM	12971	CG	ARG	28	268.420	118.070	5.599	1.00	43.03	MS1
ATOM	12919	CA	ILE	21	269.095	113.335	-2.463	1.00	63.76	MS13	ATOM	12972	CD	ARG	28	268.521	117.838	7.032	1.00	43.03	MS1
ATOM	12920	CB	ILE	21	270.244	113.963	-1.670	1.00	68.36	MS13	ATOM	12973	CE	ARG	28	268.536	116.644	7.612	1.00	43.03	MS1
ATOM	12921	CG2	ILE	21	270.811	112.957	-0.665	1.00	68.36	MS13	ATOM	12974	CZ	ARG	28	268.536	116.644	6.883	1.00	43.03	MS1
ATOM	12922	CG1	ILE	21	271.309	114.445	-2.657	1.00	68.36	MS13	ATOM	12975	NH1	ARG	28	268.461	115.539	8.931	1.00	43.03	MS1
ATOM	12923	CD1	ILE	21	272.512	115.084	-2.017	1.00	68.36	MS13	ATOM	12976	NH2	ARG	28	268.670	116.560	2.785	1.00	53.76	MS1
ATOM	12924	C	ILE	21	267.965	112.905	-1.524	1.00	63.76	MS13	ATOM	12977	C	ARG	28	269.660	122.041	2.785	1.00	53.76	MS1
ATOM	12925	O	ILE	21	267.058	113.691	-1.214	1.00	63.76	MS13	ATOM	12978	O	ARG	28	270.881	122.109	2.883	1.00	53.76	MS1
ATOM	12926	N	THR	22	268.016	111.657	-1.075	1.00110.35	MS13	ATOM	12979	N	ALA	29	269.006	122.389	1.682	1.00	78.39	MS1	
ATOM	12927	CA	THR	22	266.963	111.139	-0.224	1.00110.35	MS13	ATOM	12980	CA	ALA	29	269.710	122.884	0.505	1.00	78.39	MS1	
ATOM	12928	CB	THR	22	267.242	109.696	0.187	1.00	82.97	MS13	ATOM	12981	CB	ALA	29	268.738	123.053	-0.657	1.00115.94	MS1	
ATOM	12929	CG	THR	22	266.064	109.098	0.910	1.00	82.97	MS13	ATOM	12982	C	ALA	29	270.389	124.214	0.817	1.00	78.39	MS1
ATOM	12930	CD1	THR	22	264.782	109.176	0.364	1.00	82.97	MS13	ATOM	12983	O	ALA	29	271.616	124.300	0.790	1.00	76.62	MS1
ATOM	12931	CE1	THR	22	263.669	108.690	1.048	1.00	82.97	MS13	ATOM	12984	N	LYS	30	269.586	125.241	1.112	1.00	76.62	MS1
ATOM	12932	CE2	THR	22	265.210	108.509	2.163	1.00	82.97	MS13	ATOM	12985	CA	LYS	30	270.089	126.581	1.435	1.00	76.62	MS1
ATOM	12933	CEZ	THR	22	265.098	108.015	2.861	1.00	82.97	MS13	ATOM	12986	CB	LYS	30	268.943	127.536	1.767	1.00115.94	MS1	
ATOM	12934	CZ	THR	22	263.832	108.112	2.295	1.00	82.97	MS13	ATOM	12987	CG	LYS	30	268.167	128.040	0.574	1.00115.94	MS1	
ATOM	12935	OH	THR	22	262.736	107.641	2.976	1.00	82.97	MS13	ATOM	12988	CD	LYS	30	267.082	129.013	1.021	1.00115.94	MS1	
ATOM	12936	C	THR	22	266.648	111.949	1.017	1.00110.35	MS13	ATOM	12989	CE	LYS	30	265.181	129.426	0.275	1.00115.94	MS1		
ATOM	12937	O	THR	22	265.480	112.155	1.332	1.00110.35	MS13	ATOM	12990	NZ	LYS	30	266.106	130.376	0.275	1.00115.94	MS1		
ATOM	12938	N	GLY	23	267.666	112.412	1.729	1.00	73.05	MS13	ATOM	12991	C	LYS	30	271.052	126.578	2.608	1.00	76.62	MS1
ATOM	12939	CA	GLY	23	267.397	113.176	2.936	1.00	73.05	MS13	ATOM	12992	O	LYS	30	271.936	127.430	2.689	1.00	76.62	MS1
ATOM	12940	C	GLY	23	267.565	114.681	2.834	1.00	73.05	MS13	ATOM	12993	N	GLU	31	270.874	125.629	3.523	1.00	60.76	MS1
ATOM	12941	O	GLY	23	267.756	115.345	3.849	1.00	73.05	MS13	ATOM	12994	CA	GLU	31	271.744	125.544	4.684	1.00	60.76	MS1
ATOM	12942	N	ILE	24	267.498	115.239	1.632	1.00	75.18	MS13	ATOM	12995	CB	GLU	31	271.119	124.664	5.755	1.00	97.74	MS1
ATOM	12943	CA	ILE	24	267.661	116.680	1.500	1.00	75.18	MS13	ATOM	12996	CG	GLU	31	271.742	124.861	7.114	1.00	97.74	MS1
ATOM	12944	CB	ILE	24	268.905	117.039	0.666	1.00	60.15	MS13	ATOM	12997	CD	GLU	31	271.935	123.554	7.840	1.00	97.74	MS1
ATOM	12945	CG2	ILE	24	269.118	118.559	0.661	1.00	60.15	MS13	ATOM	12998	OE1	GLU	31	272.594	122.666	7.262	1.00	97.74	MS1
ATOM	12946	CG1	ILE	24	270.131	116.349	1.257	1.00	60.15	MS13	ATOM	12999	OE2	GLU	31	271.437	123.411	8.977	1.00	97.74	MS1
ATOM	12947	CD1	ILE	24	271.408	116.732	0.578	1.00	60.15	MS13	ATOM	13000	C	GLU	31	273.125	125.005	4.313	1.00	60.76	MS1
ATOM	12948	C	ILE	24	266.459	117.374	0.885	1.00	75.18	MS13	ATOM	13001	O	GLU	31	274.125	125.680	4.527	1.00	60.76	MS1
ATOM	12949	O	ILE	24	265.987	117.003	-0.199	1.00	75.18	MS13	ATOM	13002	N	ALA	32	273.191	123.799	3.756	1.00	86.49	MS1
ATOM	12950	N	GLY	25	265.970	118.385	1.595	1.00	49.91	MS13	ATOM	13003	CA	ALA	32	274.484	123.225	3.368	1.00	86.49	MS1

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ATOM	13004	CB	ALA	32	274.294	121.870	2.697	1.00	65.33	MS13	ATOM	13057	ND2	ASN	39	274.578	131.647	-5.533	1.00	81.63	MS1	
ATOM	13005	C	ALA	32	275.239	124.166	2.435	1.00	86.49	MS13	ATOM	13058	C	ASN	39	275.435	129.188	-4.529	1.00	114.52	MS1	
ATOM	13006	O	ALA	32	276.466	124.173	2.406	1.00	86.49	MS13	ATOM	13059	O	ASN	39	275.688	128.168	-5.171	1.00	114.52	MS1	
ATOM	13007	N	LEU	33	274.501	124.952	1.663	1.00	69.21	MS13	ATOM	13060	N	PRO	40	274.221	129.419	-4.018	1.00	103.17	MS1	
ATOM	13008	CA	LEU	33	275.127	125.907	0.762	1.00	69.21	MS13	ATOM	13061	CD	PRO	40	273.768	130.536	-3.176	1.00	74.08	MS1	
ATOM	13009	CB	LEU	33	274.184	126.276	-0.383	1.00	73.49	MS13	ATOM	13062	CA	PRO	40	273.143	128.448	-4.219	1.00	103.17	MS1	
ATOM	13010	CG	LEU	33	273.915	125.182	-1.420	1.00	73.49	MS13	ATOM	13063	CB	PRO	40	271.997	129.033	-3.404	1.00	74.08	MS1	
ATOM	13011	CD	LEU	33	272.876	125.680	-2.402	1.00	73.49	MS13	ATOM	13064	CG	PRO	40	272.688	129.882	-2.376	1.00	74.08	MS1	
ATOM	13012	CD2	LEU	33	275.196	124.810	-2.150	1.00	73.49	MS13	ATOM	13065	C	PRO	40	272.767	128.305	-5.680	1.00	103.17	MS1	
ATOM	13013	C	LEU	33	275.460	127.144	1.577	1.00	69.21	MS13	ATOM	13066	O	PRO	40	272.296	127.256	-6.112	1.00	103.17	MS1	
ATOM	13014	O	LEU	33	276.345	127.920	1.221	1.00	69.21	MS13	ATOM	13067	N	ALA	41	272.996	129.373	-6.431	1.00	78.11	MS1	
ATOM	13015	N	GLU	34	274.733	127.318	2.675	1.00	71.23	MS13	ATOM	13068	CA	ALA	41	272.652	129.426	-7.840	1.00	78.11	MS1	
ATOM	13016	CA	GLU	34	274.943	128.444	3.575	1.00	71.23	MS13	ATOM	13069	CB	ALA	41	272.457	130.852	-8.228	1.00	11.51	MS1	
ATOM	13017	CB	GLU	34	273.835	128.485	4.631	1.00	143.36	MS13	ATOM	13070	C	ALA	41	273.590	128.755	-9.925	1.00	78.11	MS1	
ATOM	13018	CG	GLU	34	273.740	129.785	5.408	1.00	143.36	MS13	ATOM	13071	O	ALA	41	273.157	128.375	-8.840	1.00	78.11	MS1	
ATOM	13019	CD	GLU	34	273.038	130.879	4.627	1.00	143.36	MS13	ATOM	13072	N	THR	42	274.867	128.618	-8.504	1.00	82.79	MS1	
ATOM	13020	O	GLU	34	273.854	130.688	4.273	1.00	143.36	MS13	ATOM	13073	CA	THR	42	275.801	127.989	-9.433	1.00	82.79	MS1	
ATOM	13021	O	GLU	34	273.668	131.928	4.369	1.00	143.36	MS13	ATOM	13074	CB	THR	42	277.169	127.719	-8.767	1.00	97.88	MS1	
ATOM	13022	C	GLU	34	276.287	128.204	4.249	1.00	71.23	MS13	ATOM	13075	O	GL1	THR	42	276.969	127.072	-7.505	1.00	97.88	MS1
ATOM	13023	O	GLU	34	277.259	128.911	3.987	1.00	71.23	MS13	ATOM	13076	CG2	THR	42	277.934	129.019	-8.562	1.00	97.88	MS1	
ATOM	13024	N	LVS	35	276.327	127.183	5.102	1.00	76.32	MS13	ATOM	13077	C	THR	42	275.251	126.668	-9.969	1.00	82.79	MS1	
ATOM	13025	CA	LVS	35	277.530	126.807	5.838	1.00	76.32	MS13	ATOM	13078	O	THR	42	274.744	125.843	-9.203	1.00	82.79	MS1	
ATOM	13026	CB	LVS	35	277.308	125.483	6.568	1.00	86.81	MS13	ATOM	13079	N	ARG	43	275.337	126.480	-11.287	1.00	60.52	MS1	
ATOM	13027	CG	LVS	35	276.238	125.515	7.632	1.00	86.81	MS13	ATOM	13080	CA	ARG	43	274.868	125.245	-11.922	1.00	60.52	MS1	
ATOM	13028	CD	LVS	35	276.147	124.155	8.299	1.00	86.81	MS13	ATOM	13081	CB	ARG	43	274.940	125.380	-13.447	1.00	93.73	MS1	
ATOM	13029	CE	LVS	35	275.089	124.116	9.398	1.00	86.81	MS13	ATOM	13082	CG	ARG	43	273.595	125.278	-14.160	1.00	93.73	MS1	
ATOM	13030	NZ	LVS	35	275.000	122.770	10.050	1.00	86.81	MS13	ATOM	13083	CD	ARG	43	272.596	126.277	-13.604	1.00	93.73	MS1	
ATOM	13031	C	LVS	35	278.758	126.665	4.943	1.00	76.32	MS13	ATOM	13084	NE	ARG	43	271.248	126.059	-14.119	1.00	93.73	MS1	
ATOM	13032	O	LVS	35	279.751	127.378	5.106	1.00	76.32	MS13	ATOM	13085	CZ	ARG	43	270.166	126.664	-13.642	1.00	93.73	MS1	
ATOM	13033	N	THR	36	278.692	125.730	4.004	1.00	72.45	MS13	ATOM	13086	NH1	ARG	43	270.274	127.521	-12.638	1.00	93.73	MS1	
ATOM	13034	CA	THR	36	279.801	125.485	3.092	1.00	72.45	MS13	ATOM	13087	NH2	ARG	43	268.976	126.420	-14.168	1.00	93.73	MS1	
ATOM	13035	CB	THR	36	279.496	124.237	2.226	1.00	68.25	MS13	ATOM	13088	C	ARG	43	275.785	124.125	-11.445	1.00	60.52	MS1	
ATOM	13036	O	THR	36	279.450	123.079	3.075	1.00	68.25	MS13	ATOM	13089	O	ARG	43	276.994	124.300	-11.425	1.00	60.52	MS1	
ATOM	13037	CG2	THR	36	280.559	124.029	1.164	1.00	68.25	MS13	ATOM	13090	N	VAL	44	275.232	122.986	-11.051	1.00	79.30	MS1	
ATOM	13038	C	THR	36	280.114	126.716	2.227	1.00	72.45	MS13	ATOM	13091	CA	VAL	44	276.076	121.900	-10.563	1.00	79.30	MS1	
ATOM	13039	O	THR	36	281.074	126.733	1.455	1.00	72.45	MS13	ATOM	13092	CB	VAL	44	275.290	120.579	-10.438	1.00	72.67	MS1	
ATOM	13040	N	GLY	37	279.307	127.757	2.389	1.00	69.27	MS13	ATOM	13093	CG1	VAL	44	276.216	119.450	-9.980	1.00	72.67	MS1	
ATOM	13041	CA	GLY	37	279.518	128.983	1.645	1.00	69.27	MS13	ATOM	13094	CG2	VAL	44	274.156	120.760	-9.443	1.00	72.67	MS1	
ATOM	13042	C	GLY	37	279.719	128.801	0.155	1.00	69.27	MS13	ATOM	13095	C	VAL	44	277.309	121.668	-11.434	1.00	79.30	MS1	
ATOM	13043	O	GLY	37	280.810	129.035	-0.384	1.00	69.27	MS13	ATOM	13096	O	VAL	44	278.359	121.260	-10.930	1.00	79.30	MS1	
ATOM	13044	N	ILE	38	278.665	128.367	-0.530	1.00	98.47	MS13	ATOM	13097	N	LVS	45	277.189	121.934	-12.733	1.00	86.69	MS1	
ATOM	13045	CA	ILE	38	278.691	128.167	-1.977	1.00	98.47	MS13	ATOM	13098	CA	LVS	45	278.313	121.757	-13.653	1.00	86.69	MS1	
ATOM	13046	CB	ILE	38	278.369	126.706	-2.389	1.00	65.26	MS13	ATOM	13099	CB	LVS	45	277.831	121.848	-15.100	1.00	81.78	MS1	
ATOM	13047	CG2	ILE	38	278.697	126.510	-3.867	1.00	65.26	MS13	ATOM	13100	CG	LVS	45	276.975	123.061	-15.369	1.00	81.78	MS1	
ATOM	13048	CG1	ILE	38	279.145	125.705	-1.532	1.00	65.26	MS13	ATOM	13101	CD	LVS	45	276.546	123.145	-16.818	1.00	81.78	MS1	
ATOM	13049	CD1	ILE	38	280.585	125.572	-1.905	1.00	65.26	MS13	ATOM	13102	CE	LVS	45	277.721	123.478	-17.721	1.00	81.78	MS1	
ATOM	13050	C	ILE	38	277.541	129.013	-2.494	1.00	98.47	MS13	ATOM	13103	NZ	LVS	45	277.301	123.661	-19.148	1.00	81.78	MS1	
ATOM	13051	O	ILE	38	276.590	129.270	-1.759	1.00	98.47	MS13	ATOM	13104	C	LVS	45	279.409	122.797	-13.415	1.00	86.69	MS1	
ATOM	13052	N	ASN	39	277.616	129.462	-3.739	1.00	114.52	MS13	ATOM	13105	O	LVS	45	280.593	122.462	-13.375	1.00	86.69	MS1	
ATOM	13053	CA	ASN	39	276.509	130.232	-4.275	1.00	114.52	MS13	ATOM	13106	N	ASP	46	279.003	124.053	-13.249	1.00	85.02	MS1	
ATOM	13054	CB	ASN	39	276.890	130.920	-5.581	1.00	81.63	MS13	ATOM	13107	CA	ASP	46	279.936	125.153	-13.029	1.00	85.02	MS1	
ATOM	13055	CG	ASN	39	275.747	131.730	-6.162	1.00	81.63	MS13	ATOM	13108	CB	ASP	46	279.260	126.499	-13.327	1.00	95.39	MS1	
ATOM	13056	OD1	ASN	39	275.913	132.423	-7.168	1.00	81.63	MS13	ATOM	13109	CG	ASP	46	278.758	126.608	-14.760	1.00	95.39	MS1	

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ATOM	13110	OD1	ASP	46	279.512	126.246	-15.686	1.00	95.39	MS13	ATOM	13163	CG2	VAL	53	286.561	118.223	-2.897	1.00	60.54	MS11
ATOM	13111	OD2	ASP	46	277.614	127.073	-14.960	1.00	95.39	MS13	ATOM	13164	C	VAL	53	283.999	119.114	-0.162	1.00	81.93	MS11
ATOM	13112	CG	ASP	46	280.528	125.201	-11.619	1.00	85.02	MS13	ATOM	13165	O	VAL	53	283.831	118.315	-0.759	1.00	81.93	MS11
ATOM	13113	O	ASP	46	281.141	126.194	-11.240	1.00	85.02	MS13	ATOM	13166	N	ARG	54	283.760	120.415	-0.037	1.00	89.10	MS11
ATOM	13114	N	LEU	47	280.351	124.147	-10.835	1.00	80.07	MS13	ATOM	13167	CA	ARG	54	283.257	120.970	1.212	1.00	89.10	MS11
ATOM	13115	CA	LEU	47	280.911	124.143	-9.488	1.00	80.07	MS13	ATOM	13168	CB	ARG	54	283.383	122.491	1.203	1.00	70.43	MS11
ATOM	13116	CB	LEU	47	280.289	123.027	-8.649	1.00	76.30	MS13	ATOM	13169	CG	ARG	54	284.757	122.993	0.812	1.00	70.43	MS11
ATOM	13117	CG	LEU	47	279.024	123.341	-7.854	1.00	76.30	MS13	ATOM	13170	CD	ARG	54	284.837	124.507	0.917	1.00	70.43	MS11
ATOM	13118	CD1	LEU	47	278.580	122.085	-7.119	1.00	76.30	MS13	ATOM	13171	NE	ARG	54	284.099	125.206	-0.134	1.00	70.43	MS11
ATOM	13119	CD2	LEU	47	279.291	124.472	-6.864	1.00	76.30	MS13	ATOM	13172	CZ	ARG	54	283.944	126.566	-0.168	1.00	70.43	MS11
ATOM	13120	CG	LEU	47	282.426	123.957	-9.515	1.00	80.07	MS13	ATOM	13173	NH1	ARG	54	284.473	127.272	0.793	1.00	70.43	MS11
ATOM	13121	O	LEU	47	283.000	123.654	-10.559	1.00	80.07	MS13	ATOM	13174	NH2	ARG	54	283.279	127.104	-1.160	1.00	70.43	MS11
ATOM	13122	N	THR	48	283.063	124.140	-8.359	1.00	70.40	MS13	ATOM	13175	C	ARG	54	281.788	120.567	1.337	1.00	89.10	MS11
ATOM	13123	CA	THR	48	284.513	123.979	-8.216	1.00	70.40	MS13	ATOM	13176	O	ARG	54	281.305	120.271	2.433	1.00	89.10	MS11
ATOM	13124	CB	THR	48	285.127	125.102	-7.354	1.00	74.74	MS13	ATOM	13177	N	LEU	55	281.090	120.565	0.199	1.00	87.28	MS11
ATOM	13125	CG1	THR	48	285.051	126.343	-8.058	1.00	74.74	MS13	ATOM	13178	CA	LEU	55	279.682	120.178	0.123	1.00	87.28	MS11
ATOM	13126	CG2	THR	48	284.807	122.648	-7.535	1.00	70.40	MS13	ATOM	13179	CB	LEU	55	279.119	120.451	-1.270	1.00	67.59	MS11
ATOM	13127	C	THR	48	284.035	122.192	-6.695	1.00	70.40	MS13	ATOM	13180	CG	LEU	55	278.327	121.736	-1.487	1.00	67.59	MS11
ATOM	13128	O	THR	48	285.927	122.029	-7.895	1.00	79.39	MS13	ATOM	13181	CD1	LEU	55	277.999	121.882	-2.966	1.00	67.59	MS11
ATOM	13129	N	GLU	49	286.300	120.751	-7.307	1.00	79.39	MS13	ATOM	13182	CD2	LEU	55	277.055	121.703	-0.647	1.00	67.59	MS11
ATOM	13130	CA	GLU	49	287.581	120.224	-7.948	1.00	41.27	MS13	ATOM	13183	C	LEU	55	279.574	118.691	0.389	1.00	87.28	MS11
ATOM	13131	CB	GLU	49	287.523	118.745	-8.246	1.00	41.27	MS13	ATOM	13184	O	LEU	55	278.781	118.250	1.216	1.00	87.28	MS11
ATOM	13132	CG	GLU	49	286.350	118.397	-9.142	1.00	41.27	MS13	ATOM	13185	N	ARG	56	280.380	117.926	-0.336	1.00	64.44	MS11
ATOM	13133	CD	GLU	49	286.329	118.858	-10.304	1.00	41.27	MS13	ATOM	13186	CA	ARG	56	280.397	116.481	-0.203	1.00	64.44	MS11
ATOM	13134	OE1	GLU	49	285.446	117.670	-8.682	1.00	41.27	MS13	ATOM	13187	CB	ARG	56	281.454	115.877	-1.132	1.00	104.99	MS11
ATOM	13135	OE2	GLU	49	285.509	120.946	-5.813	1.00	79.39	MS13	ATOM	13188	CG	ARG	56	281.405	114.367	-2.276	1.00	104.99	MS11
ATOM	13136	C	GLU	49	286.496	119.997	-5.043	1.00	79.39	MS13	ATOM	13189	CD	ARG	56	282.376	113.846	-2.276	1.00	104.99	MS11
ATOM	13137	O	GLU	49	286.700	122.199	-5.433	1.00	99.19	MS13	ATOM	13190	NE	ARG	56	282.161	114.468	-3.581	1.00	104.99	MS11
ATOM	13138	N	ALA	50	286.912	122.559	-4.043	1.00	99.19	MS13	ATOM	13191	CZ	ARG	56	282.778	114.098	-4.702	1.00	104.99	MS11
ATOM	13139	CA	ALA	50	287.625	123.900	-3.973	1.00	62.99	MS13	ATOM	13192	NH1	ARG	56	283.655	113.100	-4.683	1.00	104.99	MS11
ATOM	13140	CB	ALA	50	285.567	122.635	-3.326	1.00	99.19	MS13	ATOM	13193	NH2	ARG	56	282.520	114.729	-5.844	1.00	104.99	MS11
ATOM	13141	C	ALA	50	285.408	122.114	-2.220	1.00	99.19	MS13	ATOM	13194	C	ARG	56	280.674	116.065	1.229	1.00	64.44	MS11
ATOM	13142	O	ALA	50	284.605	123.292	-3.969	1.00	83.21	MS13	ATOM	13195	O	ARG	56	279.889	115.331	1.821	1.00	64.44	MS11
ATOM	13143	N	GLU	51	283.261	123.449	-3.427	1.00	83.21	MS13	ATOM	13196	N	GLU	57	281.780	116.543	1.793	1.00	96.41	MS11
ATOM	13144	CA	GLU	51	282.441	124.335	-4.356	1.00	78.23	MS13	ATOM	13197	CA	GLU	57	282.146	116.183	3.160	1.00	96.41	MS11
ATOM	13145	CB	GLU	51	283.114	125.654	-4.635	1.00	78.23	MS13	ATOM	13198	CB	GLU	57	283.573	116.644	3.476	1.00	146.60	MS11
ATOM	13146	CG	GLU	51	282.342	126.523	-5.598	1.00	78.23	MS13	ATOM	13199	CG	GLU	57	284.657	115.975	2.625	1.00	146.60	MS11
ATOM	13147	CD	GLU	51	282.205	126.139	-6.779	1.00	78.23	MS13	ATOM	13200	CD	GLU	57	284.668	114.447	2.722	1.00	146.60	MS11
ATOM	13148	OE1	GLU	51	281.871	127.599	-5.171	1.00	78.23	MS13	ATOM	13201	OE1	GLU	57	283.594	113.829	2.154	1.00	146.60	MS11
ATOM	13149	OE2	GLU	51	282.605	122.085	-3.309	1.00	83.21	MS13	ATOM	13202	OE2	GLU	57	283.760	113.861	3.351	1.00	146.60	MS11
ATOM	13150	C	GLU	51	281.911	121.799	-2.341	1.00	83.21	MS13	ATOM	13203	C	GLU	57	281.183	116.715	4.211	1.00	96.41	MS11
ATOM	13151	O	GLU	52	282.840	121.244	-4.340	1.00	55.00	MS13	ATOM	13204	O	GLU	57	280.767	115.974	5.105	1.00	96.41	MS11
ATOM	13152	N	VAL	52	282.282	119.901	-4.313	1.00	55.00	MS13	ATOM	13205	N	TYR	58	280.826	117.990	4.114	1.00	76.22	MS11
ATOM	13153	CA	VAL	52	282.563	119.225	-5.708	1.00	55.70	MS13	ATOM	13206	CA	TYR	58	279.893	118.552	5.082	1.00	76.22	MS11
ATOM	13154	CB	VAL	52	282.034	117.795	-5.712	1.00	55.70	MS13	ATOM	13207	CB	TYR	58	279.516	119.990	4.723	1.00	97.13	MS11
ATOM	13155	CG1	VAL	52	281.908	120.024	-6.817	1.00	55.70	MS13	ATOM	13208	CG	TYR	58	278.341	120.470	5.536	1.00	97.13	MS11
ATOM	13156	CG2	VAL	52	282.822	119.021	-3.218	1.00	55.00	MS13	ATOM	13209	CD1	TYR	58	277.375	120.418	6.927	1.00	97.13	MS11
ATOM	13157	C	VAL	52	282.236	117.986	-2.902	1.00	55.00	MS13	ATOM	13210	CE1	TYR	58	277.274	120.770	7.687	1.00	97.13	MS11
ATOM	13158	O	VAL	53	283.929	119.426	-2.608	1.00	81.93	MS13	ATOM	13211	CD2	TYR	58	276.168	120.900	4.921	1.00	97.13	MS11
ATOM	13159	N	VAL	53	284.501	118.636	-1.523	1.00	81.93	MS13	ATOM	13212	CE2	TYR	58	276.052	121.257	5.676	1.00	97.13	MS11
ATOM	13160	CA	VAL	53	286.049	118.679	-1.540	1.00	60.54	MS13	ATOM	13213	CZ	TYR	58	276.115	121.185	7.060	1.00	97.13	MS11
ATOM	13161	CB	VAL	53	286.610	117.790	-0.431	1.00	60.54	MS13	ATOM	13214	OH	TYR	58	275.018	121.503	7.824	1.00	97.13	MS11
ATOM	13162	CG1	VAL	53						MS13	ATOM	13215	C	TYR	58	278.619	117.712	5.139	1.00	76.22	MS11

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ATOM	13216	O	TYR	58	278.358	117.013	6.119	1.00	76.22	MSI3	ATOM	13269	C	LYS	64	270.985	110.736	6.693	1.00	95.86	MSI
ATOM	13217	N	VAL	59	277.837	117.798	4.070	1.00	65.38	MSI3	ATOM	13270	O	LYS	64	269.775	110.931	6.757	1.00	95.86	MSI
ATOM	13218	CA	VAL	59	276.587	117.070	3.930	1.00	65.38	MSI3	ATOM	13271	N	LEU	65	271.618	110.501	5.548	1.00	82.56	MSI
ATOM	13219	CG	VAL	59	276.098	117.109	2.477	1.00	57.02	MSI3	ATOM	13272	CA	LEU	65	270.916	110.502	4.266	1.00	82.56	MSI
ATOM	13220	CG1	VAL	59	274.973	116.116	2.280	1.00	57.02	MSI3	ATOM	13273	CB	LEU	65	271.652	111.420	3.293	1.00	43.30	MSI
ATOM	13221	CG2	VAL	59	275.641	118.512	2.129	1.00	57.02	MSI3	ATOM	13274	CG	LEU	65	271.985	112.821	3.809	1.00	43.30	MSI
ATOM	13222	C	VAL	59	276.654	115.611	4.348	1.00	65.38	MSI3	ATOM	13275	CD1	LEU	65	273.176	113.372	3.050	1.00	43.30	MSI
ATOM	13223	O	VAL	59	275.933	115.189	5.249	1.00	65.38	MSI3	ATOM	13276	CD2	LEU	65	270.780	113.734	3.663	1.00	43.30	MSI
ATOM	13224	N	GLU	60	277.510	114.841	3.683	1.00	84.80	MSI3	ATOM	13277	C	LEU	65	270.738	109.143	3.599	1.00	82.56	MSI
ATOM	13225	CA	GLU	60	277.630	113.417	3.973	1.00	84.80	MSI3	ATOM	13278	O	LEU	65	270.990	109.097	4.196	1.00	82.56	MSI
ATOM	13226	CG	GLU	60	278.765	112.798	3.156	1.00	103.91	MSI3	ATOM	13279	N	GLU	66	270.297	109.198	2.345	1.00	75.75	MSI
ATOM	13227	CG	GLU	60	278.416	112.655	1.680	1.00	103.91	MSI3	ATOM	13280	CA	GLU	66	270.067	108.030	1.495	1.00	75.75	MSI
ATOM	13228	CD	GLU	60	279.377	111.761	0.923	1.00	103.91	MSI3	ATOM	13281	CB	GLU	66	271.217	107.897	0.494	1.00	86.92	MSI
ATOM	13229	OE1	GLU	60	279.490	110.567	1.277	1.00	103.91	MSI3	ATOM	13282	CG	GLU	66	271.181	108.911	-0.642	1.00	86.92	MSI
ATOM	13230	OE2	GLU	60	280.015	112.253	-0.031	1.00	103.91	MSI3	ATOM	13283	CD	GLU	66	269.920	108.798	-1.487	1.00	86.92	MSI
ATOM	13231	C	GLU	60	277.786	113.048	5.439	1.00	84.80	MSI3	ATOM	13284	OE1	GLU	66	269.403	107.668	-1.634	1.00	86.92	MSI
ATOM	13232	O	GLU	60	277.187	112.070	5.896	1.00	84.80	MSI3	ATOM	13285	OE2	GLU	66	269.453	109.831	-2.016	1.00	86.92	MSI
ATOM	13233	N	ASN	61	278.578	113.820	6.179	1.00	106.26	MSI3	ATOM	13286	C	GLU	66	269.831	106.679	2.172	1.00	75.75	MSI
ATOM	13234	CA	ASN	61	278.777	113.531	7.595	1.00	106.26	MSI3	ATOM	13287	O	GLU	66	269.294	106.604	3.273	1.00	75.75	MSI
ATOM	13235	CB	ASN	61	280.264	113.309	7.890	1.00	132.57	MSI3	ATOM	13288	N	GLY	67	270.063	104.263	1.478	1.00	73.72	MSI
ATOM	13236	CG	ASN	61	280.665	111.840	7.792	1.00	132.57	MSI3	ATOM	13289	CA	GLY	67	270.226	105.617	1.977	1.00	73.72	MSI
ATOM	13237	OD1	ASN	61	281.842	111.498	7.899	1.00	132.57	MSI3	ATOM	13290	C	GLY	67	269.072	103.460	3.481	1.00	73.72	MSI
ATOM	13238	ND2	ASN	61	279.697	110.966	7.597	1.00	132.57	MSI3	ATOM	13291	O	GLY	67	269.072	103.460	3.481	1.00	73.72	MSI
ATOM	13239	C	ASN	61	278.197	114.573	8.545	1.00	106.26	MSI3	ATOM	13292	N	GLU	68	271.011	104.586	4.194	1.00	86.54	MSI
ATOM	13240	O	ASN	61	278.748	114.836	9.610	1.00	106.26	MSI3	ATOM	13293	CA	GLU	68	271.073	104.459	5.651	1.00	86.54	MSI
ATOM	13241	N	THR	62	277.069	115.153	8.149	1.00	88.95	MSI3	ATOM	13294	CB	GLU	68	272.287	105.207	6.193	1.00	125.78	MSI
ATOM	13242	CA	THR	62	276.371	116.143	8.959	1.00	88.95	MSI3	ATOM	13295	CG	GLU	68	272.404	105.171	7.705	1.00	125.78	MSI
ATOM	13243	CB	THR	62	276.461	117.558	8.309	1.00	93.17	MSI3	ATOM	13296	CD	GLU	68	273.543	106.031	8.212	1.00	125.78	MSI
ATOM	13244	OG1	THR	62	275.740	118.534	9.177	1.00	93.17	MSI3	ATOM	13297	OE1	GLU	68	274.661	105.903	7.677	1.00	125.78	MSI
ATOM	13245	CG2	THR	62	275.743	117.586	6.981	1.00	93.17	MSI3	ATOM	13298	OE2	GLU	68	273.329	105.831	9.146	1.00	125.78	MSI
ATOM	13246	C	THR	62	274.904	115.693	9.095	1.00	88.95	MSI3	ATOM	13299	C	GLU	68	269.817	105.000	6.324	1.00	86.54	MSI
ATOM	13247	O	THR	62	274.212	116.051	10.049	1.00	88.95	MSI3	ATOM	13300	O	GLU	68	269.398	104.500	7.367	1.00	86.54	MSI
ATOM	13248	N	TRP	63	274.449	114.885	8.139	1.00	72.57	MSI3	ATOM	13301	N	LEU	69	269.233	106.032	5.721	1.00	84.21	MSI
ATOM	13249	CA	TRP	63	273.085	114.361	8.129	1.00	72.57	MSI3	ATOM	13302	CA	LEU	69	267.770	107.979	6.232	1.00	84.21	MSI
ATOM	13250	CB	TRP	63	272.072	116.548	7.331	1.00	40.04	MSI3	ATOM	13303	CB	LEU	69	267.050	109.085	5.499	1.00	50.46	MSI
ATOM	13251	CG	TRP	63	272.179	117.580	6.340	1.00	40.04	MSI3	ATOM	13304	CG	LEU	69	266.477	110.111	5.296	1.00	50.46	MSI
ATOM	13252	CD2	TRP	63	271.888	118.805	6.979	1.00	40.04	MSI3	ATOM	13305	CD1	LEU	69	265.944	108.485	7.127	1.00	50.46	MSI
ATOM	13253	CE3	TRP	63	272.490	117.590	4.969	1.00	40.04	MSI3	ATOM	13306	CD2	LEU	69	266.821	105.731	6.033	1.00	84.21	MSI
ATOM	13254	CD1	TRP	63	271.736	117.161	8.490	1.00	40.04	MSI3	ATOM	13307	C	LEU	69	266.096	105.436	4.796	1.00	79.17	MSI
ATOM	13255	CE2	TRP	63	271.621	118.519	8.292	1.00	40.04	MSI3	ATOM	13308	O	LEU	69	266.607	105.285	4.796	1.00	79.17	MSI
ATOM	13256	NE1	TRP	63	271.899	120.041	6.299	1.00	40.04	MSI3	ATOM	13309	N	ARG	70	265.502	104.374	4.494	1.00	79.17	MSI
ATOM	13257	CG2	TRP	63	272.439	118.832	4.284	1.00	40.04	MSI3	ATOM	13310	CA	ARG	70	265.572	103.876	3.052	1.00	71.93	MSI
ATOM	13258	CG3	TRP	63	272.202	120.035	4.961	1.00	40.04	MSI3	ATOM	13311	CB	ARG	70	265.659	104.945	2.008	1.00	71.93	MSI
ATOM	13259	CH2	TRP	63	272.064	112.877	7.754	1.00	72.57	MSI3	ATOM	13312	CG	ARG	70	266.076	104.328	0.697	1.00	71.93	MSI
ATOM	13260	C	TRP	63	273.045	112.380	7.045	1.00	95.86	MSI3	ATOM	13313	CD	ARG	70	266.296	105.331	-0.337	1.00	71.93	MSI
ATOM	13261	O	TRP	63	272.035	112.184	8.228	1.00	95.86	MSI3	ATOM	13314	NE	ARG	70	264.052	105.983	-0.967	1.00	71.93	MSI
ATOM	13262	N	LYS	64	271.843	110.766	7.952	1.00	95.86	MSI3	ATOM	13315	C2	ARG	70	265.325	105.983	-0.967	1.00	71.93	MSI
ATOM	13263	CA	LYS	64	271.110	110.118	9.130	1.00	97.12	MSI3	ATOM	13316	NH1	ARG	70	265.633	106.883	-1.893	1.00	71.93	MSI
ATOM	13264	CB	LYS	64	271.100	108.603	9.134	1.00	97.12	MSI3	ATOM	13317	NH2	ARG	70	265.643	103.171	5.406	1.00	79.17	MSI
ATOM	13265	CG	LYS	64	270.763	108.066	10.527	1.00	97.12	MSI3	ATOM	13318	C	ARG	70	264.662	102.526	5.767	1.00	79.17	MSI
ATOM	13266	CE	LYS	64	270.900	106.549	10.593	1.00	97.12	MSI3	ATOM	13319	O	ARG	70	266.885	102.861	5.748	1.00	60.21	MSI
ATOM	13267	CE	LYS	64	270.818	106.028	11.983	1.00	97.12	MSI3	ATOM	13320	N	ALA	71	267.177	101.742	6.620	1.00	60.21	MSI
ATOM	13268	N2	LYS	64						MSI3	ATOM	13321	CA	ALA	71						MSI

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ATOM	13322	CB	ALA	71	268.683	101.575	6.753	1.00111.81	MS13	ATOM	13375	O	LYS	78	258.292	96.351	13.886	1.00	59.87	MS1	
ATOM	13323	C	ALA	71	266.550	102.017	7.987	1.00	60.21	MS13	ATOM	13376	N	ARG	79	259.439	98.263	14.180	1.00	70.76	MS1
ATOM	13324	ALA	ALA	71	265.877	101.155	8.569	1.00	60.21	MS13	ATOM	13377	CA	ARG	79	259.306	98.290	15.635	1.00	70.76	MS1
ATOM	13325	N	GLU	72	266.777	103.228	8.489	1.00	83.47	MS13	ATOM	13378	CB	ARG	79	260.194	99.405	16.191	1.00119.48	MS1	
ATOM	13326	CA	GLU	72	266.246	103.646	9.780	1.00	83.47	MS13	ATOM	13379	CG	ARG	79	260.004	99.699	17.654	1.00119.48	MS1	
ATOM	13327	CB	GLU	72	266.729	105.061	10.103	1.00	94.46	MS13	ATOM	13380	CD	ARG	79	260.748	100.956	18.015	1.00119.48	MS1	
ATOM	13328	CG	GLU	72	266.461	105.509	11.523	1.00	94.46	MS13	ATOM	13381	NE	ARG	79	260.200	101.570	19.216	1.00119.48	MS1	
ATOM	13329	CD	GLU	72	267.126	106.836	11.847	1.00	94.46	MS13	ATOM	13382	CZ	ARG	79	260.587	102.750	19.684	1.00119.48	MS1	
ATOM	13330	OE1	GLU	72	266.713	107.870	11.277	1.00	94.46	MS13	ATOM	13383	NH1	ARG	79	261.526	103.436	19.046	1.00119.48	MS1	
ATOM	13331	OE2	GLU	72	268.068	106.843	12.669	1.00	94.46	MS13	ATOM	13384	NH2	ARG	79	260.034	103.248	20.784	1.00119.48	MS1	
ATOM	13332	OE3	GLU	72	264.720	103.608	9.732	1.00	83.47	MS13	ATOM	13385	C	ARG	79	257.875	98.447	16.170	1.00	70.76	MS1
ATOM	13333	O	GLU	72	264.092	102.763	10.370	1.00	83.47	MS13	ATOM	13386	O	ARG	79	257.329	97.528	16.806	1.00	70.76	MS1
ATOM	13334	N	VAL	73	264.135	104.523	8.961	1.00	66.91	MS13	ATOM	13387	N	LEU	80	257.274	99.611	15.931	1.00	87.02	MS1
ATOM	13335	CA	VAL	73	262.683	104.600	8.818	1.00	66.91	MS13	ATOM	13388	CA	LEU	80	255.915	99.863	16.397	1.00	87.02	MS1
ATOM	13336	CB	VAL	73	262.288	105.410	7.554	1.00	47.06	MS13	ATOM	13389	CB	LEU	80	255.477	101.306	16.069	1.00	48.76	MS1
ATOM	13337	CG1	VAL	73	260.794	105.308	7.314	1.00	47.06	MS13	ATOM	13390	CG	LEU	80	255.684	101.949	14.694	1.00	48.76	MS1
ATOM	13338	CG2	VAL	73	262.674	106.868	7.725	1.00	47.06	MS13	ATOM	13391	CD1	LEU	80	255.419	103.452	14.776	1.00	48.76	MS1
ATOM	13339	C	VAL	73	262.051	103.208	8.741	1.00	66.91	MS13	ATOM	13392	CD2	LEU	80	257.095	101.741	14.249	1.00	48.76	MS1
ATOM	13340	O	VAL	73	261.195	102.851	9.553	1.00	66.91	MS13	ATOM	13393	C	LEU	80	254.976	98.846	15.774	1.00	87.02	MS1
ATOM	13341	N	ALA	74	262.472	102.421	7.761	1.00	63.16	MS13	ATOM	13394	O	LEU	80	253.786	98.804	16.074	1.00	87.02	MS1
ATOM	13342	CA	ALA	74	261.935	101.082	7.609	1.00	63.16	MS13	ATOM	13395	N	MET	81	255.544	98.003	14.924	1.00	59.25	MS1
ATOM	13343	CB	ALA	74	262.695	100.339	6.515	1.00100.44	MS13	ATOM	13396	CA	MET	81	254.798	96.964	14.243	1.00	59.25	MS1	
ATOM	13344	C	ALA	74	262.073	100.357	8.946	1.00	63.16	MS13	ATOM	13397	CB	MET	81	255.251	96.883	12.791	1.00	95.75	MS1
ATOM	13345	O	ALA	74	261.169	99.637	9.380	1.00	63.16	MS13	ATOM	13398	CG	MET	81	254.357	96.056	11.907	1.00	95.75	MS1
ATOM	13346	N	ALA	75	263.214	100.559	9.595	1.00	96.14	MS13	ATOM	13399	SD	MET	81	255.069	95.914	10.268	1.00	95.75	MS1
ATOM	13347	CA	ALA	75	263.476	99.929	10.876	1.00	96.14	MS13	ATOM	13400	CE	MET	81	254.557	97.428	9.538	1.00	95.75	MS1
ATOM	13348	CB	ALA	75	264.896	100.225	11.321	1.00	83.89	MS13	ATOM	13401	C	MET	81	255.032	95.629	14.940	1.00	59.25	MS1
ATOM	13349	C	ALA	75	262.472	100.422	11.913	1.00	96.14	MS13	ATOM	13402	O	MET	81	254.137	94.786	14.989	1.00	59.25	MS1
ATOM	13350	O	ALA	75	261.929	99.618	12.670	1.00	96.14	MS13	ATOM	13403	N	ASP	82	256.238	95.437	15.475	1.00	92.63	MS1
ATOM	13351	N	ASN	76	262.227	101.733	11.951	1.00	85.16	MS13	ATOM	13404	CA	ASP	82	256.564	94.199	16.179	1.00	92.63	MS1
ATOM	13352	CA	ASN	76	261.259	102.301	12.892	1.00	85.16	MS13	ATOM	13405	CB	ASP	82	258.066	94.057	16.370	1.00	93.83	MS1
ATOM	13353	CB	ASN	76	260.965	103.761	12.566	1.00	95.29	MS13	ATOM	13406	CG	ASP	82	258.769	93.679	15.094	1.00	93.83	MS1
ATOM	13354	CG	ASN	76	261.986	104.697	13.146	1.00	95.29	MS13	ATOM	13407	OD1	ASP	82	259.742	94.366	14.729	1.00	93.83	MS1
ATOM	13355	OD1	ASN	76	262.186	104.739	14.361	1.00	95.29	MS13	ATOM	13408	OD2	ASP	82	259.742	94.366	14.729	1.00	93.83	MS1
ATOM	13356	ND2	ASN	76	262.640	105.463	12.285	1.00	95.29	MS13	ATOM	13409	C	ASP	82	255.870	94.171	17.521	1.00	92.63	MS1
ATOM	13357	C	ASN	76	259.962	101.522	12.792	1.00	85.16	MS13	ATOM	13410	O	ASP	82	255.422	93.119	17.977	1.00	92.63	MS1
ATOM	13358	O	ASN	76	259.582	100.807	13.718	1.00	85.16	MS13	ATOM	13411	N	ILE	83	255.798	95.329	18.164	1.00	98.15	MS1
ATOM	13359	N	ILE	77	259.291	101.674	11.652	1.00	78.41	MS13	ATOM	13412	CA	ILE	83	255.096	95.424	19.430	1.00	98.15	MS1
ATOM	13360	CA	ILE	77	258.033	100.989	11.349	1.00	78.41	MS13	ATOM	13413	CB	ILE	83	255.634	96.589	20.264	1.00	73.44	MS1
ATOM	13361	CB	ILE	77	257.766	100.993	9.854	1.00	70.31	MS13	ATOM	13414	CG2	ILE	83	257.069	96.312	20.630	1.00	73.44	MS1
ATOM	13362	CG2	ILE	77	256.689	99.988	9.503	1.00	70.31	MS13	ATOM	13415	CG1	ILE	83	255.565	97.892	19.466	1.00	73.44	MS1
ATOM	13363	CG1	ILE	77	257.391	102.410	9.419	1.00	70.31	MS13	ATOM	13416	CD1	ILE	83	256.105	99.106	20.208	1.00	73.44	MS1
ATOM	13364	CD1	ILE	77	258.976	102.531	7.980	1.00	70.31	MS13	ATOM	13417	C	ILE	83	253.640	95.659	19.028	1.00	98.15	MS1
ATOM	13365	C	ILE	77	258.029	99.553	11.895	1.00	78.41	MS13	ATOM	13418	O	ILE	83	253.371	96.384	18.065	1.00	98.15	MS1
ATOM	13366	O	ILE	77	257.134	99.149	12.638	1.00	78.41	MS13	ATOM	13419	N	GLY	84	252.710	95.025	19.739	1.00105.06	MS1	
ATOM	13367	N	LYS	78	259.043	98.793	11.503	1.00	59.87	MS13	ATOM	13420	CA	GLY	84	251.291	95.146	19.421	1.00105.06	MS1	
ATOM	13368	CA	LYS	78	259.197	97.411	11.926	1.00	59.87	MS13	ATOM	13421	O	GLY	84	250.738	96.549	19.250	1.00105.06	MS1	
ATOM	13369	CB	LYS	78	260.623	96.948	11.607	1.00	69.41	MS13	ATOM	13422	C	GLY	84	249.527	96.755	19.302	1.00105.06	MS1	
ATOM	13370	CG	LYS	78	260.739	95.557	10.997	1.00	69.41	MS13	ATOM	13423	N	CYS	85	251.628	97.510	19.041	1.00	67.99	MS1
ATOM	13371	CD	LYS	78	260.557	94.454	12.012	1.00	69.41	MS13	ATOM	13424	CA	CYS	85	251.262	98.905	18.861	1.00	67.99	MS1
ATOM	13372	CE	LYS	78	260.723	93.093	11.359	1.00	69.41	MS13	ATOM	13425	CB	CYS	85	252.502	99.700	18.462	1.00	73.94	MS1
ATOM	13373	CZ	LYS	78	260.521	91.975	12.329	1.00	69.41	MS13	ATOM	13426	SG	CYS	85	252.173	101.409	18.020	1.00	73.94	MS1
ATOM	13374	C	LYS	78	258.939	97.291	13.428	1.00	59.87	MS13	ATOM	13427	C	CYS	85	250.166	99.125	17.822	1.00	67.99	MS1

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ATOM	13428	O	CYS	85	250.309	98.723	16.663	1.00	67.99	MS13	ATOM	13481	CE1	HIS	91	253.471	102.898	8.976	1.00	59.33	MS1
ATOM	13429	N	TYR	86	249.072	99.760	18.245	1.00	86.53	MS13	ATOM	13482	NE2	HIS	91	253.368	102.993	10.291	1.00	59.33	MS1
ATOM	13430	CA	TYR	86	247.950	100.065	17.351	1.00	86.53	MS13	ATOM	13483	C	HIS	91	250.515	98.098	8.534	1.00	61.54	MS1
ATOM	13431	CG	TYR	86	247.006	101.076	18.016	1.00	73.30	MS13	ATOM	13484	O	HIS	91	250.320	97.944	7.331	1.00	61.54	MS1
ATOM	13432	CG	TYR	86	245.977	101.697	17.084	1.00	73.30	MS13	ATOM	13485	N	ARG	92	250.457	97.103	9.417	1.00	72.42	MS1
ATOM	13433	CD1	TYR	86	244.884	100.959	16.614	1.00	73.30	MS13	ATOM	13486	CA	ARG	92	250.172	95.734	9.016	1.00	72.42	MS1
ATOM	13434	CE1	TYR	86	243.938	101.536	15.766	1.00	73.30	MS13	ATOM	13487	CB	ARG	92	249.890	94.857	10.232	1.00	100.29.51	MS1
ATOM	13435	CE2	TYR	86	246.096	103.029	16.675	1.00	73.30	MS13	ATOM	13488	CG	ARG	92	250.024	94.706	11.208	1.00	100.29.51	MS1
ATOM	13436	CE2	TYR	86	245.157	103.613	15.825	1.00	73.30	MS13	ATOM	13489	CD	ARG	92	250.585	93.776	13.326	1.00	100.29.51	MS1
ATOM	13437	CZ	TYR	86	244.003	102.865	15.378	1.00	73.30	MS13	ATOM	13490	NE	ARG	92	251.617	93.579	13.316	1.00	100.29.51	MS1
ATOM	13438	OH	TYR	86	243.150	103.453	14.550	1.00	73.30	MS13	ATOM	13491	CZ	ARG	92	251.479	92.784	14.383	1.00	100.29.51	MS1
ATOM	13439	C	TYR	86	248.537	100.676	16.089	1.00	86.53	MS13	ATOM	13492	NH1	ARG	92	250.348	92.110	14.564	1.00	100.29.51	MS1
ATOM	13440	O	TYR	86	248.356	100.173	14.981	1.00	86.53	MS13	ATOM	13493	NH2	ARG	92	252.469	92.661	15.260	1.00	100.29.51	MS1
ATOM	13441	N	ARG	87	249.249	101.774	16.288	1.00	89.89	MS13	ATOM	13494	C	ARG	92	248.944	95.710	8.125	1.00	72.42	MS1
ATOM	13442	CA	ARG	87	249.910	102.491	15.213	1.00	63.36	MS13	ATOM	13495	O	ARG	92	249.019	95.278	6.980	1.00	72.42	MS1
ATOM	13443	CB	ARG	87	250.873	103.508	15.821	1.00	89.89	MS13	ATOM	13496	N	ARG	93	247.814	96.171	8.661	1.00	77.48	MS1
ATOM	13444	CG	ARG	87	251.541	104.439	14.848	1.00	89.89	MS13	ATOM	13497	CA	ARG	93	246.554	96.188	7.920	1.00	77.48	MS1
ATOM	13445	CD	ARG	87	252.545	105.280	15.590	1.00	89.89	MS13	ATOM	13498	CB	ARG	93	245.389	96.615	8.823	1.00	100.105.17	MS1
ATOM	13446	NE	ARG	87	253.157	106.278	14.728	1.00	89.89	MS13	ATOM	13499	CG	ARG	93	244.758	95.486	9.640	1.00	100.105.17	MS1
ATOM	13447	CZ	ARG	87	254.191	107.028	15.086	1.00	89.89	MS13	ATOM	13500	CD	ARG	93	244.237	94.365	8.740	1.00	100.105.17	MS1
ATOM	13448	NH1	ARG	87	254.730	106.888	16.293	1.00	89.89	MS13	ATOM	13501	NE	ARG	93	243.446	93.372	9.471	1.00	100.105.17	MS1
ATOM	13449	NH2	ARG	87	254.678	107.927	14.241	1.00	89.89	MS13	ATOM	13502	CZ	ARG	93	243.023	92.217	8.957	1.00	100.105.17	MS1
ATOM	13450	C	ARG	87	250.674	101.505	14.333	1.00	63.36	MS13	ATOM	13503	NH1	ARG	93	243.314	91.892	7.702	1.00	100.105.17	MS1
ATOM	13451	O	ARG	87	250.821	101.711	13.133	1.00	63.36	MS13	ATOM	13504	NH2	ARG	93	242.307	91.382	9.697	1.00	100.105.17	MS1
ATOM	13452	N	GLY	88	251.163	100.431	14.937	1.00	82.70	MS13	ATOM	13505	C	ARG	93	246.606	97.095	6.705	1.00	77.48	MS1
ATOM	13453	CA	GLY	88	251.895	99.442	14.171	1.00	82.70	MS13	ATOM	13506	O	ARG	93	245.789	96.965	5.802	1.00	50.48	MS1
ATOM	13454	C	GLY	88	250.964	98.554	13.371	1.00	82.70	MS13	ATOM	13507	N	GLY	94	247.556	98.020	6.687	1.00	50.48	MS1
ATOM	13455	O	GLY	88	251.287	98.132	12.254	1.00	82.70	MS13	ATOM	13508	CA	GLY	94	247.688	98.916	5.554	1.00	50.48	MS1
ATOM	13456	N	LEU	89	249.804	98.265	13.952	1.00	45.32	MS13	ATOM	13509	C	GLY	94	246.738	100.098	5.474	1.00	50.48	MS1
ATOM	13457	CA	LEU	89	248.808	97.432	13.296	1.00	45.32	MS13	ATOM	13510	O	GLY	94	246.532	100.636	6.598	1.00	48.04	MS1
ATOM	13458	CB	LEU	89	247.684	97.098	14.281	1.00	82.51	MS13	ATOM	13511	N	LEU	95	246.164	100.514	4.395	1.00	48.04	MS1
ATOM	13459	CG	LEU	89	248.202	96.429	15.562	1.00	82.51	MS13	ATOM	13512	CA	LEU	95	245.247	101.657	6.619	1.00	48.04	MS1
ATOM	13460	CD1	LEU	89	247.062	96.217	16.536	1.00	82.51	MS13	ATOM	13513	CB	LEU	95	244.029	100.331	7.461	1.00	67.67	MS1
ATOM	13461	CD2	LEU	89	248.870	95.105	15.220	1.00	45.32	MS13	ATOM	13514	CG	LEU	95	243.370	100.033	6.982	1.00	67.67	MS1
ATOM	13462	C	LEU	89	248.268	98.171	12.078	1.00	45.32	MS13	ATOM	13515	CD1	LEU	95	242.359	99.553	8.008	1.00	67.67	MS1
ATOM	13463	O	LEU	89	247.963	97.561	11.059	1.00	45.32	MS13	ATOM	13516	CD2	LEU	95	242.731	100.292	5.620	1.00	67.67	MS1
ATOM	13464	N	ARG	90	248.174	99.493	12.178	1.00	61.24	MS13	ATOM	13517	C	LEU	95	245.947	102.878	7.200	1.00	48.04	MS1
ATOM	13465	CA	ARG	90	247.681	100.293	11.063	1.00	61.24	MS13	ATOM	13518	O	LEU	95	246.993	102.750	7.010	1.00	50.63	MS1
ATOM	13466	CB	ARG	90	247.534	101.762	11.473	1.00	66.34	MS13	ATOM	13519	N	PRO	96	245.381	104.081	7.010	1.00	50.63	MS1
ATOM	13467	CG	ARG	90	246.469	101.975	12.529	1.00	66.34	MS13	ATOM	13520	CD	PRO	96	244.091	104.428	6.396	1.00	39.86	MS1
ATOM	13468	CD	ARG	90	245.113	101.428	12.076	1.00	66.34	MS13	ATOM	13521	CA	PRO	96	246.048	105.271	7.559	1.00	50.63	MS1
ATOM	13469	NE	ARG	90	244.368	102.376	11.246	1.00	66.34	MS13	ATOM	13522	CB	PRO	96	243.097	106.416	7.191	1.00	39.86	MS1
ATOM	13470	CZ	ARG	90	243.120	102.180	10.822	1.00	66.34	MS13	ATOM	13523	CG	PRO	96	243.771	105.744	7.065	1.00	39.86	MS1
ATOM	13471	NH1	ARG	90	242.478	101.065	11.147	1.00	66.34	MS13	ATOM	13524	C	PRO	96	246.367	105.168	9.055	1.00	50.63	MS1
ATOM	13472	NH2	ARG	90	242.509	103.106	10.089	1.00	66.34	MS13	ATOM	13525	O	PRO	96	245.580	104.658	9.860	1.00	50.63	MS1
ATOM	13473	C	ARG	90	248.628	100.156	9.881	1.00	61.24	MS13	ATOM	13526	N	VAL	97	247.547	105.658	10.470	1.00	72.58	MS1
ATOM	13474	O	ARG	90	248.282	100.464	8.740	1.00	61.24	MS13	ATOM	13527	CA	VAL	97	248.040	105.575	10.770	1.00	72.58	MS1
ATOM	13475	N	HIS	91	249.838	99.695	10.161	1.00	61.54	MS13	ATOM	13528	CB	VAL	97	249.502	105.095	10.756	1.00	100.103.00	MS1
ATOM	13476	CA	HIS	91	250.802	99.480	9.101	1.00	61.54	MS13	ATOM	13529	CG1	VAL	97	249.852	104.451	12.074	1.00	100.103.00	MS1
ATOM	13477	CB	HIS	91	252.213	99.570	9.659	1.00	59.33	MS13	ATOM	13530	CG2	VAL	97	249.721	104.128	9.602	1.00	100.103.00	MS1
ATOM	13478	CG	HIS	91	252.729	100.968	9.735	1.00	59.33	MS13	ATOM	13531	C	VAL	97	247.975	106.869	11.568	1.00	72.58	MS1
ATOM	13479	CD2	HIS	91	252.907	101.798	10.790	1.00	59.33	MS13	ATOM	13532	O	VAL	97	248.464	106.929	12.692	1.00	72.58	MS1
ATOM	13480	ND1	HIS	91	253.091	101.685	8.614	1.00	59.33	MS13	ATOM	13533	N	ARG	98	247.379	107.908	11.003	1.00	58.61	MS1

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ATOM	13534	CA	ARG	98	247.310	109.174	11.723	1.00	58.61	MS13	ATOM	13587	CA	THR	104	235.913	107.328	2.433	1.00	71.67	MS1
ATOM	13535	CB	ARG	98	248.083	110.256	10.960	1.00	67.23	MS13	ATOM	13588	CB	THR	104	234.849	108.413	2.121	1.00	37.79	MS1
ATOM	13536	CG	ARG	98	249.548	109.881	10.794	1.00	67.23	MS13	ATOM	13589	CG1	THR	104	234.943	109.478	3.067	1.00	37.79	MS1
ATOM	13537	CD	ARG	98	250.422	111.032	10.336	1.00	67.23	MS13	ATOM	13590	CG2	THR	104	233.460	107.825	2.161	1.00	37.79	MS1
ATOM	13538	NE	ARG	98	251.826	110.625	10.317	1.00	67.23	MS13	ATOM	13591	C	THR	104	237.302	107.941	2.444	1.00	71.67	MS1
ATOM	13539	CZ	ARG	98	252.832	111.399	9.926	1.00	67.23	MS13	ATOM	13592	O	THR	104	237.981	107.855	3.458	1.00	71.67	MS1
ATOM	13540	NH1	ARG	98	252.603	112.641	9.512	1.00	67.23	MS13	ATOM	13593	N	ASN	105	237.727	108.538	1.333	1.00	64.72	MS1
ATOM	13541	NH2	ARG	98	254.071	110.925	9.948	1.00	67.23	MS13	ATOM	13594	CA	ASN	105	239.046	109.172	1.235	1.00	64.72	MS1
ATOM	13542	C	ARG	98	245.892	109.626	12.036	1.00	58.61	MS13	ATOM	13595	CB	ASN	105	238.979	110.624	1.707	1.00	68.98	MS1
ATOM	13543	O	ARG	98	245.529	110.794	11.853	1.00	58.61	MS13	ATOM	13596	CG	ASN	105	237.867	111.390	1.066	1.00	68.98	MS1
ATOM	13544	GLY	99	245.103	108.675	12.525	1.00	76.98	MS13	ATOM	13597	OD1	ASN	105	237.783	111.487	-0.154	1.00	68.98	MS1	
ATOM	13545	CA	GLY	99	243.729	108.945	12.897	1.00	76.98	MS13	ATOM	13598	ND2	ASN	105	236.996	111.948	1.888	1.00	68.98	MS1
ATOM	13546	C	GLY	99	242.904	109.682	11.870	1.00	76.98	MS13	ATOM	13599	C	ASN	105	240.170	108.486	2.014	1.00	64.72	MS1
ATOM	13547	O	GLY	99	242.367	110.751	12.152	1.00	76.98	MS13	ATOM	13600	O	ASN	105	240.501	108.893	3.134	1.00	64.72	MS1
ATOM	13548	N	GLN	100	242.808	109.125	10.672	1.00	75.39	MS13	ATOM	13601	N	ALA	106	240.775	107.466	1.422	1.00	67.93	MS1
ATOM	13549	CA	GLN	100	242.004	109.748	9.641	1.00	75.39	MS13	ATOM	13602	CA	ALA	106	241.870	106.764	2.078	1.00	67.93	MS1
ATOM	13550	CB	GLN	100	242.778	109.840	8.329	1.00	57.71	MS13	ATOM	13603	CB	ALA	106	241.326	105.786	3.103	1.00	69.83	MS1
ATOM	13551	CG	GLN	100	244.028	110.721	8.409	1.00	57.71	MS13	ATOM	13604	C	ALA	106	242.617	106.015	1.001	1.00	67.93	MS1
ATOM	13552	CD	GLN	100	245.326	109.929	8.318	1.00	57.71	MS13	ATOM	13605	O	ALA	106	243.392	105.098	1.284	1.00	67.93	MS1
ATOM	13553	OE1	GLN	100	245.472	108.881	8.950	1.00	57.71	MS13	ATOM	13606	N	ARG	107	242.372	106.430	-0.238	1.00	78.35	MS1
ATOM	13554	NE2	GLN	100	246.278	110.434	7.537	1.00	57.71	MS13	ATOM	13607	CA	ARG	107	242.948	105.794	-1.412	1.00	78.35	MS1
ATOM	13555	C	GLN	100	240.769	108.880	9.486	1.00	75.39	MS13	ATOM	13608	CB	ARG	107	242.332	106.399	-2.678	1.00	54.18	MS1
ATOM	13556	O	GLN	100	240.633	107.856	10.168	1.00	75.39	MS13	ATOM	13609	CG	ARG	107	240.794	106.403	-2.703	1.00	54.18	MS1
ATOM	13557	N	ARG	101	239.857	109.296	8.614	1.00	64.02	MS13	ATOM	13610	CD	ARG	107	240.163	105.176	-2.027	1.00	54.18	MS1
ATOM	13558	CA	ARG	101	238.628	108.542	8.391	1.00	64.02	MS13	ATOM	13611	NE	ARG	107	240.772	103.914	-2.433	1.00	54.18	MS1
ATOM	13559	CB	ARG	101	237.510	109.469	7.906	1.00	77.75	MS13	ATOM	13612	C2	ARG	107	240.282	102.713	-2.140	1.00	54.18	MS1
ATOM	13560	CG	ARG	101	237.939	110.447	6.833	1.00	77.75	MS13	ATOM	13613	NH1	ARG	107	239.165	102.593	-1.437	1.00	54.18	MS1
ATOM	13561	CD	ARG	101	236.814	110.722	5.852	1.00	77.75	MS13	ATOM	13614	NH2	ARG	107	240.910	101.623	-2.552	1.00	54.18	MS1
ATOM	13562	NE	ARG	101	235.621	111.305	6.466	1.00	77.75	MS13	ATOM	13615	C	ARG	107	244.460	105.831	-1.509	1.00	78.35	MS1
ATOM	13563	C2	ARG	101	234.452	110.682	6.576	1.00	77.75	MS13	ATOM	13616	O	ARG	107	245.084	104.890	-1.999	1.00	78.35	MS1
ATOM	13564	NH1	ARG	101	234.305	109.444	7.122	1.00	77.75	MS13	ATOM	13617	N	THR	108	246.503	107.066	-1.041	1.00	48.35	MS1
ATOM	13565	NH2	ARG	101	233.421	111.308	7.122	1.00	77.75	MS13	ATOM	13618	CA	THR	108	246.503	107.066	-1.041	1.00	48.35	MS1
ATOM	13566	C	ARG	101	238.880	107.472	7.354	1.00	64.02	MS13	ATOM	13619	CB	THR	108	246.896	108.468	-0.564	1.00	36.99	MS1
ATOM	13567	O	ARG	101	239.579	107.721	6.381	1.00	64.02	MS13	ATOM	13620	CG1	THR	108	248.261	108.748	-0.875	1.00	36.99	MS1
ATOM	13568	N	THR	102	238.322	106.285	7.555	1.00	52.52	MS13	ATOM	13621	CG2	THR	108	246.698	108.533	0.927	1.00	36.99	MS1
ATOM	13569	CA	THR	102	238.525	105.226	6.584	1.00	52.52	MS13	ATOM	13622	C	THR	108	247.202	105.969	-0.267	1.00	48.35	MS1
ATOM	13570	CB	THR	102	239.261	104.032	7.200	1.00	59.37	MS13	ATOM	13623	O	THR	108	248.358	105.639	-0.500	1.00	48.35	MS1
ATOM	13571	CG1	THR	102	238.487	103.497	8.272	1.00	59.37	MS13	ATOM	13624	N	ARG	109	246.475	105.393	0.680	1.00	46.03	MS1
ATOM	13572	CG2	THR	102	240.615	104.454	7.723	1.00	59.37	MS13	ATOM	13625	CA	ARG	109	247.016	104.358	1.544	1.00	46.03	MS1
ATOM	13573	C	THR	102	237.228	104.729	5.946	1.00	52.52	MS13	ATOM	13626	CB	ARG	109	246.651	104.651	3.004	1.00	64.40	MS1
ATOM	13574	O	THR	102	237.171	103.606	5.422	1.00	52.52	MS13	ATOM	13627	CG	ARG	109	247.557	103.990	4.018	1.00	64.40	MS1
ATOM	13575	N	ARG	103	236.191	105.566	5.995	1.00	44.81	MS13	ATOM	13628	CD	ARG	109	248.617	104.968	4.520	1.00	64.40	MS1
ATOM	13576	CA	ARG	103	234.900	105.236	5.408	1.00	44.81	MS13	ATOM	13629	NE	ARG	109	249.907	104.325	4.767	1.00	64.40	MS1
ATOM	13577	CB	ARG	103	233.772	105.952	6.150	1.00	76.29	MS13	ATOM	13630	C2	ARG	109	250.085	103.245	5.526	1.00	64.40	MS1
ATOM	13578	CG	ARG	103	232.368	105.631	5.632	1.00	76.29	MS13	ATOM	13631	NH1	ARG	109	249.057	102.663	6.130	1.00	64.40	MS1
ATOM	13579	CD	ARG	103	231.296	106.279	6.496	1.00	76.29	MS13	ATOM	13632	NH2	ARG	109	251.302	102.739	5.683	1.00	64.40	MS1
ATOM	13580	CE	ARG	103	229.944	105.894	6.109	1.00	76.29	MS13	ATOM	13633	C	ARG	109	246.466	102.996	1.162	1.00	64.40	MS1
ATOM	13581	C2	ARG	103	228.844	106.297	6.740	1.00	76.29	MS13	ATOM	13634	O	ARG	109	247.136	101.991	1.338	1.00	46.03	MS1
ATOM	13582	NH1	ARG	103	228.933	107.100	7.791	1.00	76.29	MS13	ATOM	13635	N	LYS	110	245.240	102.968	0.649	1.00	73.95	MS1
ATOM	13583	NH2	ARG	103	227.651	105.894	6.329	1.00	76.29	MS13	ATOM	13636	CA	LYS	110	244.588	101.717	0.256	1.00	73.95	MS1
ATOM	13584	C	ARG	103	234.959	105.721	3.976	1.00	44.81	MS13	ATOM	13637	CB	LYS	110	243.070	101.868	0.284	1.00	63.38	MS1
ATOM	13585	O	ARG	103	234.314	105.174	3.092	1.00	44.81	MS13	ATOM	13638	CG	LYS	110	242.390	101.934	1.629	1.00	63.38	MS1
ATOM	13586	N	THR	104	235.738	106.769	3.759	1.00	71.67	MS13	ATOM	13639	CD	LYS	110	240.928	101.586	1.391	1.00	63.38	MS1

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ATOM	13640	CE	LYS	110	240.041	101.953	2.540	1.00	63.38	MS13	ATOM	13693	O	ALA	117	228.437	94.663	-3.142	1.00	98.17	MS1
ATOM	13641	NZ	LYS	110	238.635	101.659	2.181	1.00	63.38	MS13	ATOM	13694	N	GLY	118	226.736	95.573	-4.301	1.00	91.96	MS1
ATOM	13642	GLY	LYS	110	244.949	101.212	-1.141	1.00	73.95	MS13	ATOM	13695	CA	GLY	118	226.126	96.105	-3.093	1.00	91.96	MS1
ATOM	13643	O	LYS	110	244.997	100.003	-1.384	1.00	73.95	MS13	ATOM	13696	C	GLY	118	224.672	96.522	-3.209	1.00	91.96	MS1
ATOM	13644	N	GLY	111	245.172	102.141	-2.063	1.00	46.12	MS13	ATOM	13697	O	GLY	118	224.088	96.464	-4.291	1.00	91.96	MS1
ATOM	13645	C	GLY	111	245.481	101.767	-3.426	1.00	46.12	MS13	ATOM	13698	N	LYS	119	224.094	96.944	-2.084	1.00	171.35	MS1
ATOM	13646	CA	GLY	111	244.285	102.153	-4.270	1.00	46.12	MS13	ATOM	13699	CA	LYS	119	222.700	97.382	-2.021	1.00	171.35	MS1
ATOM	13647	O	GLY	111	243.552	103.072	-3.909	1.00	46.12	MS13	ATOM	13700	CB	LYS	119	222.275	97.557	-0.563	1.00	104.38	MS1
ATOM	13648	N	PRO	112	244.057	101.483	-5.404	1.00	77.97	MS13	ATOM	13701	CG	LYS	119	220.900	98.184	-0.378	1.00	104.38	MS1
ATOM	13649	CD	PRO	112	245.034	100.668	-6.137	1.00	77.97	MS13	ATOM	13702	CD	LYS	119	220.501	98.177	1.089	1.00	104.38	MS1
ATOM	13650	CA	PRO	112	242.913	101.810	-6.264	1.00	77.97	MS13	ATOM	13703	CE	LYS	119	219.252	99.001	1.349	1.00	104.38	MS1
ATOM	13651	CB	PRO	112	243.278	101.141	-7.583	1.00	73.84	MS13	ATOM	13704	NZ	LYS	119	218.934	99.043	2.803	1.00	104.38	MS1
ATOM	13652	CG	PRO	112	244.784	101.111	-7.542	1.00	73.84	MS13	ATOM	13705	C	LYS	119	222.490	98.687	-2.782	1.00	171.35	MS1
ATOM	13653	C	PRO	112	241.611	101.266	-5.691	1.00	77.97	MS13	ATOM	13706	O	LYS	119	223.371	99.548	-2.802	1.00	171.35	MS1
ATOM	13654	O	PRO	112	241.627	100.306	-4.915	1.00	77.97	MS13	ATOM	13707	N	LYS	120	221.312	98.838	-3.385	1.00	123.84	MS1
ATOM	13655	N	ARG	113	240.485	101.868	-6.067	1.00	85.78	MS13	ATOM	13708	CA	LYS	120	221.000	100.022	-4.184	1.00	123.84	MS1
ATOM	13656	CA	ARG	113	239.206	101.391	-5.554	1.00	85.78	MS13	ATOM	13709	CB	LYS	120	220.701	99.577	-5.622	1.00	158.90	MS1
ATOM	13657	CB	ARG	113	238.038	102.241	-6.053	1.00	61.21	MS13	ATOM	13710	CG	LYS	120	221.846	98.766	-6.228	1.00	158.90	MS1
ATOM	13658	CG	ARG	113	237.888	103.550	-5.321	1.00	61.21	MS13	ATOM	13711	CD	LYS	120	221.455	97.997	-7.479	1.00	158.90	MS1
ATOM	13659	CD	ARG	113	236.540	104.195	-5.575	1.00	61.21	MS13	ATOM	13712	CE	LYS	120	222.587	97.065	-7.890	1.00	158.90	MS1
ATOM	13660	NE	ARG	113	236.636	105.641	-5.433	1.00	61.21	MS13	ATOM	13713	NZ	LYS	120	222.228	96.202	-9.043	1.00	158.90	MS1
ATOM	13661	NI	ARG	113	236.924	106.271	-4.298	1.00	61.21	MS13	ATOM	13714	C	LYS	120	219.870	100.905	-3.649	1.00	123.84	MS1
ATOM	13662	NH1	ARG	113	237.134	105.585	-3.180	1.00	61.21	MS13	ATOM	13715	O	LYS	120	219.935	101.367	-2.512	1.00	123.84	MS1
ATOM	13663	NH2	ARG	113	237.041	107.593	-4.292	1.00	61.21	MS13	ATOM	13716	N	LYS	121	218.853	101.133	-4.485	1.00	189.13	MS1
ATOM	13664	C	ARG	113	238.987	99.944	-5.941	1.00	85.78	MS13	ATOM	13717	CA	LYS	121	217.683	101.969	-4.171	1.00	189.13	MS1
ATOM	13665	O	ARG	113	239.260	99.533	-7.069	1.00	85.78	MS13	ATOM	13718	CB	LYS	121	216.448	101.099	-3.889	1.00	79.20	MS1
ATOM	13666	N	LYS	114	238.476	99.178	-4.989	1.00	62.54	MS13	ATOM	13719	CG	LYS	121	215.091	103.028	-4.127	1.00	79.20	MS1
ATOM	13667	CA	LYS	114	238.239	97.763	-5.189	1.00	62.54	MS13	ATOM	13720	CD	LYS	121	214.859	103.079	-3.232	1.00	79.20	MS1
ATOM	13668	CB	LYS	114	238.985	96.997	-4.102	1.00	52.34	MS13	ATOM	13721	CE	LYS	121	213.507	103.675	-3.515	1.00	79.20	MS1
ATOM	13669	CG	LYS	114	240.272	97.711	-3.668	1.00	52.34	MS13	ATOM	13722	NZ	LYS	121	213.307	104.913	-2.724	1.00	79.20	MS1
ATOM	13670	CD	LYS	114	240.847	97.125	-2.401	1.00	52.34	MS13	ATOM	13723	C	LYS	121	217.896	102.929	-3.217	1.00	189.13	MS1
ATOM	13671	CE	LYS	114	240.995	95.638	-2.570	1.00	52.34	MS13	ATOM	13724	O	LYS	121	218.058	104.131	-3.009	1.00	189.13	MS1
ATOM	13672	NZ	LYS	114	241.476	95.325	-3.950	1.00	52.34	MS13	ATOM	13725	N	ALA	122	217.872	102.392	-1.786	1.00	201.09	MS1
ATOM	13673	C	LYS	114	236.746	97.488	-5.110	1.00	62.54	MS13	ATOM	13726	CA	ALA	122	218.067	103.178	-0.567	1.00	201.09	MS1
ATOM	13674	O	LYS	114	236.286	96.769	-4.224	1.00	62.54	MS13	ATOM	13727	CB	ALA	122	218.608	102.277	0.566	1.00	90.79	MS1
ATOM	13675	N	THR	115	236.000	98.060	-6.052	1.00	47.04	MS13	ATOM	13728	C	ALA	122	219.037	104.327	-0.832	1.00	201.09	MS1
ATOM	13676	CA	THR	115	234.546	97.915	-6.110	1.00	47.04	MS13	ATOM	13729	O	ALA	122	220.253	104.149	-0.756	1.00	201.09	MS1
ATOM	13677	CG	THR	115	234.016	98.418	-7.464	1.00	50.46	MS13	ATOM	13730	N	PRO	123	218.504	105.525	-1.143	1.00	201.09	MS1
ATOM	13678	CB	THR	115	234.268	99.827	-7.576	1.00	50.46	MS13	ATOM	13731	CD	PRO	123	217.068	105.867	-1.067	1.00	152.95	MS1
ATOM	13679	CG	THR	115	232.531	98.169	-7.583	1.00	50.46	MS13	ATOM	13732	CA	PRO	123	219.301	106.722	-1.430	1.00	201.09	MS1
ATOM	13680	C	THR	115	234.005	96.509	-5.832	1.00	47.04	MS13	ATOM	13733	CB	PRO	123	218.359	107.850	-1.029	1.00	152.95	MS1
ATOM	13681	O	THR	115	234.656	95.508	-6.112	1.00	47.04	MS13	ATOM	13734	CG	PRO	123	217.042	107.326	-1.516	1.00	152.95	MS1
ATOM	13682	N	VAL	116	232.139	95.209	-4.897	1.00	65.80	MS13	ATOM	13735	C	PRO	123	220.663	106.798	-0.733	1.00	201.09	MS1
ATOM	13683	CA	VAL	116	232.808	95.460	-5.255	1.00	65.80	MS13	ATOM	13736	O	PRO	123	220.804	107.409	0.330	1.00	201.09	MS1
ATOM	13684	CB	VAL	116	232.273	94.925	-3.359	1.00	52.25	MS13	ATOM	13737	N	ARG	124	221.661	106.166	-1.348	1.00	200.89	MS1
ATOM	13685	CG	VAL	116	231.567	93.617	-2.982	1.00	52.25	MS13	ATOM	13738	CA	ARG	124	223.025	106.159	-0.823	1.00	200.89	MS1
ATOM	13686	CG	VAL	116	233.737	94.873	-2.963	1.00	52.25	MS13	ATOM	13739	CB	ARG	124	223.765	104.870	-1.235	1.00	131.34	MS1
ATOM	13687	C	VAL	116	230.659	95.373	-5.229	1.00	65.80	MS13	ATOM	13740	CG	ARG	124	223.852	105.592	-2.741	1.00	131.34	MS1
ATOM	13688	O	VAL	116	230.200	96.488	-5.470	1.00	65.80	MS13	ATOM	13741	CD	ARG	124	224.847	105.499	-3.456	1.00	131.34	MS1
ATOM	13689	N	ALA	117	229.915	94.272	-5.257	1.00	98.17	MS13	ATOM	13742	NE	ARG	124	224.881	105.253	-4.896	1.00	131.34	MS1
ATOM	13690	CA	ALA	117	228.482	94.353	-5.517	1.00	98.17	MS13	ATOM	13743	CZ	ARG	124	223.868	105.481	-5.727	1.00	131.34	MS1
ATOM	13691	CB	ALA	117	227.921	92.970	-5.852	1.00	72.41	MS13	ATOM	13744	NH1	ARG	124	222.723	105.970	-5.270	1.00	131.34	MS1
ATOM	13692	C	ALA	117	227.871	94.880	-4.216	1.00	98.17	MS13	ATOM	13745	NH2	ARG	124	224.003	105.210	-7.018	1.00	131.34	MS1

ATOM	13746	C	ARG	124	223.764	107.374	-1.363	1.00200.89	MS13	ATOM	13799	N	GLU	12	151.522	167.020	-33.654	1.00110.32	BS2
ATOM	13747	O	ARG	124	224.986	107.484	-1.231	1.00200.89	MS13	ATOM	13800	CA	GLU	12	152.890	166.783	-33.259	1.00110.32	BS2
ATOM	13748	N	LYS	125	223.011	108.282	-1.978	1.00201.09	MS13	ATOM	13801	CB	GLU	12	153.000	166.182	-31.867	1.00104.13	BS2
ATOM	13749	CA	LYS	125	223.589	109.490	-2.546	1.00201.09	MS13	ATOM	13802	CG	GLU	12	154.158	166.849	-31.160	1.00104.13	BS2
ATOM	13750	CB	LYS	125	223.511	110.341	-3.213	1.00105.60	MS13	ATOM	13803	CD	GLU	12	154.941	167.772	-32.118	1.00104.13	BS2
ATOM	13751	CG	LYS	125	221.800	109.677	-4.387	1.00105.60	MS13	ATOM	13804	OE1	GLU	12	155.741	167.256	-32.934	1.00104.13	BS2
ATOM	13752	CD	LYS	125	220.803	110.631	-5.022	1.00105.60	MS13	ATOM	13805	OE2	GLU	12	154.735	169.006	-32.075	1.00104.13	BS2
ATOM	13753	CE	LYS	125	220.022	109.967	-6.142	1.00105.60	MS13	ATOM	13806	C	GLU	12	153.581	165.886	-34.270	1.00110.32	BS2
ATOM	13754	CE	LYS	125	218.925	110.837	-6.660	1.00105.60	MS13	ATOM	13807	O	GLU	12	154.618	165.273	-33.990	1.00110.32	BS2
ATOM	13755	C	LYS	125	224.284	110.306	-1.466	1.00201.09	MS13	ATOM	13808	N	ALA	13	152.983	165.820	-35.457	1.0099.79	BS2
ATOM	13756	O	LYS	125	224.514	111.505	-1.706	1.00201.09	MS13	ATOM	13809	CA	ALA	13	153.537	165.042	-36.548	1.0099.79	BS2
ATOM	13757	OXT	LYS	125	224.608	109.741	-0.400	1.00134.57	MS13	ATOM	13810	CB	ALA	13	152.573	165.033	-37.751	1.0020.47	BS2
ATOM	13758	CB	VAL	7	151.630	167.475	-25.959	1.0070.67	BS2	ATOM	13811	C	ALA	13	154.787	165.837	-36.865	1.0099.79	BS2
ATOM	13759	CG1	VAL	7	152.512	167.066	-27.140	1.0070.67	BS2	ATOM	13812	O	ALA	13	155.616	165.435	-37.681	1.0099.79	BS2
ATOM	13760	CG2	VAL	7	152.491	167.682	-24.723	1.0070.67	BS2	ATOM	13813	N	GLY	14	154.897	166.982	-36.193	1.0082.06	BS2
ATOM	13761	C	VAL	7	150.216	168.613	-27.679	1.0067.88	BS2	ATOM	13814	CA	GLY	14	156.033	167.858	-36.370	1.0082.06	BS2
ATOM	13762	O	VAL	7	149.215	167.903	-27.850	1.0067.88	BS2	ATOM	13815	C	GLY	14	157.335	167.777	-35.931	1.0082.06	BS2
ATOM	13763	N	VAL	7	149.888	169.167	-25.217	1.0067.88	BS2	ATOM	13816	O	GLY	14	158.403	167.777	-36.193	1.0082.06	BS2
ATOM	13764	CA	VAL	7	150.856	168.786	-26.299	1.0067.88	BS2	ATOM	13817	N	VAL	15	157.267	166.059	-35.272	1.00102.24	BS2
ATOM	13765	N	LYS	8	150.848	169.264	-28.654	1.0099.84	BS2	ATOM	13818	CA	VAL	15	158.490	165.386	-34.821	1.00102.24	BS2
ATOM	13766	CA	LYS	8	150.436	169.277	-30.054	1.0099.84	BS2	ATOM	13819	CB	VAL	15	158.999	165.977	-33.487	1.0064.54	BS2
ATOM	13767	CB	LYS	8	151.650	169.097	-30.966	1.0088.06	BS2	ATOM	13820	CG1	VAL	15	160.274	165.253	-33.074	1.0064.54	BS2
ATOM	13768	CG	LYS	8	152.219	170.414	-31.479	1.0088.06	BS2	ATOM	13821	CG2	VAL	15	159.237	167.473	-33.616	1.0064.54	BS2
ATOM	13769	CD	LYS	8	151.959	171.590	-30.514	1.0088.06	BS2	ATOM	13822	C	VAL	15	158.451	163.856	-34.623	1.00102.24	BS2
ATOM	13770	CE	LYS	8	152.617	171.412	-29.140	1.0088.06	BS2	ATOM	13823	O	VAL	15	159.185	163.111	-35.276	1.00102.24	BS2
ATOM	13771	NZ	LYS	8	154.102	171.437	-29.184	1.0088.06	BS2	ATOM	13824	N	HIS	16	157.612	163.399	-33.700	1.00132.54	BS2
ATOM	13772	C	LYS	8	149.345	168.330	-30.472	1.0099.84	BS2	ATOM	13825	CA	HIS	16	157.523	161.981	-33.370	1.00132.54	BS2
ATOM	13773	O	LYS	8	149.599	167.227	-30.953	1.0099.84	BS2	ATOM	13826	CB	HIS	16	156.629	161.790	-32.147	1.00183.42	BS2
ATOM	13774	N	GLU	9	148.125	168.818	-30.275	1.00166.44	BS2	ATOM	13827	CG	HIS	16	157.239	162.299	-30.884	1.00183.42	BS2
ATOM	13775	CA	GLU	9	146.883	168.149	-30.620	1.00166.44	BS2	ATOM	13828	CD2	HIS	16	157.572	161.666	-29.736	1.00183.42	BS2
ATOM	13776	CB	GLU	9	145.792	169.213	-30.782	1.00181.37	BS2	ATOM	13829	ND1	HIS	16	157.631	163.611	-30.727	1.00183.42	BS2
ATOM	13777	CG	GLU	9	146.067	170.290	-31.873	1.00181.37	BS2	ATOM	13830	CE1	HIS	16	158.184	163.763	-29.538	1.00183.42	BS2
ATOM	13778	OE1	GLU	9	147.366	171.095	-31.680	1.00181.37	BS2	ATOM	13831	NE2	HIS	16	158.162	162.598	-28.917	1.00183.42	BS2
ATOM	13779	CE2	GLU	9	148.469	170.553	-31.918	1.00181.37	BS2	ATOM	13832	C	HIS	16	157.102	160.525	-35.213	1.00132.54	BS2
ATOM	13780	OE2	GLU	9	147.282	172.281	-31.289	1.00181.37	BS2	ATOM	13833	O	HIS	16	157.920	160.988	-34.416	1.00104.80	BS2
ATOM	13781	C	GLU	9	147.032	167.357	-31.915	1.00166.44	BS2	ATOM	13834	N	PHE	17	155.811	160.677	-34.416	1.00104.80	BS2
ATOM	13782	O	GLU	9	146.486	167.740	-32.954	1.00166.44	BS2	ATOM	13835	CA	PHE	17	155.217	159.684	-35.292	1.00104.80	BS2
ATOM	13783	N	LEU	10	147.766	166.249	-31.845	1.0083.01	BS2	ATOM	13836	CB	PHE	17	154.592	160.305	-36.579	1.0087.91	BS2
ATOM	13784	CA	LEU	10	148.008	165.412	-33.013	1.0083.01	BS2	ATOM	13837	CG	PHE	17	155.574	160.738	-37.658	1.0087.91	BS2
ATOM	13785	CB	LEU	10	146.694	165.144	-33.759	1.00161.32	BS2	ATOM	13838	CD1	PHE	17	156.832	160.138	-37.820	1.0087.91	BS2
ATOM	13786	CG	LEU	10	145.464	164.772	-32.919	1.00161.32	BS2	ATOM	13839	CD2	PHE	17	155.182	161.699	-38.585	1.0087.91	BS2
ATOM	13787	CD1	LEU	10	144.240	164.717	-33.821	1.00161.32	BS2	ATOM	13840	CE1	PHE	17	157.682	160.483	-38.892	1.0087.91	BS2
ATOM	13788	CD2	LEU	10	145.681	163.440	-32.216	1.00161.32	BS2	ATOM	13841	CE2	PHE	17	156.015	162.051	-39.652	1.0087.91	BS2
ATOM	13789	C	LEU	10	148.993	166.137	-33.933	1.0083.01	BS2	ATOM	13842	CZ	PHE	17	157.270	161.439	-39.805	1.0087.91	BS2
ATOM	13790	O	LEU	10	149.812	165.500	-34.590	1.0083.01	BS2	ATOM	13843	C	PHE	17	156.169	158.527	-35.595	1.00104.80	BS2
ATOM	13791	N	LEU	11	148.916	167.469	-33.966	1.0088.25	BS2	ATOM	13844	O	PHE	17	157.114	158.286	-34.835	1.00104.80	BS2
ATOM	13792	CA	LEU	11	149.797	168.279	-34.806	1.0088.25	BS2	ATOM	13845	N	GLY	18	155.903	157.804	-36.682	1.0067.65	BS2
ATOM	13793	CB	LEU	11	149.403	169.760	-34.736	1.00124.79	BS2	ATOM	13846	CA	GLY	18	156.716	156.658	-37.066	1.0067.65	BS2
ATOM	13794	CG	LEU	11	149.668	170.666	-35.951	1.00124.79	BS2	ATOM	13847	C	GLY	18	158.214	156.636	-36.777	1.0067.65	BS2
ATOM	13795	CD1	LEU	11	149.214	172.074	-35.605	1.00124.79	BS2	ATOM	13848	O	GLY	18	158.875	157.675	-36.658	1.0067.65	BS2
ATOM	13796	CD2	LEU	11	151.138	170.679	-36.347	1.00124.79	BS2	ATOM	13849	N	HIS	19	158.738	155.416	-36.665	1.0073.00	BS2
ATOM	13797	C	LEU	11	151.247	168.108	-34.363	1.0088.25	BS2	ATOM	13850	CA	HIS	19	160.157	155.182	-36.427	1.0073.00	BS2
ATOM	13798	O	LEU	11	152.106	168.953	-34.634	1.0088.25	BS2	ATOM	13851	CB	HIS	19	160.549	155.647	-35.027	1.00137.98	BS2

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ATOM	13852	CG	HIS	19	162.025	155.792	-34.843	1.00137.98	BS2	ATOM	13905	CE3	TRP	24	155.259	144.826	-35.689	1.00	49.26	BS2	
ATOM	13853	CD2	HIS	19	162.895	155.131	-34.044	1.00137.98	BS2	ATOM	13906	CD1	TRP	24	158.433	143.145	-36.206	1.00	49.26	BS2	
ATOM	13854	NH1/HIS	19	162.777	156.701	-35.557	1.00137.98	BS2	ATOM	13907	NE1	TRP	24	157.505	142.186	-36.532	1.00	49.26	BS2		
ATOM	13855	CE1	HIS	19	164.046	156.594	-35.206	1.00137.98	BS2	ATOM	13908	CD2	TRP	24	154.991	142.131	-36.592	1.00	49.26	BS2	
ATOM	13856	NE2	HIS	19	164.145	155.648	-34.288	1.00137.98	BS2	ATOM	13909	C23	TRP	24	154.005	144.239	-35.901	1.00	49.26	BS2	
ATOM	13857	C	HIS	19	160.454	153.686	-36.594	1.00	73.00	BS2	ATOM	13910	CH2	TRP	24	153.887	142.902	-36.350	1.00	49.26	BS2
ATOM	13858	O	HIS	19	159.523	152.888	-36.644	1.00	73.00	BS2	ATOM	13911	C	TRP	24	159.850	144.339	-33.752	1.00	80.49	BS2
ATOM	13859	N	GLU	20	161.738	153.323	-36.695	1.00	69.30	BS2	ATOM	13912	O	TRP	24	160.788	143.606	-33.441	1.00	80.49	BS2
ATOM	13860	CA	GLU	20	162.205	151.925	-36.858	1.00	69.30	BS2	ATOM	13913	N	ASN	25	158.684	144.381	-33.110	1.00	44.53	BS2
ATOM	13861	CB	GLU	20	161.867	151.096	-35.608	1.00	56.61	BS2	ATOM	13914	CA	ASN	25	158.293	143.517	-32.005	1.00	44.53	BS2
ATOM	13862	CD	GLU	20	162.170	151.755	-34.252	1.00	56.61	BS2	ATOM	13915	CB	ASN	25	158.639	144.129	-30.655	1.00	38.84	BS2
ATOM	13863	CE	GLU	20	163.653	151.970	-33.989	1.00	56.61	BS2	ATOM	13916	CG	ASN	25	158.168	143.270	-29.504	1.00	38.84	BS2
ATOM	13864	OE1	GLU	20	164.465	151.475	-34.800	1.00	56.61	BS2	ATOM	13917	OD1	ASN	25	158.770	143.274	-28.431	1.00	38.84	BS2
ATOM	13865	OE2	GLU	20	164.004	152.627	-32.970	1.00	56.61	BS2	ATOM	13918	ND2	ASN	25	157.081	142.523	-29.720	1.00	38.84	BS2
ATOM	13866	C	GLU	20	161.657	151.198	-38.106	1.00	69.30	BS2	ATOM	13919	C	ASN	25	156.775	143.419	-32.160	1.00	44.53	BS2
ATOM	13867	O	GLU	20	160.452	151.002	-38.249	1.00	69.30	BS2	ATOM	13920	O	ASN	25	156.036	144.303	-31.745	1.00	44.53	BS2
ATOM	13868	N	ARG	21	162.545	150.792	-39.008	1.00	88.35	BS2	ATOM	13921	N	PRO	26	157.075	141.114	-33.047	1.00	55.16	BS2
ATOM	13869	CA	ARG	21	162.120	150.096	-40.224	1.00	88.35	BS2	ATOM	13922	CD	PRO	26	157.075	141.114	-33.047	1.00	55.16	BS2
ATOM	13870	CB	ARG	21	163.212	150.184	-41.292	1.00135.53	BS2	ATOM	13923	CA	PRO	26	154.874	142.105	-33.002	1.00	46.76	BS2	
ATOM	13871	CG	ARG	21	164.590	149.760	-40.800	1.00135.53	BS2	ATOM	13924	CB	PRO	26	154.798	140.593	-33.157	1.00	55.16	BS2	
ATOM	13872	CD	ARG	21	165.587	149.634	-41.947	1.00135.53	BS2	ATOM	13925	CG	PRO	26	156.093	140.284	-33.839	1.00	55.16	BS2	
ATOM	13873	NE	ARG	21	166.930	149.302	-41.475	1.00135.53	BS2	ATOM	13926	C	PRO	26	153.922	142.632	-31.939	1.00	46.76	BS2	
ATOM	13874	C2	ARG	21	167.236	148.206	-40.786	1.00135.53	BS2	ATOM	13927	O	PRO	26	152.822	143.069	-32.272	1.00	46.76	BS2	
ATOM	13875	NH1	ARG	21	166.297	147.321	-40.481	1.00135.53	BS2	ATOM	13928	N	LVS	27	154.331	142.586	-30.669	1.00	48.37	BS2	
ATOM	13876	NH2	ARG	21	168.484	147.998	-40.390	1.00135.53	BS2	ATOM	13929	CA	LVS	27	153.479	143.061	-29.573	1.00	48.37	BS2	
ATOM	13877	C	ARG	21	161.835	148.632	-39.910	1.00	88.35	BS2	ATOM	13930	CB	LVS	27	154.173	142.837	-28.223	1.00	55.76	BS2
ATOM	13878	O	ARG	21	162.760	147.867	-39.636	1.00	88.35	BS2	ATOM	13931	CG	LVS	27	154.158	141.380	-27.750	1.00	55.76	BS2
ATOM	13879	N	LVS	22	160.563	148.239	-39.963	1.00165.91	BS2	ATOM	13932	CD	LVS	27	154.809	141.213	-26.373	1.00	55.76	BS2	
ATOM	13880	CA	LVS	22	160.166	146.865	-39.646	1.00165.91	BS2	ATOM	13933	CE	LVS	27	154.651	139.788	-25.858	1.00	55.76	BS2	
ATOM	13881	CB	LVS	22	160.092	146.021	-40.915	1.00	87.19	BS2	ATOM	13934	N2	LVS	27	155.241	139.562	-24.509	1.00	55.76	BS2
ATOM	13882	CG	LVS	22	158.932	146.462	-41.823	1.00	87.19	BS2	ATOM	13935	C	LVS	27	153.074	144.917	-29.706	1.00	48.37	BS2
ATOM	13883	CD	LVS	22	158.641	145.458	-42.937	1.00	87.19	BS2	ATOM	13936	O	LVS	27	151.943	144.917	-29.396	1.00	48.37	BS2
ATOM	13884	CE	LVS	22	157.440	145.878	-43.781	1.00	87.19	BS2	ATOM	13937	N	PHE	28	154.010	145.344	-30.179	1.00	46.54	BS2
ATOM	13885	N2	LVS	22	157.213	144.924	-44.906	1.00	87.19	BS2	ATOM	13938	CA	PHE	28	153.797	146.769	-30.370	1.00	46.54	BS2
ATOM	13886	C	LVS	22	161.139	146.288	-38.625	1.00165.91	BS2	ATOM	13939	CB	PHE	28	155.132	147.436	-30.692	1.00	58.18	BS2	
ATOM	13887	O	LVS	22	161.538	147.023	-37.720	1.00165.91	BS2	ATOM	13940	CG	PHE	28	155.124	148.916	-30.526	1.00	58.18	BS2	
ATOM	13888	N	ARG	23	161.545	145.022	-38.731	1.00	76.03	BS2	ATOM	13941	CD1	PHE	28	155.470	149.488	-29.309	1.00	58.18	BS2
ATOM	13889	CA	ARG	23	162.467	144.508	-37.706	1.00	76.03	BS2	ATOM	13942	CD2	PHE	28	154.752	149.743	-31.581	1.00	58.18	BS2
ATOM	13890	CB	ARG	23	163.888	144.979	-38.056	1.00125.49	BS2	ATOM	13943	CE1	PHE	28	155.446	150.864	-29.138	1.00	58.18	BS2	
ATOM	13891	CG	ARG	23	164.893	144.934	-36.931	1.00125.49	BS2	ATOM	13944	CE2	PHE	28	154.723	151.122	-31.426	1.00	58.18	BS2	
ATOM	13892	CD	ARG	23	165.090	146.321	-36.321	1.00125.49	BS2	ATOM	13945	C2	PHE	28	155.071	151.687	-30.198	1.00	58.18	BS2	
ATOM	13893	NE	ARG	23	165.797	146.256	-35.045	1.00125.49	BS2	ATOM	13946	C	PHE	28	152.816	147.003	-31.520	1.00	46.54	BS2	
ATOM	13894	C2	ARG	23	165.308	145.699	-33.936	1.00125.49	BS2	ATOM	13947	N	PHE	28	152.489	148.145	-31.857	1.00	46.54	BS2	
ATOM	13895	NH1	ARG	23	164.097	145.156	-33.931	1.00125.49	BS2	ATOM	13948	O	ALA	29	152.353	145.912	-32.119	1.00	61.67	BS2	
ATOM	13896	NH2	ARG	23	166.039	145.667	-32.828	1.00125.49	BS2	ATOM	13949	CA	ALA	29	151.418	145.972	-33.238	1.00	61.67	BS2	
ATOM	13897	C	ARG	23	161.951	145.099	-36.348	1.00	76.03	BS2	ATOM	13950	CB	ALA	29	150.771	144.591	-33.454	1.00	35.67	BS2
ATOM	13898	O	ARG	23	162.655	145.781	-35.556	1.00	76.03	BS2	ATOM	13951	C	ALA	29	150.326	147.024	-33.071	1.00	61.67	BS2
ATOM	13899	N	TRP	24	160.677	144.826	-36.085	1.00	80.49	BS2	ATOM	13952	O	ALA	29	150.108	147.846	-33.960	1.00	61.67	BS2
ATOM	13900	CA	TRP	24	159.928	145.318	-34.927	1.00	80.49	BS2	ATOM	13953	N	ARG	30	149.647	146.994	-31.926	1.00	72.32	BS2
ATOM	13901	CB	TRP	24	158.436	145.596	-35.400	1.00	49.26	BS2	ATOM	13954	CA	ARG	30	148.544	147.910	-31.649	1.00	72.32	BS2
ATOM	13902	CG	TRP	24	157.814	144.311	-35.831	1.00	49.26	BS2	ATOM	13955	CB	ARG	30	148.057	147.714	-30.208	1.00	92.21	BS2
ATOM	13903	CD2	TRP	24	156.406	144.058	-35.932	1.00	49.26	BS2	ATOM	13956	CG	ARG	30	148.958	148.309	-29.147	1.00	92.21	BS2
ATOM	13904	CE2	TRP	24	156.251	142.716	-36.377	1.00	49.26	BS2	ATOM	13957	CD	ARG	30	148.624	147.796	-27.741	1.00	92.21	BS2

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ATOM	13958	NE	ARG	30	149.154	146.452	-27.514	1.00	92.21	BS2	ATOM	14011	CA	ARG	36	156.556	151.957	-44.929	1.00144.53	BS2	
ATOM	13959	CZ	ARG	30	149.756	146.056	-26.393	1.00	92.21	BS2	ATOM	14012	CB	ARG	36	156.150	153.433	-44.849	1.00	83.91	BS2
ATOM	13960	NH1	ARG	30	149.902	146.906	-25.378	1.00	92.21	BS2	ATOM	14013	CG	ARG	36	157.212	154.342	-45.394	1.00	83.91	BS2
ATOM	13961	NH2	ARG	30	150.234	144.815	-26.294	1.00	92.21	BS2	ATOM	14014	CD	ARG	36	157.581	153.931	-46.820	1.00	83.91	BS2
ATOM	13962	C	ARG	30	148.838	149.388	-31.903	1.00	72.32	BS2	ATOM	14015	NE	ARG	36	159.018	154.059	-47.074	1.00	83.91	BS2
ATOM	13963	O	ARG	30	147.992	150.099	-32.447	1.00	72.32	BS2	ATOM	14016	CZ	ARG	36	159.916	153.110	-46.813	1.00	83.91	BS2
ATOM	13964	N	TYR	31	150.031	149.848	-31.532	1.00	66.79	BS2	ATOM	14017	NH1	ARG	36	159.535	151.946	-46.294	1.00	83.91	BS2
ATOM	13965	CA	TYR	31	150.382	151.252	-31.719	1.00	66.79	BS2	ATOM	14018	NH2	ARG	36	161.201	153.332	-47.064	1.00	83.91	BS2
ATOM	13966	CB	TYR	31	151.405	151.692	-30.682	1.00	66.49	BS2	ATOM	14019	C	ARG	36	157.656	151.624	-43.913	1.00144.53	BS2	
ATOM	13967	CG	TYR	31	150.987	151.411	-29.271	1.00	66.49	BS2	ATOM	14020	O	ARG	36	158.677	151.021	-44.258	1.00144.53	BS2	
ATOM	13968	CE1	TYR	31	151.777	150.624	-28.442	1.00	66.49	BS2	ATOM	14021	N	ASN	37	157.428	152.001	-42.658	1.00111.38	BS2	
ATOM	13969	CE2	TYR	31	151.385	150.329	-27.145	1.00	66.49	BS2	ATOM	14022	CA	ASN	37	158.366	151.726	-41.578	1.00111.38	BS2	
ATOM	13970	CD2	TYR	31	149.791	151.907	-28.767	1.00	66.49	BS2	ATOM	14023	CB	ASN	37	159.513	152.722	-41.600	1.00105.06	BS2	
ATOM	13971	CE2	TYR	31	149.382	151.618	-27.467	1.00	66.49	BS2	ATOM	14024	CG	ASN	37	160.434	152.486	-42.751	1.00105.06	BS2	
ATOM	13972	CZ	TYR	31	150.184	150.822	-26.662	1.00	66.49	BS2	ATOM	14025	OD1	ASN	37	161.034	151.413	-42.865	1.00105.06	BS2	
ATOM	13973	OH	TYR	31	149.766	150.465	-25.397	1.00	66.49	BS2	ATOM	14026	ND2	ASN	37	160.547	153.473	-43.632	1.00105.06	BS2	
ATOM	13974	C	TYR	31	150.916	151.623	-33.092	1.00	66.79	BS2	ATOM	14027	C	ASN	37	157.654	151.804	-40.248	1.00111.38	BS2	
ATOM	13975	O	TYR	31	151.135	152.794	-33.360	1.00	66.79	BS2	ATOM	14028	O	ASN	37	158.232	152.234	-39.252	1.00111.38	BS2	
ATOM	13976	N	ILE	32	151.154	150.645	-33.955	1.00	70.67	BS2	ATOM	14029	N	GLY	38	156.402	151.365	-40.231	1.00	83.97	BS2
ATOM	13977	CA	ILE	32	151.659	150.956	-35.290	1.00	70.67	BS2	ATOM	14030	CA	GLY	38	155.645	151.428	-39.006	1.00	83.97	BS2
ATOM	13978	CB	ILE	32	152.378	149.750	-35.925	1.00	49.64	BS2	ATOM	14031	C	GLY	38	155.572	152.907	-38.705	1.00	83.97	BS2
ATOM	13979	CG2	ILE	32	152.638	150.023	-37.397	1.00	49.64	BS2	ATOM	14032	O	GLY	38	156.410	153.457	-37.980	1.00	83.97	BS2
ATOM	13980	CG1	ILE	32	153.696	149.487	-35.183	1.00	49.64	BS2	ATOM	14033	N	ILE	39	154.579	153.567	-39.284	1.00	85.40	BS2
ATOM	13981	CD1	ILE	32	154.043	148.018	-35.032	1.00	49.64	BS2	ATOM	14034	CA	ILE	39	154.424	154.995	-39.075	1.00	85.40	BS2
ATOM	13982	C	ILE	32	150.489	151.364	-36.167	1.00	70.67	BS2	ATOM	14035	CB	ILE	39	153.875	155.669	-40.344	1.00	87.91	BS2
ATOM	13983	O	ILE	32	149.421	150.754	-36.106	1.00	70.67	BS2	ATOM	14036	CG2	ILE	39	152.341	155.609	-40.339	1.00	87.91	BS2
ATOM	13984	N	TYR	33	150.697	152.406	-36.969	1.00	71.53	BS2	ATOM	14037	CG1	ILE	39	154.386	157.115	-40.419	1.00	87.91	BS2
ATOM	13985	CA	TYR	33	149.655	152.912	-37.852	1.00	71.53	BS2	ATOM	14038	CD1	ILE	39	153.999	157.863	-41.697	1.00	87.91	BS2
ATOM	13986	CB	TYR	33	148.891	154.377	-38.219	1.00	85.03	BS2	ATOM	14039	C	ILE	39	153.495	155.299	-37.891	1.00	85.40	BS2
ATOM	13987	CG	TYR	33	148.788	154.985	-39.070	1.00	85.03	BS2	ATOM	14040	O	ILE	39	152.948	154.388	-37.264	1.00	85.40	BS2
ATOM	13988	CD1	TYR	33	147.889	154.179	-39.770	1.00	85.03	BS2	ATOM	14041	N	HIS	40	153.323	156.591	-37.609	1.00169.36	BS2	
ATOM	13989	CE1	TYR	33	146.883	154.726	-40.547	1.00	85.03	BS2	ATOM	14042	CA	HIS	40	152.478	157.045	-36.510	1.00169.36	BS2	
ATOM	13990	CD2	TYR	33	148.646	156.365	-39.178	1.00	85.03	BS2	ATOM	14043	CB	HIS	40	153.337	157.388	-35.291	1.00	72.37	BS2
ATOM	13991	CE2	TYR	33	147.640	156.927	-39.954	1.00	85.03	BS2	ATOM	14044	CG	HIS	40	153.977	156.205	-34.628	1.00	72.37	BS2
ATOM	13992	CZ	TYR	33	146.762	156.098	-40.633	1.00	85.03	BS2	ATOM	14045	CD2	HIS	40	154.156	155.912	-33.317	1.00	72.37	BS2
ATOM	13993	OH	TYR	33	145.748	156.629	-41.392	1.00	85.03	BS2	ATOM	14046	ND1	HIS	40	154.571	155.184	-35.335	1.00	72.37	BS2
ATOM	13994	C	TYR	33	149.679	152.122	-39.125	1.00	71.53	BS2	ATOM	14047	CE1	HIS	40	155.091	154.315	-34.487	1.00	72.37	BS2
ATOM	13995	O	TYR	33	148.708	151.449	-39.477	1.00	71.53	BS2	ATOM	14048	NE2	HIS	40	154.853	154.734	-33.257	1.00	72.37	BS2
ATOM	13996	N	ALA	34	150.790	152.236	-39.841	1.00	64.52	BS2	ATOM	14049	C	HIS	40	151.543	158.233	-36.795	1.00169.36	BS2	
ATOM	13997	CA	ALA	34	150.902	151.526	-41.093	1.00	64.52	BS2	ATOM	14050	O	HIS	40	151.942	159.244	-37.379	1.00169.36	BS2	
ATOM	13998	CB	ALA	34	150.018	152.198	-42.147	1.00	19.72	BS2	ATOM	14051	N	ILE	41	150.300	158.074	-36.343	1.00135.29	BS2	
ATOM	13999	C	ALA	34	152.329	151.342	-41.612	1.00	64.52	BS2	ATOM	14052	CA	ILE	41	149.201	159.040	-36.453	1.00135.29	BS2	
ATOM	14000	O	ALA	34	153.300	151.880	-41.058	1.00	64.52	BS2	ATOM	14053	CB	ILE	41	148.770	159.308	-37.931	1.00	69.47	BS2
ATOM	14001	N	GLU	35	152.403	150.550	-42.684	1.00	89.32	BS2	ATOM	14054	CG2	ILE	41	147.298	159.733	-38.008	1.00	69.47	BS2
ATOM	14002	CA	GLU	35	153.617	150.144	-43.388	1.00	89.32	BS2	ATOM	14055	CG1	ILE	41	149.659	160.399	-38.534	1.00	69.47	BS2
ATOM	14003	CB	GLU	35	153.264	149.660	-44.802	1.00146.18	BS2	ATOM	14056	CD1	ILE	41	149.352	160.717	-39.992	1.00	69.47	BS2	
ATOM	14004	CG	GLU	35	151.890	149.012	-44.946	1.00146.18	BS2	ATOM	14057	C	ILE	41	148.081	158.346	-35.685	1.00135.29	BS2		
ATOM	14005	CD	GLU	35	150.754	150.017	-44.819	1.00146.18	BS2	ATOM	14058	O	ILE	41	147.660	157.172	-36.166	1.00121.22	BS2		
ATOM	14006	OE1	GLU	35	150.818	151.073	-45.486	1.00146.18	BS2	ATOM	14059	N	ILE	42	147.622	158.855	-34.664	1.00135.29	BS2		
ATOM	14007	OE2	GLU	35	149.795	149.754	-44.060	1.00146.18	BS2	ATOM	14060	CA	ILE	42	146.634	156.387	-35.473	1.00121.22	BS2		
ATOM	14008	C	GLU	35	154.739	151.156	-43.498	1.00	89.32	BS2	ATOM	14061	CB	ILE	42	146.312	155.049	-36.187	1.00138.86	BS2	
ATOM	14009	O	GLU	35	154.985	151.952	-42.589	1.00	89.32	BS2	ATOM	14062	CG2	ILE	42	145.411	154.197	-35.300	1.00138.86	BS2	
ATOM	14010	N	ARG	36	155.420	151.099	-44.640	1.00144.53	BS2	ATOM	14063	CG1	ILE	42	145.635	155.307	-37.540	1.00138.86	BS2		

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ATOM	14064	CD1	FILE	42	144.188	155.768	-37.459	1.00138	.86	BS2	ATOM	14117	CA	GLU	49	145.303	158.703	-25.638	1.00	64.97	BS2
ATOM	14065	C	FILE	42	147.350	156.068	-34.186	1.00121	.22	BS2	ATOM	14118	CB	GLU	49	144.591	157.557	-26.364	1.00126	.08	BS2
ATOM	14066	C	FILE	42	146.765	155.635	-33.201	1.00121	.22	BS2	ATOM	14119	CG	GLU	49	143.521	158.080	-27.356	1.00126	.08	BS2
ATOM	14067	N	ASP	43	148.653	156.296	-34.239	1.00100	.47	BS2	ATOM	14120	CD	GLU	49	142.699	156.991	-28.006	1.00126	.08	BS2
ATOM	14068	CA	ASP	43	149.543	156.088	-33.123	1.00100	.47	BS2	ATOM	14121	OE1	GLU	49	142.104	156.152	-27.296	1.00126	.08	BS2
ATOM	14069	CB	ASP	43	150.969	156.013	-33.617	1.00	94.84	BS2	ATOM	14122	OE2	GLU	49	142.637	156.985	-29.255	1.00126	.08	BS2
ATOM	14070	CG	ASP	43	151.073	155.285	-34.918	1.00	94.84	BS2	ATOM	14123	C	GLU	49	146.217	158.185	-29.544	1.00	64.97	BS2
ATOM	14071	OD1	ASP	43	150.214	155.538	-35.781	1.00	94.84	BS2	ATOM	14124	O	GLU	49	145.831	158.125	-29.376	1.00	64.97	BS2
ATOM	14072	OD2	ASP	43	152.010	154.478	-35.093	1.00	94.84	BS2	ATOM	14125	N	GLU	50	147.445	157.848	-24.916	1.00	61.67	BS2
ATOM	14073	C	ASP	43	149.387	157.329	-32.298	1.00100	.47	BS2	ATOM	14126	CA	GLU	50	148.405	157.346	-23.948	1.00	61.67	BS2
ATOM	14074	C	ASP	43	148.983	157.266	-31.147	1.00100	.47	BS2	ATOM	14127	CB	GLU	50	149.519	156.581	-24.653	1.00	90.89	BS2
ATOM	14075	N	LEU	44	149.720	158.461	-32.909	1.00	71.29	BS2	ATOM	14128	CG	GLU	50	149.116	155.178	-25.066	1.00	90.89	BS2
ATOM	14076	CA	LEU	44	149.607	159.742	-32.236	1.00	71.29	BS2	ATOM	14129	CD	GLU	50	148.511	154.396	-23.915	1.00	90.89	BS2
ATOM	14077	CB	LEU	44	151.086	160.595	-34.156	1.00	51.42	BS2	ATOM	14130	OE1	GLU	50	149.029	154.511	-22.778	1.00	90.89	BS2
ATOM	14078	CG	LEU	44	151.109	161.681	-35.218	1.00	51.42	BS2	ATOM	14131	OE2	GLU	50	148.997	158.450	-23.086	1.00	61.67	BS2
ATOM	14079	CD1	LEU	44	148.185	159.838	-31.673	1.00	71.29	BS2	ATOM	14132	O	GLU	50	147.522	153.665	-24.155	1.00	90.89	BS2
ATOM	14080	CD2	LEU	44	152.389	160.549	-33.379	1.00	51.42	BS2	ATOM	14133	O	GLU	50	149.342	159.576	-23.705	1.00	52.29	BS2
ATOM	14081	C	LEU	44	147.971	160.382	-30.591	1.00	71.29	BS2	ATOM	14134	N	LEU	51	149.898	160.704	-22.960	1.00	52.29	BS2
ATOM	14082	O	LEU	44	147.222	159.297	-32.418	1.00	76.15	BS2	ATOM	14135	CA	LEU	51	151.312	161.787	-24.876	1.00	39.06	BS2
ATOM	14083	N	GLN	45	145.833	159.264	-31.978	1.00	76.15	BS2	ATOM	14136	CB	LEU	51	150.146	161.883	-23.899	1.00	39.06	BS2
ATOM	14084	CA	GLN	45	144.975	158.468	-32.959	1.00126	.16	BS2	ATOM	14137	CG	LEU	51	151.019	162.675	-26.083	1.00	39.06	BS2
ATOM	14085	CB	GLN	45	144.623	159.187	-34.250	1.00126	.16	BS2	ATOM	14138	CD1	LEU	51	152.620	162.173	-24.180	1.00	39.06	BS2
ATOM	14086	CG	GLN	45	144.164	158.223	-35.348	1.00126	.16	BS2	ATOM	14139	CD2	LEU	51	148.890	161.124	-21.891	1.00	52.29	BS2
ATOM	14087	CD	GLN	45	143.496	157.216	-35.075	1.00126	.16	BS2	ATOM	14140	C	LEU	51	149.223	161.289	-20.712	1.00	52.29	BS2
ATOM	14088	OE1	GLN	45	144.520	158.533	-36.597	1.00126	.16	BS2	ATOM	14141	O	LEU	51	147.650	161.305	-22.339	1.00	87.78	BS2
ATOM	14089	NE2	GLN	45	145.885	158.516	-30.651	1.00	76.15	BS2	ATOM	14142	N	GLU	52	146.542	161.706	-21.482	1.00	87.78	BS2
ATOM	14090	O	GLN	45	145.221	158.873	-29.675	1.00	78.27	BS2	ATOM	14143	CA	GLU	52	143.929	161.449	-22.221	1.00127	.67	BS2
ATOM	14091	C	GLN	46	146.696	157.469	-30.632	1.00	78.27	BS2	ATOM	14144	CB	GLU	52	142.714	161.438	-22.238	1.00127	.67	BS2
ATOM	14092	N	LYS	46	146.873	156.668	-29.442	1.00100	.12	BS2	ATOM	14145	CG	GLU	52	141.598	161.665	-21.718	1.00127	.67	BS2
ATOM	14093	CA	LYS	46	147.318	155.260	-29.832	1.00100	.12	BS2	ATOM	14146	CD	GLU	52	142.843	160.951	-23.385	1.00127	.67	BS2
ATOM	14094	CB	LYS	46	146.180	154.445	-30.417	1.00100	.12	BS2	ATOM	14147	OE1	GLU	52	146.610	160.879	-20.210	1.00	87.78	BS2
ATOM	14095	CG	LYS	46	146.665	153.374	-31.367	1.00100	.12	BS2	ATOM	14148	OE2	GLU	52	146.802	161.403	-19.106	1.00	87.78	BS2
ATOM	14096	CD	LYS	46	145.502	152.863	-32.219	1.00100	.12	BS2	ATOM	14149	C	GLU	52	146.473	159.573	-20.397	1.00	73.54	BS2
ATOM	14097	CE	LYS	46	147.895	157.343	-28.543	1.00	78.27	BS2	ATOM	14150	O	GLU	52	146.514	158.609	-19.314	1.00	73.54	BS2
ATOM	14098	N2	LYS	46	147.689	157.426	-27.332	1.00	78.27	BS2	ATOM	14151	N	ARG	53	146.294	157.217	-19.897	1.00	77.68	BS2
ATOM	14099	O	LYS	46	148.982	157.834	-29.136	1.00	62.72	BS2	ATOM	14152	CA	ARG	53	146.388	156.111	-18.895	1.00	77.68	BS2
ATOM	14100	C	LYS	47	150.034	158.529	-28.330	1.00	62.72	BS2	ATOM	14153	CB	ARG	53	146.025	154.775	-19.511	1.00	77.68	BS2
ATOM	14101	N	THR	47	150.981	159.326	-29.319	1.00	73.02	BS2	ATOM	14154	CG	ARG	53	147.583	153.422	-18.184	1.00	77.68	BS2
ATOM	14102	CA	THR	47	151.610	158.445	-30.261	1.00	73.02	BS2	ATOM	14155	CD	ARG	53	148.600	154.139	-18.651	1.00	77.68	BS2
ATOM	14103	CB	THR	47	152.051	160.031	-28.490	1.00	73.02	BS2	ATOM	14156	NE	ARG	53	147.804	152.451	-17.304	1.00	77.68	BS2
ATOM	14104	OG1	THR	47	149.352	159.533	-27.471	1.00	62.72	BS2	ATOM	14157	CZ	ARG	53	147.845	158.667	-17.357	1.00	73.54	BS2
ATOM	14105	CG2	THR	47	149.696	159.674	-26.286	1.00	62.72	BS2	ATOM	14158	NH1	ARG	53	147.878	158.728	-19.304	1.00	59.37	BS2
ATOM	14106	C	THR	47	148.384	160.239	-28.048	1.00	89.51	BS2	ATOM	14159	NH2	ARG	53	150.272	158.770	-18.710	1.00	59.37	BS2
ATOM	14107	O	THR	48	147.607	161.215	-27.311	1.00	89.51	BS2	ATOM	14160	C	ARG	54	151.370	158.684	-19.806	1.00	59.12	BS2
ATOM	14108	N	MET	48	147.607	161.215	-27.311	1.00	89.51	BS2	ATOM	14161	O	ARG	54	151.208	157.465	-20.545	1.00	59.12	BS2
ATOM	14109	CA	MET	48	146.432	165.437	-28.536	1.00	97.30	BS2	ATOM	14162	N	THR	54	152.761	158.706	-19.178	1.00	59.12	BS2
ATOM	14110	CB	MET	48	146.900	160.454	-26.195	1.00	89.51	BS2	ATOM	14163	CA	THR	54	150.499	160.026	-17.873	1.00	59.37	BS2
ATOM	14111	CG	MET	48	147.129	160.710	-25.007	1.00	89.51	BS2	ATOM	14164	CB	THR	54	150.744	159.941	-16.666	1.00	59.37	BS2
ATOM	14112	SD	MET	48	146.057	159.502	-26.592	1.00	64.97	BS2	ATOM	14165	CG1	THR	55	150.424	161.184	-18.532	1.00	62.27	BS2
ATOM	14113	CE	MET	48							ATOM	14166	CG2	THR							
ATOM	14114	C	MET	48							ATOM	14167	C	THR							
ATOM	14115	O	MET	48							ATOM	14168	O	THR							
ATOM	14116	N	GLU	49							ATOM	14169	N	PHE							

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ATOM	14170	CA	PHE	55	150.622	162.477	-17.882	1.00	62.27	BS2	ATOM	14223	OD1	ASP	60	150.303	159.509	-8.158	1.00	100137.76	BS2
ATOM	14171	CB	PHE	55	150.309	163.608	-18.868	1.00	74.46	BS2	ATOM	14224	OD2	ASP	60	148.473	158.665	-9.025	1.00	100137.76	BS2
ATOM	14172	CG	PHE	55	151.467	163.955	-19.756	1.00	74.46	BS2	ATOM	14225	C	ASP	60	150.663	162.192	-8.582	1.00	54.62	BS2
ATOM	14173	CD1	PHE	55	152.032	162.989	-20.589	1.00	74.46	BS2	ATOM	14226	O	ASP	60	150.606	162.915	-7.585	1.00	54.62	BS2
ATOM	14174	CD2	PHE	55	152.063	165.209	-19.685	1.00	74.46	BS2	ATOM	14227	N	LEU	61	151.755	161.506	-8.917	1.00	61.15	BS2
ATOM	14175	CE1	PHE	55	153.181	163.283	-21.327	1.00	74.46	BS2	ATOM	14228	CA	LEU	61	152.968	161.506	-8.109	1.00	61.15	BS2
ATOM	14176	CE2	PHE	55	153.215	165.501	-20.423	1.00	74.46	BS2	ATOM	14229	CB	LEU	61	154.120	160.800	-8.781	1.00	61.15	BS2
ATOM	14177	C2	PHE	55	153.773	164.537	-21.240	1.00	74.46	BS2	ATOM	14230	CG	LEU	61	154.114	159.308	-9.092	1.00	100101.60	BS2
ATOM	14178	C	PHE	55	149.756	162.578	-16.642	1.00	62.27	BS2	ATOM	14231	CD1	LEU	61	155.464	158.970	-9.710	1.00	100101.60	BS2
ATOM	14179	O	PHE	55	150.190	163.075	-15.600	1.00	62.27	BS2	ATOM	14232	CD2	LEU	61	153.878	158.481	-7.826	1.00	61.15	BS2
ATOM	14180	NH2	ARG	56	148.530	162.089	-16.775	1.00	61.66	BS2	ATOM	14233	C	LEU	61	153.401	162.977	-7.966	1.00	61.15	BS2
ATOM	14181	CA	ARG	56	147.579	162.064	-15.682	1.00	61.66	BS2	ATOM	14234	O	LEU	61	153.849	163.395	-6.904	1.00	61.15	BS2
ATOM	14182	CB	ARG	56	146.345	161.281	-16.120	1.00	115.60	BS2	ATOM	14235	N	ALA	62	153.283	163.715	-9.062	1.00	56.97	BS2
ATOM	14183	CD	ARG	56	145.224	161.222	-15.111	1.00	115.60	BS2	ATOM	14236	CA	ALA	62	153.037	165.788	-10.313	1.00	77.81	BS2
ATOM	14184	CD	ARG	56	144.257	160.116	-15.491	1.00	115.60	BS2	ATOM	14237	CB	ALA	62	153.380	165.899	-7.826	1.00	56.97	BS2
ATOM	14185	NE	ARG	56	143.805	160.234	-16.875	1.00	115.60	BS2	ATOM	14238	C	ALA	62	154.289	166.162	-7.026	1.00	56.97	BS2
ATOM	14186	C2	ARG	56	143.275	159.235	-17.577	1.00	115.60	BS2	ATOM	14239	O	ALA	62	152.117	166.270	-7.624	1.00	77.93	BS2
ATOM	14187	NH1	ARG	56	143.127	158.033	-17.027	1.00	115.60	BS2	ATOM	14240	N	MET	63	151.753	167.015	-6.426	1.00	77.93	BS2
ATOM	14188	NH2	ARG	56	142.891	159.436	-18.832	1.00	115.60	BS2	ATOM	14241	CA	MET	63	151.284	167.436	-6.474	1.00	99.98	BS2
ATOM	14189	C	ARG	56	148.258	161.365	-14.496	1.00	61.66	BS2	ATOM	14242	CB	MET	63	149.381	166.471	-7.196	1.00	99.98	BS2
ATOM	14190	O	ARG	56	148.249	161.197	-13.374	1.00	61.66	BS2	ATOM	14243	CG	MET	63	147.737	167.184	-6.889	1.00	99.98	BS2
ATOM	14191	N	PHE	57	149.851	160.197	-14.751	1.00	47.33	BS2	ATOM	14244	SD	MET	63	146.699	165.873	-6.689	1.00	99.98	BS2
ATOM	14192	CA	PHE	57	149.544	159.433	-13.707	1.00	47.33	BS2	ATOM	14245	C	MET	63	152.029	166.204	-5.172	1.00	77.93	BS2
ATOM	14193	CB	PHE	57	150.108	158.106	-14.275	1.00	40.10	BS2	ATOM	14246	C	MET	63	152.581	166.723	-4.200	1.00	77.93	BS2
ATOM	14194	CG	PHE	57	151.109	157.427	-13.361	1.00	40.10	BS2	ATOM	14247	O	MET	63	151.662	164.928	-5.198	1.00	41.70	BS2
ATOM	14195	CD1	PHE	57	150.691	156.721	-12.244	1.00	40.10	BS2	ATOM	14248	N	ARG	64	151.888	164.047	-4.061	1.00	41.70	BS2
ATOM	14196	CD2	PHE	57	152.472	157.589	-13.560	1.00	40.10	BS2	ATOM	14249	CA	ARG	64	150.413	162.004	-3.796	1.00	81.64	BS2
ATOM	14197	CE1	PHE	57	151.615	156.194	-11.329	1.00	40.10	BS2	ATOM	14250	CB	ARG	64	149.723	161.005	-4.704	1.00	81.64	BS2
ATOM	14198	CE2	PHE	57	153.398	157.067	-12.648	1.00	40.10	BS2	ATOM	14251	CG	ARG	64	147.801	159.832	-6.370	1.00	81.64	BS2
ATOM	14199	C2	PHE	57	152.964	156.372	-11.531	1.00	40.10	BS2	ATOM	14252	CD	ARG	64	149.030	161.680	-5.799	1.00	81.64	BS2
ATOM	14200	C	PHE	57	150.688	160.259	-13.130	1.00	47.33	BS2	ATOM	14253	NE	ARG	64	148.112	161.104	-6.572	1.00	81.64	BS2
ATOM	14201	O	PHE	57	151.110	160.047	-11.996	1.00	47.33	BS2	ATOM	14254	C2	ARG	64	147.780	159.832	-6.370	1.00	81.64	BS2
ATOM	14202	N	PHE	58	151.191	161.198	-13.921	1.00	52.06	BS2	ATOM	14255	NH1	ARG	64	147.508	161.807	-7.526	1.00	81.64	BS2
ATOM	14203	CA	PHE	58	152.301	162.021	-13.475	1.00	52.06	BS2	ATOM	14256	NH2	ARG	64	153.324	164.181	-3.538	1.00	41.70	BS2
ATOM	14204	CB	PHE	58	153.066	162.599	-14.694	1.00	60.61	BS2	ATOM	14257	C	ARG	64	153.621	163.841	-2.383	1.00	41.70	BS2
ATOM	14205	CG2	PHE	58	154.329	163.332	-14.231	1.00	60.61	BS2	ATOM	14258	O	ARG	64	154.210	164.690	-4.396	1.00	64.42	BS2
ATOM	14206	CG1	PHE	58	153.469	161.446	-15.625	1.00	60.61	BS2	ATOM	14259	N	GLY	65	155.603	164.863	-4.026	1.00	64.42	BS2
ATOM	14207	CD1	PHE	58	154.396	161.842	-16.749	1.00	60.61	BS2	ATOM	14260	CA	GLY	65	156.397	163.601	-4.293	1.00	64.42	BS2
ATOM	14208	C	PHE	58	151.895	163.129	-12.482	1.00	52.06	BS2	ATOM	14261	C	GLY	65	157.367	163.295	-3.601	1.00	64.42	BS2
ATOM	14209	O	PHE	58	152.574	163.311	-11.463	1.00	52.06	BS2	ATOM	14262	N	GLY	65	155.981	162.861	-5.310	1.00	80.15	BS2
ATOM	14210	N	GLU	59	150.810	163.863	-12.759	1.00	57.44	BS2	ATOM	14263	O	GLY	66	156.667	161.633	-5.636	1.00	80.15	BS2
ATOM	14211	CA	GLU	59	148.979	165.442	-12.232	1.00	94.20	BS2	ATOM	14264	CA	GLY	66	157.872	161.865	-6.514	1.00	80.15	BS2
ATOM	14212	CB	GLU	59	148.939	166.038	-13.619	1.00	94.20	BS2	ATOM	14265	C	GLY	66	157.870	162.746	-6.284	1.00	80.15	BS2
ATOM	14213	CG	GLU	59	147.862	167.090	-13.741	1.00	94.20	BS2	ATOM	14266	O	GLY	66	158.908	161.069	-7.056	1.00	62.14	BS2
ATOM	14214	CD	GLU	59	146.907	166.872	-10.517	1.00	94.20	BS2	ATOM	14267	N	THR	67	160.140	161.134	-7.056	1.00	62.14	BS2
ATOM	14215	OE1	GLU	59	150.190	164.169	-10.517	1.00	57.44	BS2	ATOM	14268	CA	THR	67	161.304	160.530	-6.266	1.00	50.24	BS2
ATOM	14216	OE2	GLU	59	150.534	164.680	-9.447	1.00	57.44	BS2	ATOM	14269	CB	THR	67	161.514	161.281	-5.066	1.00	50.24	BS2
ATOM	14217	O	GLU	59	149.644	162.963	-10.635	1.00	54.62	BS2	ATOM	14270	CG1	THR	67	162.563	160.538	-7.095	1.00	50.24	BS2
ATOM	14218	N	ASP	60	149.454	162.053	-9.520	1.00	54.62	BS2	ATOM	14271	C	THR	67	159.985	160.316	-8.343	1.00	62.14	BS2
ATOM	14219	CA	ASP	60	149.351	160.619	-10.081	1.00	54.62	BS2	ATOM	14272	CG2	THR	67	159.278	159.310	-8.371	1.00	62.14	BS2
ATOM	14220	CB	ASP	60	149.351	160.619	-10.081	1.00	54.62	BS2	ATOM	14273	O	THR	67	160.639	160.757	-9.410	1.00	53.24	BS2
ATOM	14221	CG	ASP	60	149.378	159.529	-9.004	1.00	137.76	BS2	ATOM	14274	N	THR	68	160.606	160.043	-10.682	1.00	53.24	BS2
ATOM	14222	CG	ASP	60	149.378	159.529	-9.004	1.00	137.76	BS2	ATOM	14275	CA	THR	68	160.606	160.043	-10.682	1.00	53.24	BS2

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ATOM	14276	CB	ILE	68	159.762	160.767	-11.730	1.00	34.50	BS2	ATOM	14329	CA	LVS	75	173.401	158.588	-26.550	1.00	90.10	BS2
ATOM	14277	CG2	ILE	68	160.002	160.159	-13.100	1.00	34.50	BS2	ATOM	14330	CB	LVS	75	174.631	158.295	-27.419	1.00	90.10	BS2
ATOM	14278	CG1	ILE	68	158.285	160.661	-11.371	1.00	34.50	BS2	ATOM	14331	CG	LVS	75	175.907	158.972	-26.929	1.00	129.79	BS2
ATOM	14279	CD1	ILE	68	157.361	161.261	-12.443	1.00	34.50	BS2	ATOM	14332	CD	LVS	75	175.743	160.487	-26.851	1.00	129.79	BS2
ATOM	14280	C	ILE	68	162.032	159.944	-11.198	1.00	53.24	BS2	ATOM	14333	CE	LVS	75	176.909	161.155	-26.120	1.00	129.79	BS2
ATOM	14281	O	ILE	68	162.643	160.948	-11.562	1.00	53.24	BS2	ATOM	14334	NZ	LVS	75	178.236	160.907	-26.761	1.00	90.10	BS2
ATOM	14282	N	LEU	69	162.573	158.733	-11.209	1.00	65.82	BS2	ATOM	14335	C	LVS	75	172.556	159.679	-27.208	1.00	90.10	BS2
ATOM	14283	CA	LEU	69	163.926	158.545	-11.690	1.00	65.82	BS2	ATOM	14336	O	LVS	75	172.753	160.867	-26.958	1.00	90.10	BS2
ATOM	14284	CB	LEU	69	164.536	157.276	-11.091	1.00	56.13	BS2	ATOM	14337	N	GLN	76	171.617	159.265	-28.048	1.00	81.53	BS2
ATOM	14285	CG	LEU	69	166.066	157.209	-11.132	1.00	56.13	BS2	ATOM	14338	CA	GLN	76	170.735	160.191	-28.742	1.00	81.53	BS2
ATOM	14286	CG1	LEU	69	166.589	156.008	-10.339	1.00	56.13	BS2	ATOM	14339	CB	GLN	76	169.744	159.397	-29.593	1.00	119.59	BS2
ATOM	14287	CD2	LEU	69	166.503	157.136	-12.579	1.00	56.13	BS2	ATOM	14340	CG	GLN	76	170.046	159.408	-31.067	1.00	119.59	BS2
ATOM	14288	C	LEU	69	163.872	158.447	-13.206	1.00	65.82	BS2	ATOM	14341	CD	GLN	76	169.848	160.781	-31.682	1.00	119.59	BS2
ATOM	14289	O	LEU	69	163.215	157.560	-13.757	1.00	65.82	BS2	ATOM	14342	OE1	GLN	76	170.663	161.689	-31.492	1.00	119.59	BS2
ATOM	14290	N	PHE	70	164.537	159.393	-13.868	1.00	66.10	BS2	ATOM	14343	NE2	GLN	76	168.749	160.947	-32.414	1.00	119.59	BS2
ATOM	14291	CA	PHE	70	164.601	159.430	-15.325	1.00	66.10	BS2	ATOM	14344	C	GLN	76	169.962	161.121	-27.800	1.00	81.53	BS2
ATOM	14292	CB	PHE	70	164.761	160.858	-15.836	1.00	57.66	BS2	ATOM	14345	O	GLN	76	169.491	162.181	-28.213	1.00	81.53	BS2
ATOM	14293	CG	PHE	70	163.506	161.673	-15.789	1.00	57.66	BS2	ATOM	14346	N	ALA	77	169.833	160.725	-26.537	1.00	77.21	BS2
ATOM	14294	CD1	PHE	70	162.991	162.119	-14.576	1.00	57.66	BS2	ATOM	14347	CA	ALA	77	167.767	160.853	-25.278	1.00	77.21	BS2
ATOM	14295	CG2	PHE	70	162.853	162.028	-16.974	1.00	57.66	BS2	ATOM	14348	CB	ALA	77	169.090	161.518	-25.563	1.00	77.21	BS2
ATOM	14296	CE1	PHE	70	161.840	162.912	-14.542	1.00	57.66	BS2	ATOM	14349	C	ALA	77	169.836	161.735	-24.258	1.00	77.21	BS2
ATOM	14297	CE2	PHE	70	161.708	162.815	-16.953	1.00	57.66	BS2	ATOM	14350	O	ALA	77	169.294	162.311	-23.317	1.00	77.21	BS2
ATOM	14298	CZ	PHE	70	161.200	163.259	-15.732	1.00	57.66	BS2	ATOM	14351	N	GLN	78	171.075	161.266	-24.202	1.00	57.02	BS2
ATOM	14299	C	PHE	70	165.808	158.627	-15.788	1.00	66.10	BS2	ATOM	14352	CA	GLN	78	171.892	161.408	-23.008	1.00	57.02	BS2
ATOM	14300	O	PHE	70	166.938	158.849	-15.321	1.00	66.10	BS2	ATOM	14353	CB	GLN	78	173.341	161.097	-23.353	1.00	93.78	BS2
ATOM	14301	N	VAL	71	165.566	157.701	-16.713	1.00	68.49	BS2	ATOM	14354	CG	GLN	78	174.013	160.203	-22.349	1.00	93.78	BS2
ATOM	14302	CA	VAL	71	166.629	156.869	-17.245	1.00	68.49	BS2	ATOM	14355	CD	GLN	78	175.412	159.810	-22.779	1.00	93.78	BS2
ATOM	14303	CB	VAL	71	166.420	155.391	-16.868	1.00	56.97	BS2	ATOM	14356	OE1	GLN	78	176.292	160.666	-22.925	1.00	93.78	BS2
ATOM	14304	CG1	VAL	71	167.643	154.591	-17.239	1.00	56.97	BS2	ATOM	14357	NE2	GLN	78	175.628	158.507	-22.988	1.00	93.78	BS2
ATOM	14305	CG2	VAL	71	166.167	155.262	-15.379	1.00	56.97	BS2	ATOM	14358	C	GLN	78	171.782	162.818	-22.416	1.00	57.02	BS2
ATOM	14306	C	VAL	71	166.720	156.999	-18.763	1.00	68.49	BS2	ATOM	14359	O	GLN	78	171.320	163.000	-21.292	1.00	57.02	BS2
ATOM	14307	O	VAL	71	165.763	156.707	-19.493	1.00	68.49	BS2	ATOM	14360	N	ASP	79	172.189	163.817	-23.191	1.00	96.66	BS2
ATOM	14308	N	GLY	72	167.887	157.466	-19.208	1.00	61.00	BS2	ATOM	14361	CA	ASP	79	172.154	165.211	-22.757	1.00	96.66	BS2
ATOM	14309	CA	GLY	72	168.185	157.646	-20.622	1.00	61.00	BS2	ATOM	14362	CB	ASP	79	172.529	166.109	-23.930	1.00	82.09	BS2
ATOM	14310	C	GLY	72	169.694	157.533	-20.836	1.00	61.00	BS2	ATOM	14363	CG	ASP	79	173.875	165.749	-24.519	1.00	82.09	BS2
ATOM	14311	O	GLY	72	170.442	158.479	-20.570	1.00	61.00	BS2	ATOM	14364	OD1	ASP	79	174.911	166.029	-23.868	1.00	82.09	BS2
ATOM	14312	N	THR	73	170.158	156.370	-21.283	1.00	59.35	BS2	ATOM	14365	OD2	ASP	79	173.891	165.167	-25.627	1.00	82.09	BS2
ATOM	14313	CA	THR	73	171.582	156.167	-21.532	1.00	59.35	BS2	ATOM	14366	C	ASP	79	170.801	165.639	-22.203	1.00	96.66	BS2
ATOM	14314	CG1	THR	73	172.022	154.775	-21.085	1.00	74.34	BS2	ATOM	14367	O	ASP	79	170.707	166.148	-21.080	1.00	96.66	BS2
ATOM	14315	CG2	THR	73	172.146	154.765	-19.658	1.00	74.34	BS2	ATOM	14368	N	ILE	80	169.755	165.435	-22.996	1.00	65.02	BS2
ATOM	14316	C	THR	73	173.349	154.391	-21.731	1.00	74.34	BS2	ATOM	14369	CA	ILE	80	168.418	165.815	-22.575	1.00	65.02	BS2
ATOM	14317	C	THR	73	171.835	156.348	-23.021	1.00	59.35	BS2	ATOM	14370	CB	ILE	80	167.384	165.385	-23.613	1.00	62.18	BS2
ATOM	14318	O	THR	73	172.854	156.304	-23.427	1.00	59.35	BS2	ATOM	14371	CG2	ILE	80	165.984	165.705	-23.127	1.00	62.18	BS2
ATOM	14319	N	LVS	74	170.891	155.855	-23.815	1.00	61.23	BS2	ATOM	14372	CG1	ILE	80	167.649	166.123	-24.919	1.00	62.18	BS2
ATOM	14320	CA	LVS	74	170.883	155.986	-25.269	1.00	61.23	BS2	ATOM	14373	CD1	ILE	80	166.697	165.743	-26.037	1.00	62.18	BS2
ATOM	14321	CB	LVS	74	169.406	155.995	-25.688	1.00	65.99	BS2	ATOM	14374	C	ILE	80	168.020	165.260	-21.204	1.00	65.02	BS2
ATOM	14322	CG	LVS	74	169.024	155.922	-27.151	1.00	65.99	BS2	ATOM	14375	O	ILE	80	167.614	166.011	-20.321	1.00	65.02	BS2
ATOM	14323	CD	LVS	74	167.531	155.564	-27.191	1.00	65.99	BS2	ATOM	14376	N	VAL	81	168.136	163.954	-21.014	1.00	73.06	BS2
ATOM	14324	CE	LVS	74	166.972	155.389	-28.590	1.00	65.99	BS2	ATOM	14377	CA	VAL	81	167.766	163.377	-19.732	1.00	73.06	BS2
ATOM	14325	NZ	LVS	74	166.864	156.686	-29.310	1.00	65.99	BS2	ATOM	14378	CB	VAL	81	168.199	161.900	-19.621	1.00	63.46	BS2
ATOM	14326	C	LVS	74	171.550	157.342	-25.546	1.00	61.23	BS2	ATOM	14379	CG1	VAL	81	167.965	161.389	-18.197	1.00	63.46	BS2
ATOM	14327	O	LVS	74	171.058	158.373	-25.092	1.00	61.23	BS2	ATOM	14380	CG2	VAL	81	167.407	161.056	-20.618	1.00	63.46	BS2
ATOM	14328	N	LVS	75	172.669	157.345	-26.269	1.00	90.10	BS2	ATOM	14381	C	VAL	81	168.343	164.163	-18.559	1.00	73.06	BS2

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ATOM 14382	O	VAL	81	167.747	164.186	-17.491	1.00	73.06	BS2	ATOM 14435	O	ARG	87	162.853	171.688	-13.671	1.00	58.81	BS2
ATOM 14383	N	ARG	82	169.493	164.809	-18.738	1.00	61.23	BS2	ATOM 14436	N	ALA	88	163.836	169.745	-13.092	1.00	63.09	BS2
ATOM 14384	CA	ARG	82	170.058	165.589	-17.634	1.00	61.23	BS2	ATOM 14437	CA	ALA	88	162.822	169.307	-12.133	1.00	63.09	BS2
ATOM 14385	CB	ARG	82	171.527	165.932	-17.876	1.00	61.43	BS2	ATOM 14438	CB	ALA	88	161.940	168.243	-12.741	1.00	40.99	BS2
ATOM 14386	CG	ARG	82	171.943	167.183	-17.118	1.00	91.43	BS2	ATOM 14439	C	ALA	88	163.651	166.731	-10.981	1.00	63.09	BS2
ATOM 14387	CD	ARG	82	173.433	167.399	-17.080	1.00	91.43	BS2	ATOM 14440	O	ALA	88	164.805	168.347	-11.173	1.00	63.09	BS2
ATOM 14388	NE	ARG	82	174.108	166.264	-16.467	1.00	91.43	BS2	ATOM 14441	N	GLY	89	163.096	168.661	-9.784	1.00	69.30	BS2
ATOM 14389	C2	ARG	82	175.170	166.362	-15.674	1.00	91.43	BS2	ATOM 14442	CA	GLY	89	163.898	168.158	-8.681	1.00	69.30	BS2
ATOM 14390	NH2	ARG	82	175.676	167.554	-15.385	1.00	91.43	BS2	ATOM 14443	C	GLY	89	164.282	166.697	-7.859	1.00	69.30	BS2
ATOM 14391	ARG	ARG	82	175.737	165.265	-15.185	1.00	91.43	BS2	ATOM 14444	O	GLY	89	164.843	166.110	-7.895	1.00	69.30	BS2
ATOM 14392	CA	ARG	82	169.266	166.888	-17.471	1.00	61.23	BS2	ATOM 14445	N	MET	90	164.013	166.119	-9.960	1.00	59.35	BS2
ATOM 14393	O	ARG	82	168.686	167.148	-16.411	1.00	61.23	BS2	ATOM 14446	CA	MET	90	164.261	164.704	-10.200	1.00	59.35	BS2
ATOM 14394	N	MET	83	169.260	167.639	-18.529	1.00	86.86	BS2	ATOM 14447	CB	MET	90	163.340	164.240	-11.324	1.00	70.81	BS2
ATOM 14395	CA	MET	83	168.530	168.964	-18.539	1.00	86.86	BS2	ATOM 14448	CG	MET	90	161.909	164.712	-11.122	1.00	70.81	BS2
ATOM 14396	CB	MET	83	168.290	169.421	-19.978	1.00	107.09	BS2	ATOM 14449	SD	MET	90	161.225	164.223	-9.505	1.00	70.81	BS2
ATOM 14397	CG	MET	83	169.545	169.703	-20.776	1.00	107.09	BS2	ATOM 14450	CE	MET	90	159.569	163.701	-10.028	1.00	70.81	BS2
ATOM 14398	SD	MET	83	170.332	171.253	-20.298	1.00	107.09	BS2	ATOM 14451	C	MET	90	165.627	164.967	-11.000	1.00	59.35	BS2
ATOM 14399	CE	MET	83	169.235	172.443	-21.101	1.00	107.09	BS2	ATOM 14452	O	MET	90	165.965	162.960	-10.115	1.00	77.26	BS2
ATOM 14400	C	MET	83	167.177	168.779	-17.857	1.00	86.86	BS2	ATOM 14453	N	PRO	91	165.114	162.199	-9.188	1.00	73.14	BS2
ATOM 14401	O	MET	83	167.017	169.063	-16.669	1.00	86.86	BS2	ATOM 14454	CD	PRO	91	167.248	162.270	-10.286	1.00	77.26	BS2
ATOM 14402	N	GLU	84	166.213	168.287	-18.629	1.00	56.77	BS2	ATOM 14455	CA	PRO	91	167.235	161.210	-9.178	1.00	73.14	BS2
ATOM 14403	CA	GLU	84	164.115	167.213	-19.174	1.00	78.73	BS2	ATOM 14456	CB	PRO	91	166.138	161.638	-8.251	1.00	73.14	BS2
ATOM 14404	CB	GLU	84	164.102	167.840	-20.534	1.00	78.73	BS2	ATOM 14457	CG	PRO	91	167.262	161.614	-11.662	1.00	77.26	BS2
ATOM 14405	CG	GLU	84	163.729	169.302	-20.467	1.00	78.73	BS2	ATOM 14458	C	PRO	91	166.205	161.450	-12.288	1.00	77.26	BS2
ATOM 14406	CD	GLU	84	162.639	169.614	-19.930	1.00	78.73	BS2	ATOM 14459	O	PRO	92	168.447	161.230	-12.130	1.00	44.97	BS2
ATOM 14407	OE1	GLU	84	164.528	170.137	-20.946	1.00	78.73	BS2	ATOM 14460	N	TYR	92	168.548	160.576	-13.431	1.00	44.97	BS2
ATOM 14408	OE2	GLU	84	164.775	167.384	-16.786	1.00	56.77	BS2	ATOM 14461	CA	TYR	92	168.583	161.631	-14.555	1.00	85.83	BS2
ATOM 14409	C	GLU	84	163.768	167.529	-16.089	1.00	56.77	BS2	ATOM 14462	CB	TYR	92	171.058	162.164	-14.575	1.00	85.83	BS2
ATOM 14410	O	GLU	85	165.810	166.651	-16.391	1.00	64.83	BS2	ATOM 14463	CG	TYR	92	172.138	163.014	-14.347	1.00	85.83	BS2
ATOM 14411	N	ALA	85	165.767	165.996	-15.089	1.00	64.83	BS2	ATOM 14464	CD1	TYR	92	169.528	163.930	-14.076	1.00	85.83	BS2
ATOM 14412	CA	ALA	85	166.645	164.758	-15.091	1.00	88.81	BS2	ATOM 14465	CE1	TYR	92	170.604	164.794	-13.844	1.00	85.83	BS2
ATOM 14413	CB	ALA	85	166.169	166.924	-13.939	1.00	64.83	BS2	ATOM 14466	CD2	TYR	92	171.909	164.324	-13.972	1.00	85.83	BS2
ATOM 14414	C	ALA	85	167.537	168.794	-13.182	1.00	79.50	BS2	ATOM 14467	CE2	TYR	92	169.780	159.691	-13.545	1.00	44.97	BS2
ATOM 14415	O	ALA	86	168.958	169.262	-13.475	1.00	84.83	BS2	ATOM 14468	CH	TYR	92	170.739	159.827	-12.777	1.00	44.97	BS2
ATOM 14416	N	GLU	86	169.904	168.140	-13.825	1.00	84.83	BS2	ATOM 14470	C	TYR	92	170.871	157.902	-14.791	1.00	53.90	BS2
ATOM 14417	CA	GLU	86	171.220	168.643	-14.385	1.00	84.83	BS2	ATOM 14471	O	TYR	92	170.871	157.902	-14.791	1.00	53.90	BS2
ATOM 14418	CB	GLU	86	171.185	169.520	-15.280	1.00	84.83	BS2	ATOM 14472	N	VAL	93	170.613	156.400	-14.564	1.00	50.59	BS2
ATOM 14419	CG	GLU	86	172.284	168.157	-13.938	1.00	84.83	BS2	ATOM 14473	CA	VAL	93	171.755	155.593	-15.185	1.00	50.59	BS2
ATOM 14420	CD	GLU	86	166.589	169.978	-13.262	1.00	79.50	BS2	ATOM 14474	CB	VAL	93	170.560	156.102	-13.065	1.00	50.59	BS2
ATOM 14421	OE1	GLU	86	166.436	170.745	-12.315	1.00	79.50	BS2	ATOM 14475	CG1	VAL	93	170.215	157.867	-17.103	1.00	53.90	BS2
ATOM 14422	OE2	GLU	86	165.951	170.106	-14.417	1.00	58.81	BS2	ATOM 14476	CG2	VAL	93	170.215	157.867	-17.103	1.00	53.90	BS2
ATOM 14423	C	GLU	86	164.998	171.173	-14.666	1.00	58.81	BS2	ATOM 14477	O	VAL	93	172.180	158.863	-16.571	1.00	48.79	BS2
ATOM 14424	O	GLU	87	164.631	171.162	-16.158	1.00	63.11	BS2	ATOM 14478	N	VAL	94	172.486	159.320	-17.921	1.00	48.79	BS2
ATOM 14425	N	ARG	87	164.013	172.434	-16.714	1.00	63.11	BS2	ATOM 14479	CA	ASN	94	172.717	160.829	-17.862	1.00	70.20	BS2
ATOM 14426	CA	ARG	87	162.507	172.319	-16.762	1.00	63.11	BS2	ATOM 14480	CB	ASN	94	172.428	161.496	-19.167	1.00	70.20	BS2
ATOM 14427	CB	ARG	87	161.965	172.815	-18.020	1.00	63.11	BS2	ATOM 14481	CG	ASN	94	171.691	160.950	-19.992	1.00	70.20	BS2
ATOM 14428	CG	ARG	87	160.709	172.624	-18.412	1.00	63.11	BS2	ATOM 14482	OD1	ASN	94	172.987	162.687	-19.370	1.00	70.20	BS2
ATOM 14429	CD	ARG	87	159.869	171.946	-17.640	1.00	63.11	BS2	ATOM 14483	ND2	ASN	94	173.657	158.642	-18.646	1.00	48.79	BS2
ATOM 14430	NE	ARG	87	160.289	173.103	-19.576	1.00	63.11	BS2	ATOM 14484	C	ASN	94	173.618	158.449	-19.862	1.00	48.79	BS2
ATOM 14431	C2	ARG	87	163.789	170.895	-13.759	1.00	58.81	BS2	ATOM 14485	O	ASN	95	174.707	158.306	-17.908	1.00	69.53	BS2
ATOM 14432	NH2	ARG	87						BS2	ATOM 14486	N	GLN							BS2
ATOM 14433	ARG	ARG								ATOM 14487	GLN								BS2

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ATOM	14488	CA	GLN	95	175.832	157.645	-18.526	1.00	69.53	BS2	ATOM	14541	SD	MET	101	172.201	153.265	-11.661	1.00	41.83	BS2
ATOM	14489	CB	GLN	95	177.098	157.797	-17.688	1.00	121.64	BS2	ATOM	14542	CE	MET	101	173.492	154.277	-10.943	1.00	41.83	BS2
ATOM	14490	CG	GLN	95	178.085	158.791	-18.283	1.00	121.64	BS2	ATOM	14543	C	MET	101	169.392	150.686	-8.006	1.00	51.08	BS2
ATOM	14491	CD	GLN	95	178.170	158.690	-19.800	1.00	121.64	BS2	ATOM	14544	O	MET	101	169.237	151.454	-7.067	1.00	51.08	BS2
ATOM	14492	OE1	GLN	95	177.231	159.053	-20.510	1.00	121.64	BS2	ATOM	14545	N	LEU	102	168.434	149.867	-8.423	1.00	39.17	BS2
ATOM	14493	ME2	GLN	95	179.292	158.188	-20.302	1.00	121.64	BS2	ATOM	14546	CA	LEU	102	167.147	149.810	-7.746	1.00	39.17	BS2
ATOM	14494	C	GLN	95	175.512	156.178	-18.717	1.00	69.53	BS2	ATOM	14547	CB	LEU	102	166.017	149.749	-8.764	1.00	32.97	BS2
ATOM	14495	O	GLN	95	175.200	155.761	-19.831	1.00	69.53	BS2	ATOM	14548	CG	LEU	102	165.488	151.077	-9.294	1.00	32.97	BS2
ATOM	14496	N	ARG	96	175.582	155.394	-17.642	1.00	72.42	BS2	ATOM	14549	CD1	LEU	102	166.658	151.961	-9.649	1.00	32.97	BS2
ATOM	14497	CA	ARG	96	175.288	153.968	-17.741	1.00	72.42	BS2	ATOM	14550	CD2	LEU	102	164.580	150.848	-10.505	1.00	32.97	BS2
ATOM	14498	CG	ARG	96	176.548	153.179	-18.112	1.00	174.40	BS2	ATOM	14551	C	LEU	102	167.112	148.555	-6.881	1.00	39.17	BS2
ATOM	14499	CG	ARG	96	176.490	152.546	-19.508	1.00	174.40	BS2	ATOM	14552	O	LEU	102	166.866	148.594	-5.680	1.00	39.17	BS2
ATOM	14500	CD	ARG	96	176.551	153.595	-20.621	1.00	174.40	BS2	ATOM	14553	N	THR	103	167.381	147.430	-7.510	1.00	43.12	BS2
ATOM	14501	NE	ARG	96	176.189	153.059	-21.934	1.00	174.40	BS2	ATOM	14554	CA	THR	103	167.350	146.169	-6.821	1.00	43.12	BS2
ATOM	14502	CZ	ARG	96	176.123	153.785	-23.047	1.00	174.40	BS2	ATOM	14555	CB	THR	103	167.468	145.033	-7.831	1.00	47.35	BS2
ATOM	14503	NH1	ARG	96	176.400	155.082	-23.010	1.00	174.40	BS2	ATOM	14556	OG1	THR	103	166.308	145.042	-8.675	1.00	47.35	BS2
ATOM	14504	NH2	ARG	96	175.763	153.222	-24.198	1.00	174.40	BS2	ATOM	14557	CG2	THR	103	167.536	143.722	-7.142	1.00	47.35	BS2
ATOM	14505	C	ARG	96	174.678	153.384	-16.482	1.00	72.42	BS2	ATOM	14558	O	THR	103	168.408	146.048	-5.740	1.00	43.12	BS2
ATOM	14506	O	ARG	96	175.271	153.414	-15.413	1.00	72.42	BS2	ATOM	14559	C	THR	103	168.195	145.355	-4.748	1.00	43.12	BS2
ATOM	14507	N	TRP	97	173.491	152.821	-16.634	1.00	38.59	BS2	ATOM	14560	N	ASN	104	169.547	146.712	-5.913	1.00	51.99	BS2
ATOM	14508	CA	TRP	97	172.766	152.237	-15.522	1.00	38.59	BS2	ATOM	14561	CA	ASN	104	170.587	146.642	-4.887	1.00	51.99	BS2
ATOM	14509	CB	TRP	97	171.391	151.793	-16.009	1.00	70.01	BS2	ATOM	14562	CB	ASN	104	171.863	145.987	-5.428	1.00	53.85	BS2
ATOM	14510	CG	TRP	97	170.331	151.862	-14.968	1.00	70.01	BS2	ATOM	14563	CG	ASN	104	172.843	145.609	-4.318	1.00	53.85	BS2
ATOM	14511	CD2	TRP	97	169.719	150.764	-14.324	1.00	70.01	BS2	ATOM	14564	OD1	ASN	104	172.543	145.751	-3.129	1.00	53.85	BS2
ATOM	14512	CE2	TRP	97	168.740	151.286	-13.442	1.00	70.01	BS2	ATOM	14565	ND2	ASN	104	174.016	145.119	-4.706	1.00	53.85	BS2
ATOM	14513	CE3	TRP	97	169.895	149.383	-14.406	1.00	70.01	BS2	ATOM	14566	C	ASN	104	170.885	148.047	-4.400	1.00	51.99	BS2
ATOM	14514	CD1	TRP	97	169.727	152.989	-14.464	1.00	70.01	BS2	ATOM	14567	O	ASN	104	172.039	148.414	-4.168	1.00	51.99	BS2
ATOM	14515	NE1	TRP	97	168.766	152.649	-13.547	1.00	70.01	BS2	ATOM	14568	N	PHE	105	169.809	148.811	-4.226	1.00	59.74	BS2
ATOM	14516	CE2	TRP	97	167.945	150.475	-12.657	1.00	70.01	BS2	ATOM	14569	CA	PHE	105	169.855	150.204	-3.787	1.00	59.74	BS2
ATOM	14517	CZ3	TRP	97	169.107	148.576	-13.630	1.00	70.01	BS2	ATOM	14570	CB	PHE	105	168.437	150.745	-3.647	1.00	59.03	BS2
ATOM	14518	CH2	TRP	97	168.131	149.123	-12.764	1.00	70.01	BS2	ATOM	14571	CG	PHE	105	168.386	152.221	-3.394	1.00	59.03	BS2
ATOM	14519	C	TRP	97	173.444	151.056	-14.830	1.00	38.59	BS2	ATOM	14572	CD1	PHE	105	168.701	153.122	-4.406	1.00	59.03	BS2
ATOM	14520	O	TRP	97	173.338	149.936	-15.304	1.00	38.59	BS2	ATOM	14573	CD2	PHE	105	168.021	152.716	-2.149	1.00	59.03	BS2
ATOM	14521	N	LEU	98	174.106	151.293	-13.702	1.00	38.12	BS2	ATOM	14574	CE1	PHE	105	168.649	154.496	-4.188	1.00	59.03	BS2
ATOM	14522	CA	LEU	98	174.562	150.207	-12.954	1.00	38.12	BS2	ATOM	14575	CE2	PHE	105	167.968	154.980	-2.953	1.00	59.03	BS2
ATOM	14523	CB	LEU	98	175.496	150.758	-11.739	1.00	35.89	BS2	ATOM	14576	CZ	PHE	105	168.283	154.980	-2.953	1.00	59.03	BS2
ATOM	14524	CG	LEU	98	176.233	152.090	-11.936	1.00	35.89	BS2	ATOM	14577	C	PHE	105	170.629	150.594	-2.521	1.00	59.74	BS2
ATOM	14525	CD1	LEU	98	177.260	152.256	-10.825	1.00	35.89	BS2	ATOM	14578	O	PHE	105	171.347	151.589	-2.527	1.00	59.74	BS2
ATOM	14526	CD2	LEU	98	176.913	152.134	-13.287	1.00	35.89	BS2	ATOM	14579	N	LYS	106	170.487	149.851	-1.432	1.00	63.67	BS2
ATOM	14527	C	LEU	98	173.728	149.157	-12.491	1.00	38.12	BS2	ATOM	14580	CA	LYS	106	171.200	150.259	-0.232	1.00	63.67	BS2
ATOM	14528	O	LEU	98	172.666	149.485	-11.964	1.00	38.12	BS2	ATOM	14581	CB	LYS	106	170.742	149.473	1.006	1.00	85.81	BS2
ATOM	14529	N	GLY	99	174.057	147.888	-12.692	1.00	45.73	BS2	ATOM	14582	CG	LYS	106	171.019	150.229	2.314	1.00	85.81	BS2
ATOM	14530	CA	GLY	99	173.142	146.824	-12.326	1.00	45.73	BS2	ATOM	14583	CD	LYS	106	171.266	149.304	3.505	1.00	85.81	BS2
ATOM	14531	O	GLY	99	172.885	146.752	-10.846	1.00	45.73	BS2	ATOM	14584	CE	LYS	106	169.995	148.595	3.991	1.00	85.81	BS2
ATOM	14532	C	GLY	99	173.815	146.535	-10.064	1.00	45.73	BS2	ATOM	14585	NZ	LYS	106	170.247	147.656	5.146	1.00	85.81	BS2
ATOM	14533	N	GLY	100	171.623	146.934	-10.465	1.00	50.80	BS2	ATOM	14586	C	LYS	106	172.709	150.128	-0.390	1.00	63.67	BS2
ATOM	14534	CA	GLY	100	171.239	146.884	-9.062	1.00	50.80	BS2	ATOM	14587	O	LYS	106	173.472	150.650	0.430	1.00	63.67	BS2
ATOM	14535	C	GLY	100	170.968	148.244	-8.434	1.00	50.80	BS2	ATOM	14588	N	THR	107	173.151	149.480	-1.431	1.00	62.29	BS2
ATOM	14536	O	GLY	100	170.759	148.345	-7.216	1.00	50.80	BS2	ATOM	14589	CA	THR	107	174.584	147.281	-1.656	1.00	62.29	BS2
ATOM	14537	N	MET	101	170.968	149.295	-9.255	1.00	51.08	BS2	ATOM	14590	CB	THR	107	174.910	147.936	-2.320	1.00	46.06	BS2
ATOM	14538	CA	MET	101	170.718	150.638	-8.747	1.00	51.08	BS2	ATOM	14591	OG1	THR	107	174.801	146.892	-1.349	1.00	46.06	BS2
ATOM	14539	CB	MET	101	170.738	151.665	-9.879	1.00	41.83	BS2	ATOM	14592	CG2	THR	107	176.311	147.942	-2.877	1.00	46.06	BS2
ATOM	14540	CG	MET	101	172.133	151.916	-10.447	1.00	41.83	BS2	ATOM	14593	C	THR	107	175.059	150.414	-2.553	1.00	62.29	BS2

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ATOM	14594	O	THR	107	175.970	151.172	-2.199	1.00	62.29	BS2	ATOM	14647	CA	ARG	114	181.350	157.882	-0.825	1.00	88.68	BS2
ATOM	14595	N	ME	108	174.432	150.528	-3.719	1.00	49.02	BS2	ATOM	14648	CB	ARG	114	181.794	156.742	-1.740	1.00	83.88	BS2
ATOM	14596	CA	YLE	108	174.777	151.577	-4.655	1.00	49.02	BS2	ATOM	14649	CG	ARG	114	182.909	155.888	-1.169	1.00	83.88	BS2
ATOM	14597	CB	ILE	108	173.931	151.459	-5.935	1.00	75.04	BS2	ATOM	14650	CD	ARG	114	184.148	156.706	-0.843	1.00	83.88	BS2
ATOM	14598	CG2	ILE	108	174.142	152.673	-6.854	1.00	75.04	BS2	ATOM	14651	NE	ARG	114	185.301	155.846	-0.594	1.00	83.88	BS2
ATOM	14599	CG1	ILE	108	174.306	150.158	-6.642	1.00	75.04	BS2	ATOM	14652	C2	ARG	114	186.480	156.284	-0.166	1.00	83.88	BS2
ATOM	14600	CD1	ILE	108	173.661	149.986	-7.984	1.00	75.04	BS2	ATOM	14653	NH1	ARG	114	186.658	157.579	0.068	1.00	83.88	BS2
ATOM	14601	C	ILE	108	173.978	152.926	-3.988	1.00	49.02	BS2	ATOM	14654	NH2	ARG	114	187.481	155.430	0.020	1.00	83.88	BS2
ATOM	14602	O	ILE	108	174.578	153.958	-4.503	1.00	49.02	BS2	ATOM	14655	C	ARG	114	181.553	159.222	-1.535	1.00	88.68	BS2
ATOM	14603	N	SER	109	173.896	152.917	-2.835	1.00	100.00	BS2	ATOM	14656	O	ARG	114	182.413	160.009	-1.146	1.00	88.68	BS2
ATOM	14604	CB	SER	109	173.661	154.151	-2.098	1.00	100.00	BS2	ATOM	14657	N	LEU	115	180.754	159.476	-2.571	1.00	71.96	BS2
ATOM	14605	CB	SER	109	172.604	153.951	-1.013	1.00	103.78	BS2	ATOM	14658	CA	LEU	115	180.862	160.713	-3.332	1.00	71.96	BS2
ATOM	14606	OG	SER	109	173.165	153.299	0.118	1.00	103.78	BS2	ATOM	14659	CB	LEU	115	179.717	160.837	-4.333	1.00	60.34	BS2
ATOM	14607	C	SER	109	174.993	154.477	-1.439	1.00	100.00	BS2	ATOM	14660	CG	LEU	115	179.760	162.139	-5.142	1.00	60.34	BS2
ATOM	14608	O	SER	109	175.444	155.626	-1.453	1.00	100.00	BS2	ATOM	14661	CD1	LEU	115	181.061	162.196	-5.924	1.00	60.34	BS2
ATOM	14609	N	GLN	110	175.613	153.449	-0.862	1.00	64.42	BS2	ATOM	14662	CD2	LEU	115	178.578	162.226	-6.095	1.00	60.34	BS2
ATOM	14610	CA	GLN	110	176.900	153.602	-0.201	1.00	64.42	BS2	ATOM	14663	C	LEU	115	180.856	161.917	-2.407	1.00	71.96	BS2
ATOM	14611	CB	GLN	110	177.481	152.248	0.158	1.00	83.24	BS2	ATOM	14664	O	LEU	115	181.671	162.830	-2.560	1.00	71.96	BS2
ATOM	14612	CG	GLN	110	176.755	151.534	1.254	1.00	83.24	BS2	ATOM	14665	N	GLU	116	179.935	161.916	-1.446	1.00	68.86	BS2
ATOM	14613	CD	GLN	110	177.191	150.094	1.342	1.00	83.24	BS2	ATOM	14666	CA	GLU	116	179.835	163.007	-0.486	1.00	68.86	BS2
ATOM	14614	OE1	GLN	110	177.096	149.354	0.362	1.00	83.24	BS2	ATOM	14667	CB	GLU	116	178.671	162.762	0.477	1.00	77.95	BS2
ATOM	14615	OE2	GLN	110	177.676	149.682	2.511	1.00	84.42	BS2	ATOM	14668	CG	GLU	116	177.357	162.605	-0.263	1.00	77.95	BS2
ATOM	14616	C	GLN	110	177.852	154.301	-1.142	1.00	64.42	BS2	ATOM	14669	CD	GLU	116	176.134	162.529	0.629	1.00	77.95	BS2
ATOM	14617	O	GLN	110	178.668	155.132	-0.730	1.00	64.42	BS2	ATOM	14670	OE1	GLU	116	176.015	161.556	1.412	1.00	77.95	BS2
ATOM	14618	N	ARG	111	177.759	153.953	-2.416	1.00	72.05	BS2	ATOM	14671	OE2	GLU	116	175.284	163.445	0.532	1.00	77.95	BS2
ATOM	14619	CA	ARG	111	178.613	154.580	-3.399	1.00	72.05	BS2	ATOM	14672	C	GLU	116	181.148	163.066	0.267	1.00	68.86	BS2
ATOM	14620	CB	ARG	111	178.428	153.907	-4.757	1.00	67.72	BS2	ATOM	14673	O	GLU	116	181.912	164.015	0.123	1.00	68.86	BS2
ATOM	14621	CG	ARG	111	179.246	152.641	-4.906	1.00	67.72	BS2	ATOM	14674	N	GLU	117	184.421	162.024	1.039	1.00	70.39	BS2
ATOM	14622	CD	ARG	111	180.725	152.979	-4.952	1.00	67.72	BS2	ATOM	14675	CA	GLU	117	182.642	161.947	1.817	1.00	70.39	BS2
ATOM	14623	NE	ARG	111	181.447	152.619	-3.731	1.00	67.72	BS2	ATOM	14676	CB	GLU	117	182.916	160.513	2.229	1.00	97.68	BS2
ATOM	14624	C2	ARG	111	182.718	152.955	-3.439	1.00	67.72	BS2	ATOM	14677	CG	GLU	117	184.101	160.406	3.140	1.00	97.68	BS2
ATOM	14625	NH1	ARG	111	183.397	153.665	-4.404	1.00	67.72	BS2	ATOM	14678	CD	GLU	117	184.274	159.015	3.681	1.00	97.68	BS2
ATOM	14626	NH2	ARG	111	183.322	152.570	-2.376	1.00	67.72	BS2	ATOM	14679	OE1	GLU	117	184.642	158.120	2.889	1.00	97.68	BS2
ATOM	14627	C	ARG	111	178.344	156.086	-3.478	1.00	72.05	BS2	ATOM	14680	OE2	GLU	117	184.032	158.816	4.894	1.00	97.68	BS2
ATOM	14628	O	ARG	111	179.218	156.849	-3.888	1.00	72.05	BS2	ATOM	14681	C	GLU	117	183.863	162.490	1.095	1.00	70.39	BS2
ATOM	14629	N	VAL	112	177.149	156.525	-3.082	1.00	61.51	BS2	ATOM	14682	O	GLU	117	184.585	163.318	1.643	1.00	95.22	BS2
ATOM	14630	CA	VAL	112	176.861	157.958	-3.107	1.00	61.51	BS2	ATOM	14683	N	LEU	118	184.107	162.026	-0.128	1.00	95.22	BS2
ATOM	14631	CB	VAL	112	175.356	158.276	-3.237	1.00	47.11	BS2	ATOM	14684	CA	LEU	118	185.262	162.506	-0.880	1.00	95.22	BS2
ATOM	14632	CG1	VAL	112	175.172	159.760	-3.566	1.00	47.11	BS2	ATOM	14685	CB	LEU	118	185.433	161.737	-2.194	1.00	70.92	BS2
ATOM	14633	CG2	VAL	112	174.732	157.419	-4.332	1.00	47.11	BS2	ATOM	14686	CG	LEU	118	185.962	160.299	-2.128	1.00	70.92	BS2
ATOM	14634	C	VAL	112	177.389	158.578	-1.818	1.00	61.51	BS2	ATOM	14687	CD1	LEU	118	186.557	159.911	-3.490	1.00	70.92	BS2
ATOM	14635	O	VAL	112	177.845	159.716	-1.822	1.00	61.51	BS2	ATOM	14688	CD2	LEU	118	187.023	160.190	-1.045	1.00	70.92	BS2
ATOM	14636	N	HIS	113	177.337	157.831	-0.717	1.00	61.39	BS2	ATOM	14689	C	LEU	118	185.155	163.991	-1.178	1.00	95.22	BS2
ATOM	14637	CA	HIS	113	177.869	158.343	0.544	1.00	61.39	BS2	ATOM	14690	N	LEU	118	185.960	164.777	-0.680	1.00	95.22	BS2
ATOM	14638	CB	HIS	113	177.694	157.328	1.674	1.00	113.36	BS2	ATOM	14691	O	GLU	119	184.165	164.372	-1.983	1.00	58.14	BS2
ATOM	14639	CG	HIS	113	176.272	157.151	2.098	1.00	113.36	BS2	ATOM	14692	CA	GLU	119	183.959	165.776	-2.344	1.00	58.14	BS2
ATOM	14640	CD2	HIS	113	175.509	156.041	2.227	1.00	113.36	BS2	ATOM	14693	CB	GLU	119	182.503	166.007	-2.741	1.00	111.61	BS2
ATOM	14641	ND1	HIS	113	175.458	158.216	2.417	1.00	113.36	BS2	ATOM	14694	CG	GLU	119	182.133	165.387	-4.064	1.00	111.61	BS2
ATOM	14642	CE1	HIS	113	174.252	157.769	2.721	1.00	113.36	BS2	ATOM	14695	CD	GLU	119	180.650	165.449	-4.333	1.00	111.61	BS2
ATOM	14643	NE2	HIS	113	174.256	156.453	2.613	1.00	113.36	BS2	ATOM	14696	OE1	GLU	119	179.889	164.809	-3.575	1.00	111.61	BS2
ATOM	14644	C	HIS	113	179.342	158.600	0.304	1.00	61.39	BS2	ATOM	14697	OE2	GLU	119	180.247	166.137	-5.298	1.00	111.61	BS2
ATOM	14645	O	HIS	113	179.915	159.559	0.809	1.00	61.39	BS2	ATOM	14698	C	GLU	119	184.330	166.727	-1.210	1.00	58.14	BS2
ATOM	14646	N	ARG	114	179.949	157.732	-0.491	1.00	88.68	BS2	ATOM	14699	O	GLU	119	184.921	167.787	-1.436	1.00	58.14	BS2

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ATOM	14700	N	ALA	120	183.972	166.334	0.008	1.00112.23	BS2	ATOM	14753	CB	ILE	127	193.936	169.444	0.761	1.00108.27	BS2
ATOM	14701	CA	ALA	120	184.257	167.126	1.192	1.00112.23	BS2	ATOM	14754	CG2	ILE	127	194.667	169.285	-0.565	1.00108.27	BS2
ATOM	14702	CB	ALA	120	183.423	166.625	2.363	1.0054.45	BS2	ATOM	14755	CG1	ILE	127	192.507	169.941	0.541	1.00108.27	BS2
ATOM	14703	C	ALA	120	185.747	167.044	1.519	1.00112.23	BS2	ATOM	14756	CD1	ILE	127	192.421	171.234	-0.248	1.00108.27	BS2
ATOM	14704	O	ALA	120	186.517	167.924	1.131	1.00112.23	BS2	ATOM	14757	C	ILE	127	195.310	167.505	1.485	1.00174.48	BS2
ATOM	14705	N	LEU	121	186.153	165.990	2.224	1.00101.39	BS2	ATOM	14758	O	ILE	127	195.520	166.419	0.934	1.00174.48	BS2
ATOM	14706	CA	LEU	121	187.559	165.809	2.582	1.00101.39	BS2	ATOM	14759	N	GLU	128	196.264	168.219	2.073	1.00151.74	BS2
ATOM	14707	CB	LEU	121	187.872	164.333	2.811	1.0085.55	BS2	ATOM	14760	CA	GLU	128	197.640	167.757	2.078	1.00151.74	BS2
ATOM	14708	CG	LEU	121	189.369	164.075	3.022	1.0085.55	BS2	ATOM	14761	CB	GLU	128	198.592	168.909	1.752	1.00144.27	BS2
ATOM	14709	CD1	LEU	121	189.777	164.612	4.397	1.0085.55	BS2	ATOM	14762	CD	GLU	128	198.511	169.354	0.303	1.00144.27	BS2
ATOM	14710	CD2	LEU	121	189.676	162.585	2.897	1.0085.55	BS2	ATOM	14763	CG	GLU	128	198.133	168.212	-0.634	1.00144.27	BS2
ATOM	14711	C	LEU	121	188.489	166.322	1.492	1.00101.39	BS2	ATOM	14764	OE1	GLU	128	198.682	167.094	-0.483	1.00144.27	BS2
ATOM	14712	O	LEU	121	189.492	166.977	1.778	1.00101.39	BS2	ATOM	14765	OE2	GLU	128	197.287	168.439	-1.526	1.00144.27	BS2
ATOM	14713	N	PHE	122	188.156	165.997	0.247	1.00124.37	BS2	ATOM	14766	C	GLU	128	198.108	167.036	3.330	1.00151.74	BS2
ATOM	14714	CA	PHE	122	188.944	166.415	-0.906	1.00124.37	BS2	ATOM	14767	O	GLU	128	198.044	167.547	4.448	1.00151.74	BS2
ATOM	14715	CB	PHE	122	188.189	166.108	-2.194	1.00130.07	BS2	ATOM	14768	N	GLU	129	198.581	165.823	3.087	1.00120.52	BS2
ATOM	14716	CG	PHE	122	189.077	165.712	-3.331	1.00130.07	BS2	ATOM	14769	CA	GLU	129	199.114	164.904	4.077	1.00120.52	BS2
ATOM	14717	CD1	PHE	122	189.849	164.555	-3.250	1.00130.07	BS2	ATOM	14770	CB	GLU	129	198.302	164.891	5.375	1.00164.11	BS2
ATOM	14718	CD2	PHE	122	189.134	166.480	-4.488	1.00130.07	BS2	ATOM	14771	CG	GLU	129	199.106	164.346	6.559	1.00164.11	BS2
ATOM	14719	CE1	PHE	122	190.664	164.164	-4.307	1.00130.07	BS2	ATOM	14772	CD	GLU	129	198.251	163.633	7.590	1.00164.11	BS2
ATOM	14720	CE2	PHE	122	189.948	166.095	-5.551	1.00130.07	BS2	ATOM	14773	OE1	GLU	129	197.697	162.559	7.264	1.00164.11	BS2
ATOM	14721	C2	PHE	122	190.712	164.934	-5.456	1.00130.07	BS2	ATOM	14774	OE2	GLU	129	198.137	164.145	8.725	1.00164.11	BS2
ATOM	14722	C	PHE	122	189.217	167.910	-0.816	1.00124.37	BS2	ATOM	14775	C	GLU	129	198.939	163.587	2.720	1.00120.52	BS2
ATOM	14723	O	PHE	122	190.335	168.326	-0.514	1.00124.37	BS2	ATOM	14776	O	GLU	129	197.901	163.357	2.720	1.00120.52	BS2
ATOM	14724	N	ALA	123	188.194	168.716	-1.088	1.00155.44	BS2	ATOM	14777	N	ARG	130	199.950	162.731	3.427	1.00143.66	BS2
ATOM	14725	CA	ALA	123	188.329	170.165	-0.995	1.00155.44	BS2	ATOM	14778	CA	ARG	130	199.918	161.457	2.729	1.00143.66	BS2
ATOM	14726	CB	ALA	123	187.051	170.843	-1.476	1.0057.03	BS2	ATOM	14779	CB	ARG	130	198.750	160.591	3.220	1.00139.75	BS2
ATOM	14727	C	ALA	123	188.558	170.466	0.486	1.00155.44	BS2	ATOM	14780	CG	ARG	130	199.020	159.945	4.583	1.00139.75	BS2
ATOM	14728	O	ALA	123	188.974	169.585	1.240	1.00155.44	BS2	ATOM	14781	CD	ARG	130	200.346	159.171	4.558	1.00139.75	BS2
ATOM	14729	N	SER	124	188.299	171.701	0.908	1.00144.07	BS2	ATOM	14782	NE	ARG	130	200.853	158.820	5.887	1.00139.75	BS2
ATOM	14730	CA	SER	124	188.457	172.061	2.315	1.00144.07	BS2	ATOM	14783	C2	ARG	130	200.326	157.888	6.880	1.00139.75	BS2
ATOM	14731	CB	SER	124	187.369	171.343	3.124	1.00107.69	BS2	ATOM	14784	NH1	ARG	130	199.263	157.208	6.285	1.00139.75	BS2
ATOM	14732	CG	SER	124	187.630	169.948	3.209	1.00107.69	BS2	ATOM	14785	NH2	ARG	130	200.867	157.638	7.868	1.00139.75	BS2
ATOM	14733	C	SER	124	189.864	171.710	2.853	1.00144.07	BS2	ATOM	14786	C	ARG	130	199.838	161.729	1.221	1.00143.66	BS2
ATOM	14734	O	SER	124	190.833	171.695	2.092	1.00144.07	BS2	ATOM	14787	O	ARG	130	199.013	162.519	0.758	1.00143.66	BS2
ATOM	14735	N	PRO	125	190.000	171.444	4.172	1.00147.39	BS2	ATOM	14788	N	PRO	131	200.703	161.055	0.445	1.00130.71	BS2
ATOM	14736	CA	PRO	125	189.105	171.714	5.318	1.00166.84	BS2	ATOM	14789	CD	PRO	131	201.151	159.757	0.997	1.00115.50	BS2
ATOM	14737	CB	PRO	125	191.342	171.112	4.661	1.00147.39	BS2	ATOM	14790	CA	PRO	131	200.921	161.069	-1.005	1.00130.71	BS2
ATOM	14738	CG	PRO	125	191.296	171.570	6.112	1.00166.84	BS2	ATOM	14791	CB	PRO	131	200.808	159.598	-0.247	1.00115.50	BS2
ATOM	14739	CG	PRO	125	189.905	171.192	6.502	1.00166.84	BS2	ATOM	14792	CG	PRO	131	201.579	158.973	-0.247	1.00115.50	BS2
ATOM	14740	C	PRO	125	191.670	169.632	4.558	1.00147.39	BS2	ATOM	14793	C	PRO	131	200.068	161.943	-1.919	1.00130.71	BS2
ATOM	14741	O	PRO	125	190.975	168.868	3.883	1.00147.39	BS2	ATOM	14794	O	PRO	131	199.046	162.504	-1.523	1.00130.71	BS2
ATOM	14742	N	GLU	126	192.731	169.243	5.260	1.00137.56	BS2	ATOM	14795	N	GLU	132	200.539	162.063	-3.155	1.00143.66	BS2
ATOM	14743	CA	GLU	126	193.202	167.867	5.276	1.00137.56	BS2	ATOM	14796	CA	GLU	132	199.835	162.796	-4.192	1.00143.66	BS2
ATOM	14744	CB	GLU	126	192.055	166.911	5.625	1.00147.63	BS2	ATOM	14797	CB	GLU	132	200.779	163.692	-4.995	1.00109.64	BS2
ATOM	14745	CG	GLU	126	192.495	165.466	5.744	1.00147.63	BS2	ATOM	14798	CG	GLU	132	201.190	164.962	-4.283	1.00109.64	BS2
ATOM	14746	CD	GLU	126	193.741	165.320	6.590	1.00147.63	BS2	ATOM	14799	CD	GLU	132	201.871	165.918	-5.249	1.00109.64	BS2
ATOM	14747	OE1	GLU	126	193.707	165.725	7.773	1.00147.63	BS2	ATOM	14800	CE	GLU	132	202.243	167.235	-4.574	1.00109.64	BS2
ATOM	14748	OE2	GLU	126	194.757	164.808	6.072	1.00147.63	BS2	ATOM	14801	N2	GLU	132	202.920	166.193	-5.504	1.00109.64	BS2
ATOM	14749	C	GLU	126	193.797	167.502	3.918	1.00137.56	BS2	ATOM	14802	C	GLU	132	199.279	161.699	-5.084	1.00143.66	BS2
ATOM	14750	O	GLU	126	193.460	166.537	3.803	1.00137.56	BS2	ATOM	14803	O	GLU	132	198.528	161.958	-6.023	1.00143.66	BS2
ATOM	14751	N	ILE	127	193.440	168.290	2.903	1.00174.48	BS2	ATOM	14804	N	GLU	133	199.673	160.464	-4.774	1.00166.29	BS2
ATOM	14752	CA	ILE	127	193.911	168.100	1.531	1.00174.48	BS2	ATOM	14805	CA	GLU	133	199.217	159.288	-5.507	1.00166.29	BS2

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ATOM	14806	CB	LVS	133	200.205	158.134	-5.329	1.00171.56	BS2	ATOM	14859	CB	LVS	139	192.356	162.837	-8.310	1.00152.36	BS2
ATOM	14807	CG	LVS	133	201.519	158.356	-6.069	1.00171.56	BS2	ATOM	14860	CG	LVS	139	192.945	164.115	-7.743	1.00152.36	BS2
ATOM	14808	CD	LVS	133	202.419	157.132	-6.011	1.00171.56	BS2	ATOM	14861	CD	LVS	139	192.135	165.338	-8.143	1.00152.36	BS2
ATOM	14809	CE	LVS	133	203.655	157.321	-6.882	1.00171.56	BS2	ATOM	14862	CE	LVS	139	192.853	166.618	-7.730	1.00152.36	BS2
ATOM	14810	NZ	LVS	133	204.591	156.158	-6.832	1.00171.56	BS2	ATOM	14863	NZ	LVS	139	193.215	166.636	-6.282	1.00152.36	BS2
ATOM	14811	C	LVS	133	197.837	158.910	-4.979	1.00166.29	BS2	ATOM	14864	C	LVS	139	190.230	161.622	-8.677	1.00103.99	BS2
ATOM	14812	O	LVS	133	196.985	158.431	-5.727	1.00166.29	BS2	ATOM	14865	O	LVS	139	189.293	162.196	-9.231	1.00103.99	BS2
ATOM	14813	N	GLU	134	197.626	159.115	-3.681	1.00140.83	BS2	ATOM	14866	N	HIS	140	190.581	160.365	-8.946	1.00158.93	BS2
ATOM	14814	CA	GLU	134	196.322	158.861	-3.088	1.00140.83	BS2	ATOM	14867	CA	HIS	140	189.866	159.545	-9.920	1.00158.93	BS2
ATOM	14815	CB	GLU	134	196.391	158.915	-1.566	1.00153.43	BS2	ATOM	14868	CB	HIS	140	190.694	158.315	-10.313	1.00141.76	BS2
ATOM	14816	CD	GLU	134	197.069	157.738	-0.914	1.00153.43	BS2	ATOM	14869	CD	HIS	140	192.076	158.639	-10.798	1.00141.76	BS2
ATOM	14817	CE	GLU	134	197.144	157.901	0.588	1.00153.43	BS2	ATOM	14870	CE	HIS	140	193.268	158.039	-10.561	1.00141.76	BS2
ATOM	14818	OEL	GLU	134	197.865	158.812	1.047	1.00153.43	BS2	ATOM	14871	NDI	HIS	140	192.339	159.686	-11.656	1.00141.76	BS2
ATOM	14819	OEL	GLU	134	196.473	157.130	1.307	1.00153.43	BS2	ATOM	14872	CEL	HIS	140	193.633	159.717	-11.925	1.00141.76	BS2
ATOM	14820	C	GLU	134	195.516	160.045	-3.596	1.00140.83	BS2	ATOM	14873	NEZ	HIS	140	194.219	158.729	-11.273	1.00141.76	BS2
ATOM	14821	O	GLU	134	194.344	159.925	-3.951	1.00140.83	BS2	ATOM	14874	C	HIS	140	188.521	159.091	-9.357	1.00158.93	BS2
ATOM	14822	N	GLN	135	196.187	161.194	-3.627	1.00120.50	BS2	ATOM	14875	O	HIS	140	187.490	159.280	-10.005	1.00158.93	BS2
ATOM	14823	CA	GLN	135	195.624	162.450	-4.104	1.00120.50	BS2	ATOM	14876	N	GLU	141	188.530	158.487	-8.166	1.0086.69	BS2
ATOM	14824	CB	GLN	135	196.573	163.599	-3.742	1.00138.59	BS2	ATOM	14877	CA	GLU	141	187.443	157.872	-6.031	1.0086.69	BS2
ATOM	14825	CG	GLN	135	196.254	164.943	-4.370	1.00138.59	BS2	ATOM	14878	CB	GLU	141	187.443	157.872	-6.031	1.0086.69	BS2
ATOM	14826	CD	GLN	135	197.234	166.019	-3.942	1.00138.59	BS2	ATOM	14879	CD	GLU	141	188.146	156.611	-5.602	1.0086.69	BS2
ATOM	14827	OEL	GLN	135	198.420	165.749	-3.748	1.00138.59	BS2	ATOM	14880	CG	GLU	141	187.533	156.026	-4.341	1.0086.69	BS2
ATOM	14828	NEZ	GLN	135	196.747	167.248	-3.805	1.00138.59	BS2	ATOM	14881	OEL	GLU	141	187.397	156.757	-4.335	1.0086.69	BS2
ATOM	14829	C	GLN	135	195.456	162.335	-5.621	1.00120.50	BS2	ATOM	14882	OEL	GLU	141	187.176	154.831	-4.335	1.0086.69	BS2
ATOM	14830	O	GLN	135	195.293	163.331	-6.331	1.00120.50	BS2	ATOM	14883	O	GLU	141	186.201	159.070	-7.794	1.0086.69	BS2
ATOM	14831	N	VAL	136	195.516	161.095	-6.099	1.0092.58	BS2	ATOM	14884	N	LEU	142	185.188	158.783	-8.427	1.0086.69	BS2
ATOM	14832	CA	VAL	136	195.355	160.771	-7.509	1.0092.58	BS2	ATOM	14885	CA	LEU	142	185.462	161.340	-7.505	1.0086.69	BS2
ATOM	14833	CB	VAL	136	196.662	160.218	-8.130	1.00116.95	BS2	ATOM	14886	CB	LEU	142	186.036	162.693	-7.079	1.0086.69	BS2
ATOM	14834	CG1	VAL	136	196.344	159.344	-9.339	1.00116.95	BS2	ATOM	14887	CG	LEU	142	185.986	163.002	-5.580	1.0086.69	BS2
ATOM	14835	CG2	VAL	136	197.555	161.370	-8.559	1.00116.95	BS2	ATOM	14888	CG	LEU	142	186.446	164.427	-5.348	1.0086.69	BS2
ATOM	14836	C	VAL	136	194.273	159.710	-7.605	1.0092.58	BS2	ATOM	14889	CD1	LEU	142	184.567	162.833	-5.053	1.0086.69	BS2
ATOM	14837	O	VAL	136	193.299	159.886	-8.329	1.0092.58	BS2	ATOM	14890	CD2	LEU	142	185.096	161.372	-8.972	1.0086.69	BS2
ATOM	14838	N	ARG	137	194.452	158.613	-6.868	1.00130.02	BS2	ATOM	14891	C	LEU	142	185.096	161.372	-8.972	1.0086.69	BS2
ATOM	14839	CA	ARG	137	193.474	157.528	-6.859	1.00130.02	BS2	ATOM	14892	O	LEU	142	186.104	161.536	-9.825	1.0086.69	BS2
ATOM	14840	CB	ARG	137	193.875	156.435	-6.099	1.00119.82	BS2	ATOM	14893	N	GLU	143	185.895	161.602	-11.268	1.0086.69	BS2
ATOM	14841	CG	ARG	137	195.250	155.834	-5.299	1.00119.82	BS2	ATOM	14894	CA	GLU	143	187.207	161.327	-12.013	1.00141.95	BS2
ATOM	14842	CD	ARG	137	195.447	154.540	-5.299	1.00119.82	BS2	ATOM	14895	CB	GLU	143	187.207	161.327	-12.013	1.00141.95	BS2
ATOM	14843	NE	ARG	137	195.102	154.668	-3.880	1.00119.82	BS2	ATOM	14896	CG	GLU	143	187.796	163.758	-12.458	1.00141.95	BS2
ATOM	14844	C2	ARG	137	193.877	154.512	-3.381	1.00119.82	BS2	ATOM	14897	CD	GLU	143	187.730	163.865	-13.703	1.00141.95	BS2
ATOM	14845	NH1	ARG	137	192.855	154.216	-4.179	1.00119.82	BS2	ATOM	14898	OEL	GLU	143	187.503	164.695	-11.685	1.00141.95	BS2
ATOM	14846	NH2	ARG	137	193.669	154.654	-2.079	1.00119.82	BS2	ATOM	14899	OEL	GLU	143	184.822	160.639	-11.746	1.0086.05	BS2
ATOM	14847	C	ARG	137	192.141	158.125	-6.432	1.00130.02	BS2	ATOM	14900	C	GLU	143	185.834	161.065	-12.351	1.0086.05	BS2
ATOM	14848	O	ARG	137	191.093	157.820	-7.003	1.00130.02	BS2	ATOM	14901	O	GLU	143	185.007	159.349	-11.460	1.0075.64	BS2
ATOM	14849	N	LEU	138	192.188	158.977	-5.415	1.0091.46	BS2	ATOM	14902	N	ARG	144	184.043	158.335	-11.879	1.0075.64	BS2
ATOM	14850	CA	LEU	138	190.987	159.632	-4.942	1.0091.46	BS2	ATOM	14903	CA	ARG	144	184.586	156.919	-11.647	1.0098.86	BS2
ATOM	14851	CB	LEU	138	191.279	160.438	-3.673	1.0082.51	BS2	ATOM	14904	CB	ARG	144	184.747	156.535	-10.185	1.0098.86	BS2
ATOM	14852	CG	LEU	138	191.889	159.676	-2.481	1.0082.51	BS2	ATOM	14905	CG	ARG	144	184.308	155.099	-9.923	1.0098.86	BS2
ATOM	14853	CD1	LEU	138	191.221	160.175	-1.207	1.0082.51	BS2	ATOM	14906	CD	ARG	144	184.711	154.188	-10.990	1.0098.86	BS2
ATOM	14854	CD2	LEU	138	191.701	158.163	-2.608	1.0082.51	BS2	ATOM	14907	NE	ARG	144	184.836	152.870	-10.849	1.0098.86	BS2
ATOM	14855	C	LEU	138	190.527	160.538	-6.076	1.0091.46	BS2	ATOM	14908	C2	ARG	144	184.599	152.291	-9.675	1.0098.86	BS2
ATOM	14856	O	LEU	138	189.404	160.403	-6.551	1.0091.46	BS2	ATOM	14909	NH1	ARG	144	185.184	152.128	-11.890	1.0098.86	BS2
ATOM	14857	N	LVS	139	191.399	161.442	-6.520	1.00103.99	BS2	ATOM	14910	NH2	ARG	144	182.692	158.471	-11.180	1.0075.64	BS2
ATOM	14858	CA	LVS	139	191.077	162.343	-7.631	1.00103.99	BS2	ATOM	14911	C	ARG	144					BS2

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ATOM	14912	O	ARG	144	181.653	158.496	-11.851	1.00	75.64	BS2	ATOM	14965	N	GLY	151	173.410	162.049	-11.414	1.00	64.56	BS2
ATOM	14913	N	LEU	145	182.702	158.546	-9.844	1.00	55.52	BS2	ATOM	14966	CA	GLY	151	171.968	162.242	-11.344	1.00	64.56	BS2
ATOM	14914	OR	LEU	145	181.467	158.682	-9.082	1.00	55.52	BS2	ATOM	14967	C	GLY	151	171.318	161.326	-10.323	1.00	64.56	BS2
ATOM	14915	CB	LEU	145	181.756	158.981	-7.622	1.00	37.13	BS2	ATOM	14968	O	GLY	151	170.229	161.593	-9.813	1.00	64.56	BS2
ATOM	14916	CG	LEU	145	182.460	157.811	-5.930	1.00	37.13	BS2	ATOM	14969	N	PHE	152	172.003	160.231	-10.029	1.00	67.55	BS2
ATOM	14917	CD1	LEU	145	182.701	158.099	-5.442	1.00	37.13	BS2	ATOM	14970	CA	PHE	152	171.526	159.267	-9.057	1.00	67.55	BS2
ATOM	14918	CD2	LEU	145	181.604	156.570	-7.104	1.00	37.13	BS2	ATOM	14971	CB	PHE	152	172.230	157.939	-9.281	1.00	63.55	BS2
ATOM	14919	C	LEU	145	180.677	159.808	-9.637	1.00	55.52	BS2	ATOM	14972	CG	PHE	152	171.620	156.801	-8.535	1.00	63.55	BS2
ATOM	14920	O	LEU	145	179.492	159.660	-9.982	1.00	55.52	BS2	ATOM	14973	CD1	PHE	152	170.460	156.193	-9.003	1.00	63.55	BS2
ATOM	14921	N	GLN	146	181.341	160.933	-9.925	1.00	47.47	BS2	ATOM	14974	CD2	PHE	152	172.211	156.324	-7.371	1.00	63.55	BS2
ATOM	14922	CG	GLN	146	180.683	162.072	-10.544	1.00	47.47	BS2	ATOM	14975	CE1	PHE	152	169.897	155.125	-8.327	1.00	63.55	BS2
ATOM	14923	CB	GLN	146	181.662	163.242	-10.633	1.00100.56		BS2	ATOM	14976	CE2	PHE	152	171.652	155.250	-6.685	1.00	63.55	BS2
ATOM	14924	CG	GLN	146	181.841	164.087	-9.433	1.00100.56		BS2	ATOM	14977	CZ	PHE	152	170.493	154.650	-7.167	1.00	63.55	BS2
ATOM	14925	CD	GLN	146	183.283	164.143	-8.960	1.00100.56		BS2	ATOM	14978	C	PHE	152	171.890	159.815	-7.682	1.00	67.55	BS2
ATOM	14926	OE1	GLN	146	184.209	164.301	-9.761	1.00100.56		BS2	ATOM	14979	O	PHE	152	171.469	159.298	-6.645	1.00	67.55	BS2
ATOM	14927	NE2	GLN	146	183.481	164.026	-7.652	1.00100.56		BS2	ATOM	14980	N	ARG	153	172.701	160.867	-7.708	1.00	78.00	BS2
ATOM	14928	C	GLN	146	180.137	161.686	-11.914	1.00	47.47	BS2	ATOM	14981	CA	ARG	153	173.185	161.565	-6.518	1.00	78.00	BS2
ATOM	14929	O	GLN	146	179.081	162.167	-12.325	1.00	47.47	BS2	ATOM	14982	CB	ARG	153	173.773	162.917	-6.953	1.00105.09		BS2
ATOM	14930	N	LYS	147	180.856	160.814	-12.617	1.00	63.99	BS2	ATOM	14983	CG	ARG	153	175.095	163.298	-6.320	1.00105.09		BS2
ATOM	14931	CA	LYS	147	180.447	160.381	-13.953	1.00	63.99	BS2	ATOM	14984	CD	ARG	153	174.949	163.458	-4.827	1.00105.09		BS2
ATOM	14932	CB	LYS	147	181.567	159.584	-15.037	1.00109.30		BS2	ATOM	14985	NE	ARG	153	176.202	163.853	-4.195	1.00105.09		BS2
ATOM	14933	CG	LYS	147	182.771	160.408	-14.633	1.00109.30		BS2	ATOM	14986	CZ	ARG	153	176.364	163.975	-2.880	1.00105.09		BS2
ATOM	14934	CD	LYS	147	183.887	159.513	-15.566	1.00109.30		BS2	ATOM	14987	NH1	ARG	153	175.350	163.732	-2.055	1.00105.09		BS2
ATOM	14935	CE	LYS	147	185.190	160.287	-15.767	1.00109.30		BS2	ATOM	14988	NH2	ARG	153	177.542	164.341	-2.389	1.00105.09		BS2
ATOM	14936	NZ	LYS	147	186.330	159.378	-16.066	1.00109.30		BS2	ATOM	14989	C	ARG	153	172.046	161.791	-5.513	1.00	78.00	BS2
ATOM	14937	C	LYS	147	179.185	159.539	-13.966	1.00	63.99	BS2	ATOM	14990	O	ARG	153	172.044	161.242	-4.404	1.00	78.00	BS2
ATOM	14938	O	LYS	147	178.384	159.628	-14.900	1.00	63.99	BS2	ATOM	14991	N	LEU	154	171.090	162.622	-5.921	1.00	87.55	BS2
ATOM	14939	N	TYR	148	179.012	158.725	-12.931	1.00	84.36	BS2	ATOM	14992	CA	LEU	154	169.927	162.946	-5.107	1.00	87.55	BS2
ATOM	14940	CA	TYR	148	177.863	157.833	-12.842	1.00	84.36	BS2	ATOM	14993	CB	LEU	154	169.295	164.272	-5.566	1.00	68.93	BS2
ATOM	14941	CB	TYR	148	178.365	156.421	-12.540	1.00	95.84	BS2	ATOM	14994	CG	LEU	154	168.919	164.422	-7.052	1.00	68.93	BS2
ATOM	14942	CG	TYR	148	179.242	155.891	-13.652	1.00	95.84	BS2	ATOM	14995	CD1	LEU	154	167.919	164.377	-7.235	1.00	68.93	BS2
ATOM	14943	CD1	TYR	148	180.347	155.079	-13.385	1.00	95.84	BS2	ATOM	14996	CD2	LEU	154	170.140	164.905	-7.822	1.00	68.93	BS2
ATOM	14944	CE1	TYR	148	181.179	154.638	-14.420	1.00	95.84	BS2	ATOM	14997	C	LEU	154	168.917	161.825	-5.267	1.00	87.55	BS2
ATOM	14945	CE2	TYR	148	178.986	156.242	-14.981	1.00	95.84	BS2	ATOM	14998	O	LEU	154	168.404	161.585	-6.357	1.00	87.55	BS2
ATOM	14946	CE2	TYR	148	179.805	155.811	-16.015	1.00	95.84	BS2	ATOM	14999	N	LEU	155	167.691	160.034	-4.215	1.00	62.99	BS2
ATOM	14947	CZ	TYR	148	180.898	155.015	-15.732	1.00	95.84	BS2	ATOM	15000	CA	LEU	155	167.480	158.301	-6.258	1.00	34.47	BS2
ATOM	14948	OH	TYR	148	181.707	154.625	-16.769	1.00	95.84	BS2	ATOM	15001	CB	LEU	155	168.223	158.820	-5.000	1.00	34.47	BS2
ATOM	14949	C	TYR	148	176.802	158.248	-11.834	1.00	84.36	BS2	ATOM	15002	CG	LEU	155	167.480	158.301	-6.258	1.00	34.47	BS2
ATOM	14950	O	TYR	148	175.627	158.403	-12.171	1.00	84.36	BS2	ATOM	15003	CD1	LEU	155	167.428	156.791	-6.202	1.00	34.47	BS2
ATOM	14951	N	LEU	149	177.223	158.439	-10.595	1.00	76.59	BS2	ATOM	15004	CD2	LEU	155	166.051	158.831	-6.357	1.00	34.47	BS2
ATOM	14952	CA	LEU	149	176.304	158.823	-9.548	1.00	76.59	BS2	ATOM	15005	C	LEU	155	167.423	159.621	-2.789	1.00	62.99	BS2
ATOM	14953	CB	LEU	149	176.881	158.366	-8.210	1.00	58.90	BS2	ATOM	15006	O	LEU	155	166.758	160.343	-2.045	1.00	62.99	BS2
ATOM	14954	CG	LEU	149	177.285	156.886	-8.190	1.00	58.90	BS2	ATOM	15007	N	LYS	156	167.984	158.482	-2.397	1.00	92.48	BS2
ATOM	14955	CD1	LEU	149	177.836	156.517	-6.822	1.00	58.90	BS2	ATOM	15008	CA	LYS	156	167.760	157.930	-1.064	1.00	92.48	BS2
ATOM	14956	CD2	LEU	149	176.078	156.020	-8.524	1.00	58.90	BS2	ATOM	15009	CB	LYS	156	167.880	159.007	-0.022	1.00	96.02	BS2
ATOM	14957	C	LEU	149	175.991	160.325	-9.519	1.00	76.59	BS2	ATOM	15010	CG	LYS	156	168.206	158.459	1.406	1.00	96.02	BS2
ATOM	14958	O	LEU	149	175.720	160.882	-8.458	1.00	76.59	BS2	ATOM	15011	CD	LYS	156	167.564	157.090	1.659	1.00	96.02	BS2
ATOM	14959	N	SER	150	176.010	160.981	-10.678	1.00	65.11	BS2	ATOM	15012	CE	LYS	156	167.878	156.578	3.060	1.00	96.02	BS2
ATOM	14960	CA	SER	150	175.726	162.417	-10.735	1.00	65.11	BS2	ATOM	15013	NZ	LYS	156	169.337	156.645	3.368	1.00	96.02	BS2
ATOM	14961	CB	SER	150	176.207	163.019	-12.055	1.00	61.24	BS2	ATOM	15014	C	LYS	156	166.312	157.474	-1.184	1.00	92.48	BS2
ATOM	14962	OG	SER	150	175.120	163.210	-12.953	1.00	61.24	BS2	ATOM	15015	O	LYS	156	165.479	158.230	-1.685	1.00	92.48	BS2
ATOM	14963	C	SER	150	174.231	162.698	-10.586	1.00	65.11	BS2	ATOM	15016	N	ARG	157	166.002	156.250	-0.763	1.00	48.90	BS2
ATOM	14964	O	SER	150	173.834	163.500	-9.745	1.00	65.11	BS2	ATOM	15017	CA	ARG	157	164.626	155.777	-0.894	1.00	48.90	BS2

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ATOM	15018	CB	ARG	157	163.686	156.915	-0.482	1.00	66.83	BS2	ATOM	15071	CZ	PHE	163	158.187	160.303	-20.246	1.00	61.85	BS2
ATOM	15019	CG	ARG	157	162.343	156.568	0.068	1.00	66.83	BS2	ATOM	15072	C	PHE	163	161.804	157.092	-17.681	1.00	92.45	BS2
ATOM	15020	CD/ARG	157	162.061	157.603	1.140	1.00	66.83	BS2	ATOM	15073	O	PHE	163	162.912	157.621	-17.591	1.00	92.45	BS2	
ATOM	15021	NE	ARG	157	160.764	157.463	1.140	1.00	66.83	BS2	ATOM	15074	N	PHE	164	161.552	156.063	-18.477	1.00	54.78	BS2
ATOM	15022	CZ	ARG	157	159.615	157.643	1.151	1.00	66.83	BS2	ATOM	15075	CA	VAL	164	162.591	155.475	-19.299	1.00	54.78	BS2
ATOM	15023	NH1	ARG	157	159.623	157.958	-0.137	1.00	66.83	BS2	ATOM	15076	CB	VAL	164	162.581	153.936	-19.109	1.00	32.86	BS2
ATOM	15024	NH2	ARG	157	158.468	157.539	1.807	1.00	66.83	BS2	ATOM	15077	CG1	VAL	164	162.372	153.222	-20.450	1.00	32.86	BS2
ATOM	15025	C	ARG	157	164.401	155.439	-2.379	1.00	48.90	BS2	ATOM	15078	CG2	VAL	164	163.864	153.499	-18.441	1.00	32.86	BS2
ATOM	15026	O	ARG	157	164.625	156.279	-3.252	1.00	48.90	BS2	ATOM	15079	C	VAL	164	162.477	155.838	-20.784	1.00	54.78	BS2
ATOM	15027	N	LEU	158	163.981	154.217	-2.675	1.00	31.71	BS2	ATOM	15080	O	VAL	164	161.377	155.928	-21.347	1.00	54.78	BS2
ATOM	15028	CA	LEU	158	163.714	153.865	-4.064	1.00	31.71	BS2	ATOM	15081	N	VAL	165	163.628	156.051	-21.411	1.00	77.41	BS2
ATOM	15029	CB	LEU	158	163.126	152.464	-4.159	1.00	51.81	BS2	ATOM	15082	CA	VAL	165	163.673	156.385	-22.827	1.00	77.41	BS2
ATOM	15030	CG	LEU	158	164.072	151.335	-3.771	1.00	51.81	BS2	ATOM	15083	CB	VAL	165	164.570	157.591	-23.063	1.00	54.86	BS2
ATOM	15031	CD1	LEU	158	163.295	150.048	-3.667	1.00	51.81	BS2	ATOM	15084	CG1	VAL	165	164.169	158.278	-24.348	1.00	54.86	BS2
ATOM	15032	CD2	LEU	158	165.182	151.222	-4.809	1.00	51.81	BS2	ATOM	15085	CG2	VAL	165	164.473	158.538	-21.885	1.00	54.86	BS2
ATOM	15033	C	LEU	158	162.703	154.861	-4.597	1.00	31.71	BS2	ATOM	15086	C	VAL	165	164.223	155.182	-23.590	1.00	77.41	BS2
ATOM	15034	O	LEU	158	161.865	155.337	-3.849	1.00	31.71	BS2	ATOM	15087	O	VAL	165	165.427	154.924	-23.585	1.00	77.41	BS2
ATOM	15035	N	PRO	159	162.757	155.182	-5.895	1.00	32.86	BS2	ATOM	15088	N	ASP	166	163.320	154.456	-24.242	1.00	67.75	BS2
ATOM	15036	CD	PRO	159	163.600	154.556	-6.927	1.00	83.19	BS2	ATOM	15089	CA	ASP	166	163.641	153.239	-24.990	1.00	67.75	BS2
ATOM	15037	CA	PRO	159	161.825	156.136	-6.509	1.00	32.86	BS2	ATOM	15090	CB	ASP	166	164.889	153.433	-25.879	1.00	104.46	BS2
ATOM	15038	CB	PRO	159	162.389	156.304	-7.909	1.00	83.19	BS2	ATOM	15091	CG	ASP	166	164.924	152.473	-27.082	1.00	104.46	BS2
ATOM	15039	CG	PRO	159	162.860	154.919	-8.207	1.00	83.19	BS2	ATOM	15092	OD1	ASP	166	163.899	152.345	-27.790	1.00	104.46	BS2
ATOM	15040	C	PRO	159	160.387	155.621	-6.548	1.00	32.86	BS2	ATOM	15093	OD2	ASP	166	165.981	151.855	-27.332	1.00	104.46	BS2
ATOM	15041	O	PRO	159	160.104	154.472	-6.201	1.00	32.86	BS2	ATOM	15094	C	ASP	166	163.856	152.124	-23.953	1.00	67.75	BS2
ATOM	15042	N	ASP	160	159.475	156.465	-7.003	1.00	39.03	BS2	ATOM	15095	O	ASP	166	164.981	151.877	-23.494	1.00	67.75	BS2
ATOM	15043	CA	ASP	160	158.077	156.074	-7.058	1.00	39.03	BS2	ATOM	15096	N	PRO	167	162.757	151.450	-23.556	1.00	60.42	BS2
ATOM	15044	CB	ASP	160	157.220	157.210	-6.503	1.00	70.58	BS2	ATOM	15097	CD	PRO	167	161.450	151.498	-24.235	1.00	49.26	BS2
ATOM	15045	CG	ASP	160	157.618	157.576	-5.080	1.00	70.58	BS2	ATOM	15098	CA	PRO	167	162.774	150.363	-22.578	1.00	60.42	BS2
ATOM	15046	OD1	ASP	160	157.306	156.796	-4.152	1.00	70.58	BS2	ATOM	15099	CB	PRO	167	161.316	149.948	-22.512	1.00	49.26	BS2
ATOM	15047	OD2	ASP	160	158.269	156.626	-4.887	1.00	70.58	BS2	ATOM	15100	CG	PRO	167	160.876	150.132	-23.916	1.00	49.26	BS2
ATOM	15048	C	ASP	160	157.671	155.706	-8.466	1.00	39.03	BS2	ATOM	15101	C	PRO	167	163.659	149.233	-23.076	1.00	60.42	BS2
ATOM	15049	O	ASP	160	156.549	155.286	-8.722	1.00	39.03	BS2	ATOM	15102	O	PRO	167	164.447	148.664	-22.322	1.00	60.42	BS2
ATOM	15050	N	ALA	161	158.608	155.851	-9.380	1.00	50.95	BS2	ATOM	15103	N	THR	168	163.517	148.915	-24.359	1.00	75.59	BS2
ATOM	15051	CA	ALA	161	158.347	155.530	-10.763	1.00	50.95	BS2	ATOM	15104	CA	THR	168	164.309	147.863	-24.975	1.00	75.59	BS2
ATOM	15052	CB	ALA	161	157.248	156.430	-11.331	1.00	26.77	BS2	ATOM	15105	CB	THR	168	164.154	147.860	-26.482	1.00	52.24	BS2
ATOM	15053	C	ALA	161	159.630	155.725	-11.535	1.00	50.95	BS2	ATOM	15106	OG1	THR	168	162.764	147.787	-26.822	1.00	52.24	BS2
ATOM	15054	O	ALA	161	160.651	156.133	-10.982	1.00	50.95	BS2	ATOM	15107	CG2	THR	168	164.899	146.680	-27.067	1.00	52.24	BS2
ATOM	15055	N	ILE	162	159.564	155.429	-12.822	1.00	64.03	BS2	ATOM	15108	C	THR	168	165.758	148.154	-24.679	1.00	75.59	BS2
ATOM	15056	CA	ILE	162	160.712	155.547	-13.685	1.00	64.03	BS2	ATOM	15109	O	THR	168	166.534	147.259	-24.363	1.00	75.59	BS2
ATOM	15057	CB	ILE	162	161.396	154.173	-13.864	1.00	48.61	BS2	ATOM	15110	N	LYS	169	166.108	149.428	-24.787	1.00	49.46	BS2
ATOM	15058	CG2	ILE	162	162.343	154.190	-15.035	1.00	48.61	BS2	ATOM	15111	CA	LYS	169	167.467	149.881	-24.536	1.00	49.46	BS2
ATOM	15059	CG1	ILE	162	162.185	153.812	-12.624	1.00	48.61	BS2	ATOM	15112	CB	LYS	169	167.581	151.369	-24.865	1.00	75.60	BS2
ATOM	15060	CD1	ILE	162	162.894	152.500	-12.787	1.00	48.61	BS2	ATOM	15113	CG	LYS	169	168.945	151.799	-25.341	1.00	75.60	BS2
ATOM	15061	C	ILE	162	160.255	156.044	-15.038	1.00	64.03	BS2	ATOM	15114	CD	LYS	169	170.034	151.425	-24.359	1.00	75.60	BS2
ATOM	15062	O	ILE	162	159.277	155.535	-15.605	1.00	64.03	BS2	ATOM	15115	CE	LYS	169	171.372	151.922	-24.864	1.00	75.60	BS2
ATOM	15063	N	PHE	163	160.941	157.067	-15.534	1.00	92.45	BS2	ATOM	15116	NZ	LYS	169	171.529	151.519	-26.297	1.00	75.60	BS2
ATOM	15064	CA	PHE	163	160.637	157.580	-16.852	1.00	92.45	BS2	ATOM	15117	C	LYS	169	167.800	149.651	-23.071	1.00	49.46	BS2
ATOM	15065	CB	PHE	163	160.578	159.106	-16.895	1.00	61.85	BS2	ATOM	15118	O	LYS	170	166.663	148.835	-22.743	1.00	49.46	BS2
ATOM	15066	CG	PHE	163	159.789	159.619	-18.055	1.00	61.85	BS2	ATOM	15119	N	GLU	170	167.093	150.371	-22.199	1.00	61.27	BS2
ATOM	15067	CD1	PHE	163	158.527	160.164	-17.866	1.00	61.85	BS2	ATOM	15120	CA	GLU	170	167.302	150.269	-20.758	1.00	61.27	BS2
ATOM	15068	CD2	PHE	163	160.245	159.429	-19.351	1.00	61.85	BS2	ATOM	15121	CB	GLU	170	167.016	151.616	-20.087	1.00	71.14	BS2
ATOM	15069	CE1	PHE	163	157.723	160.506	-18.951	1.00	61.85	BS2	ATOM	15122	CG	GLU	170	168.180	152.615	-20.084	1.00	71.14	BS2
ATOM	15070	CE2	PHE	163	159.451	159.765	-20.446	1.00	61.85	BS2	ATOM	15123	CD	GLU	170	168.324	153.409	-21.383	1.00	71.14	BS2

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ATOM	15124	OEL	GLU	170	167.300	153.726	-22.029	1.00	71.14	BS2	ATOM	15177	O	ALA	177	159.879	147.166	-10.071	1.00	40.74	BS2
ATOM	15125	OEL	GLU	170	169.470	153.742	-21.750	1.00	71.14	BS2	ATOM	15178	N	ARG	178	160.004	146.468	-12.203	1.00	38.75	BS2
ATOM	15126	C GLU	GLU	170	166.436	149.186	-20.123	1.00	61.27	BS2	ATOM	15179	CA	ARG	178	159.024	145.403	-12.061	1.00	38.75	BS2
ATOM	15127	O	GLU	170	165.812	149.409	-19.082	1.00	61.27	BS2	ATOM	15180	CB	ARG	178	159.193	144.438	-13.221	1.00	43.29	BS2
ATOM	15128	N	ALA	171	166.424	148.007	-20.745	1.00	59.07	BS2	ATOM	15181	CG	ARG	178	158.149	144.523	-14.265	1.00	43.29	BS2
ATOM	15129	CA	ALA	171	165.627	146.877	-20.265	1.00	59.07	BS2	ATOM	15182	CD	ARG	178	158.178	145.820	-14.961	1.00	43.29	BS2
ATOM	15130	CB	ALA	171	165.733	145.724	-21.244	1.00	53.19	BS2	ATOM	15183	NE	ARG	178	157.040	145.934	-15.863	1.00	43.29	BS2
ATOM	15131	C	ALA	171	165.984	146.406	-18.850	1.00	59.07	BS2	ATOM	15184	CZ	ARG	178	155.807	145.497	-15.595	1.00	43.29	BS2
ATOM	15132	O	ALA	171	165.112	145.959	-18.103	1.00	59.07	BS2	ATOM	15186	NH1	ARG	178	155.516	144.884	-14.447	1.00	43.29	BS2
ATOM	15133	O	ALA	172	167.258	146.497	-18.484	1.00	46.70	BS2	ATOM	15187	C	ARG	178	154.837	145.723	-16.470	1.00	43.29	BS2
ATOM	15134	GLU	ILE	172	167.684	146.097	-17.153	1.00	46.70	BS2	ATOM	15188	O	ARG	178	159.152	144.602	-10.742	1.00	38.75	BS2
ATOM	15135	CB	ILE	172	169.193	146.210	-16.997	1.00	32.09	BS2	ATOM	15189	N	LYS	179	160.322	144.011	-10.523	1.00	41.02	BS2
ATOM	15136	CG2	ILE	172	169.625	145.626	-15.673	1.00	32.09	BS2	ATOM	15190	CA	LYS	179	160.558	143.206	-9.343	1.00	41.02	BS2
ATOM	15137	CG1	ILE	172	169.880	145.470	-18.133	1.00	32.09	BS2	ATOM	15191	CB	LYS	179	161.973	142.627	-9.388	1.00	58.58	BS2
ATOM	15138	CD1	ILE	172	171.391	145.424	-18.005	1.00	32.09	BS2	ATOM	15192	CG	LYS	179	162.226	141.558	-8.330	1.00	58.58	BS2
ATOM	15139	C	ILE	172	167.045	147.016	-16.115	1.00	46.70	BS2	ATOM	15193	CD	LYS	179	163.643	141.012	-8.383	1.00	58.58	BS2
ATOM	15140	O	ILE	172	166.728	146.587	-15.004	1.00	46.70	BS2	ATOM	15194	CE	LYS	179	163.895	140.320	-9.698	1.00	58.58	BS2
ATOM	15141	N	ALA	173	166.876	148.289	-16.467	1.00	55.55	BS2	ATOM	15195	NZ	LYS	179	165.307	139.896	-9.794	1.00	58.58	BS2
ATOM	15142	CA	ALA	173	166.266	149.244	-15.550	1.00	55.55	BS2	ATOM	15196	C	LYS	179	160.354	144.019	-8.068	1.00	41.02	BS2
ATOM	15143	CB	ALA	173	166.427	150.662	-16.085	1.00	50.25	BS2	ATOM	15197	O	LYS	179	160.045	143.476	-7.004	1.00	41.02	BS2
ATOM	15144	C	ALA	173	164.787	148.890	-15.409	1.00	55.55	BS2	ATOM	15198	N	LEU	180	160.529	145.325	-8.159	1.00	36.80	BS2
ATOM	15145	O	ALA	173	164.261	148.758	-14.297	1.00	55.55	BS2	ATOM	15199	CA	LEU	180	161.335	146.143	-6.979	1.00	36.80	BS2
ATOM	15146	N	VAL	174	164.122	148.729	-16.547	1.00	41.49	BS2	ATOM	15200	CB	LEU	180	161.408	147.223	-6.909	1.00	31.44	BS2
ATOM	15147	CA	VAL	174	162.713	148.370	-16.557	1.00	41.49	BS2	ATOM	15201	CG	LEU	180	162.769	146.704	-6.444	1.00	31.44	BS2
ATOM	15148	CB	VAL	174	162.215	148.155	-17.992	1.00	34.13	BS2	ATOM	15202	CD1	LEU	180	163.779	147.834	-6.526	1.00	31.44	BS2
ATOM	15149	CG1	VAL	174	160.776	147.653	-17.989	1.00	34.13	BS2	ATOM	15203	CD2	LEU	180	162.677	146.166	-5.021	1.00	31.44	BS2
ATOM	15150	CG2	VAL	174	162.333	149.447	-18.761	1.00	34.13	BS2	ATOM	15204	C	LEU	180	158.942	146.764	-6.962	1.00	36.80	BS2
ATOM	15151	C	VAL	174	162.464	147.090	-15.761	1.00	41.49	BS2	ATOM	15205	O	LEU	180	158.563	147.429	-5.999	1.00	36.80	BS2
ATOM	15152	O	VAL	174	161.411	146.940	-15.139	1.00	41.49	BS2	ATOM	15206	N	PHE	181	158.187	146.513	-8.032	1.00	67.21	BS2
ATOM	15153	N	ARG	175	163.421	146.161	-15.779	1.00	42.29	BS2	ATOM	15207	CA	PHE	181	156.826	147.018	-8.200	1.00	67.21	BS2
ATOM	15154	CA	ARG	175	163.241	144.921	-15.043	1.00	42.29	BS2	ATOM	15208	CB	PHE	181	155.951	146.642	-7.017	1.00	59.92	BS2
ATOM	15155	CB	ARG	175	164.249	143.862	-15.460	1.00	84.52	BS2	ATOM	15209	CG	PHE	181	155.777	145.179	-6.848	1.00	59.92	BS2
ATOM	15156	CG	ARG	175	163.949	142.512	-14.820	1.00	84.52	BS2	ATOM	15210	CD1	PHE	181	156.798	144.406	-6.308	1.00	59.92	BS2
ATOM	15157	CD	ARG	175	165.030	141.507	-15.110	1.00	84.52	BS2	ATOM	15211	CD2	PHE	181	154.603	144.560	-7.257	1.00	59.92	BS2
ATOM	15158	NE	ARG	175	165.326	141.461	-16.535	1.00	84.52	BS2	ATOM	15212	CE1	PHE	181	156.652	143.033	-6.183	1.00	59.92	BS2
ATOM	15159	CZ	ARG	175	166.451	140.966	-17.038	1.00	84.52	BS2	ATOM	15213	CE2	PHE	181	154.447	143.192	-7.136	1.00	59.92	BS2
ATOM	15160	NH1	ARG	175	167.378	140.470	-16.216	1.00	84.52	BS2	ATOM	15214	CZ	PHE	181	155.474	142.424	-6.598	1.00	59.92	BS2
ATOM	15161	NH2	ARG	175	166.662	140.989	-18.354	1.00	84.52	BS2	ATOM	15215	C	PHE	181	156.813	148.514	-8.351	1.00	67.21	BS2
ATOM	15162	C	ARG	175	163.346	145.119	-13.548	1.00	42.29	BS2	ATOM	15216	O	PHE	181	155.892	149.187	-7.907	1.00	67.21	BS2
ATOM	15163	O	ARG	175	162.513	144.621	-12.810	1.00	42.29	BS2	ATOM	15217	N	ILE	182	157.852	149.033	-8.977	1.00	41.98	BS2
ATOM	15164	N	GLU	176	164.366	145.830	-13.089	1.00	48.33	BS2	ATOM	15218	CA	ILE	182	157.964	150.455	-9.201	1.00	41.98	BS2
ATOM	15165	CA	GLU	176	164.509	146.044	-11.655	1.00	48.33	BS2	ATOM	15219	CB	ILE	182	159.435	150.852	-9.141	1.00	21.70	BS2
ATOM	15166	CB	GLU	176	167.043	146.905	-11.315	1.00	48.85	BS2	ATOM	15220	CG2	ILE	182	159.592	152.353	-9.381	1.00	21.70	BS2
ATOM	15167	CG	GLU	176	168.219	146.893	-10.957	1.00	48.85	BS2	ATOM	15221	CG1	ILE	182	160.001	150.396	-7.799	1.00	21.70	BS2
ATOM	15168	CD	GLU	176	168.058	147.375	-9.815	1.00	48.85	BS2	ATOM	15222	CD1	ILE	182	161.371	150.904	-7.519	1.00	21.70	BS2
ATOM	15169	OE1	GLU	176	169.308	146.948	-11.575	1.00	48.85	BS2	ATOM	15223	C	ILE	182	157.371	150.767	-10.572	1.00	41.98	BS2
ATOM	15170	OE2	GLU	176	163.265	146.709	-11.096	1.00	48.33	BS2	ATOM	15224	N	ILE	182	157.836	150.261	-11.584	1.00	41.98	BS2
ATOM	15171	C	GLU	176	162.875	146.455	-9.951	1.00	48.33	BS2	ATOM	15225	O	PRO	183	156.320	151.594	-10.625	1.00	51.32	BS2
ATOM	15172	O	GLU	176	162.875	146.455	-9.951	1.00	48.33	BS2	ATOM	15226	CD	PRO	183	155.595	152.275	-9.541	1.00	45.30	BS2
ATOM	15173	N	ALA	177	162.648	147.560	-11.915	1.00	40.74	BS2	ATOM	15227	CA	PRO	183	155.725	151.909	-11.929	1.00	51.32	BS2
ATOM	15174	CA	ALA	177	161.438	148.277	-11.521	1.00	40.74	BS2	ATOM	15228	CB	PRO	183	154.796	153.071	-11.607	1.00	45.30	BS2
ATOM	15175	CB	ALA	177	160.986	149.177	-12.653	1.00	52.66	BS2	ATOM	15229	CG	PRO	183	154.321	152.707	-10.233	1.00	45.30	BS2
ATOM	15176	C	ALA	177	160.364	147.249	-11.197	1.00	40.74	BS2											

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ATOM	15230	C	PRO	183	156.753	152.246	-13.008	1.00	51.32	BS2	ATOM	15283	CG	ASP	191	163.154	149.180	-30.925	1.00	83.13	BS2
ATOM	15231	O	PRO	183	157.892	152.748	-12.724	1.00	51.32	BS2	ATOM	15284	ODI	ASP	191	162.690	150.341	-30.988	1.00	83.13	BS2
ATOM	15232	N	VAL	184	156.392	151.957	-14.250	1.00	42.35	BS2	ATOM	15285	OD2	ASP	191	164.119	148.894	-30.182	1.00	83.13	BS2
ATOM	15233	CA	VAL	184	157.283	152.197	-15.365	1.00	42.35	BS2	ATOM	15286	C	ASP	191	161.028	147.476	-29.905	1.00	55.95	BS2
ATOM	15234	CB	VAL	184	157.810	150.852	-15.957	1.00	41.83	BS2	ATOM	15287	O	ASP	191	162.073	147.253	-29.307	1.00	55.95	BS2
ATOM	15235	CGI	VAL	184	158.476	151.093	-17.300	1.00	41.83	BS2	ATOM	15288	N	SER	192	159.857	147.458	-29.286	1.00	59.06	BS2
ATOM	15236	CG2	VAL	184	158.814	150.216	-15.005	1.00	41.83	BS2	ATOM	15289	CA	SER	192	159.835	147.217	-27.844	1.00	59.06	BS2
ATOM	15237	C	VAL	184	156.629	153.012	-16.473	1.00	42.35	BS2	ATOM	15290	CB	SER	192	159.982	148.542	-27.571	1.00	83.92	BS2
ATOM	15238	O	VAL	184	155.656	152.580	-17.093	1.00	42.35	BS2	ATOM	15291	OG	SER	192	159.029	149.478	-27.571	1.00	83.92	BS2
ATOM	15239	N	ILE	185	157.191	154.197	-16.699	1.00	55.60	BS2	ATOM	15292	C	SER	192	158.598	146.493	-27.344	1.00	59.06	BS2
ATOM	15240	CA	ILE	185	156.746	155.124	-17.737	1.00	55.60	BS2	ATOM	15293	O	SER	192	157.590	146.403	-28.051	1.00	59.06	BS2
ATOM	15241	CG	ILE	185	156.784	156.577	-17.240	1.00	48.16	BS2	ATOM	15294	N	ASP	193	158.685	145.986	-26.115	1.00	53.04	BS2
ATOM	15242	CG2	ILE	185	156.044	157.492	-18.220	1.00	48.16	BS2	ATOM	15295	CA	ASP	193	157.577	144.255	-25.507	1.00	53.04	BS2
ATOM	15243	CG1	ILE	185	156.200	156.642	-15.830	1.00	48.16	BS2	ATOM	15296	CB	ASP	193	158.101	144.205	-24.524	1.00	67.60	BS2
ATOM	15244	CG1	ILE	185	156.327	157.992	-15.159	1.00	48.16	BS2	ATOM	15297	CG	ASP	193	157.045	143.167	-24.150	1.00	67.60	BS2
ATOM	15245	C	ILE	185	157.796	155.001	-18.829	1.00	55.60	BS2	ATOM	15298	ODI	ASP	193	155.857	143.363	-24.498	1.00	67.60	BS2
ATOM	15246	O	ILE	185	158.971	154.751	-18.532	1.00	55.60	BS2	ATOM	15299	OD2	ASP	193	157.414	142.157	-23.506	1.00	67.60	BS2
ATOM	15247	N	ALA	186	157.399	155.196	-20.083	1.00	47.65	BS2	ATOM	15300	C	ASP	193	156.635	146.190	-24.768	1.00	53.04	BS2
ATOM	15248	CA	ALA	186	158.370	155.082	-21.158	1.00	47.65	BS2	ATOM	15301	O	ASP	193	156.906	146.600	-23.641	1.00	53.04	BS2
ATOM	15249	CB	ALA	186	158.823	153.634	-21.261	1.00	16.68	BS2	ATOM	15302	N	PRO	194	155.502	146.526	-25.389	1.00	52.66	BS2
ATOM	15250	C	ALA	186	157.966	155.577	-22.540	1.00	47.65	BS2	ATOM	15303	CD	PRO	194	154.996	145.981	-26.665	1.00	39.98	BS2
ATOM	15251	O	ALA	186	156.820	155.429	-22.970	1.00	47.65	BS2	ATOM	15304	CB	PRO	194	154.524	147.420	-24.766	1.00	52.66	BS2
ATOM	15252	N	LEU	187	158.935	156.181	-23.221	1.00	47.33	BS2	ATOM	15305	CA	PRO	194	153.440	147.536	-25.836	1.00	39.98	BS2
ATOM	15253	CA	LEU	187	158.752	156.634	-24.591	1.00	47.33	BS2	ATOM	15306	CG	PRO	194	153.510	146.196	-26.546	1.00	39.98	BS2
ATOM	15254	CB	LEU	187	159.865	157.618	-24.961	1.00	55.44	BS2	ATOM	15307	C	PRO	194	153.973	146.885	-23.439	1.00	52.66	BS2
ATOM	15255	CG	LEU	187	159.685	158.480	-26.215	1.00	55.44	BS2	ATOM	15308	O	PRO	194	153.555	147.660	-22.573	1.00	52.66	BS2
ATOM	15256	CD1	LEU	187	159.521	157.596	-27.430	1.00	55.44	BS2	ATOM	15309	N	ASP	195	153.991	145.560	-22.283	1.00	45.75	BS2
ATOM	15257	CD2	LEU	187	158.471	159.366	-26.059	1.00	55.44	BS2	ATOM	15310	CA	ASP	195	153.468	144.912	-22.088	1.00	45.75	BS2
ATOM	15258	C	LEU	187	158.980	155.263	-25.234	1.00	47.33	BS2	ATOM	15311	CB	ASP	195	153.384	143.404	-22.290	1.00	104.50	BS2
ATOM	15259	O	LEU	187	160.052	154.674	-25.068	1.00	47.33	BS2	ATOM	15312	CG	ASP	195	152.820	143.029	-23.136	1.00	104.50	BS2
ATOM	15260	N	ALA	188	157.987	154.737	-25.944	1.00	58.89	BS2	ATOM	15313	OD1	ASP	195	151.930	143.752	-24.138	1.00	104.50	BS2
ATOM	15261	CA	ALA	188	158.109	153.385	-26.498	1.00	58.89	BS2	ATOM	15314	OD2	ASP	195	153.260	141.998	-24.186	1.00	104.50	BS2
ATOM	15262	CB	ALA	188	156.762	152.695	-26.439	1.00	90.36	BS2	ATOM	15315	C	ASP	195	154.246	145.170	-20.815	1.00	45.75	BS2
ATOM	15263	C	ALA	188	158.681	153.224	-27.885	1.00	58.89	BS2	ATOM	15316	O	ASP	195	153.707	145.012	-19.731	1.00	45.75	BS2
ATOM	15264	O	ALA	188	159.897	153.323	-28.089	1.00	58.89	BS2	ATOM	15317	N	LEU	196	155.505	145.560	-20.926	1.00	37.13	BS2
ATOM	15265	N	ASP	189	157.788	152.892	-28.817	1.00	62.01	BS2	ATOM	15318	CA	LEU	196	156.293	145.788	-19.725	1.00	37.13	BS2
ATOM	15266	CA	ASP	189	159.211	152.712	-30.229	1.00	62.01	BS2	ATOM	15319	CB	LEU	196	157.748	145.407	-19.972	1.00	53.50	BS2
ATOM	15267	CB	ASP	189	159.211	153.735	-30.611	1.00	82.67	BS2	ATOM	15320	CG	LEU	196	157.942	144.048	-20.635	1.00	53.50	BS2
ATOM	15268	CG	ASP	189	160.258	153.174	-31.522	1.00	82.67	BS2	ATOM	15321	CD1	LEU	196	159.410	143.684	-20.640	1.00	53.50	BS2
ATOM	15269	OD1	ASP	189	160.998	152.262	-31.083	1.00	82.67	BS2	ATOM	15322	CD2	LEU	196	157.145	143.011	-19.870	1.00	53.50	BS2
ATOM	15270	OD2	ASP	189	160.340	153.664	-32.668	1.00	82.67	BS2	ATOM	15323	C	LEU	196	156.233	147.220	-19.259	1.00	37.13	BS2
ATOM	15271	C	ASP	189	158.478	151.304	-30.742	1.00	62.01	BS2	ATOM	15324	O	LEU	196	156.677	147.542	-18.162	1.00	37.13	BS2
ATOM	15272	O	ASP	189	158.074	150.483	-30.048	1.00	62.01	BS2	ATOM	15325	N	VAL	197	155.693	148.091	-20.097	1.00	52.46	BS2
ATOM	15273	N	THR	190	158.056	151.079	-31.984	1.00	41.68	BS2	ATOM	15326	CA	VAL	197	155.611	149.487	-19.727	1.00	52.46	BS2
ATOM	15274	CA	THR	190	158.214	149.863	-32.791	1.00	41.68	BS2	ATOM	15327	CB	VAL	197	155.842	150.384	-20.928	1.00	60.20	BS2
ATOM	15275	CB	THR	190	158.840	150.233	-34.128	1.00	55.63	BS2	ATOM	15328	CG1	VAL	197	156.082	151.813	-20.462	1.00	60.20	BS2
ATOM	15276	OG1	THR	190	158.272	151.470	-34.572	1.00	55.63	BS2	ATOM	15329	CG2	VAL	197	157.017	149.876	-21.714	1.00	60.20	BS2
ATOM	15277	CG2	THR	190	158.587	149.134	-35.172	1.00	55.63	BS2	ATOM	15330	C	VAL	197	154.245	149.775	-19.134	1.00	52.46	BS2
ATOM	15278	C	THR	190	158.965	148.634	-32.293	1.00	41.68	BS2	ATOM	15331	O	VAL	197	153.202	149.504	-19.751	1.00	52.46	BS2
ATOM	15279	O	THR	190	158.433	147.519	-32.336	1.00	41.68	BS2	ATOM	15332	N	ASP	198	154.268	150.327	-17.926	1.00	49.43	BS2
ATOM	15280	N	ASP	191	160.206	148.839	-31.861	1.00	55.95	BS2	ATOM	15333	CA	ASP	198	153.050	150.633	-17.198	1.00	49.43	BS2
ATOM	15281	CA	ASP	191	161.069	147.757	-31.399	1.00	55.95	BS2	ATOM	15334	CB	ASP	198	153.402	150.857	-15.731	1.00	61.06	BS2
ATOM	15282	CB	ASP	191	162.527	148.060	-31.783	1.00	83.13	BS2	ATOM	15335	CG	ASP	198	154.277	149.747	-15.188	1.00	61.06	BS2

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ATOM	15336	OD1	ASP	198	153.969	148.568	-15.467	1.00	61.06	BS2	ATOM	15389	CB	ASP	205	162.576	154.631	-29.117	1.00	55.19	BS
ATOM	15337	OD2	ASP	198	155.261	150.048	-14.765	1.00	61.06	BS2	ATOM	15390	CG	ASP	205	163.292	154.030	-30.371	1.00	55.19	BS
ATOM	15338	C	ASP	198	152.302	151.848	-17.782	1.00	49.43	BS2	ATOM	15391	OD1	ASP	205	162.797	154.206	-31.505	1.00	55.19	BS
ATOM	15339	O	ASP	198	151.075	151.891	-17.731	1.00	49.43	BS2	ATOM	15392	OD2	ASP	205	164.342	153.354	-30.220	1.00	55.19	BS
ATOM	15340	N	TYR	199	153.052	152.823	-18.265	1.00	65.87	BS2	ATOM	15393	C	ASP	205	163.631	156.910	-29.437	1.00	72.64	BS
ATOM	15341	CA	TYR	199	152.492	154.028	-18.869	1.00	65.87	BS2	ATOM	15394	O	ASP	205	164.308	157.303	-28.496	1.00	72.64	BS
ATOM	15342	CB	TYR	199	152.570	155.203	-17.893	1.00	49.75	BS2	ATOM	15395	N	ASP	206	163.965	157.100	-30.707	1.00	139.09	BS
ATOM	15343	CG	TYR	199	151.768	154.942	-16.633	1.00	49.75	BS2	ATOM	15396	CA	ASP	206	165.184	157.779	-31.111	1.00	139.09	BS
ATOM	15344	CD1	TYR	199	152.383	154.482	-15.469	1.00	49.75	BS2	ATOM	15397	CB	ASP	206	165.857	156.966	-32.215	1.00	135.27	BS
ATOM	15345	CEL	TYR	199	151.628	154.154	-14.344	1.00	49.75	BS2	ATOM	15398	CG	ASP	206	166.960	157.727	-32.902	1.00	135.27	BS
ATOM	15346	CEL	TYR	199	150.372	155.072	-16.637	1.00	49.75	BS2	ATOM	15399	OD1	ASP	206	167.948	158.069	-32.221	1.00	135.27	BS
ATOM	15347	CE2	TYR	199	149.610	154.740	-15.526	1.00	49.75	BS2	ATOM	15400	OD2	ASP	206	166.832	157.992	-34.117	1.00	135.27	BS
ATOM	15348	C2	TYR	199	150.242	154.281	-14.384	1.00	49.75	BS2	ATOM	15401	C	ASP	206	164.875	159.193	-31.605	1.00	139.09	BS
ATOM	15349	OH	TYR	199	149.488	153.926	-13.294	1.00	49.75	BS2	ATOM	15402	O	ASP	206	163.709	159.585	-31.658	1.00	139.09	BS
ATOM	15350	C	TYR	199	153.347	154.264	-20.096	1.00	65.87	BS2	ATOM	15403	N	ALA	207	165.919	159.957	-31.939	1.00	80.18	BS
ATOM	15351	O	TYR	199	154.455	154.797	-20.015	1.00	65.87	BS2	ATOM	15404	CA	ALA	207	165.767	161.323	-32.457	1.00	80.18	BS
ATOM	15352	N	ILE	200	152.817	153.822	-21.230	1.00	69.93	BS2	ATOM	15405	CB	ALA	207	164.678	161.363	-33.546	1.00	50.20	BS
ATOM	15353	CA	ILE	200	153.500	153.895	-22.514	1.00	69.93	BS2	ATOM	15406	C	ALA	207	165.488	162.402	-31.412	1.00	80.18	BS
ATOM	15354	CB	ILE	200	153.041	152.745	-23.429	1.00	95.71	BS2	ATOM	15407	O	ALA	207	164.376	162.512	-30.883	1.00	80.18	BS
ATOM	15355	CG2	ILE	200	153.936	152.649	-24.636	1.00	95.71	BS2	ATOM	15408	N	ILE	208	166.510	163.213	-31.149	1.00	70.76	BS
ATOM	15356	CG1	ILE	200	153.071	151.427	-22.662	1.00	95.71	BS2	ATOM	15409	CA	ILE	208	166.429	164.302	-30.186	1.00	70.76	BS
ATOM	15357	CD1	ILE	200	152.323	150.290	-23.352	1.00	95.71	BS2	ATOM	15410	CG	ILE	208	167.644	165.239	-30.316	1.00	85.89	BS
ATOM	15358	C	ILE	200	153.257	155.177	-23.280	1.00	69.93	BS2	ATOM	15411	CG2	ILE	208	167.416	166.511	-29.516	1.00	85.89	BS
ATOM	15359	O	ILE	200	152.116	155.612	-23.417	1.00	69.93	BS2	ATOM	15412	CG1	ILE	208	168.900	164.511	-29.840	1.00	85.89	BS
ATOM	15360	N	ILE	201	154.335	155.777	-23.777	1.00	70.33	BS2	ATOM	15413	CD1	ILE	208	170.158	165.339	-29.904	1.00	85.89	BS
ATOM	15361	CA	ILE	201	154.238	156.973	-24.611	1.00	70.33	BS2	ATOM	15414	C	ILE	208	165.164	165.130	-30.338	1.00	70.76	BS
ATOM	15362	CB	ILE	201	155.089	158.146	-24.079	1.00	86.68	BS2	ATOM	15415	O	ILE	208	164.422	165.319	-29.378	1.00	70.76	BS
ATOM	15363	CG2	ILE	201	154.910	159.364	-24.978	1.00	86.68	BS2	ATOM	15416	N	ARG	209	164.921	165.628	-31.541	1.00	89.27	BS
ATOM	15364	CG1	ILE	201	154.648	158.518	-22.666	1.00	86.68	BS2	ATOM	15417	CA	ARG	209	163.739	166.441	-31.776	1.00	89.27	BS
ATOM	15365	CD1	ILE	201	155.411	159.696	-22.079	1.00	86.68	BS2	ATOM	15418	CB	ARG	209	163.456	166.534	-33.284	1.00	93.07	BS
ATOM	15366	C	ILE	201	154.789	156.509	-25.961	1.00	70.33	BS2	ATOM	15419	CG	ARG	209	162.335	167.500	-33.647	1.00	93.07	BS
ATOM	15367	O	ILE	201	155.939	156.781	-26.319	1.00	70.33	BS2	ATOM	15420	CD	ARG	209	162.523	168.843	-32.965	1.00	93.07	BS
ATOM	15368	N	PRO	202	153.966	155.774	-26.718	1.00	53.15	BS2	ATOM	15421	NE	ARG	209	163.267	169.787	-33.788	1.00	93.07	BS
ATOM	15369	CD	PRO	202	152.523	155.607	-26.483	1.00	39.50	BS2	ATOM	15422	C2	ARG	209	162.730	170.470	-34.792	1.00	93.07	BS
ATOM	15370	CA	PRO	202	154.332	155.243	-28.029	1.00	53.15	BS2	ATOM	15423	NH1	ARG	209	161.446	170.309	-35.086	1.00	93.07	BS
ATOM	15371	CB	PRO	202	153.069	154.502	-28.461	1.00	39.50	BS2	ATOM	15424	NH2	ARG	209	163.472	171.310	-35.499	1.00	93.07	BS
ATOM	15372	CG	PRO	202	151.997	155.356	-27.881	1.00	39.50	BS2	ATOM	15425	C	ARG	209	162.525	165.871	-31.035	1.00	89.27	BS
ATOM	15373	C	PRO	202	154.720	156.347	-28.996	1.00	53.15	BS2	ATOM	15426	O	ARG	209	161.709	166.620	-30.482	1.00	89.27	BS
ATOM	15374	O	PRO	202	153.878	157.121	-29.454	1.00	53.15	BS2	ATOM	15427	N	SER	210	162.424	164.543	-31.009	1.00	76.96	BS
ATOM	15375	N	GLY	203	156.006	156.409	-29.303	1.00	65.58	BS2	ATOM	15428	CA	SER	210	161.315	163.849	-30.348	1.00	76.96	BS
ATOM	15376	CA	GLY	203	156.490	157.420	-30.212	1.00	65.58	BS2	ATOM	15429	CB	SER	210	161.121	162.475	-30.989	1.00	86.66	BS
ATOM	15377	C	GLY	203	157.973	157.239	-30.405	1.00	65.58	BS2	ATOM	15430	OG	SER	210	160.314	161.648	-30.177	1.00	86.66	BS
ATOM	15378	O	GLY	203	158.607	156.476	-29.682	1.00	65.58	BS2	ATOM	15431	C	SER	210	161.497	163.687	-28.838	1.00	76.96	BS
ATOM	15379	N	ASN	204	158.523	157.957	-31.374	1.00	59.69	BS2	ATOM	15432	O	SER	210	160.698	164.188	-28.046	1.00	76.96	BS
ATOM	15380	CA	ASN	204	159.935	157.881	-31.697	1.00	59.69	BS2	ATOM	15433	N	ILE	211	162.545	162.968	-28.453	1.00	63.87	BS
ATOM	15381	CB	ASN	204	160.308	159.109	-32.518	1.00	109.12	BS2	ATOM	15434	CA	ILE	211	162.854	162.738	-27.050	1.00	63.87	BS
ATOM	15382	CG	ASN	204	161.587	158.921	-33.279	1.00	109.12	BS2	ATOM	15435	CB	ILE	211	164.294	162.272	-26.880	1.00	61.83	BS
ATOM	15383	OD1	ASN	204	161.913	159.702	-34.169	1.00	109.12	BS2	ATOM	15436	CG2	ILE	211	164.639	162.207	-25.404	1.00	61.83	BS
ATOM	15384	ND2	ASN	204	162.331	157.883	-32.931	1.00	109.12	BS2	ATOM	15437	CG1	ILE	211	164.484	160.928	-27.575	1.00	61.83	BS
ATOM	15385	C	ASN	204	160.888	157.724	-30.497	1.00	59.69	BS2	ATOM	15438	CD1	ILE	211	165.923	160.466	-27.632	1.00	61.83	BS
ATOM	15386	O	ASN	204	161.166	158.689	-29.780	1.00	59.69	BS2	ATOM	15439	C	ILE	211	162.694	164.014	-26.243	1.00	63.87	BS
ATOM	15387	N	ASP	205	161.382	156.496	-30.299	1.00	72.64	BS2	ATOM	15440	O	ILE	211	162.072	164.013	-25.182	1.00	63.87	BS
ATOM	15388	CA	ASP	205	162.319	156.170	-29.210	1.00	72.64	BS2	ATOM	15441	N	GLN	212	163.272	165.094	-26.757	1.00	79.19	BS

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ATOM	15442	CA	GLN	212	163.222	166.401	-26.113	1.00	79.19	BS2	ATOM	15495	O	ALA	218	156.618	166.138	-16.671	1.00	66.66	BS2
ATOM	15443	CB	GLN	212	164.006	167.410	-26.960	1.00	81.68	BS2	ATOM	15496	N	VAL	219	158.020	167.254	-18.020	1.00	62.04	BS2
ATOM	15444	CG	GLN	212	164.159	168.810	-26.368	1.00	81.68	BS2	ATOM	15497	CA	VAL	219	158.655	167.950	-16.907	1.00	62.04	BS2
ATOM	15445	CD	GLN	212	162.863	169.597	-26.359	1.00	81.68	BS2	ATOM	15498	CB	VAL	219	160.076	168.417	-17.260	1.00	55.04	BS2
ATOM	15446	OEL	GLN	212	162.110	169.583	-27.332	1.00	81.68	BS2	ATOM	15499	CG1	VAL	219	160.818	168.815	-15.984	1.00	55.04	BS2
ATOM	15447	NE2	GLN	212	162.606	170.305	-25.264	1.00	81.68	BS2	ATOM	15500	CG2	VAL	219	160.813	167.321	-18.009	1.00	55.04	BS2
ATOM	15448	C	GLN	212	161.782	166.880	-25.920	1.00	79.19	BS2	ATOM	15501	C	VAL	219	157.817	169.174	-16.553	1.00	62.04	BS2
ATOM	15449	O	GLN	212	161.404	167.328	-24.837	1.00	79.19	BS2	ATOM	15502	O	VAL	219	157.553	169.439	-15.378	1.00	62.04	BS2
ATOM	15450	N	LEU	213	160.979	166.783	-26.970	1.00	61.01	BS2	ATOM	15503	N	ASP	220	157.407	169.925	-17.574	1.00	81.05	BS2
ATOM	15451	CA	LEU	213	159.592	167.223	-26.901	1.00	61.01	BS2	ATOM	15504	CA	ASP	220	156.576	171.104	-17.361	1.00	81.05	BS2
ATOM	15452	CG	LEU	213	158.862	166.841	-28.183	1.00	62.97	BS2	ATOM	15505	CB	ASP	220	155.947	171.590	-18.680	1.00	102.80	BS2
ATOM	15453	CG	LEU	213	157.493	167.479	-28.442	1.00	62.97	BS2	ATOM	15506	CG	ASP	220	156.982	172.051	-19.709	1.00	102.80	BS2
ATOM	15454	CD1	LEU	213	157.036	166.995	-29.795	1.00	62.97	BS2	ATOM	15507	OD1	ASP	220	157.951	172.737	-19.322	1.00	102.80	BS2
ATOM	15455	CD2	LEU	213	156.463	167.142	-27.366	1.00	62.97	BS2	ATOM	15508	OD2	ASP	220	156.812	171.746	-20.913	1.00	102.80	BS2
ATOM	15456	C	LEU	213	158.861	166.615	-25.717	1.00	61.01	BS2	ATOM	15509	C	ASP	220	155.464	170.648	-16.425	1.00	81.05	BS2
ATOM	15457	O	LEU	213	158.455	167.313	-24.784	1.00	61.01	BS2	ATOM	15510	O	ASP	220	155.251	171.219	-15.354	1.00	81.05	BS2
ATOM	15458	N	LEU	214	158.683	165.303	-25.775	1.00	63.79	BS2	ATOM	15511	N	LEU	221	154.775	169.593	-16.851	1.00	55.50	BS2
ATOM	15459	CA	LEU	214	157.986	164.588	-24.729	1.00	63.79	BS2	ATOM	15512	CA	LEU	221	153.673	168.996	-16.108	1.00	55.50	BS2
ATOM	15460	CB	LEU	214	158.117	163.083	-24.921	1.00	42.93	BS2	ATOM	15513	CB	LEU	221	153.263	167.691	-16.790	1.00	54.68	BS2
ATOM	15461	CG2	LEU	214	157.355	162.361	-23.839	1.00	42.93	BS2	ATOM	15514	CG	LEU	221	151.920	166.551	-15.022	1.00	54.68	BS2
ATOM	15462	CG1	LEU	214	157.569	162.688	-26.282	1.00	42.93	BS2	ATOM	15515	CD1	LEU	221	151.908	167.085	-16.436	1.00	54.68	BS2
ATOM	15463	CD1	LEU	214	156.140	163.091	-26.511	1.00	42.93	BS2	ATOM	15516	CD2	LEU	221	150.838	168.139	-16.615	1.00	55.50	BS2
ATOM	15464	C	LEU	214	158.500	164.950	-23.348	1.00	63.79	BS2	ATOM	15517	C	LEU	221	154.059	168.739	-14.652	1.00	55.50	BS2
ATOM	15465	O	LEU	214	157.782	165.549	-22.555	1.00	63.79	BS2	ATOM	15518	O	LEU	221	153.243	168.911	-13.747	1.00	55.50	BS2
ATOM	15466	N	LEU	215	159.741	164.588	-23.058	1.00	63.29	BS2	ATOM	15519	N	LEU	222	155.300	168.319	-14.430	1.00	73.30	BS2
ATOM	15467	CA	LEU	215	160.298	164.890	-21.755	1.00	63.29	BS2	ATOM	15520	CA	LEU	222	155.775	168.071	-13.074	1.00	73.30	BS2
ATOM	15468	CB	LEU	215	161.808	164.681	-21.745	1.00	61.68	BS2	ATOM	15521	CB	LEU	222	157.221	167.482	-11.741	1.00	70.85	BS2
ATOM	15469	CG	LEU	215	162.280	163.234	-21.834	1.00	61.68	BS2	ATOM	15522	CG2	LEU	222	157.910	167.807	-11.741	1.00	70.85	BS2
ATOM	15470	CD1	LEU	215	163.691	163.141	-21.270	1.00	61.68	BS2	ATOM	15523	CG1	LEU	222	157.185	165.967	-13.272	1.00	70.85	BS2
ATOM	15471	CD2	LEU	215	161.352	162.340	-21.036	1.00	61.68	BS2	ATOM	15524	CD1	LEU	222	158.530	165.287	-13.038	1.00	70.85	BS2
ATOM	15472	C	LEU	215	159.980	166.306	-21.310	1.00	63.29	BS2	ATOM	15525	C	LEU	222	155.770	169.383	-12.287	1.00	73.30	BS2
ATOM	15473	O	LEU	215	159.159	166.505	-20.415	1.00	63.29	BS2	ATOM	15526	O	LEU	222	155.301	169.425	-11.149	1.00	73.30	BS2
ATOM	15474	N	LEU	216	160.636	167.284	-21.930	1.00	66.51	BS2	ATOM	15527	N	LEU	223	156.299	170.448	-12.896	1.00	60.24	BS2
ATOM	15475	CA	LEU	216	160.424	168.695	-21.606	1.00	66.51	BS2	ATOM	15528	CA	LEU	223	157.102	172.794	-13.159	1.00	76.34	BS2
ATOM	15476	CB	LEU	216	160.554	169.542	-22.865	1.00	85.03	BS2	ATOM	15529	CB	LEU	223	157.102	172.794	-13.159	1.00	76.34	BS2
ATOM	15477	CG	LEU	216	159.501	169.234	-23.762	1.00	85.03	BS2	ATOM	15530	CG2	LEU	223	156.705	174.209	-12.792	1.00	76.34	BS2
ATOM	15478	C	LEU	216	159.033	168.892	-21.017	1.00	66.51	BS2	ATOM	15531	CG1	LEU	223	158.619	172.615	-13.020	1.00	76.34	BS2
ATOM	15479	O	LEU	216	158.894	169.332	-19.876	1.00	66.51	BS2	ATOM	15532	CD1	LEU	223	159.165	171.405	-13.719	1.00	76.34	BS2
ATOM	15480	N	LEU	217	158.011	168.552	-21.807	1.00	52.78	BS2	ATOM	15533	C	LEU	223	154.936	172.278	-11.949	1.00	60.24	BS2
ATOM	15481	CA	LEU	217	156.620	168.670	-21.376	1.00	52.78	BS2	ATOM	15534	O	LEU	223	154.659	172.798	-10.865	1.00	60.24	BS2
ATOM	15482	CB	LEU	217	155.672	168.166	-22.463	1.00	64.88	BS2	ATOM	15535	N	LEU	224	154.051	172.112	-12.923	1.00	61.74	BS2
ATOM	15483	CG	LEU	217	155.741	168.958	-23.741	1.00	64.88	BS2	ATOM	15536	CA	LEU	224	152.654	172.489	-12.786	1.00	61.74	BS2
ATOM	15484	CD	LEU	217	155.511	170.447	-23.479	1.00	64.88	BS2	ATOM	15537	CB	LEU	224	151.900	172.161	-14.972	1.00	85.90	BS2
ATOM	15485	NE	LEU	217	155.445	171.209	-24.726	1.00	64.88	BS2	ATOM	15538	CG	LEU	224	151.541	173.346	-14.927	1.00	85.90	BS2
ATOM	15486	CZ	LEU	217	154.387	171.249	-25.536	1.00	64.88	BS2	ATOM	15539	CD	LEU	224	150.461	172.997	-15.930	1.00	85.90	BS2
ATOM	15487	NH1	LEU	217	153.276	170.580	-25.233	1.00	64.88	BS2	ATOM	15540	OEL	LEU	224	149.495	172.301	-15.598	1.00	85.90	BS2
ATOM	15488	NH2	LEU	217	154.454	171.934	-26.672	1.00	64.88	BS2	ATOM	15541	NE2	LEU	224	150.608	173.483	-17.160	1.00	85.90	BS2
ATOM	15489	C	LEU	217	156.398	167.870	-20.103	1.00	52.78	BS2	ATOM	15542	C	GLN	224	152.023	171.687	-11.647	1.00	61.74	BS2
ATOM	15490	O	LEU	217	156.064	168.420	-19.059	1.00	52.78	BS2	ATOM	15543	O	GLN	224	150.803	171.618	-11.535	1.00	61.74	BS2
ATOM	15491	N	LEU	218	156.583	166.562	-20.193	1.00	66.66	BS2	ATOM	15544	N	ALA	225	152.847	171.055	-10.824	1.00	83.18	BS2
ATOM	15492	CA	ALA	218	156.411	165.711	-19.033	1.00	66.66	BS2	ATOM	15545	CA	ALA	225	152.335	170.269	-9.714	1.00	83.18	BS2
ATOM	15493	CB	ALA	218	157.057	164.352	-19.287	1.00	62.42	BS2	ATOM	15546	CB	ALA	225	152.977	168.918	-9.692	1.00	90.52	BS2
ATOM	15494	C	ALA	218	157.033	166.389	-17.802	1.00	66.66	BS2	ATOM	15547	C	ALA	225	152.629	170.990	-8.423	1.00	83.18	BS2

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ATOM	15548	O	ALA	225	151.918	170.814	-7.433	1.00	83.18	BS2	ATOM	15601	OG	SER	233	163.496	172.493	-21.420	1.00113.71	BS2
ATOM	15549	N	ARG	226	153.689	171.791	-8.430	1.00103.73		BS2	ATOM	15602	C	SER	233	164.049	175.152	-21.981	1.00103.56	BS2
ATOM	15550	CA	ARG	226	154.061	172.552	-7.247	1.00103.73		BS2	ATOM	15603	O	SER	233	163.922	175.454	-23.170	1.00103.56	BS2
ATOM	15551	CB	ARG	226	155.196	171.846	-6.491	1.00135.46		BS2	ATOM	15604	N	PRO	234	165.251	175.072	-21.388	1.00129.44	BS2
ATOM	15552	CG	ARG	226	154.730	170.679	-5.621	1.00135.46		BS2	ATOM	15605	CD	PRO	234	165.511	174.871	-19.948	1.00129.44	BS2
ATOM	15553	CD	ARG	226	153.577	171.098	-4.690	1.00135.46		BS2	ATOM	15606	CA	PRO	234	166.495	175.346	-22.107	1.00129.44	BS2
ATOM	15554	NE	ARG	226	153.213	170.061	-3.720	1.00135.46		BS2	ATOM	15607	CB	PRO	234	167.501	175.545	-20.975	1.00129.44	BS2
ATOM	15555	CH	ARG	226	153.819	169.879	-2.547	1.00135.46		BS2	ATOM	15608	CG	PRO	234	167.001	174.608	-19.916	1.00129.44	BS2
ATOM	15556	NH	ARG	226	154.823	170.670	-2.182	1.00135.46		BS2	ATOM	15609	C	PRO	234	166.849	174.155	-23.006	1.00129.44	BS2
ATOM	15557	NH	ARG	226	153.427	168.899	-1.740	1.00135.46		BS2	ATOM	15610	O	PRO	234	167.516	174.316	-22.027	1.00129.44	BS2
ATOM	15558	CA	ARG	226	154.442	174.003	-7.563	1.00103.73		BS2	ATOM	15611	N	SER	235	166.371	172.974	-22.607	1.00124.64	BS2
ATOM	15559	O	ARG	226	153.584	174.796	-7.964	1.00103.73		BS2	ATOM	15612	CA	SER	235	166.592	171.701	-23.300	1.00124.64	BS2
ATOM	15560	N	GLY	227	155.721	174.338	-7.370	1.00148.31		BS2	ATOM	15613	CB	SER	235	165.354	171.305	-24.117	1.00124.64	BS2
ATOM	15561	CA	GLY	227	156.219	175.685	-7.622	1.00148.31		BS2	ATOM	15614	OG	SER	235	165.222	172.091	-25.290	1.00128.53	BS2
ATOM	15562	C	GLY	227	155.384	176.488	-8.600	1.00148.31		BS2	ATOM	15615	C	SER	235	167.812	171.698	-24.209	1.00124.64	BS2
ATOM	15563	O	GLY	227	154.987	177.622	-8.315	1.00148.31		BS2	ATOM	15616	O	SER	235	168.846	171.139	-23.784	1.00124.64	BS2
ATOM	15564	N	GLY	228	155.126	175.888	-9.759	1.00100.42		BS2	ATOM	15617	OXT	SER	235	167.726	172.258	-25.327	1.00128.53	BS2
ATOM	15565	CA	GLY	228	154.321	176.527	-10.780	1.00100.42		BS2	ATOM	15618	CB	PRO	1	154.010	109.956	-72.700	1.00108.77	OS15
ATOM	15566	C	GLY	228	155.025	177.614	-11.564	1.00100.42		BS2	ATOM	15619	CG	PRO	1	155.462	109.672	-73.051	1.00108.77	OS15
ATOM	15567	O	GLY	228	156.123	178.051	-11.204	1.00164.99		BS2	ATOM	15620	C	PRO	1	151.604	108.112	-74.300	1.00108.77	OS15
ATOM	15568	N	VAL	229	154.373	178.037	-12.645	1.00164.99		BS2	ATOM	15621	O	PRO	1	151.938	108.706	-73.272	1.00108.77	OS15
ATOM	15569	CA	VAL	229	154.864	179.087	-13.535	1.00164.99		BS2	ATOM	15622	N	PRO	1	154.204	107.789	-73.659	1.00108.77	OS15
ATOM	15570	CB	VAL	229	154.471	180.498	-13.010	1.00143.59		BS2	ATOM	15623	CD	PRO	1	155.365	108.572	-74.120	1.00108.77	OS15
ATOM	15571	CG	VAL	229	154.700	181.548	-14.097	1.00143.59		BS2	ATOM	15624	CA	PRO	1	153.370	108.616	-72.755	1.00108.77	OS15
ATOM	15572	CG	VAL	229	153.018	180.504	-12.556	1.00143.59		BS2	ATOM	15625	N	ILE	2	151.095	109.451	-72.564	1.00108.77	OS15
ATOM	15573	C	VAL	229	156.374	179.060	-13.740	1.00164.99		BS2	ATOM	15626	CA	ILE	2	149.707	109.955	-72.974	1.00108.77	OS15
ATOM	15574	O	VAL	229	157.007	180.111	-13.856	1.00164.99		BS2	ATOM	15627	CB	ILE	2	148.729	109.283	-71.834	1.00108.77	OS15
ATOM	15575	N	VAL	230	156.966	177.872	-13.779	1.00115.91		BS2	ATOM	15628	CG	ILE	2	147.349	109.038	-72.415	1.00108.77	OS15
ATOM	15576	CA	VAL	230	158.401	177.812	-13.987	1.00115.91		BS2	ATOM	15629	CG	ILE	2	149.192	108.062	-71.038	1.00108.77	OS15
ATOM	15577	CB	VAL	230	159.040	176.601	-13.264	1.00107.05		BS2	ATOM	15630	CD	ILE	2	150.181	108.389	-69.938	1.00108.77	OS15
ATOM	15578	CG	VAL	230	160.550	176.620	-13.462	1.00107.05		BS2	ATOM	15631	C	ILE	2	149.420	111.012	-73.436	1.00108.77	OS15
ATOM	15579	CG	VAL	230	158.726	176.661	-11.768	1.00107.05		BS2	ATOM	15632	O	ILE	2	149.434	111.944	-72.635	1.00108.77	OS15
ATOM	15580	C	VAL	230	158.664	177.763	-15.490	1.00115.91		BS2	ATOM	15633	N	THR	3	149.145	111.168	-74.727	1.00108.77	OS15
ATOM	15581	O	VAL	230	158.791	176.696	-16.088	1.00115.91		BS2	ATOM	15634	CA	THR	3	148.853	112.477	-75.306	1.00108.77	OS15
ATOM	15582	N	GLU	231	158.718	178.962	-16.068	1.00150.19		BS2	ATOM	15635	CB	THR	3	148.620	112.358	-76.832	1.00108.77	OS15
ATOM	15583	CA	GLU	231	158.946	179.245	-17.491	1.00150.19		BS2	ATOM	15636	OG	THR	3	147.622	113.360	-77.094	1.00108.77	OS15
ATOM	15584	CB	GLU	231	159.468	180.684	-17.616	1.00119.32		BS2	ATOM	15637	CG	THR	3	149.908	111.978	-77.537	1.00108.77	OS15
ATOM	15585	CG	GLU	231	160.377	181.133	-16.467	1.00119.32		BS2	ATOM	15638	C	THR	3	147.622	113.131	-74.677	1.00108.77	OS15
ATOM	15586	CD	GLU	231	161.443	180.106	-16.143	1.00119.32		BS2	ATOM	15639	O	THR	3	146.787	112.447	-74.083	1.00108.77	OS15
ATOM	15587	OE	GLU	231	162.217	179.712	-17.012	1.00119.32		BS2	ATOM	15640	N	LVS	4	147.517	114.455	-74.801	1.00108.77	OS15
ATOM	15588	OE	GLU	231	161.504	179.693	-14.933	1.00119.32		BS2	ATOM	15641	CA	LVS	4	146.359	115.167	-74.265	1.00108.77	OS15
ATOM	15589	C	GLU	231	159.826	178.325	-18.364	1.00150.19		BS2	ATOM	15642	CB	LVS	4	146.437	116.662	-74.579	1.00108.77	OS15
ATOM	15590	O	GLU	231	160.765	177.680	-17.877	1.00150.19		BS2	ATOM	15643	CG	LVS	4	147.714	117.334	-74.120	1.00108.77	OS15
ATOM	15591	N	GLU	232	159.533	178.290	-19.687	1.00131.18		BS2	ATOM	15644	CD	LVS	4	147.866	118.765	-74.631	1.00108.77	OS15
ATOM	15592	CD	PRO	232	158.472	179.147	-20.259	1.00103.73		BS2	ATOM	15645	CE	LVS	4	149.203	119.315	-74.523	1.00108.77	OS15
ATOM	15593	CA	PRO	232	160.174	177.527	-20.766	1.00131.18		BS2	ATOM	15646	NZ	LVS	4	149.372	120.590	-75.274	1.00108.77	OS15
ATOM	15594	CB	PRO	232	160.180	178.532	-21.907	1.00103.73		BS2	ATOM	15647	C	LVS	4	145.177	114.564	-74.998	1.00108.77	OS15
ATOM	15595	CG	PRO	232	158.752	179.088	-21.784	1.00103.73		BS2	ATOM	15648	O	LVS	4	144.064	114.479	-74.469	1.00108.77	OS15
ATOM	15596	C	PRO	232	161.531	176.855	-20.540	1.00131.18		BS2	ATOM	15649	N	GLU	5	145.454	114.137	-76.228	1.00108.77	OS15
ATOM	15597	O	PRO	232	162.409	177.363	-19.836	1.00131.18		BS2	ATOM	15650	CA	GLU	5	144.472	113.517	-77.104	1.00108.77	OS15
ATOM	15598	N	SER	233	161.668	175.700	-21.188	1.00103.56		BS2	ATOM	15651	CB	GLU	5	145.101	113.219	-78.466	1.00156.14	OS15
ATOM	15599	CA	SER	233	162.838	174.826	-21.111	1.00103.56		BS2	ATOM	15652	CG	GLU	5	146.009	114.320	-78.987	1.00156.14	OS15
ATOM	15600	CB	SER	233	162.400	173.386	-21.412	1.00113.71		BS2	ATOM	15653	CD	GLU	5	145.349	115.685	-78.961	1.00156.14	OS15

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ATOM	15654	OE1	GLU	5	144.267	115.838	-79.566	1.00156.14	OS15	ATOM	15707	C	ILE	11	136.335	111.545	-70.996	1.00 47.16	OS15
ATOM	15655	OE2	GLU	5	145.915	116.606	-78.337	1.00156.14	OS15	ATOM	15708	O	ILE	11	135.340	111.371	-70.294	1.00 47.16	OS15
ATOM	15656	C	GLU	5	143.980	112.219	-76.481	1.00 61.82	OS15	ATOM	15709	N	GLN	12	136.243	111.856	-72.282	1.00 88.70	OS15
ATOM	15657	O	GLU	5	142.838	112.126	-76.031	1.00 61.82	OS15	ATOM	15710	CA	GLN	12	134.935	112.008	-72.905	1.00 88.70	OS15
ATOM	15658	N	GLU	6	144.847	111.213	-76.447	1.00 68.28	OS15	ATOM	15711	CB	GLN	12	135.082	112.623	-74.291	1.00137.52	OS15
ATOM	15659	CA	GLU	6	144.456	109.938	-75.876	1.00 68.28	OS15	ATOM	15712	CG	GLN	12	135.586	114.047	-74.261	1.00137.52	OS15
ATOM	15660	CB	GLU	6	145.626	108.953	-75.883	1.00159.98	OS15	ATOM	15713	CD	GLN	12	135.889	114.575	-75.641	1.00137.52	OS15
ATOM	15661	CG	GLU	6	145.573	107.982	-77.058	1.00159.98	OS15	ATOM	15714	OE1	GLN	12	136.235	115.744	-75.808	1.00137.52	OS15
ATOM	15662	CD	GLU	6	144.254	107.209	-77.133	1.00159.98	OS15	ATOM	15715	NE2	GLN	12	135.767	113.712	-76.646	1.00137.52	OS15
ATOM	15663	OE1	GLU	6	143.188	107.845	-77.272	1.00159.98	OS15	ATOM	15716	C	GLN	12	134.228	110.663	-73.009	1.00 88.70	OS15
ATOM	15664	OE2	GLU	6	144.280	105.962	-77.057	1.00159.98	OS15	ATOM	15717	O	GLN	12	133.005	110.584	-72.899	1.00 88.70	OS15
ATOM	15665	C	GLU	6	143.896	110.082	-74.473	1.00 68.28	OS15	ATOM	15718	N	GLU	13	135.010	109.606	-73.207	1.00 65.70	OS15
ATOM	15666	O	GLU	6	143.216	109.185	-73.972	1.00 68.28	OS15	ATOM	15719	CA	GLU	13	134.466	108.259	-73.336	1.00 65.70	OS15
ATOM	15667	N	LYS	7	144.166	111.217	-73.839	1.00 70.93	OS15	ATOM	15720	CB	GLU	13	135.548	107.306	-73.857	1.00121.34	OS15
ATOM	15668	CA	LYS	7	143.650	111.438	-72.501	1.00 70.93	OS15	ATOM	15721	CG	GLU	13	135.186	105.826	-73.750	1.00121.34	OS15
ATOM	15669	CB	LYS	7	144.415	112.552	-71.802	1.00 52.09	OS15	ATOM	15722	CD	GLU	13	133.919	105.459	-74.511	1.00121.34	OS15
ATOM	15670	CG	LYS	7	144.156	112.580	-70.317	1.00 52.09	OS15	ATOM	15723	OE1	GLU	13	133.329	104.397	-74.210	1.00121.34	OS15
ATOM	15671	CD	LYS	7	145.026	113.536	-69.621	1.00 52.09	OS15	ATOM	15724	OE2	GLU	13	133.520	106.225	-75.415	1.00121.34	OS15
ATOM	15672	CE	LYS	7	145.705	113.495	-68.116	1.00 52.09	OS15	ATOM	15725	C	GLU	13	133.870	107.703	-72.044	1.00 65.70	OS15
ATOM	15673	NZ	LYS	7	142.179	111.812	-72.588	1.00 70.93	OS15	ATOM	15726	O	GLU	13	133.240	106.646	-72.051	1.00 65.70	OS15
ATOM	15674	C	LYS	7	141.307	111.064	-72.141	1.00 70.93	OS15	ATOM	15727	N	PHE	14	134.061	108.404	-70.934	1.00 67.88	OS15
ATOM	15675	O	LYS	7	141.902	112.969	-73.175	1.00 72.35	OS15	ATOM	15728	CA	PHE	14	133.525	107.921	-69.669	1.00 67.88	OS15
ATOM	15676	N	GLN	8	140.527	113.414	-73.308	1.00 72.35	OS15	ATOM	15729	CB	PHE	14	134.652	107.457	-68.748	1.00 45.92	OS15
ATOM	15677	CA	GLN	8	140.490	114.756	-74.031	1.00126.41	OS15	ATOM	15730	CG	PHE	14	135.160	106.086	-69.076	1.00 45.92	OS15
ATOM	15679	CG	GLN	8	141.274	115.817	-73.287	1.00126.41	OS15	ATOM	15731	CD1	PHE	14	136.045	105.892	-70.129	1.00 45.92	OS15
ATOM	15680	CD	GLN	8	141.115	117.195	-73.883	1.00126.41	OS15	ATOM	15732	CD2	PHE	14	134.686	104.977	-68.384	1.00 45.92	OS15
ATOM	15681	OE1	GLN	8	140.006	117.724	-73.964	1.00126.41	OS15	ATOM	15733	CE1	PHE	14	136.442	104.621	-70.492	1.00 45.92	OS15
ATOM	15682	NE2	GLN	8	142.226	117.791	-74.300	1.00126.41	OS15	ATOM	15734	CE2	PHE	14	135.081	103.695	-68.744	1.00 45.92	OS15
ATOM	15683	C	GLN	8	139.669	112.372	-74.026	1.00 72.35	OS15	ATOM	15735	CZ	PHE	14	135.959	103.519	-69.801	1.00 45.92	OS15
ATOM	15684	O	GLN	8	138.465	112.274	-73.785	1.00 72.35	OS15	ATOM	15736	C	PHE	14	132.662	108.920	-68.941	1.00 67.88	OS15
ATOM	15685	N	LYS	9	139.546	110.547	-75.605	1.00 72.50	OS15	ATOM	15737	O	PHE	14	131.769	108.531	-68.197	1.00 67.88	OS15
ATOM	15686	CA	LYS	9	140.285	111.583	-74.898	1.00 72.50	OS15	ATOM	15738	N	ALA	15	132.925	110.202	-69.158	1.00 46.77	OS15
ATOM	15687	CB	LYS	9	139.829	108.555	-77.200	1.00115.57	OS15	ATOM	15739	CA	ALA	15	132.161	111.264	-68.513	1.00 46.77	OS15
ATOM	15688	CG	LYS	9	138.783	109.032	-78.194	1.00115.57	OS15	ATOM	15740	CB	ALA	15	132.283	112.544	-69.318	1.00 26.15	OS15
ATOM	15689	CD	LYS	9	138.111	107.863	-78.906	1.00115.57	OS15	ATOM	15741	C	ALA	15	130.690	110.887	-69.342	1.00 46.77	OS15
ATOM	15690	CE	LYS	9	137.120	108.313	-79.930	1.00115.57	OS15	ATOM	15742	O	ALA	15	130.093	110.283	-69.229	1.00 46.77	OS15
ATOM	15691	NZ	LYS	9	138.887	109.648	-74.560	1.00 72.50	OS15	ATOM	15743	N	ARG	16	128.716	111.230	-67.192	1.00 82.37	OS15
ATOM	15692	C	LYS	9	137.733	109.237	-74.707	1.00 72.50	OS15	ATOM	15744	CA	ARG	16	128.444	111.037	-65.403	1.00 83.01	OS15
ATOM	15693	O	LYS	9	139.633	109.357	-73.497	1.00 61.84	OS15	ATOM	15745	CB	ARG	16	129.119	109.969	-64.549	1.00 83.01	OS15
ATOM	15694	N	VAL	10	139.140	108.511	-72.414	1.00 61.84	OS15	ATOM	15746	CG	ARG	16	128.160	108.838	-64.170	1.00 83.01	OS15
ATOM	15695	CA	VAL	10	140.298	107.985	-71.540	1.00 64.21	OS15	ATOM	15747	CD	ARG	16	127.046	109.286	-62.184	1.00 83.01	OS15
ATOM	15696	CB	VAL	10	139.746	107.173	-70.387	1.00 64.21	OS15	ATOM	15748	NE	ARG	16	127.177	109.961	-62.184	1.00 83.01	OS15
ATOM	15697	CG1	VAL	10	141.233	107.135	-72.369	1.00 64.21	OS15	ATOM	15749	CZ	ARG	16	128.377	110.285	-61.717	1.00 83.01	OS15
ATOM	15698	CG2	VAL	10	138.194	109.300	-71.526	1.00 61.84	OS15	ATOM	15750	NH1	ARG	16	126.100	110.314	-61.496	1.00 83.01	OS15
ATOM	15699	O	VAL	10	137.160	108.795	-71.098	1.00 61.84	OS15	ATOM	15751	NH2	ARG	16	127.806	111.883	-67.664	1.00 82.37	OS15
ATOM	15700	N	ILE	11	138.561	110.543	-71.246	1.00 47.16	OS15	ATOM	15752	C	ARG	16	126.625	111.606	-67.863	1.00 82.37	OS15
ATOM	15701	N	ILE	11	137.397	111.391	-70.413	1.00 47.16	OS15	ATOM	15753	O	ARG	16	128.371	113.010	-68.087	1.00 61.70	OS15
ATOM	15702	CA	ILE	11	138.394	112.766	-70.227	1.00 49.97	OS15	ATOM	15754	N	PHE	17	127.630	114.026	-68.824	1.00 61.70	OS15
ATOM	15703	CB	ILE	11	137.444	113.717	-69.503	1.00 49.97	OS15	ATOM	15755	CA	PHE	17	126.610	114.686	-67.903	1.00 81.85	OS15
ATOM	15704	CG2	ILE	11	139.714	112.577	-69.464	1.00 49.97	OS15	ATOM	15756	CG	PHE	17	127.189	115.148	-66.609	1.00 81.85	OS15
ATOM	15705	CG1	ILE	11	140.451	113.860	-69.085	1.00 49.97	OS15	ATOM	15757	CD1	PHE	17	127.913	116.333	-66.541	1.00 81.85	OS15
ATOM	15706	CD1	ILE	11					OS15	ATOM	15758	CD2	PHE	17	127.059	114.368	-65.463	1.00 81.85	OS15
ATOM	15707	C	ILE	11					OS15	ATOM	15759	CD2	PHE	17					OS15

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ATOM	15760	CE1	PHE	17	128.506	116.737	-65.345	1.00	81.85	OS15	ATOM	15813	OE1	GLU	25	129.779	105.363	-62.787	1.00	59.43	OS1
ATOM	15761	CE2	PHE	17	127.646	114.759	-64.265	1.00	81.85	OS15	ATOM	15814	OE2	GLU	25	131.126	107.061	-62.408	1.00	59.43	OS1
ATOM	15762	CZ	PHE	17	128.374	115.947	-64.204	1.00	81.85	OS15	ATOM	15815	C	GLU	25	135.205	107.026	-64.359	1.00	66.07	OS1
ATOM	15763	C	PHE	17	128.591	115.074	-69.385	1.00	61.70	OS15	ATOM	15816	O	GLU	25	136.125	106.271	-64.674	1.00	66.07	OS1
ATOM	15764	N	PHE	17	129.720	115.210	-68.910	1.00	61.70	OS15	ATOM	15817	N	VAL	26	135.219	108.331	-64.611	1.00	39.66	OS1
ATOM	15765	N	PRO	18	128.153	115.825	-70.411	1.00	90.79	OS15	ATOM	15818	CA	VAL	26	136.337	108.946	-65.320	1.00	39.66	OS1
ATOM	15766	CD	PRO	18	126.830	115.733	-71.052	1.00	90.79	OS15	ATOM	15819	CB	VAL	26	136.165	110.489	-65.441	1.00	36.02	OS1
ATOM	15767	CA	PRO	18	128.958	116.866	-71.055	1.00	90.79	OS15	ATOM	15820	CG1	VAL	26	137.420	111.114	-66.032	1.00	36.02	OS1
ATOM	15768	CB	PRO	18	127.930	117.622	-71.879	1.00	78.57	OS15	ATOM	15821	CG2	VAL	26	134.968	110.812	-66.332	1.00	36.02	OS1
ATOM	15769	CG	PRO	18	127.033	116.527	-72.323	1.00	78.57	OS15	ATOM	15822	C	VAL	26	137.657	108.637	-64.628	1.00	39.66	OS1
ATOM	15770	CG	PRO	18	129.698	117.774	-70.087	1.00	90.79	OS15	ATOM	15823	O	VAL	26	138.529	107.963	-65.191	1.00	39.66	OS1
ATOM	15771	O	PRO	18	129.101	118.663	-69.480	1.00	90.79	OS15	ATOM	15824	N	GLN	27	137.800	109.122	-63.401	1.00	53.53	OS1
ATOM	15772	N	GLY	19	131.001	117.540	-69.951	1.00	84.60	OS15	ATOM	15825	CA	GLN	27	139.014	108.889	-62.649	1.00	53.53	OS1
ATOM	15773	CA	GLY	19	131.813	118.351	-69.064	1.00	84.60	OS15	ATOM	15826	CB	GLN	27	138.786	109.214	-61.187	1.00	60.46	OS1
ATOM	15774	O	GLY	19	132.277	117.615	-67.826	1.00	84.60	OS15	ATOM	15827	CG	GLN	27	138.567	110.683	-60.964	1.00	60.46	OS1
ATOM	15775	O	GLY	19	132.961	118.187	-66.980	1.00	84.60	OS15	ATOM	15828	CD	GLN	27	138.329	111.002	-59.518	1.00	60.46	OS1
ATOM	15776	N	ASP	20	131.909	116.345	-67.713	1.00	95.45	OS15	ATOM	15829	OE1	GLN	27	139.151	110.691	-58.664	1.00	60.46	OS1
ATOM	15777	CA	ASP	20	132.301	115.548	-66.558	1.00	95.45	OS15	ATOM	15830	NE2	GLN	27	137.195	111.625	-59.227	1.00	60.46	OS1
ATOM	15778	CB	ASP	20	131.519	114.243	-66.521	1.00	88.76	OS15	ATOM	15831	C	GLN	27	139.474	107.457	-62.810	1.00	53.53	OS1
ATOM	15779	CG	ASP	20	131.955	113.352	-66.386	1.00	88.76	OS15	ATOM	15832	O	GLN	27	140.588	107.216	-63.270	1.00	53.53	OS1
ATOM	15780	OD1	ASP	20	131.807	112.117	-65.499	1.00	88.76	OS15	ATOM	15833	N	VAL	28	138.617	106.504	-62.459	1.00	36.91	OS1
ATOM	15781	OD2	ASP	20	132.445	113.894	-64.373	1.00	88.76	OS15	ATOM	15834	CA	VAL	28	138.988	105.103	-62.591	1.00	36.91	OS1
ATOM	15782	C	ASP	20	133.788	115.214	-66.585	1.00	95.45	OS15	ATOM	15835	CB	VAL	28	137.819	104.170	-62.266	1.00	33.75	OS1
ATOM	15783	O	ASP	20	134.236	114.440	-67.433	1.00	95.45	OS15	ATOM	15836	CG1	VAL	28	138.190	102.726	-62.563	1.00	33.75	OS1
ATOM	15784	N	THR	21	134.551	115.777	-65.653	1.00	56.96	OS15	ATOM	15837	CG2	VAL	28	137.473	104.305	-60.802	1.00	33.75	OS1
ATOM	15785	CA	THR	21	135.983	115.509	-65.610	1.00	56.96	OS15	ATOM	15838	C	VAL	28	139.494	104.785	-63.986	1.00	36.91	OS1
ATOM	15786	CB	THR	21	136.822	116.822	-65.642	1.00	52.35	OS15	ATOM	15839	O	VAL	28	140.489	104.070	-64.135	1.00	36.91	OS1
ATOM	15787	OG1	THR	21	136.457	117.666	-64.540	1.00	52.35	OS15	ATOM	15840	N	ALA	29	138.828	105.314	-65.008	1.00	43.89	OS1
ATOM	15788	CG2	THR	21	136.605	117.565	-66.937	1.00	52.35	OS15	ATOM	15841	CA	ALA	29	139.255	105.053	-66.383	1.00	43.89	OS1
ATOM	15789	C	THR	21	136.422	114.714	-64.386	1.00	56.96	OS15	ATOM	15842	CB	ALA	29	138.324	105.756	-67.369	1.00	48.58	OS1
ATOM	15790	O	THR	21	137.493	114.115	-64.396	1.00	56.96	OS15	ATOM	15843	C	ALA	29	140.700	105.515	-66.593	1.00	43.89	OS1
ATOM	15791	N	GLY	22	135.598	114.701	-63.339	1.00	44.02	OS15	ATOM	15844	O	ALA	29	141.555	106.733	-67.028	1.00	43.89	OS1
ATOM	15792	CA	GLY	22	135.971	114.002	-62.119	1.00	44.02	OS15	ATOM	15845	N	LEU	30	140.955	106.781	-66.264	1.00	48.71	OS1
ATOM	15793	O	GLY	22	135.011	112.977	-61.550	1.00	44.02	OS15	ATOM	15846	CA	LEU	30	142.279	107.394	-66.392	1.00	48.71	OS1
ATOM	15794	C	GLY	22	135.026	112.724	-60.351	1.00	44.02	OS15	ATOM	15847	CB	LEU	30	142.243	108.834	-65.870	1.00	57.50	OS1
ATOM	15795	N	SER	23	134.165	112.387	-62.382	1.00	69.44	OS15	ATOM	15848	CG	LEU	30	141.517	109.902	-66.693	1.00	57.50	OS1
ATOM	15796	CA	SER	23	133.257	111.374	-61.878	1.00	69.44	OS15	ATOM	15849	CD1	LEU	30	140.163	109.384	-67.100	1.00	57.50	OS1
ATOM	15797	CB	SER	23	133.194	111.023	-62.913	1.00120.31	OS15	ATOM	15850	CD2	LEU	30	141.366	111.181	-65.882	1.00	57.50	OS1	
ATOM	15798	CG	SER	23	131.266	112.077	-63.052	1.00120.31	OS15	ATOM	15851	C	LEU	30	143.365	106.610	-65.646	1.00	48.71	OS1	
ATOM	15799	C	SER	23	134.114	110.158	-61.622	1.00	69.44	OS15	ATOM	15852	O	LEU	30	144.487	106.465	-66.141	1.00	48.71	OS1
ATOM	15800	O	SER	23	135.074	109.917	-62.348	1.00	69.44	OS15	ATOM	15853	N	LEU	31	143.034	106.120	-64.453	1.00	61.36	OS1
ATOM	15801	N	THR	24	133.781	109.396	-60.592	1.00	55.95	OS15	ATOM	15854	CA	LEU	31	143.974	105.332	-63.660	1.00	61.36	OS1
ATOM	15802	CA	THR	24	134.535	108.196	-60.290	1.00	55.95	OS15	ATOM	15855	CB	LEU	31	143.400	105.048	-62.282	1.00	55.98	OS1
ATOM	15803	CB	THR	24	133.773	107.303	-59.352	1.00	40.61	OS15	ATOM	15856	CG	LEU	31	143.384	105.248	-61.352	1.00	55.98	OS1
ATOM	15804	OG1	THR	24	133.363	108.065	-58.213	1.00	40.61	OS15	ATOM	15857	CD1	LEU	31	142.510	105.947	-60.153	1.00	55.98	OS1
ATOM	15805	CG2	THR	24	134.639	106.152	-58.913	1.00	40.61	OS15	ATOM	15858	CD2	LEU	31	144.804	106.565	-60.938	1.00	55.98	OS1
ATOM	15806	C	THR	24	134.806	107.404	-61.562	1.00	55.95	OS15	ATOM	15859	C	LEU	31	144.804	106.565	-60.938	1.00	55.98	OS1
ATOM	15807	O	THR	24	135.924	106.952	-61.791	1.00	55.95	OS15	ATOM	15860	N	LEU	31	144.239	104.012	-64.356	1.00	61.36	OS1
ATOM	15808	N	GLU	25	133.787	107.230	-62.393	1.00	66.07	OS15	ATOM	15861	O	THR	32	145.370	103.537	-64.410	1.00	61.36	OS1
ATOM	15809	CA	GLU	25	133.978	106.493	-63.634	1.00	66.07	OS15	ATOM	15862	CA	THR	32	143.182	103.412	-64.881	1.00	53.08	OS1
ATOM	15810	CB	GLU	25	133.757	106.618	-64.555	1.00	59.43	OS15	ATOM	15863	CB	THR	32	143.325	102.153	-65.578	1.00	53.08	OS1
ATOM	15811	CG	GLU	25	131.621	105.648	-64.265	1.00	59.43	OS15	ATOM	15864	OG1	THR	32	141.987	101.666	-66.084	1.00	49.56	OS1
ATOM	15812	CD	GLU	25	130.784	106.053	-63.068	1.00	59.43	OS15	ATOM	15865	CG2	THR	32	141.007	101.882	-65.064	1.00	49.56	OS1

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ATOM	15866	C	THR	32	144.248	102.362	-66.763	1.00	53.08	OS15	ATOM	15919	CD2	LEU	38	155.009	101.491	-64.024	1.00	57.95	OS1
ATOM	15867	O	THR	32	145.012	101.470	-67.135	1.00	53.08	OS15	ATOM	15920	C	LEU	38	153.260	99.806	-66.251	1.00	36.36	OS1
ATOM	15868	N	LEU	33	144.179	103.548	-67.352	1.00	45.30	OS15	ATOM	15921	O	LEU	38	154.386	99.346	-66.374	1.00	36.36	OS1
ATOM	15869	CA	LEU	33	145.021	103.850	-68.493	1.00	45.30	OS15	ATOM	15922	N	SER	39	152.182	99.054	-66.056	1.00	39.58	OS1
ATOM	15870	CB	LEU	33	144.552	105.142	-69.169	1.00	45.27	OS15	ATOM	15923	CA	SER	39	152.279	97.595	-66.007	1.00	39.58	OS1
ATOM	15871	CG	LEU	33	145.067	105.444	-70.581	1.00	45.27	OS15	ATOM	15924	CB	SER	39	150.890	96.961	-66.049	1.00	82.12	OS1
ATOM	15872	CD1	LEU	33	144.465	106.742	-71.037	1.00	45.27	OS15	ATOM	15925	OG	SER	39	150.129	97.334	-64.919	1.00	82.12	OS1
ATOM	15873	CD2	LEU	33	146.582	105.542	-70.607	1.00	45.27	OS15	ATOM	15926	C	SER	39	153.078	97.128	-67.219	1.00	39.58	OS1
ATOM	15874	C	LEU	33	146.481	103.979	-68.055	1.00	45.30	OS15	ATOM	15927	O	SER	39	153.891	96.202	-67.129	1.00	39.58	OS1
ATOM	15875	O	LEU	33	147.377	103.392	-68.669	1.00	45.30	OS15	ATOM	15928	N	GLU	40	152.826	97.796	-68.344	1.00	57.16	OS1
ATOM	15876	N	ARG	34	146.725	104.744	-66.997	1.00	37.52	OS15	ATOM	15929	CA	GLU	40	153.486	97.515	-69.606	1.00	57.16	OS1
ATOM	15877	CA	ARG	34	148.090	104.921	-66.521	1.00	37.52	OS15	ATOM	15930	CB	GLU	40	152.883	98.379	-70.708	1.00	104.78	OS1
ATOM	15878	CB	ARG	34	148.149	105.947	-65.387	1.00	65.34	OS15	ATOM	15931	CG	GLU	40	153.034	97.797	-72.084	1.00	104.78	OS1
ATOM	15879	CG	ARG	34	147.677	107.336	-65.771	1.00	65.34	OS15	ATOM	15932	CD	GLU	40	152.319	96.470	-72.213	1.00	104.78	OS1
ATOM	15880	NE	ARG	34	147.964	108.329	-64.663	1.00	65.34	OS15	ATOM	15933	OE1	GLU	40	152.317	95.900	-73.324	1.00	104.78	OS1
ATOM	15881	NE	ARG	34	149.401	108.499	-64.471	1.00	65.34	OS15	ATOM	15934	OE2	GLU	40	151.758	95.996	-71.201	1.00	104.78	OS1
ATOM	15882	CZ	ARG	34	150.011	108.466	-63.290	1.00	65.34	OS15	ATOM	15935	C	GLU	40	154.958	97.847	-69.449	1.00	57.16	OS1
ATOM	15883	NH1	ARG	34	149.307	108.267	-62.178	1.00	65.34	OS15	ATOM	15936	O	GLU	40	155.812	96.961	-69.477	1.00	57.16	OS1
ATOM	15884	NH2	ARG	34	151.326	108.625	-63.222	1.00	65.34	OS15	ATOM	15937	N	HIS	41	155.249	99.135	-69.289	1.00	48.16	OS1
ATOM	15885	C	ARG	34	148.664	103.598	-66.033	1.00	37.52	OS15	ATOM	15938	CA	HIS	41	156.617	99.606	-69.099	1.00	48.16	OS1
ATOM	15886	O	ARG	34	149.832	103.300	-66.274	1.00	37.52	OS15	ATOM	15939	CB	HIS	41	156.607	100.964	-68.390	1.00	58.85	OS1
ATOM	15887	N	ILE	35	147.843	102.810	-65.346	1.00	32.49	OS15	ATOM	15940	CG	HIS	41	157.933	101.362	-67.818	1.00	58.85	OS1
ATOM	15888	CA	ILE	35	148.285	101.531	-64.834	1.00	32.49	OS15	ATOM	15941	CD2	HIS	41	158.342	101.515	-66.536	1.00	58.85	OS1
ATOM	15889	CG	ILE	35	147.158	100.808	-64.086	1.00	34.36	OS15	ATOM	15942	ND1	HIS	41	159.027	101.658	-68.603	1.00	58.85	OS1
ATOM	15890	CG2	ILE	35	147.583	99.396	-63.725	1.00	34.36	OS15	ATOM	15943	CE1	HIS	41	160.051	101.980	-67.832	1.00	58.85	OS1
ATOM	15891	CG1	ILE	35	146.808	101.586	-62.819	1.00	34.36	OS15	ATOM	15944	NE2	HIS	41	159.662	101.901	-66.573	1.00	58.85	OS1
ATOM	15892	CD1	ILE	35	145.848	100.853	-61.884	1.00	34.36	OS15	ATOM	15945	C	HIS	41	157.392	98.607	-68.251	1.00	48.16	OS1
ATOM	15893	C	ILE	35	148.754	100.653	-65.979	1.00	32.49	OS15	ATOM	15946	O	HIS	41	158.509	98.242	-68.583	1.00	48.16	OS1
ATOM	15894	O	ILE	35	149.906	100.198	-66.009	1.00	48.88	OS15	ATOM	15947	N	LEU	42	156.774	98.161	-67.163	1.00	39.15	OS1
ATOM	15895	N	ASN	36	147.868	100.419	-66.936	1.00	48.88	OS15	ATOM	15948	CA	LEU	42	157.393	97.232	-66.239	1.00	39.15	OS1
ATOM	15896	CA	ASN	36	148.215	99.583	-66.063	1.00	48.88	OS15	ATOM	15949	CB	LEU	42	156.667	97.286	-64.894	1.00	51.25	OS1
ATOM	15897	CB	ASN	36	147.076	99.599	-69.051	1.00	51.19	OS15	ATOM	15950	CG	LEU	42	156.806	98.574	-64.079	1.00	51.25	OS1
ATOM	15898	CG	ASN	36	145.888	98.831	-66.534	1.00	51.19	OS15	ATOM	15951	CD1	LEU	42	155.957	98.477	-62.815	1.00	51.25	OS1
ATOM	15899	OD1	ASN	36	144.805	98.875	-69.108	1.00	51.19	OS15	ATOM	15952	CD2	LEU	42	158.265	98.803	-63.722	1.00	51.25	OS1
ATOM	15900	ND2	ASN	36	146.093	98.103	-67.438	1.00	48.88	OS15	ATOM	15953	C	LEU	42	157.522	95.778	-66.693	1.00	39.15	OS1
ATOM	15901	C	ASN	36	149.526	99.979	-68.701	1.00	48.88	OS15	ATOM	15954	O	LEU	42	158.220	94.993	-66.036	1.00	39.15	OS1
ATOM	15902	O	ASN	36	150.348	99.119	-68.989	1.00	48.88	OS15	ATOM	15955	N	LYS	43	156.861	95.391	-67.784	1.00	49.75	OS1
ATOM	15903	N	ARG	37	149.736	101.273	-68.904	1.00	45.34	OS15	ATOM	15956	CA	LYS	43	156.078	93.722	-68.254	1.00	49.75	OS1
ATOM	15904	CA	ARG	37	150.995	101.738	-69.474	1.00	45.34	OS15	ATOM	15957	CB	LYS	43	154.600	93.654	-69.448	1.00	101.17	OS1
ATOM	15905	CB	ARG	37	151.020	103.260	-69.591	1.00	74.76	OS15	ATOM	15958	CG	LYS	43	153.740	93.141	-70.221	1.00	101.17	OS1
ATOM	15906	CG	ARG	37	150.331	103.835	-70.567	1.00	74.76	OS15	ATOM	15959	CD	LYS	43	152.246	93.335	-69.944	1.00	101.17	OS1
ATOM	15907	CD	ARG	37	150.188	103.209	-71.938	1.00	74.76	OS15	ATOM	15960	CE	LYS	43	151.770	92.637	-68.716	1.00	101.17	OS1
ATOM	15908	NE	ARG	37	149.615	104.047	-72.988	1.00	74.76	OS15	ATOM	15961	NZ	LYS	43	158.462	93.884	-68.543	1.00	49.75	OS1
ATOM	15909	CZ	ARG	37	150.222	105.110	-73.506	1.00	74.76	OS15	ATOM	15962	C	LYS	43	159.076	92.825	-68.544	1.00	49.75	OS1
ATOM	15910	NH1	ARG	37	149.615	105.466	-74.444	1.00	74.76	OS15	ATOM	15963	O	LYS	44	158.997	95.012	-69.086	1.00	69.03	OS1
ATOM	15911	NH2	ARG	37	152.141	101.309	-68.560	1.00	45.34	OS15	ATOM	15964	N	VAL	44	160.395	95.164	-69.438	1.00	69.03	OS1
ATOM	15912	C	ARG	37	153.118	100.706	-69.010	1.00	45.34	OS15	ATOM	15965	CA	VAL	44	161.984	95.917	-70.200	1.00	38.14	OS1
ATOM	15913	O	ARG	37	152.014	101.625	-67.272	1.00	36.36	OS15	ATOM	15966	CB	VAL	44	159.533	95.585	-71.731	1.00	38.14	OS1
ATOM	15914	N	LEU	38	153.050	101.294	-66.303	1.00	36.36	OS15	ATOM	15967	CG1	VAL	44	160.801	96.034	-68.253	1.00	69.03	OS1
ATOM	15915	CA	LEU	38	152.687	101.807	-64.906	1.00	57.95	OS15	ATOM	15968	CG2	VAL	44	159.927	96.566	-67.574	1.00	69.03	OS1
ATOM	15916	CB	LEU	38	153.834	102.440	-64.103	1.00	57.95	OS15	ATOM	15969	C	VAL	44	162.088	96.205	-67.982	1.00	68.69	OS1
ATOM	15917	CG	LEU	38	153.352	102.783	-62.714	1.00	57.95	OS15	ATOM	15971	N	HIS	45						OS1

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ATOM	15972	CA	HIS	45	162.476	97.045	-66.842	1.00	68.69	OS15	ATOM	16025	C	HIS	50	159.752	103.313	-58.773	1.00	43.19	OS11
ATOM	15973	CB	HIS	45	161.919	98.458	-67.021	1.00	60.55	OS15	ATOM	16026	O	HIS	50	158.850	103.829	-58.123	1.00	43.19	OS11
ATOM	15974	CD	HIS	45	162.289	99.085	-68.322	1.00	60.55	OS15	ATOM	16027	N	SER	51	159.632	102.981	-60.053	1.00	37.44	OS11
ATOM	15975	CE1	HIS	45	163.045	100.172	-68.607	1.00	60.55	OS15	ATOM	16028	CA	SER	51	158.395	103.219	-60.780	1.00	37.44	OS11
ATOM	15976	CD2	HIS	45	161.890	98.566	-69.533	1.00	60.55	OS15	ATOM	16029	CB	SER	51	158.618	103.011	-62.279	1.00	36.76	OS11
ATOM	15977	CE1	HIS	45	162.385	99.307	-70.509	1.00	60.55	OS15	ATOM	16030	OG	SER	51	159.321	104.106	-62.846	1.00	36.76	OS11
ATOM	15978	NE2	HIS	45	163.091	100.288	-69.975	1.00	60.55	OS15	ATOM	16031	C	SER	51	157.308	102.276	-60.273	1.00	37.44	OS11
ATOM	15979	C	HIS	45	161.978	96.478	-65.508	1.00	68.69	OS15	ATOM	16032	O	SER	51	156.128	102.632	-60.218	1.00	37.44	OS11
ATOM	15980	O	HIS	45	161.441	97.196	-64.665	1.00	68.69	OS15	ATOM	16033	N	HIS	52	157.717	101.076	-59.884	1.00	46.60	OS11
ATOM	15981	N	LVS	46	162.164	95.183	-65.319	1.00	60.17	OS15	ATOM	16034	CA	HIS	52	156.788	100.077	-59.397	1.00	46.60	OS11
ATOM	15982	CB	LVS	46	161.735	94.543	-64.097	1.00	60.17	OS15	ATOM	16035	CB	HIS	52	157.545	98.796	-59.067	1.00	41.22	OS11
ATOM	15983	CG	LVS	46	161.879	93.031	-64.248	1.00	70.84	OS15	ATOM	16036	CG	HIS	52	156.672	97.705	-58.540	1.00	41.22	OS11
ATOM	15984	CD	LVS	46	161.138	92.498	-65.455	1.00	70.84	OS15	ATOM	16037	CD2	HIS	52	155.762	96.918	-59.158	1.00	41.22	OS11
ATOM	15985	CE	LVS	46	161.234	90.992	-65.568	1.00	70.84	OS15	ATOM	16038	ND1	HIS	52	156.649	97.348	-57.210	1.00	41.22	OS11
ATOM	15986	CE	LVS	46	160.421	90.492	-66.754	1.00	70.84	OS15	ATOM	16039	CE1	HIS	52	155.761	96.387	-57.031	1.00	41.22	OS11
ATOM	15987	N2	LVS	46	160.473	89.009	-66.875	1.00	70.84	OS15	ATOM	16040	NE2	HIS	52	155.208	96.109	-58.198	1.00	41.22	OS11
ATOM	15988	C	LVS	46	162.554	95.047	-62.912	1.00	60.17	OS15	ATOM	16041	C	HIS	52	155.990	100.559	-58.183	1.00	46.60	OS11
ATOM	15989	O	LVS	46	162.301	94.671	-61.768	1.00	60.17	OS15	ATOM	16042	O	HIS	52	154.804	100.225	-58.025	1.00	46.60	OS11
ATOM	15990	N	LVS	47	163.527	95.907	-63.194	1.00	59.06	OS15	ATOM	16043	N	ARG	53	156.631	101.327	-57.311	1.00	49.50	OS11
ATOM	15991	CA	LVS	47	164.400	96.461	-62.162	1.00	59.06	OS15	ATOM	16044	CA	ARG	53	155.918	101.850	-56.158	1.00	49.50	OS11
ATOM	15992	CB	LVS	47	165.820	96.569	-62.688	1.00	73.28	OS15	ATOM	16045	CB	ARG	53	156.870	102.629	-55.249	1.00	35.03	OS11
ATOM	15993	CG	LVS	47	166.545	95.274	-62.922	1.00	73.28	OS15	ATOM	16046	CG	ARG	53	156.182	103.615	-54.342	1.00	35.03	OS11
ATOM	15994	CD	LVS	47	167.783	95.603	-63.745	1.00	73.28	OS15	ATOM	16047	CD	ARG	53	156.950	103.813	-53.066	1.00	35.03	OS11
ATOM	15995	CE	LVS	47	169.827	94.520	-63.704	1.00	73.28	OS15	ATOM	16048	NE	ARG	53	156.378	104.869	-52.228	1.00	35.03	OS11
ATOM	15996	N2	LVS	47	169.971	94.842	-64.609	1.00	73.28	OS15	ATOM	16049	CZ	ARG	53	156.412	106.165	-53.651	1.00	35.03	OS11
ATOM	15997	C	LVS	47	163.965	97.846	-61.691	1.00	59.06	OS15	ATOM	16050	NH1	ARG	53	156.994	106.570	-53.628	1.00	35.03	OS11
ATOM	15998	O	LVS	47	164.288	98.265	-60.577	1.00	59.06	OS15	ATOM	16051	NH2	ARG	53	155.870	107.054	-51.703	1.00	35.03	OS11
ATOM	15999	N	ASP	48	163.257	98.567	-62.551	1.00	40.86	OS15	ATOM	16052	C	ARG	53	154.828	102.767	-56.715	1.00	49.50	OS11
ATOM	16000	CA	ASP	48	162.790	99.901	-62.205	1.00	40.86	OS15	ATOM	16053	O	ARG	53	153.703	102.792	-56.225	1.00	49.50	OS11
ATOM	16001	CB	ASP	48	162.187	100.575	-63.446	1.00	43.68	OS15	ATOM	16054	N	GLY	54	155.172	103.507	-57.760	1.00	48.92	OS11
ATOM	16002	CG	ASP	48	161.656	101.967	-63.166	1.00	43.68	OS15	ATOM	16055	CA	GLY	54	152.984	103.597	-58.764	1.00	48.92	OS11
ATOM	16003	OD1	ASP	48	161.997	102.542	-62.118	1.00	43.68	OS15	ATOM	16056	C	GLY	54	151.859	104.067	-58.591	1.00	48.92	OS11
ATOM	16004	OD2	ASP	48	160.903	102.492	-64.009	1.00	43.68	OS15	ATOM	16057	O	GLY	54	153.198	102.393	-59.294	1.00	37.61	OS11
ATOM	16005	C	ASP	48	161.756	99.789	-61.089	1.00	40.86	OS15	ATOM	16058	N	LEU	55	152.097	101.541	-59.719	1.00	37.61	OS11
ATOM	16006	O	ASP	48	160.563	99.993	-61.312	1.00	40.86	OS15	ATOM	16059	CA	LEU	55	152.622	100.317	-60.456	1.00	24.02	OS11
ATOM	16007	N	HIS	49	162.230	99.458	-59.890	1.00	48.19	OS15	ATOM	16060	CB	LEU	55	151.552	99.322	-60.924	1.00	24.02	OS11
ATOM	16008	CA	HIS	49	161.367	99.306	-58.729	1.00	48.19	OS15	ATOM	16061	CG	LEU	55	151.213	99.550	-62.380	1.00	24.02	OS11
ATOM	16009	CB	HIS	49	162.159	98.779	-57.550	1.00	42.31	OS15	ATOM	16062	CD1	LEU	55	152.073	97.934	-60.754	1.00	24.02	OS11
ATOM	16010	CG	HIS	49	162.908	97.522	-57.839	1.00	42.31	OS15	ATOM	16063	CD2	LEU	55	151.282	101.081	-58.520	1.00	37.61	OS11
ATOM	16011	CD2	HIS	49	164.197	97.180	-57.611	1.00	42.31	OS15	ATOM	16064	C	LEU	55	150.054	101.151	-58.533	1.00	37.61	OS11
ATOM	16012	ND1	HIS	49	162.311	96.416	-58.398	1.00	42.31	OS15	ATOM	16065	O	LEU	55	151.970	100.598	-57.475	1.00	54.04	OS11
ATOM	16013	CE1	HIS	49	163.202	95.445	-58.503	1.00	42.31	OS15	ATOM	16066	N	LEU	56	152.336	99.830	-55.190	1.00	40.64	OS11
ATOM	16014	NE2	HIS	49	163.354	95.883	-58.031	1.00	42.31	OS15	ATOM	16067	CA	LEU	56	152.636	97.571	-56.161	1.00	40.64	OS11
ATOM	16015	C	HIS	49	160.762	100.635	-58.326	1.00	48.19	OS15	ATOM	16068	CB	LEU	56	153.821	98.225	-54.077	1.00	54.04	OS11
ATOM	16016	O	HIS	49	159.619	100.704	-57.870	1.00	48.19	OS15	ATOM	16069	CG	LEU	56	150.340	101.170	-55.772	1.00	54.04	OS11
ATOM	16017	N	HIS	50	161.546	101.695	-58.476	1.00	43.19	OS15	ATOM	16070	CD1	LEU	56	149.280	100.845	-55.250	1.00	54.04	OS11
ATOM	16018	CA	HIS	50	162.098	104.061	-58.501	1.00	53.46	OS15	ATOM	16071	C	LEU	56	150.721	102.427	-55.934	1.00	51.89	OS11
ATOM	16019	CB	HIS	50	163.676	105.171	-56.771	1.00	53.46	OS15	ATOM	16072	O	LEU	57	149.890	103.527	-55.498	1.00	51.89	OS11
ATOM	16020	CG	HIS	50	164.852	103.394	-56.253	1.00	53.46	OS15	ATOM	16073	N	MET	57	151.953	104.666	-54.574	1.00	41.46	OS11
ATOM	16021	CD2	HIS	50	164.852	103.394	-56.253	1.00	53.46	OS15	ATOM	16074	CA	MET	57						
ATOM	16022	CE1	HIS	50	164.852	103.394	-56.253	1.00	53.46	OS15	ATOM	16075	CB	MET	57						
ATOM	16023	CE1	HIS	50	164.852	103.394	-56.253	1.00	53.46	OS15	ATOM	16076	CG	MET	57						
ATOM	16024	NE2	HIS	50	164.852	103.394	-56.253	1.00	53.46	OS15	ATOM	16077	CG	MET	57						

ATOM	16078	SD	MET	57	152.596	106.250	-54.005	1.00	41.46	OS15	ATOM	16131	O	ARG	63	139.006	100.133	-54.489	1.00	42.04	OS15
ATOM	16079	CE	MET	57	153.371	106.887	-55.465	1.00	41.46	OS15	ATOM	16132	N	ARG	64	140.563	101.729	-54.268	1.00	34.27	OS15
ATOM	16080	C	MET	57	148.694	103.723	-56.423	1.00	51.89	OS15	ATOM	16133	CA	ARG	64	139.837	102.452	-53.238	1.00	34.27	OS15
ATOM	16081	O	MET	57	147.576	103.936	-55.955	1.00	51.89	OS15	ATOM	16134	CB	ARG	64	140.835	103.337	-52.487	1.00	62.88	OS15
ATOM	16082	N	MET	58	148.921	103.656	-57.732	1.00	43.49	OS15	ATOM	16135	CG	ARG	64	140.422	103.702	-51.090	1.00	62.88	OS15
ATOM	16083	CA	MET	58	147.834	103.827	-58.690	1.00	43.49	OS15	ATOM	16136	CD	ARG	64	141.637	104.029	-50.238	1.00	62.88	OS15
ATOM	16084	CB	MET	58	148.373	103.758	-60.123	1.00	65.87	OS15	ATOM	16137	CE	ARG	64	142.598	104.887	-50.922	1.00	62.88	OS15
ATOM	16085	CG	MET	58	149.664	104.540	-60.300	1.00	65.87	OS15	ATOM	16138	CZ	ARG	64	143.725	104.446	-51.470	1.00	62.88	OS15
ATOM	16086	SD	MET	58	150.054	105.057	-61.981	1.00	65.87	OS15	ATOM	16139	NH1	ARG	64	144.030	103.155	-51.409	1.00	62.88	OS15
ATOM	16087	CE	MET	58	150.135	103.491	-62.830	1.00	65.87	OS15	ATOM	16140	NH2	ARG	64	144.548	105.291	-52.079	1.00	62.88	OS15
ATOM	16088	C	MET	58	146.812	102.725	-58.444	1.00	43.49	OS15	ATOM	16141	C	ARG	64	138.646	103.268	-53.789	1.00	34.27	OS15
ATOM	16089	O	MET	58	145.638	102.986	-58.176	1.00	43.49	OS15	ATOM	16142	O	ARG	64	137.644	103.461	-53.098	1.00	34.27	OS15
ATOM	16090	N	VAL	59	147.273	101.485	-58.517	1.00	44.42	OS15	ATOM	16143	N	LEU	65	138.757	103.749	-55.027	1.00	52.75	OS15
ATOM	16091	CA	VAL	59	146.401	100.355	-58.286	1.00	44.42	OS15	ATOM	16144	CA	LEU	65	137.673	104.505	-55.648	1.00	52.75	OS15
ATOM	16092	CB	VAL	59	147.204	99.041	-58.258	1.00	31.82	OS15	ATOM	16145	CB	LEU	65	138.160	105.216	-56.913	1.00	50.45	OS15
ATOM	16093	CG1	VAL	59	146.390	97.911	-57.606	1.00	31.82	OS15	ATOM	16146	CG	LEU	65	139.307	107.068	-58.108	1.00	50.45	OS15
ATOM	16094	CG2	VAL	59	147.577	98.666	-59.681	1.00	31.82	OS15	ATOM	16147	CD1	LEU	65	137.808	107.592	-56.216	1.00	50.45	OS15
ATOM	16095	C	VAL	59	145.702	100.563	-56.965	1.00	44.42	OS15	ATOM	16148	CD2	LEU	65	136.548	103.537	-56.002	1.00	52.75	OS15
ATOM	16096	O	VAL	59	144.525	100.255	-56.818	1.00	44.42	OS15	ATOM	16149	C	LEU	65	135.381	103.807	-55.739	1.00	52.75	OS15
ATOM	16097	N	GLY	60	146.433	101.107	-56.006	1.00	48.86	OS15	ATOM	16150	O	LEU	65	136.902	102.408	-56.603	1.00	48.67	OS15
ATOM	16098	CA	GLY	60	145.849	101.349	-54.701	1.00	48.86	OS15	ATOM	16151	N	LEU	66	135.913	101.406	-56.958	1.00	48.67	OS15
ATOM	16099	C	GLY	60	144.667	102.300	-54.744	1.00	48.86	OS15	ATOM	16152	CA	LEU	66	136.579	100.196	-57.587	1.00	42.99	OS15
ATOM	16100	O	GLY	60	143.562	101.937	-54.334	1.00	48.86	OS15	ATOM	16153	CB	LEU	66	137.313	100.432	-58.889	1.00	42.99	OS15
ATOM	16101	N	GLN	61	144.907	103.512	-55.245	1.00	69.27	OS15	ATOM	16154	CG	LEU	66	137.626	99.090	-59.487	1.00	42.99	OS15
ATOM	16102	CA	GLN	61	143.881	104.545	-55.346	1.00	69.27	OS15	ATOM	16155	CD1	LEU	66	136.448	101.236	-59.844	1.00	42.99	OS15
ATOM	16103	CB	GLN	61	144.469	105.806	-55.980	1.00	62.29	OS15	ATOM	16156	CD2	LEU	66	135.167	100.942	-55.720	1.00	48.67	OS15
ATOM	16104	CG	GLN	61	143.561	107.035	-55.958	1.00	62.29	OS15	ATOM	16157	C	LEU	66	133.958	100.721	-55.755	1.00	47.83	OS15
ATOM	16105	CD	GLN	61	143.181	107.475	-54.548	1.00	62.29	OS15	ATOM	16158	O	LEU	66	135.287	100.768	-54.626	1.00	47.83	OS15
ATOM	16106	OE1	GLN	61	143.949	107.304	-53.598	1.00	62.29	OS15	ATOM	16159	N	ARG	67	135.899	100.300	-53.018	1.00	47.83	OS15
ATOM	16107	NE2	GLN	61	141.994	108.062	-54.412	1.00	62.29	OS15	ATOM	16160	CA	ARG	67	135.735	100.054	-50.920	1.00	83.29	OS15
ATOM	16108	C	GLN	61	142.682	104.075	-56.157	1.00	69.27	OS15	ATOM	16161	CB	ARG	67	136.326	100.286	-52.276	1.00	83.29	OS15
ATOM	16109	O	GLN	61	141.541	104.355	-55.802	1.00	69.27	OS15	ATOM	16162	CG	ARG	67	137.755	100.349	-49.855	1.00	83.29	OS15
ATOM	16110	N	ARG	62	142.928	103.361	-57.249	1.00	44.43	OS15	ATOM	16163	CD	ARG	67	137.640	99.221	-49.605	1.00	83.29	OS15
ATOM	16111	CA	ARG	62	141.818	102.893	-58.060	1.00	44.43	OS15	ATOM	16164	NE	ARG	67	138.877	99.342	-49.137	1.00	83.29	OS15
ATOM	16112	CB	ARG	62	142.319	102.198	-59.326	1.00	45.48	OS15	ATOM	16165	CZ	ARG	67	139.372	100.553	-48.882	1.00	83.29	OS15
ATOM	16113	CG	ARG	62	141.210	101.798	-60.281	1.00	45.48	OS15	ATOM	16166	NH1	ARG	67	139.609	98.255	-48.902	1.00	83.29	OS15
ATOM	16114	CD	ARG	62	141.754	101.217	-61.578	1.00	45.48	OS15	ATOM	16167	NH2	ARG	67	133.124	100.907	-52.522	1.00	47.83	OS15
ATOM	16115	NE	ARG	62	142.380	99.916	-61.379	1.00	45.48	OS15	ATOM	16168	C	ARG	67	134.432	102.574	-53.284	1.00	55.64	OS15
ATOM	16116	CZ	ARG	62	142.828	99.148	-62.368	1.00	45.48	OS15	ATOM	16169	O	ARG	67	133.481	103.640	-53.003	1.00	55.64	OS15
ATOM	16117	NH1	ARG	62	142.719	99.548	-63.625	1.00	45.48	OS15	ATOM	16170	N	TYR	68	133.159	105.002	-53.161	1.00	56.12	OS15
ATOM	16118	NH2	ARG	62	143.386	97.978	-62.102	1.00	45.48	OS15	ATOM	16171	CA	TYR	68	133.184	106.143	-53.226	1.00	56.12	OS15
ATOM	16119	O	ARG	62	140.992	101.924	-57.239	1.00	44.43	OS15	ATOM	16172	CG	TYR	68	132.534	106.590	-52.084	1.00	56.12	OS15
ATOM	16120	C	ARG	63	139.778	102.060	-57.139	1.00	42.04	OS15	ATOM	16173	CD1	TYR	68	131.582	107.604	-52.150	1.00	56.12	OS15
ATOM	16121	N	ARG	63	141.658	100.946	-56.643	1.00	42.04	OS15	ATOM	16174	CE1	TYR	68	131.865	106.737	-54.442	1.00	56.12	OS15
ATOM	16122	CA	ARG	63	140.971	99.948	-55.835	1.00	42.04	OS15	ATOM	16175	CE2	TYR	68	131.915	107.749	-54.521	1.00	56.12	OS15
ATOM	16123	CB	ARG	63	141.989	99.023	-55.155	1.00	42.04	OS15	ATOM	16176	CD2	TYR	68	131.276	108.176	-53.372	1.00	56.12	OS15
ATOM	16124	CG	ARG	63	142.227	97.120	-53.552	1.00	42.04	OS15	ATOM	16177	CZ	TYR	68	130.318	109.159	-53.445	1.00	56.12	OS15
ATOM	16125	CD	ARG	63	141.957	96.125	-54.586	1.00	42.04	OS15	ATOM	16178	OH	TYR	68	132.279	103.574	-53.931	1.00	55.64	OS15
ATOM	16126	CE	ARG	63	141.911	94.813	-54.371	1.00	42.04	OS15	ATOM	16179	C	TYR	68	131.189	104.011	-53.568	1.00	55.64	OS15
ATOM	16127	NH1	ARG	63	141.117	94.328	-53.151	1.00	42.04	OS15	ATOM	16180	O	TYR	69	132.486	103.034	-55.128	1.00	55.22	OS15
ATOM	16128	NH2	ARG	63	141.649	93.982	-55.374	1.00	42.04	OS15	ATOM	16181	N	LEU	69	131.420	102.921	-56.120	1.00	55.22	OS15
ATOM	16129	NH2	ARG	63	140.093	100.610	-54.794	1.00	42.04	OS15	ATOM	16183	CA	LEU	69						OS15

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ATOM	16184	CB	LEU	69	132.002	102.539	-57.488	1.00	65.29	OS15	ATOM	16237	CG	GLU	75	123.378	99.946	-62.556	1.00	133.34	OS15
ATOM	16185	CG	LEU	69	131.361	103.131	-58.751	1.00	65.29	OS15	ATOM	16238	CD	GLU	75	123.426	98.536	-63.112	1.00	133.34	OS15
ATOM	16186	CD	LEU	69	129.908	102.741	-58.823	1.00	65.29	OS15	ATOM	16239	OE1	GLU	75	122.651	97.681	-62.631	1.00	133.34	OS15
ATOM	16187	CD2	LEU	69	131.489	104.635	-58.745	1.00	65.29	OS15	ATOM	16240	OE2	GLU	75	124.239	98.281	-64.028	1.00	133.34	OS15
ATOM	16188	C	LEU	69	130.367	101.904	-55.689	1.00	55.22	OS15	ATOM	16241	C	GLU	75	126.142	99.849	-61.527	1.00	71.97	OS15
ATOM	16189	O	LEU	69	129.191	102.248	-55.648	1.00	55.22	OS15	ATOM	16242	N	GLU	75	126.776	99.115	-62.294	1.00	71.97	OS15
ATOM	16190	N	GLN	70	130.766	100.666	-55.379	1.00	49.80	OS15	ATOM	16243	N	ARG	76	126.402	101.145	-61.378	1.00	66.85	OS15
ATOM	16191	CA	GLN	70	129.792	99.665	-54.938	1.00	49.80	OS15	ATOM	16244	CA	ARG	76	127.478	101.798	-62.107	1.00	66.85	OS15
ATOM	16192	CB	GLN	70	130.440	98.464	-54.147	1.00	77.83	OS15	ATOM	16245	CB	ARG	76	127.654	103.228	-61.625	1.00	68.51	OS15
ATOM	16193	CG	GLN	70	131.269	97.604	-55.182	1.00	77.83	OS15	ATOM	16246	CG	ARG	76	126.535	104.139	-62.034	1.00	68.51	OS15
ATOM	16194	CG	GLN	70	131.893	96.497	-54.332	1.00	77.83	OS15	ATOM	16247	CD	ARG	76	126.975	105.574	-61.912	1.00	68.51	OS15
ATOM	16195	OE1	GLN	70	132.426	96.740	-53.244	1.00	77.83	OS15	ATOM	16248	NE	ARG	76	126.995	106.032	-60.530	1.00	68.51	OS15
ATOM	16196	NE2	GLN	70	131.834	95.273	-54.846	1.00	77.83	OS15	ATOM	16249	CZ	ARG	76	127.719	107.061	-60.103	1.00	68.51	OS15
ATOM	16197	C	GLN	70	128.961	100.317	-53.866	1.00	49.80	OS15	ATOM	16250	NH1	ARG	76	128.490	107.724	-60.951	1.00	68.51	OS15
ATOM	16198	O	GLN	70	127.769	100.556	-54.036	1.00	49.80	OS15	ATOM	16251	NH2	ARG	76	127.653	107.458	-58.837	1.00	68.51	OS15
ATOM	16199	N	ARG	71	129.615	100.595	-52.747	1.00	59.33	OS15	ATOM	16252	C	ARG	76	128.773	101.030	-61.898	1.00	66.85	OS15
ATOM	16200	CA	ARG	71	128.973	101.224	-51.609	1.00	59.33	OS15	ATOM	16253	O	ARG	76	129.628	100.990	-62.779	1.00	66.85	OS15
ATOM	16201	CB	ARG	71	130.033	101.934	-50.772	1.00	75.09	OS15	ATOM	16254	N	TYR	77	128.908	100.444	-60.719	1.00	73.27	OS15
ATOM	16202	CG	ARG	71	129.554	102.403	-49.428	1.00	75.09	OS15	ATOM	16255	CA	TYR	77	130.091	99.671	-60.381	1.00	73.27	OS15
ATOM	16203	CD	ARG	71	130.582	102.075	-48.369	1.00	75.09	OS15	ATOM	16256	CB	TYR	77	129.935	99.048	-58.998	1.00	55.35	OS15
ATOM	16204	NE	ARG	71	131.924	102.553	-48.705	1.00	75.09	OS15	ATOM	16257	CG	TYR	77	131.119	98.210	-58.615	1.00	55.35	OS15
ATOM	16205	CZ	ARG	71	132.259	103.836	-48.844	1.00	75.09	OS15	ATOM	16258	CD1	TYR	77	133.474	98.023	-58.104	1.00	55.35	OS15
ATOM	16206	NH1	ARG	71	131.341	104.791	-48.685	1.00	75.09	OS15	ATOM	16259	CE1	TYR	77	131.026	96.826	-58.583	1.00	55.35	OS15
ATOM	16207	NH2	ARG	71	133.522	104.166	-49.115	1.00	75.09	OS15	ATOM	16260	CE2	TYR	77	132.134	96.045	-58.291	1.00	55.35	OS15
ATOM	16208	C	ARG	71	127.864	102.194	-52.042	1.00	59.33	OS15	ATOM	16261	CZ	TYR	77	133.356	96.647	-58.067	1.00	55.35	OS15
ATOM	16209	O	ARG	71	126.746	102.116	-51.534	1.00	59.33	OS15	ATOM	16262	CH	TYR	77	134.471	95.872	-57.840	1.00	55.35	OS15
ATOM	16210	N	GLU	72	128.156	103.085	-52.992	1.00	59.21	OS15	ATOM	16263	O	TYR	77	130.314	98.570	-61.412	1.00	73.27	OS15
ATOM	16211	CA	GLU	72	127.147	104.035	-53.454	1.00	59.21	OS15	ATOM	16264	C	TYR	77	131.289	98.600	-62.161	1.00	73.27	OS15
ATOM	16212	CB	GLU	72	127.800	105.326	-53.937	1.00	92.77	OS15	ATOM	16265	O	TYR	77	129.409	97.601	-61.444	1.00	92.96	OS15
ATOM	16213	CG	GLU	72	128.511	106.082	-52.829	1.00	92.77	OS15	ATOM	16266	N	ARG	78	129.500	96.496	-62.389	1.00	92.96	OS15
ATOM	16214	CD	GLU	72	127.847	105.894	-51.471	1.00	92.77	OS15	ATOM	16267	CA	ARG	78	128.256	95.616	-62.316	1.00	101.51.43	OS15
ATOM	16215	OE1	GLU	72	126.611	106.060	-51.381	1.00	92.77	OS15	ATOM	16268	CB	ARG	78	127.990	95.016	-60.960	1.00	101.51.43	OS15
ATOM	16216	OE2	GLU	72	128.564	105.581	-50.492	1.00	92.77	OS15	ATOM	16269	CG	ARG	78	126.736	94.176	-61.006	1.00	101.51.43	OS15
ATOM	16217	C	GLU	72	126.231	103.471	-54.535	1.00	59.21	OS15	ATOM	16270	CD	ARG	78	125.409	93.617	-59.701	1.00	101.51.43	OS15
ATOM	16218	O	GLU	72	125.100	103.081	-54.245	1.00	59.21	OS15	ATOM	16271	NE	ARG	78	126.398	92.784	-59.481	1.00	101.51.43	OS15
ATOM	16219	N	ASP	73	126.690	103.424	-55.779	1.00	56.32	OS15	ATOM	16272	CZ	ARG	78	125.174	92.320	-58.258	1.00	101.51.43	OS15
ATOM	16220	CA	ASP	73	125.848	102.872	-56.835	1.00	56.32	OS15	ATOM	16273	NH1	ARG	78	129.617	97.055	-63.793	1.00	92.96	OS15
ATOM	16221	CB	ASP	73	125.753	103.850	-58.008	1.00	93.88	OS15	ATOM	16274	NH2	ARG	78	129.241	96.451	-64.667	1.00	92.96	OS15
ATOM	16222	CG	ASP	73	124.978	102.242	-59.583	1.00	93.88	OS15	ATOM	16275	C	ARG	78	129.023	98.873	-65.296	1.00	70.84	OS15
ATOM	16223	OD1	ASP	73	124.797	103.374	-59.084	1.00	93.88	OS15	ATOM	16276	O	ARG	79	128.106	100.068	-65.270	1.00	34.05	OS15
ATOM	16224	OD2	ASP	73	123.866	104.130	-59.438	1.00	93.88	OS15	ATOM	16277	N	ALA	79	129.003	98.214	-64.000	1.00	70.84	OS15
ATOM	16225	C	ASP	73	126.401	101.531	-57.324	1.00	56.32	OS15	ATOM	16278	CA	ALA	79	128.106	100.068	-65.270	1.00	34.05	OS15
ATOM	16226	O	ASP	73	127.242	101.494	-58.220	1.00	56.32	OS15	ATOM	16279	CB	ALA	79	130.425	99.314	-65.686	1.00	70.84	OS15
ATOM	16227	N	PRO	74	125.922	100.409	-56.750	1.00	41.76	OS15	ATOM	16280	C	ALA	79	130.864	99.087	-66.815	1.00	70.84	OS15
ATOM	16228	CD	PRO	74	124.763	100.322	-55.843	1.00	40.36	OS15	ATOM	16281	O	ALA	79	131.122	99.944	-64.744	1.00	63.78	OS15
ATOM	16229	CA	PRO	74	126.385	99.066	-57.139	1.00	40.36	OS15	ATOM	16282	N	LEU	80	132.955	101.268	-63.782	1.00	40.40	OS15
ATOM	16230	CB	PRO	74	125.590	98.147	-56.220	1.00	40.36	OS15	ATOM	16283	CB	LEU	80	133.787	102.521	-64.073	1.00	40.40	OS15
ATOM	16231	CG	PRO	74	124.291	98.899	-56.063	1.00	40.36	OS15	ATOM	16284	CG	LEU	80	134.549	102.927	-62.821	1.00	40.40	OS15
ATOM	16232	C	PRO	74	126.169	98.742	-58.624	1.00	41.76	OS15	ATOM	16285	CD1	LEU	80	134.744	102.246	-65.216	1.00	40.40	OS15
ATOM	16233	O	PRO	74	126.799	97.833	-59.171	1.00	41.76	OS15	ATOM	16286	CD2	LEU	80	133.441	99.286	-65.204	1.00	63.78	OS15
ATOM	16234	N	GLU	75	125.277	99.493	-59.269	1.00	71.97	OS15	ATOM	16287	C	LEU	80	134.217	99.291	-66.161	1.00	63.78	OS15
ATOM	16235	CA	GLU	75	123.684	99.993	-61.067	1.00	133.34	OS15	ATOM	16288	O	LEU	80						
ATOM	16236	CB	GLU	75						OS15	ATOM	16289	O	LEU	80						

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ATOM	16290	N	ILE	81	133.394	98.308	-64.304	1.00	68.47	OS15	ATOM	16343	NH1	ARG	87	137.542	91.012	-57.195	1.00	100137.40	OS15
ATOM	16291	CA	ILE	81	134.256	97.137	-64.396	1.00	68.47	OS15	ATOM	16344	NH2	ARG	87	135.932	92.451	-56.417	1.00	100137.40	OS15
ATOM	16292	CB	ILE	81	133.826	96.043	-63.406	1.00	83.50	OS15	ATOM	16345	C	ARG	87	140.201	91.636	-62.880	1.00	100164.86	OS15
ATOM	16293	CG2	ILE	81	134.576	94.751	-63.694	1.00	83.50	OS15	ATOM	16346	C	ARG	87	141.165	91.931	-63.589	1.00	100164.86	OS15
ATOM	16294	CG1	ILE	81	134.087	96.501	-61.977	1.00	83.50	OS15	ATOM	16347	N	GLY	88	139.858	90.381	-62.610	1.00	100169.21	OS15
ATOM	16295	CD1	ILE	81	133.769	95.438	-60.965	1.00	83.50	OS15	ATOM	16348	CA	GLY	88	140.620	89.273	-63.157	1.00	100169.21	OS15
ATOM	16296	C	ILE	81	134.177	96.554	-65.796	1.00	68.47	OS15	ATOM	16349	C	GLY	88	141.361	88.487	-62.092	1.00	100169.21	OS15
ATOM	16297	O	ILE	81	135.120	96.669	-66.575	1.00	68.47	OS15	ATOM	16350	O	GLY	88	141.088	87.276	-61.952	1.00	100169.21	OS15
ATOM	16298	N	GLU	82	133.041	95.929	-66.097	1.00	88.81	OS15	ATOM	16351	OXT	GLY	88	142.214	89.079	-61.396	1.00	100117.22	OS15
ATOM	16299	CA	GLU	82	132.801	95.309	-67.394	1.00	88.81	OS15	ATOM	16352	CB	MET	1	140.373	113.845	-41.708	1.00	100119.57	HS8
ATOM	16300	CB	GLU	82	131.294	95.170	-67.626	1.00	151.67	OS15	ATOM	16353	CG	MET	1	138.942	114.380	-41.624	1.00	100119.57	HS8
ATOM	16301	CG	GLU	82	130.885	94.358	-68.853	1.00	151.67	OS15	ATOM	16354	SD	MET	1	137.707	113.057	-41.512	1.00	100119.57	HS8
ATOM	16302	CD	GLU	82	131.225	95.040	-70.168	1.00	151.67	OS15	ATOM	16355	CE	MET	1	137.472	112.646	-43.255	1.00	100119.57	HS8
ATOM	16303	OE1	GLU	82	132.383	94.928	-70.624	1.00	151.67	OS15	ATOM	16356	C	MET	1	141.243	115.413	-39.973	1.00	74.91	HS8
ATOM	16304	OE2	GLU	82	130.330	95.694	-70.745	1.00	151.67	OS15	ATOM	16357	O	MET	1	142.069	115.190	-39.079	1.00	74.91	HS8
ATOM	16305	C	GLU	82	133.425	96.149	-68.498	1.00	88.81	OS15	ATOM	16358	N	MET	1	142.814	114.212	-41.465	1.00	74.91	HS8
ATOM	16306	O	GLU	82	134.268	95.671	-69.261	1.00	88.81	OS15	ATOM	16359	CA	MET	1	141.470	114.869	-41.382	1.00	74.91	HS8
ATOM	16307	N	LYS	83	133.010	97.408	-68.568	1.00	55.05	OS15	ATOM	16360	CA	LEU	2	140.145	116.142	-39.771	1.00	60.32	HS8
ATOM	16308	CA	LYS	83	133.514	98.328	-69.573	1.00	55.05	OS15	ATOM	16361	CA	LEU	2	139.853	116.639	-38.428	1.00	60.32	HS8
ATOM	16309	CB	LYS	83	132.891	99.697	-69.347	1.00	52.07	OS15	ATOM	16362	CB	LEU	2	138.932	117.872	-38.452	1.00	56.05	HS8
ATOM	16310	CG	LYS	83	133.137	100.690	-70.444	1.00	52.07	OS15	ATOM	16363	CD	LEU	2	139.591	119.137	-37.869	1.00	56.05	HS8
ATOM	16311	CD	LYS	83	132.310	101.934	-70.183	1.00	52.07	OS15	ATOM	16364	CD1	LEU	2	138.646	120.334	-37.923	1.00	56.05	HS8
ATOM	16312	CE	LYS	83	132.440	102.957	-71.292	1.00	52.07	OS15	ATOM	16365	CD2	LEU	2	140.005	118.863	-36.437	1.00	56.05	HS8
ATOM	16313	NZ	LYS	83	131.533	104.106	-71.021	1.00	52.07	OS15	ATOM	16366	C	LEU	2	139.192	115.460	-37.725	1.00	60.32	HS8
ATOM	16314	C	LYS	83	135.042	98.406	-69.516	1.00	55.05	OS15	ATOM	16367	O	LEU	2	138.116	115.011	-38.091	1.00	60.32	HS8
ATOM	16315	O	LYS	83	135.726	97.823	-70.353	1.00	55.05	OS15	ATOM	16368	N	THR	3	139.882	114.949	-36.724	1.00	45.43	HS8
ATOM	16316	N	LEU	84	135.577	99.113	-68.525	1.00	66.38	OS15	ATOM	16369	CA	THR	3	139.455	113.786	-35.969	1.00	45.43	HS8
ATOM	16317	CB	LEU	84	137.026	99.240	-68.378	1.00	66.38	OS15	ATOM	16370	CB	THR	3	140.733	113.108	-35.410	1.00	50.52	HS8
ATOM	16318	CG	LEU	84	137.381	99.847	-67.024	1.00	64.88	OS15	ATOM	16371	CG1	THR	3	140.393	112.015	-34.566	1.00	50.52	HS8
ATOM	16319	CG	LEU	84	137.494	101.366	-66.933	1.00	64.88	OS15	ATOM	16372	CG2	THR	3	141.550	114.112	-34.634	1.00	45.43	HS8
ATOM	16320	CD1	LEU	84	137.962	101.730	-65.541	1.00	64.88	OS15	ATOM	16373	C	THR	3	138.413	114.080	-34.862	1.00	45.43	HS8
ATOM	16321	CD2	LEU	84	138.480	101.890	-67.965	1.00	64.88	OS15	ATOM	16374	O	THR	3	137.428	113.353	-34.724	1.00	45.43	HS8
ATOM	16322	C	LEU	84	137.750	97.910	-68.494	1.00	66.38	OS15	ATOM	16375	N	ASP	4	138.626	115.140	-34.085	1.00	41.65	HS8
ATOM	16323	O	LEU	84	138.928	97.872	-68.840	1.00	66.38	OS15	ATOM	16376	CA	ASP	4	137.692	115.505	-33.026	1.00	41.65	HS8
ATOM	16324	N	GLY	85	137.046	96.824	-68.185	1.00	75.80	OS15	ATOM	16377	CB	ASP	4	138.260	115.156	-31.652	1.00	78.65	HS8
ATOM	16325	CA	GLY	85	137.645	95.503	-68.241	1.00	75.80	OS15	ATOM	16378	CG	ASP	4	137.230	115.321	-30.539	1.00	78.65	HS8
ATOM	16326	C	GLY	85	138.467	95.184	-67.001	1.00	75.80	OS15	ATOM	16379	OD1	ASP	4	136.445	116.291	-30.579	1.00	78.65	HS8
ATOM	16327	O	GLY	85	139.341	94.316	-67.045	1.00	75.80	OS15	ATOM	16380	OD2	ASP	4	137.205	114.484	-29.616	1.00	78.65	HS8
ATOM	16328	N	ILE	86	138.185	95.875	-65.896	1.00	82.38	OS15	ATOM	16381	C	ASP	4	137.392	117.003	-32.487	1.00	41.65	HS8
ATOM	16329	CA	ILE	86	138.908	95.682	-64.633	1.00	82.38	OS15	ATOM	16382	O	ASP	4	138.119	117.813	-32.487	1.00	41.65	HS8
ATOM	16330	CB	ILE	86	138.693	96.882	-63.674	1.00	81.39	OS15	ATOM	16383	N	PRO	5	136.306	117.395	-33.753	1.00	47.79	HS8
ATOM	16331	CG2	ILE	86	139.241	96.570	-62.291	1.00	81.39	OS15	ATOM	16384	CA	PRO	5	135.404	116.571	-34.570	1.00	47.79	HS8
ATOM	16332	CG1	ILE	86	139.392	98.120	-64.235	1.00	81.39	OS15	ATOM	16385	CD	PRO	5	135.936	118.805	-33.857	1.00	47.79	HS8
ATOM	16333	CD1	ILE	86	139.266	99.341	-63.353	1.00	81.39	OS15	ATOM	16386	CB	PRO	5	134.608	118.745	-34.589	1.00	47.92	HS8
ATOM	16334	C	ILE	86	138.537	94.400	-63.896	1.00	82.38	OS15	ATOM	16387	CG	PRO	5	134.811	117.599	-35.505	1.00	47.92	HS8
ATOM	16335	O	ILE	86	137.449	93.857	-64.081	1.00	82.38	OS15	ATOM	16388	C	PRO	5	135.838	119.523	-32.523	1.00	47.79	HS8
ATOM	16336	N	ARG	87	139.465	93.945	-63.056	1.00	164.86	OS15	ATOM	16389	O	PRO	5	136.270	120.665	-32.401	1.00	47.79	HS8
ATOM	16337	CA	ARG	87	139.336	92.727	-62.259	1.00	164.86	OS15	ATOM	16390	N	ILE	6	135.264	118.848	-31.531	1.00	30.86	HS8
ATOM	16338	CB	ARG	87	137.876	92.265	-62.179	1.00	137.40	OS15	ATOM	16391	CA	ILE	6	135.102	119.408	-30.192	1.00	30.86	HS8
ATOM	16339	CG	ARG	87	137.090	92.870	-61.028	1.00	137.40	OS15	ATOM	16392	CB	ILE	6	134.299	118.475	-29.260	1.00	24.18	HS8
ATOM	16340	CD	ARG	87	137.541	92.258	-59.715	1.00	137.40	OS15	ATOM	16393	CG2	ILE	6	134.314	119.028	-27.836	1.00	24.18	HS8
ATOM	16341	NE	ARG	87	136.702	92.646	-58.585	1.00	137.40	OS15	ATOM	16394	CG1	ILE	6	132.866	118.339	-29.760	1.00	24.18	HS8
ATOM	16342	C2	ARG	87	136.724	92.038	-57.400	1.00	137.40	OS15	ATOM	16395	CD1	ILE	6	132.196	119.665	-29.982	1.00	24.18	HS8

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ATOM	16396	C	ILE	6	136.430	119.643	-29.521	1.00	30.86	HS8	ATOM	16449	CG1	ILE	13	138.068	128.064	-27.536	1.00	23.36	HS8
ATOM	16397	O	MILE	6	136.653	120.688	-28.916	1.00	30.86	HS8	ATOM	16450	CD1	ILE	13	136.744	127.560	-27.013	1.00	23.36	HS8
ATOM	16398	N	ALA	7	137.305	118.653	-29.591	1.00	39.26	HS8	ATOM	16451	C	ILE	13	141.713	128.232	-26.246	1.00	27.33	HS8
ATOM	16399	CA	ALA	7	138.605	118.800	-28.972	1.00	39.26	HS8	ATOM	16452	O	ILE	13	142.185	129.285	-25.799	1.00	27.33	HS8
ATOM	16400	CB	ALA	7	139.371	117.505	-29.040	1.00	14.50	HS8	ATOM	16453	N	ARG	14	142.156	127.039	-25.861	1.00	36.08	HS8
ATOM	16401	C	ALA	7	139.345	119.888	-29.719	1.00	39.26	HS8	ATOM	16454	CA	ARG	14	143.249	126.956	-24.906	1.00	36.08	HS8
ATOM	16402	O	ALA	7	140.052	120.693	-29.125	1.00	39.26	HS8	ATOM	16455	CB	ARG	14	143.613	125.500	-24.624	1.00	32.21	HS8
ATOM	16403	N	ASP	8	139.169	119.933	-31.029	1.00	51.34	HS8	ATOM	16456	CG	ARG	14	144.634	125.329	-23.521	1.00	32.21	HS8
ATOM	16404	CA	ASP	8	139.849	120.959	-31.790	1.00	51.34	HS8	ATOM	16457	CD	ARG	14	145.054	123.866	-23.321	1.00	32.21	HS8
ATOM	16405	CB	ASP	8	139.491	120.876	-33.264	1.00	51.02	HS8	ATOM	16458	NE	ARG	14	143.943	122.916	-23.336	1.00	32.21	HS8
ATOM	16406	CG	ASP	8	140.348	121.788	-34.099	1.00	51.02	HS8	ATOM	16459	CZ	ARG	14	143.579	122.212	-24.409	1.00	32.21	HS8
ATOM	16407	OD1	ASP	8	141.572	121.531	-34.193	1.00	51.02	HS8	ATOM	16460	NH1	ARG	14	144.247	122.352	-25.549	1.00	32.21	HS8
ATOM	16408	OD2	ASP	8	139.805	122.767	-34.644	1.00	51.02	HS8	ATOM	16461	NH2	ARG	14	142.542	121.375	-24.355	1.00	32.21	HS8
ATOM	16409	C	ASP	8	139.485	122.341	-31.274	1.00	51.34	HS8	ATOM	16462	C	ARG	14	144.447	127.668	-25.519	1.00	36.08	HS8
ATOM	16410	O	ASP	8	140.344	123.210	-31.147	1.00	51.34	HS8	ATOM	16463	O	ARG	14	145.104	128.454	-24.861	1.00	36.08	HS8
ATOM	16411	N	MET	9	138.209	122.536	-30.968	1.00	45.41	HS8	ATOM	16464	N	ASN	15	144.712	127.405	-26.796	1.00	40.45	HS8
ATOM	16412	CA	MET	9	137.738	123.820	-30.486	1.00	45.41	HS8	ATOM	16465	CA	ASN	15	145.850	128.011	-27.476	1.00	41.09	HS8
ATOM	16413	CB	MET	9	136.213	123.857	-30.487	1.00	45.60	HS8	ATOM	16466	CB	ASN	15	146.066	127.384	-28.865	1.00	41.09	HS8
ATOM	16414	CG	MET	9	135.640	125.134	-29.899	1.00	45.60	HS8	ATOM	16467	CG	ASN	15	146.543	125.933	-28.808	1.00	41.09	HS8
ATOM	16415	SD	MET	9	133.840	125.159	-29.881	1.00	45.60	HS8	ATOM	16468	OD1	ASN	15	147.169	125.504	-27.839	1.00	41.09	HS8
ATOM	16416	CE	MET	9	133.495	124.132	-28.449	1.00	45.60	HS8	ATOM	16469	ND2	ASN	15	146.265	125.182	-29.869	1.00	41.09	HS8
ATOM	16417	C	MET	9	138.255	124.192	-29.103	1.00	45.41	HS8	ATOM	16470	C	ASN	15	145.760	129.524	-27.636	1.00	40.45	HS8
ATOM	16418	O	MET	9	138.623	125.339	-28.864	1.00	45.41	HS8	ATOM	16471	O	ASN	15	146.736	130.230	-27.380	1.00	40.45	HS8
ATOM	16419	N	LEU	10	138.290	123.237	-28.187	1.00	38.31	HS8	ATOM	16472	N	ALA	16	144.606	130.027	-28.070	1.00	31.06	HS8
ATOM	16420	CA	LEU	10	138.753	123.542	-26.842	1.00	38.31	HS8	ATOM	16473	CA	ALA	16	144.435	131.470	-28.964	1.00	31.06	HS8
ATOM	16421	CB	LEU	10	138.534	122.328	-25.927	1.00	30.96	HS8	ATOM	16474	CB	ALA	16	144.088	131.767	-28.901	1.00	25.58	HS8
ATOM	16422	CG	LEU	10	137.152	121.662	-26.024	1.00	30.96	HS8	ATOM	16475	C	ALA	16	144.556	132.234	-26.957	1.00	31.06	HS8
ATOM	16423	CD1	LEU	10	137.047	120.533	-25.012	1.00	30.96	HS8	ATOM	16476	O	ALA	16	145.166	133.289	-26.904	1.00	31.06	HS8
ATOM	16424	CD2	LEU	10	136.061	122.702	-25.783	1.00	30.96	HS8	ATOM	16477	N	THR	17	143.975	131.708	-25.897	1.00	32.05	HS8
ATOM	16425	C	LEU	10	140.233	123.920	-26.901	1.00	38.31	HS8	ATOM	16478	CA	THR	17	144.058	132.402	-24.635	1.00	32.05	HS8
ATOM	16426	O	LEU	10	140.728	124.763	-26.140	1.00	38.31	HS8	ATOM	16479	CB	THR	17	143.139	131.760	-23.597	1.00	26.50	HS8
ATOM	16427	N	THR	11	140.934	123.298	-27.836	1.00	41.81	HS8	ATOM	16480	OG1	THR	17	143.556	130.413	-23.340	1.00	26.50	HS8
ATOM	16428	CA	THR	11	142.350	123.552	-27.991	1.00	41.81	HS8	ATOM	16481	CG2	THR	17	141.716	131.755	-24.113	1.00	26.50	HS8
ATOM	16429	CB	THR	11	143.009	122.431	-28.801	1.00	47.09	HS8	ATOM	16482	C	THR	17	145.474	132.462	-24.077	1.00	32.05	HS8
ATOM	16430	OG1	THR	11	142.869	121.196	-28.087	1.00	47.09	HS8	ATOM	16483	O	THR	17	145.856	133.462	-23.477	1.00	32.05	HS8
ATOM	16431	CG2	THR	11	144.480	122.720	-29.004	1.00	47.09	HS8	ATOM	16484	N	ARG	18	146.262	131.410	-24.266	1.00	42.20	HS8
ATOM	16432	C	THR	11	142.585	124.900	-28.649	1.00	41.81	HS8	ATOM	16485	CA	ARG	18	147.614	131.415	-23.727	1.00	42.20	HS8
ATOM	16433	O	THR	11	143.443	125.660	-28.210	1.00	41.81	HS8	ATOM	16486	CB	ARG	18	148.279	130.056	-23.923	1.00	70.80	HS8
ATOM	16434	N	ARG	12	141.828	125.201	-29.699	1.00	41.65	HS8	ATOM	16487	CG	ARG	18	148.047	129.128	-22.754	1.00	70.80	HS8
ATOM	16435	CA	ARG	12	141.981	126.484	-30.357	1.00	41.65	HS8	ATOM	16488	CD	ARG	18	146.577	129.081	-22.419	1.00	70.80	HS8
ATOM	16436	CB	ARG	12	140.870	126.718	-31.374	1.00	41.81	HS8	ATOM	16489	NE	ARG	18	146.311	128.525	-21.097	1.00	70.80	HS8
ATOM	16437	CG	ARG	12	140.859	125.753	-32.536	1.00	31.81	HS8	ATOM	16490	CZ	ARG	18	145.162	128.681	-20.440	1.00	70.80	HS8
ATOM	16438	CD	ARG	12	140.229	126.394	-33.767	1.00	31.81	HS8	ATOM	16491	NH1	ARG	18	144.163	129.376	-20.979	1.00	70.80	HS8
ATOM	16439	NE	ARG	12	140.428	125.586	-34.968	1.00	31.81	HS8	ATOM	16492	NH2	ARG	18	145.015	128.158	-19.230	1.00	70.80	HS8
ATOM	16440	CZ	ARG	12	140.316	126.051	-36.210	1.00	31.81	HS8	ATOM	16493	C	ARG	18	148.473	132.529	-24.296	1.00	42.20	HS8
ATOM	16441	NH1	ARG	12	140.005	127.320	-36.420	1.00	31.81	HS8	ATOM	16494	O	VAL	19	149.486	133.898	-24.706	1.00	42.20	HS8
ATOM	16442	NH2	ARG	12	140.527	125.255	-37.246	1.00	31.81	HS8	ATOM	16495	N	VAL	19	148.082	133.072	-25.442	1.00	39.34	HS8
ATOM	16443	C	ARG	12	141.881	127.525	-29.260	1.00	41.65	HS8	ATOM	16496	CA	VAL	19	148.833	134.184	-26.013	1.00	39.34	HS8
ATOM	16444	O	ARG	12	142.711	128.432	-29.186	1.00	41.65	HS8	ATOM	16497	CB	VAL	19	149.149	133.987	-27.480	1.00	34.17	HS8
ATOM	16445	N	ILE	13	140.865	127.360	-28.403	1.00	27.33	HS8	ATOM	16498	CG1	VAL	19	150.428	133.198	-27.632	1.00	34.17	HS8
ATOM	16446	CA	ILE	13	140.576	128.251	-27.271	1.00	27.33	HS8	ATOM	16499	CG2	VAL	19	148.004	133.279	-28.169	1.00	34.17	HS8
ATOM	16447	CB	ILE	13	139.232	127.840	-26.575	1.00	23.36	HS8	ATOM	16500	C	VAL	19	148.025	135.458	-25.838	1.00	39.34	HS8
ATOM	16448	CG2	ILE	13	138.991	128.644	-25.292	1.00	23.36	HS8	ATOM	16501	O	VAL	19	148.494	136.545	-26.119	1.00	39.34	HS8

ATOM	16502	N	TYR	20	146.796	135.304	-25.372	1.00	28.52	HS8	ATOM	16555	CB	VAL	26	136.365	127.271	-33.581	1.00	25.81	HS8
ATOM	16503	CA	TYR	20	145.932	136.430	-25.096	1.00	28.52	HS8	ATOM	16556	CG1	VAL	26	136.328	128.355	-32.532	1.00	25.81	HS8
ATOM	16504	CB	TYR	20	146.701	137.487	-24.308	1.00	28.95	HS8	ATOM	16557	CG2	VAL	26	135.091	126.438	-33.551	1.00	25.81	HS8
ATOM	16505	CG	TYR	20	147.104	136.990	-22.950	1.00	28.95	HS8	ATOM	16558	C	VAL	26	135.435	127.503	-35.909	1.00	53.54	HS8
ATOM	16506	CD1	TYR	20	146.240	137.089	-21.872	1.00	28.95	HS8	ATOM	16559	O	VAL	26	134.339	128.042	-35.790	1.00	53.54	HS8
ATOM	16507	CE1	TYR	20	146.584	136.593	-20.624	1.00	28.95	HS8	ATOM	16560	N	PRO	27	135.679	126.573	-36.842	1.00	45.22	HS8
ATOM	16508	CD2	TYR	20	148.329	136.377	-22.753	1.00	28.95	HS8	ATOM	16561	CD	PRO	27	136.937	125.831	-37.022	1.00	38.43	HS8
ATOM	16509	CE2	TYR	20	148.687	135.878	-21.513	1.00	28.95	HS8	ATOM	16562	CA	PRO	27	134.669	126.093	-37.778	1.00	45.22	HS8
ATOM	16510	CZ	TYR	20	147.812	135.992	-20.447	1.00	28.95	HS8	ATOM	16563	CB	PRO	27	135.311	124.846	-38.348	1.00	38.43	HS8
ATOM	16511	OH	TYR	20	148.185	135.543	-19.194	1.00	28.95	HS8	ATOM	16564	CG	PRO	27	136.739	125.204	-38.372	1.00	38.43	HS8
ATOM	16512	O	TYR	20	145.276	137.058	-26.285	1.00	28.52	HS8	ATOM	16565	C	PRO	27	133.393	125.785	-37.012	1.00	45.22	HS8
ATOM	16513	TYR	20	145.165	138.275	-26.354	1.00	28.52	HS8	ATOM	16566	O	PRO	27	133.419	125.058	-36.012	1.00	45.22	HS8	
ATOM	16514	N	LYS	21	144.833	136.232	-27.224	1.00	29.93	HS8	ATOM	16567	N	ALA	28	132.282	126.335	-37.499	1.00	56.12	HS8
ATOM	16515	CA	LYS	21	144.131	136.751	-28.387	1.00	29.93	HS8	ATOM	16568	CA	ALA	28	130.978	126.178	-36.869	1.00	56.12	HS8
ATOM	16516	CB	LYS	21	143.842	135.625	-29.384	1.00	66.96	HS8	ATOM	16569	CB	ALA	28	130.061	127.295	-37.328	1.00	129.32	HS8
ATOM	16517	CG	LYS	21	145.069	134.896	-29.876	1.00	66.96	HS8	ATOM	16570	C	ALA	28	130.285	124.839	-37.065	1.00	56.12	HS8
ATOM	16518	CD	LYS	21	146.186	135.878	-30.210	1.00	66.96	HS8	ATOM	16571	O	ALA	28	130.314	124.244	-38.146	1.00	56.12	HS8
ATOM	16519	CE	LYS	21	146.938	135.474	-31.467	1.00	66.96	HS8	ATOM	16572	N	SER	29	129.654	124.390	-35.986	1.00	43.41	HS8
ATOM	16520	NZ	LYS	21	146.047	135.552	-32.665	1.00	66.96	HS8	ATOM	16573	CA	SER	29	128.905	123.143	-35.945	1.00	43.41	HS8
ATOM	16521	C	LYS	21	142.808	137.368	-27.907	1.00	29.93	HS8	ATOM	16574	CB	SER	29	129.782	121.984	-35.461	1.00	50.79	HS8
ATOM	16522	O	LYS	21	142.237	136.948	-26.907	1.00	29.93	HS8	ATOM	16575	OG	SER	29	129.964	122.020	-34.053	1.00	50.79	HS8
ATOM	16523	N	GLU	22	142.323	138.380	-28.600	1.00	42.70	HS8	ATOM	16576	C	SER	29	127.831	123.397	-34.908	1.00	43.41	HS8
ATOM	16524	CA	GLU	22	141.059	138.962	-28.208	1.00	42.70	HS8	ATOM	16577	O	SER	29	128.122	124.011	-33.868	1.00	43.41	HS8
ATOM	16525	CB	GLU	22	140.913	140.339	-28.847	1.00	101.13	HS8	ATOM	16578	N	ARG	30	126.603	122.943	-35.178	1.00	41.62	HS8
ATOM	16526	CG	GLU	22	140.279	141.360	-27.938	1.00	101.13	HS8	ATOM	16579	CA	ARG	30	125.499	123.128	-34.225	1.00	41.62	HS8
ATOM	16527	CD	GLU	22	140.018	142.669	-28.645	1.00	101.13	HS8	ATOM	16580	CB	ARG	30	124.338	122.175	-34.529	1.00	99.52	HS8
ATOM	16528	OE1	GLU	22	139.350	142.640	-29.703	1.00	101.13	HS8	ATOM	16581	CG	ARG	30	123.368	122.620	-35.610	1.00	99.52	HS8
ATOM	16529	OE2	GLU	22	140.477	143.721	-28.144	1.00	101.13	HS8	ATOM	16582	CD	ARG	30	122.448	123.738	-35.144	1.00	99.52	HS8
ATOM	16530	C	GLU	22	139.969	137.992	-28.715	1.00	42.70	HS8	ATOM	16583	NE	ARG	30	121.446	124.045	-36.163	1.00	99.52	HS8
ATOM	16531	O	GLU	22	139.170	137.458	-27.944	1.00	42.70	HS8	ATOM	16584	CZ	ARG	30	120.707	125.152	-36.188	1.00	99.52	HS8
ATOM	16532	N	SER	23	139.969	137.751	-30.020	1.00	47.40	HS8	ATOM	16585	NH1	ARG	30	120.852	126.073	-35.242	1.00	99.52	HS8
ATOM	16533	CA	SER	23	139.018	136.856	-30.661	1.00	47.40	HS8	ATOM	16586	NH2	ARG	30	119.829	125.343	-37.168	1.00	99.52	HS8
ATOM	16534	CB	SER	23	138.574	137.483	-31.986	1.00	54.00	HS8	ATOM	16587	C	ARG	30	126.019	122.820	-32.830	1.00	41.62	HS8
ATOM	16535	OG	SER	23	137.704	136.640	-32.718	1.00	54.00	HS8	ATOM	16588	O	ARG	30	126.003	123.676	-31.944	1.00	41.62	HS8
ATOM	16536	C	SER	23	139.716	135.513	-30.908	1.00	47.40	HS8	ATOM	16589	N	PHE	31	126.505	121.588	-32.668	1.00	35.44	HS8
ATOM	16537	O	SER	23	140.737	135.230	-30.291	1.00	47.40	HS8	ATOM	16590	CA	PHE	31	127.036	121.104	-31.399	1.00	35.44	HS8
ATOM	16538	N	THR	24	139.148	134.697	-31.800	1.00	47.54	HS8	ATOM	16591	CB	PHE	31	127.667	119.727	-31.594	1.00	38.72	HS8
ATOM	16539	CA	THR	24	139.667	133.377	-32.204	1.00	47.54	HS8	ATOM	16592	CG	PHE	31	128.043	119.046	-30.308	1.00	38.72	HS8
ATOM	16540	CB	THR	24	140.201	132.548	-31.019	1.00	35.66	HS8	ATOM	16593	CD1	PHE	31	127.112	118.866	-29.302	1.00	38.72	HS8
ATOM	16541	OG1	THR	24	140.309	131.171	-31.402	1.00	35.66	HS8	ATOM	16594	CD2	PHE	31	129.312	118.537	-30.123	1.00	38.72	HS8
ATOM	16542	CG2	THR	24	139.271	132.644	-29.855	1.00	35.66	HS8	ATOM	16595	CE1	PHE	31	127.445	118.180	-28.135	1.00	38.72	HS8
ATOM	16543	C	THR	24	138.536	132.600	-32.870	1.00	47.54	HS8	ATOM	16596	CE2	PHE	31	129.644	117.855	-28.960	1.00	38.72	HS8
ATOM	16544	O	THR	24	137.511	132.340	-32.251	1.00	47.54	HS8	ATOM	16597	CZ	PHE	31	128.708	117.677	-27.971	1.00	38.72	HS8
ATOM	16545	N	ASP	25	138.736	132.238	-34.135	1.00	39.30	HS8	ATOM	16598	C	PHE	31	128.052	122.027	-30.726	1.00	35.44	HS8
ATOM	16546	CA	ASP	25	137.735	131.526	-34.922	1.00	39.30	HS8	ATOM	16599	O	PHE	31	127.960	122.278	-29.520	1.00	35.44	HS8
ATOM	16547	CB	ASP	25	137.857	131.935	-36.385	1.00	61.76	HS8	ATOM	16600	N	LYS	32	129.025	122.516	-31.500	1.00	36.26	HS8
ATOM	16548	CG	ASP	25	137.675	133.424	-36.588	1.00	61.76	HS8	ATOM	16601	CA	LYS	32	130.059	123.394	-30.963	1.00	36.26	HS8
ATOM	16549	OD1	ASP	25	137.824	134.179	-35.599	1.00	61.76	HS8	ATOM	16602	CB	LYS	32	131.104	123.696	-32.039	1.00	40.28	HS8
ATOM	16550	OD2	ASP	25	137.396	133.841	-37.738	1.00	61.76	HS8	ATOM	16603	CG	LYS	32	132.383	122.896	-31.887	1.00	40.28	HS8
ATOM	16551	C	ASP	25	137.827	130.015	-34.837	1.00	39.30	HS8	ATOM	16604	CD	LYS	32	133.390	123.180	-33.002	1.00	40.28	HS8
ATOM	16552	O	ASP	25	138.900	129.465	-34.614	1.00	39.30	HS8	ATOM	16605	CE	LYS	32	133.069	122.413	-34.287	1.00	40.28	HS8
ATOM	16553	N	VAL	26	136.683	129.355	-35.006	1.00	53.54	HS8	ATOM	16606	NZ	LYS	32	134.061	122.633	-35.390	1.00	40.28	HS8
ATOM	16554	CA	VAL	26	136.594	127.893	-35.008	1.00	53.54	HS8	ATOM	16607	C	LYS	32	129.455	124.685	-30.432	1.00	36.26	HS8

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ATOM	16608	O	LYS	32	129.888	125.217	-29.401	1.00	36.26	HS8	ATOM	16661	O	ILE	38	128.665	128.823	-20.398	1.00	37.33	HS8
ATOM	16609	N	GLU	33	128.449	125.180	-31.149	1.00	44.58	HS8	ATOM	16662	N	LEU	39	129.692	128.038	-22.248	1.00	43.71	HS8
ATOM	16610	CA	GLU	33	127.750	126.396	-30.764	1.00	44.58	HS8	ATOM	16663	CA	LEU	39	130.924	128.753	-21.963	1.00	43.71	HS8
ATOM	16611	CB	GLU	33	126.751	126.783	-31.848	1.00	60.52	HS8	ATOM	16664	CB	LEU	39	131.897	128.672	-23.143	1.00	48.59	HS8
ATOM	16612	CG	GLU	33	126.007	128.059	-31.562	1.00	60.52	HS8	ATOM	16665	CG	LEU	39	132.851	127.479	-23.155	1.00	48.59	HS8
ATOM	16613	CD	GLU	33	125.278	128.600	-32.776	1.00	60.52	HS8	ATOM	16666	CD	LEU	39	133.339	127.193	-21.737	1.00	48.59	HS8
ATOM	16614	OE1	GLU	33	124.608	127.807	-33.483	1.00	60.52	HS8	ATOM	16667	CD2	LEU	39	132.124	126.285	-23.720	1.00	48.59	HS8
ATOM	16615	OE2	GLU	33	125.369	129.826	-33.009	1.00	60.52	HS8	ATOM	16668	C	LEU	39	130.654	130.207	-21.626	1.00	43.71	HS8
ATOM	16616	C	GLU	33	127.034	126.121	-29.448	1.00	44.58	HS8	ATOM	16669	O	LEU	39	131.234	130.762	-20.686	1.00	43.71	HS8
ATOM	16617	O	GLU	33	126.962	126.981	-28.570	1.00	44.58	HS8	ATOM	16670	N	ALA	40	129.770	130.826	-22.397	1.00	52.75	HS8
ATOM	16618	CA	GLU	34	126.517	124.906	-29.306	1.00	34.34	HS8	ATOM	16671	CA	ALA	40	129.442	132.218	-22.160	1.00	52.75	HS8
ATOM	16619	CB	GLU	34	125.834	124.519	-28.081	1.00	34.34	HS8	ATOM	16672	CB	ALA	40	128.638	132.753	-23.316	1.00	26.49	HS8
ATOM	16620	CG	GLU	34	125.289	123.038	-28.195	1.00	85.32	HS8	ATOM	16673	C	ALA	40	128.660	132.351	-20.855	1.00	52.75	HS8
ATOM	16621	CD	GLU	34	123.953	123.042	-28.882	1.00	85.32	HS8	ATOM	16674	O	ALA	40	129.100	133.024	-19.921	1.00	52.75	HS8
ATOM	16622	OE1	GLU	34	122.917	123.873	-28.159	1.00	85.32	HS8	ATOM	16675	N	ARG	41	127.505	131.693	-20.795	1.00	27.04	HS8
ATOM	16623	OE2	GLU	34	121.878	124.176	-28.775	1.00	85.32	HS8	ATOM	16676	CA	ARG	41	126.655	131.728	-19.615	1.00	27.04	HS8
ATOM	16624	C	GLU	34	123.137	124.218	-26.976	1.00	85.32	HS8	ATOM	16677	CB	ARG	41	125.607	130.628	-19.703	1.00	56.66	HS8
ATOM	16625	O	GLU	34	126.758	124.614	-26.882	1.00	34.34	HS8	ATOM	16678	CG	ARG	41	124.459	130.791	-18.743	1.00	56.66	HS8
ATOM	16626	N	ILE	35	126.365	125.098	-25.834	1.00	34.34	HS8	ATOM	16679	CD	ARG	41	123.611	129.557	-18.785	1.00	56.66	HS8
ATOM	16627	N	ILE	35	127.990	124.154	-27.042	1.00	43.18	HS8	ATOM	16680	NE	ARG	41	123.236	129.223	-20.156	1.00	56.66	HS8
ATOM	16628	CB	ILE	35	128.964	124.187	-25.962	1.00	43.18	HS8	ATOM	16681	CZ	ARG	41	123.159	127.977	-20.625	1.00	56.66	HS8
ATOM	16629	CA	ILE	35	130.204	123.345	-26.368	1.00	35.58	HS8	ATOM	16682	NH1	ARG	41	123.440	126.947	-19.830	1.00	56.66	HS8
ATOM	16630	CG2	ILE	35	131.261	123.365	-25.270	1.00	35.58	HS8	ATOM	16683	NH2	ARG	41	122.794	127.753	-21.887	1.00	56.66	HS8
ATOM	16631	CG1	ILE	35	129.738	121.907	-26.629	1.00	35.58	HS8	ATOM	16684	C	ARG	41	127.474	131.561	-18.342	1.00	27.04	HS8
ATOM	16632	CD1	ILE	35	130.773	120.980	-27.142	1.00	35.58	HS8	ATOM	16685	O	ARG	41	127.323	132.319	-17.401	1.00	27.04	HS8
ATOM	16633	O	ILE	35	129.335	125.637	-25.619	1.00	43.18	HS8	ATOM	16686	N	GLU	42	128.358	130.573	-18.312	1.00	37.35	HS8
ATOM	16634	N	LEU	36	129.553	126.436	-26.654	1.00	45.51	HS8	ATOM	16687	CA	GLU	42	129.762	128.952	-17.154	1.00	87.47	HS8
ATOM	16635	CB	LEU	36	129.889	127.829	-26.453	1.00	45.51	HS8	ATOM	16688	CB	GLU	42	128.733	127.864	-16.901	1.00	87.47	HS8
ATOM	16636	CG	LEU	36	130.081	128.502	-27.807	1.00	30.17	HS8	ATOM	16689	CG	GLU	42	127.962	128.086	-15.608	1.00	87.47	HS8
ATOM	16637	CD	LEU	36	131.288	128.063	-28.641	1.00	30.17	HS8	ATOM	16690	CD	GLU	42	128.608	128.372	-14.572	1.00	87.47	HS8
ATOM	16638	CG	LEU	36	131.196	128.709	-30.014	1.00	30.17	HS8	ATOM	16691	OE1	GLU	42	126.716	127.967	-15.628	1.00	87.47	HS8
ATOM	16639	CD1	LEU	36	132.599	128.461	-27.950	1.00	30.17	HS8	ATOM	16692	OE2	GLU	42	130.246	131.404	-16.923	1.00	37.35	HS8
ATOM	16640	CD2	LEU	36	128.795	128.542	-25.643	1.00	45.51	HS8	ATOM	16693	C	GLU	42	131.028	131.331	-15.969	1.00	37.35	HS8
ATOM	16641	C	LEU	36	129.109	129.394	-24.795	1.00	45.51	HS8	ATOM	16694	O	GLU	42	130.293	132.372	-17.830	1.00	50.55	HS8
ATOM	16642	O	LEU	36	127.524	128.197	-25.904	1.00	43.10	HS8	ATOM	16695	N	GLY	43	131.258	133.450	-17.720	1.00	50.55	HS8
ATOM	16643	N	ARG	37	126.397	128.793	-25.183	1.00	43.10	HS8	ATOM	16696	CA	GLY	43	132.692	133.208	-18.154	1.00	50.55	HS8
ATOM	16644	CA	ARG	37	125.065	128.074	-25.497	1.00	73.87	HS8	ATOM	16697	C	GLY	43	133.550	134.041	-17.869	1.00	50.55	HS8
ATOM	16645	CB	ARG	37	124.054	128.866	-26.365	1.00	73.87	HS8	ATOM	16698	O	GLY	43	132.962	132.099	-18.843	1.00	48.36	HS8
ATOM	16646	CG	ARG	37	122.567	128.403	-26.193	1.00	73.87	HS8	ATOM	16699	N	PHE	44	134.319	131.781	-19.297	1.00	48.36	HS8
ATOM	16647	CD	ARG	37	121.691	128.927	-27.262	1.00	73.87	HS8	ATOM	16700	CA	PHE	44	134.445	130.280	-19.573	1.00	31.97	HS8
ATOM	16648	NE	ARG	37	120.362	128.758	-27.347	1.00	73.87	HS8	ATOM	16701	CB	PHE	44	134.467	129.445	-18.336	1.00	31.97	HS8
ATOM	16649	CZ	ARG	37	119.713	128.076	-26.415	1.00	73.87	HS8	ATOM	16702	CD1	PHE	44	135.494	129.590	-17.405	1.00	31.97	HS8
ATOM	16650	NH1	ARG	37	119.679	129.246	-28.388	1.00	73.87	HS8	ATOM	16703	CD2	PHE	44	133.453	128.526	-18.082	1.00	31.97	HS8
ATOM	16651	NH2	ARG	37	126.688	128.633	-23.683	1.00	43.10	HS8	ATOM	16704	CD2	PHE	44	135.516	128.831	-16.228	1.00	31.97	HS8
ATOM	16652	C	ARG	37	126.528	129.673	-22.958	1.00	43.10	HS8	ATOM	16705	CE1	PHE	44	133.458	127.760	-16.908	1.00	31.97	HS8
ATOM	16653	O	ARG	37	127.127	127.519	-23.220	1.00	37.33	HS8	ATOM	16706	CE2	PHE	44	134.498	127.915	-15.977	1.00	31.97	HS8
ATOM	16654	N	ILE	38	127.432	127.339	-21.797	1.00	37.33	HS8	ATOM	16707	CZ	PHE	44	134.745	132.562	-20.533	1.00	48.36	HS8
ATOM	16655	CA	ILE	38	127.762	125.869	-21.405	1.00	42.41	HS8	ATOM	16708	C	PHE	44	135.930	133.781	-20.756	1.00	48.36	HS8
ATOM	16656	CB	ILE	38	128.270	125.808	-19.980	1.00	42.41	HS8	ATOM	16709	O	PHE	44	133.784	132.970	-21.346	1.00	52.88	HS8
ATOM	16657	CG2	ILE	38	126.530	124.992	-21.501	1.00	42.41	HS8	ATOM	16710	N	ILE	45	134.106	133.729	-22.538	1.00	52.88	HS8
ATOM	16658	CG1	ILE	38	126.059	124.749	-22.913	1.00	42.41	HS8	ATOM	16711	CA	ILE	45	133.961	132.888	-23.803	1.00	17.74	HS8
ATOM	16659	CD1	ILE	38	128.653	128.143	-21.424	1.00	37.33	HS8	ATOM	16712	CB	ILE	45	135.027	131.797	-23.831	1.00	17.74	HS8
ATOM	16660	C	ILE	38						HS8	ATOM	16713	CG2	ILE	45						HS8

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ATOM	16714	CG1	ILE	45	132.544	132.331	-23.875	1.00	17.74	HS8	ATOM	16767	CG2	VAL	51	131.977	136.370	-37.252	1.00	55.09	HS8
ATOM	16715	CD1	ILE	45	132.230	131.619	-25.179	1.00	17.74	HS8	ATOM	16768	C	VAL	51	131.193	133.894	-40.057	1.00	53.81	HS8
ATOM	16716	C α	ILE	45	133.160	134.903	-22.664	1.00	52.88	HS8	ATOM	16769	O	VAL	51	131.082	132.674	-39.998	1.00	53.81	HS8
ATOM	16717	O	ILE	45	131.973	134.764	-22.389	1.00	52.88	HS8	ATOM	16770	N	ASP	52	131.565	134.532	-41.160	1.00	58.88	HS8
ATOM	16718	N	LYS	46	133.680	136.056	-23.082	1.00	49.07	HS8	ATOM	16771	CA	ASP	52	131.909	133.798	-42.372	1.00	58.88	HS8
ATOM	16719	CA	LYS	46	132.840	137.231	-23.245	1.00	49.07	HS8	ATOM	16772	CB	ASP	52	130.936	134.139	-43.503	1.00	79.29	HS8
ATOM	16720	CG	LYS	46	133.588	139.341	-23.979	1.00	47.98	HS8	ATOM	16773	CG	ASP	52	129.818	133.116	-43.637	1.00	79.29	HS8
ATOM	16721	CB	LYS	46	134.684	139.009	-23.186	1.00	47.98	HS8	ATOM	16774	OD1	ASP	52	129.244	132.716	-42.601	1.00	79.29	HS8
ATOM	16722	CD	LYS	46	134.917	140.422	-23.709	1.00	47.98	HS8	ATOM	16775	OD2	ASP	52	129.508	132.714	-44.778	1.00	79.29	HS8
ATOM	16723	CE	LYS	46	136.161	141.062	-23.104	1.00	47.98	HS8	ATOM	16776	C	ASP	52	133.341	134.074	-42.810	1.00	58.88	HS8
ATOM	16724	NE	LYS	46	137.443	140.506	-23.680	1.00	47.98	HS8	ATOM	16777	O	ASP	52	133.674	135.185	-43.210	1.00	58.88	HS8
ATOM	16725	C	LYS	46	131.604	136.855	-24.045	1.00	49.07	HS8	ATOM	16778	N	VAL	53	134.185	133.049	-42.712	1.00	59.60	HS8
ATOM	16726	O	LYS	46	130.545	137.445	-23.875	1.00	49.07	HS8	ATOM	16779	CA	VAL	53	135.589	133.135	-43.104	1.00	59.60	HS8
ATOM	16727	N	GLY	47	131.745	135.856	-24.908	1.00	43.89	HS8	ATOM	16780	CB	VAL	53	136.503	132.498	-42.037	1.00	53.95	HS8
ATOM	16728	CA	GLY	47	130.636	135.427	-25.733	1.00	43.89	HS8	ATOM	16781	CG1	VAL	53	137.867	132.196	-42.623	1.00	53.95	HS8
ATOM	16729	C	GLY	47	131.212	135.017	-27.066	1.00	43.89	HS8	ATOM	16782	CG2	VAL	53	136.658	133.446	-40.866	1.00	53.95	HS8
ATOM	16730	O	GLY	47	132.423	134.954	-27.200	1.00	43.89	HS8	ATOM	16783	C	VAL	53	135.819	132.422	-44.438	1.00	59.60	HS8
ATOM	16731	N	TYR	48	130.369	134.762	-28.056	1.00	46.15	HS8	ATOM	16784	O	VAL	53	136.187	133.191	-45.457	1.00	55.78	HS8
ATOM	16732	CA	TYR	48	130.848	134.340	-29.361	1.00	46.15	HS8	ATOM	16785	N	ASP	54	136.187	133.191	-45.457	1.00	55.78	HS8
ATOM	16733	CB	TYR	48	130.946	132.835	-29.370	1.00	52.24	HS8	ATOM	16786	CA	ASP	54	136.445	132.621	-46.772	1.00	55.78	HS8
ATOM	16734	CG	TYR	48	129.591	132.194	-29.482	1.00	52.24	HS8	ATOM	16787	CB	ASP	54	137.521	131.533	-46.662	1.00	188.52	HS8
ATOM	16735	CD1	TYR	48	129.081	131.818	-30.724	1.00	52.24	HS8	ATOM	16788	CG	ASP	54	137.893	130.935	-48.004	1.00	188.52	HS8
ATOM	16736	CE1	TYR	48	127.804	131.273	-30.845	1.00	52.24	HS8	ATOM	16789	OD1	ASP	54	138.436	131.669	-48.858	1.00	188.52	HS8
ATOM	16737	CD2	TYR	48	128.793	132.012	-28.361	1.00	52.24	HS8	ATOM	16790	OD2	ASP	54	137.641	129.728	-48.206	1.00	188.52	HS8
ATOM	16738	CE2	TYR	48	127.514	131.472	-28.468	1.00	52.24	HS8	ATOM	16791	C	ASP	54	135.171	132.036	-47.373	1.00	55.78	HS8
ATOM	16739	CZ	TYR	48	127.025	131.104	-29.713	1.00	52.24	HS8	ATOM	16792	O	ASP	54	135.215	131.295	-48.350	1.00	55.78	HS8
ATOM	16740	OH	TYR	48	125.757	130.576	-29.834	1.00	52.24	HS8	ATOM	16793	N	GLY	55	134.030	132.365	-46.791	1.00	53.92	HS8
ATOM	16741	C	TYR	48	129.822	134.763	-30.397	1.00	46.15	HS8	ATOM	16794	CA	GLY	55	132.790	131.846	-47.328	1.00	53.92	HS8
ATOM	16742	O	TYR	48	128.748	135.214	-30.033	1.00	46.15	HS8	ATOM	16795	C	GLY	55	132.186	130.763	-46.464	1.00	53.92	HS8
ATOM	16743	N	GLU	49	130.127	134.597	-31.680	1.00	37.78	HS8	ATOM	16796	O	GLY	55	130.996	130.454	-46.576	1.00	55.40	HS8
ATOM	16744	CA	GLU	49	129.176	134.966	-32.728	1.00	37.78	HS8	ATOM	16797	N	LYS	56	132.999	130.183	-45.592	1.00	55.40	HS8
ATOM	16745	CB	GLU	49	129.103	136.480	-32.879	1.00	87.01	HS8	ATOM	16798	CA	LYS	56	132.497	129.140	-44.722	1.00	55.40	HS8
ATOM	16746	CG	GLU	49	130.402	137.108	-33.294	1.00	87.01	HS8	ATOM	16799	CB	LYS	56	133.481	127.978	-44.669	1.00	79.27	HS8
ATOM	16747	CD	GLU	49	130.235	138.562	-33.671	1.00	87.01	HS8	ATOM	16800	CG	LYS	56	133.566	127.199	-45.957	1.00	79.27	HS8
ATOM	16748	OE1	GLU	49	129.439	138.841	-34.595	1.00	87.01	HS8	ATOM	16801	CD	LYS	56	134.297	127.978	-47.015	1.00	79.27	HS8
ATOM	16749	OE2	GLU	49	130.894	139.426	-33.048	1.00	87.01	HS8	ATOM	16802	CE	LYS	56	134.426	127.160	-48.280	1.00	79.27	HS8
ATOM	16750	C	GLU	49	129.502	134.344	-34.079	1.00	37.78	HS8	ATOM	16803	NZ	LYS	56	135.260	127.868	-49.290	1.00	79.27	HS8
ATOM	16751	O	GLU	49	130.666	134.191	-34.441	1.00	37.78	HS8	ATOM	16804	C	LYS	56	132.200	129.640	-43.312	1.00	55.40	HS8
ATOM	16752	N	ARG	50	128.457	133.973	-34.814	1.00	55.30	HS8	ATOM	16805	O	LYS	56	132.832	130.570	-42.812	1.00	55.40	HS8
ATOM	16753	CA	ARG	50	128.610	133.366	-36.126	1.00	55.30	HS8	ATOM	16806	N	PRO	57	131.219	129.020	-42.655	1.00	43.98	HS8
ATOM	16754	CB	ARG	50	127.248	133.016	-36.702	1.00	63.55	HS8	ATOM	16807	CD	PRO	57	130.431	127.912	-43.214	1.00	20.09	HS8
ATOM	16755	CG	ARG	50	126.516	131.972	-35.912	1.00	63.55	HS8	ATOM	16808	CA	PRO	57	130.767	129.330	-41.300	1.00	43.98	HS8
ATOM	16756	CD	ARG	50	125.127	131.750	-36.455	1.00	63.55	HS8	ATOM	16809	CB	PRO	57	129.560	128.426	-41.140	1.00	20.09	HS8
ATOM	16757	NE	ARG	50	124.606	130.459	-36.025	1.00	63.55	HS8	ATOM	16810	CG	PRO	57	129.937	127.246	-41.977	1.00	20.09	HS8
ATOM	16758	CZ	ARG	50	123.451	129.939	-36.429	1.00	63.55	HS8	ATOM	16811	C	PRO	57	131.789	129.078	-40.210	1.00	43.98	HS8
ATOM	16759	NH1	ARG	50	122.679	130.605	-37.281	1.00	63.55	HS8	ATOM	16812	O	PRO	57	132.407	128.023	-40.169	1.00	43.98	HS8
ATOM	16760	NH2	ARG	50	123.076	128.739	-35.995	1.00	63.55	HS8	ATOM	16813	N	TYR	58	131.953	130.055	-39.328	1.00	40.31	HS8
ATOM	16761	C	ARG	50	129.303	134.375	-37.014	1.00	55.30	HS8	ATOM	16814	CA	TYR	58	132.873	129.952	-38.206	1.00	40.31	HS8
ATOM	16762	O	ARG	50	129.094	135.577	-36.870	1.00	55.30	HS8	ATOM	16815	CB	TYR	58	134.180	130.690	-38.475	1.00	46.32	HS8
ATOM	16763	N	VAL	51	130.121	133.883	-37.937	1.00	53.81	HS8	ATOM	16816	CG	TYR	58	135.112	129.907	-39.344	1.00	46.32	HS8
ATOM	16764	CA	VAL	51	130.885	134.737	-38.840	1.00	53.81	HS8	ATOM	16817	CD1	TYR	58	134.745	129.572	-40.639	1.00	46.32	HS8
ATOM	16765	CB	VAL	51	132.220	135.183	-38.164	1.00	55.09	HS8	ATOM	16818	CE1	TYR	58	135.538	128.782	-41.423	1.00	46.32	HS8
ATOM	16766	CG1	VAL	51	133.248	135.553	-39.195	1.00	55.09	HS8	ATOM	16819	CD2	TYR	58	136.324	129.431	-38.854	1.00	46.32	HS8

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ATOM	16820	CE2	TYR	58	137.134	128.634	-39.639	1.00	46.32	HS8	ATOM	16873	CB	LYS	64	136.830	136.679	-20.840	1.00	45.88	HS8
ATOM	16821	CZ	TYR	58	136.127	128.309	-40.929	1.00	46.32	HS8	ATOM	16874	CG	LYS	64	136.489	137.305	-19.521	1.00	45.88	HS8
ATOM	16822	OH	TYR	58	137.477	127.488	-41.739	1.00	46.32	HS8	ATOM	16875	CD	LYS	64	135.034	136.957	-19.279	1.00	45.88	HS8
ATOM	16823	C	TYR	58	132.219	130.580	-37.013	1.00	40.31	HS8	ATOM	16876	CE	LYS	64	134.500	137.497	-17.982	1.00	45.88	HS8
ATOM	16824	N	LEU	58	131.209	131.265	-37.146	1.00	40.31	HS8	ATOM	16877	NZ	LYS	64	133.081	137.066	-17.839	1.00	45.88	HS8
ATOM	16825	N	LEU	59	132.793	130.345	-35.843	1.00	34.36	HS8	ATOM	16878	C	LYS	64	139.331	136.642	-20.509	1.00	42.66	HS8
ATOM	16826	CA	LEU	59	132.259	130.930	-34.637	1.00	34.36	HS8	ATOM	16879	O	LYS	64	139.649	135.483	-20.276	1.00	42.66	HS8
ATOM	16827	CG	LEU	59	131.775	129.840	-33.678	1.00	43.82	HS8	ATOM	16880	N	TYR	65	139.938	137.674	-19.943	1.00	32.29	HS8
ATOM	16828	CB	LEU	59	130.671	128.898	-33.181	1.00	43.82	HS8	ATOM	16881	CA	TYR	65	141.061	137.480	-19.041	1.00	32.29	HS8
ATOM	16829	CD	LEU	59	130.375	127.809	-33.141	1.00	43.82	HS8	ATOM	16882	CB	TYR	65	142.370	137.882	-19.728	1.00	36.19	HS8
ATOM	16830	CE	LEU	59	129.416	129.703	-34.482	1.00	43.82	HS8	ATOM	16883	CG	TYR	65	142.498	137.335	-21.122	1.00	36.19	HS8
ATOM	16831	C	LEU	59	133.366	131.750	-33.990	1.00	34.36	HS8	ATOM	16884	CDI	TYR	65	141.906	137.982	-22.205	1.00	36.19	HS8
ATOM	16832	O	LEU	59	134.386	131.204	-33.572	1.00	34.36	HS8	ATOM	16885	CE1	TYR	65	141.949	137.435	-23.484	1.00	36.19	HS8
ATOM	16833	N	ARG	60	133.186	133.068	-33.949	1.00	38.17	HS8	ATOM	16886	CD2	TYR	65	143.147	136.127	-21.355	1.00	36.19	HS8
ATOM	16834	CA	ARG	60	134.167	133.928	-33.310	1.00	38.17	HS8	ATOM	16887	CE2	TYR	65	143.194	135.571	-22.639	1.00	36.19	HS8
ATOM	16835	CB	ARG	60	133.876	135.395	-33.568	1.00	64.08	HS8	ATOM	16888	CZ	TYR	65	142.589	136.235	-23.687	1.00	36.19	HS8
ATOM	16836	CG	ARG	60	134.370	135.891	-34.866	1.00	64.08	HS8	ATOM	16889	OH	TYR	65	142.603	135.670	-24.922	1.00	36.19	HS8
ATOM	16837	CD	ARG	60	135.869	135.988	-34.872	1.00	64.08	HS8	ATOM	16890	C	TYR	65	140.901	138.309	-17.793	1.00	32.29	HS8
ATOM	16838	NE	ARG	60	136.293	136.251	-36.233	1.00	64.08	HS8	ATOM	16891	O	TYR	65	139.991	139.126	-17.700	1.00	32.29	HS8
ATOM	16839	CZ	ARG	60	135.898	137.310	-36.921	1.00	64.08	HS8	ATOM	16892	N	GLY	66	141.799	138.093	-16.840	1.00	49.65	HS8
ATOM	16840	NH1	ARG	60	135.090	138.196	-36.354	1.00	64.08	HS8	ATOM	16893	CA	GLY	66	141.765	138.848	-15.610	1.00	49.65	HS8
ATOM	16841	NH2	ARG	60	136.273	137.462	-33.180	1.00	64.08	HS8	ATOM	16894	C	GLY	66	142.378	140.197	-15.906	1.00	49.65	HS8
ATOM	16842	C	ARG	60	134.008	133.693	-31.832	1.00	38.17	HS8	ATOM	16895	O	GLY	66	142.545	140.545	-17.075	1.00	49.65	HS8
ATOM	16843	O	ARG	60	132.902	133.750	-31.309	1.00	38.17	HS8	ATOM	16896	N	PRO	67	142.709	140.996	-14.883	1.00	51.49	HS8
ATOM	16844	N	VAL	61	135.102	133.421	-31.146	1.00	40.65	HS8	ATOM	16897	CD	PRO	67	142.303	140.972	-13.465	1.00	18.77	HS8
ATOM	16845	CA	VAL	61	135.011	133.223	-29.720	1.00	40.65	HS8	ATOM	16898	CB	PRO	67	143.301	142.286	-15.201	1.00	51.49	HS8
ATOM	16846	CB	VAL	61	135.613	131.881	-29.308	1.00	20.26	HS8	ATOM	16899	CA	PRO	67	142.844	143.133	-14.037	1.00	18.77	HS8
ATOM	16847	CG1	VAL	61	135.450	131.696	-27.805	1.00	20.26	HS8	ATOM	16900	CG	PRO	67	142.979	142.223	-12.915	1.00	18.77	HS8
ATOM	16848	CG2	VAL	61	135.753	130.751	-30.072	1.00	20.26	HS8	ATOM	16901	C	PRO	67	144.817	142.165	-15.255	1.00	51.49	HS8
ATOM	16849	C	VAL	61	136.958	134.530	-29.055	1.00	40.65	HS8	ATOM	16902	O	PRO	68	145.372	141.090	-15.017	1.00	51.49	HS8
ATOM	16850	O	VAL	61	135.012	135.182	-28.319	1.00	26.64	HS8	ATOM	16903	N	ARG	68	146.469	143.280	-15.564	1.00	34.54	HS8
ATOM	16851	N	TYR	62	135.594	136.320	-27.626	1.00	26.64	HS8	ATOM	16904	CA	ARG	68	146.922	143.368	-15.643	1.00	34.54	HS8
ATOM	16852	CB	TYR	62	134.568	137.441	-27.536	1.00	29.37	HS8	ATOM	16905	CB	ARG	68	147.314	144.774	-16.076	1.00	72.93	HS8
ATOM	16853	CG	TYR	62	134.292	137.999	-28.901	1.00	29.37	HS8	ATOM	16906	CD	ARG	68	148.758	144.952	-16.445	1.00	72.93	HS8
ATOM	16854	CE1	TYR	62	135.189	138.865	-29.506	1.00	29.37	HS8	ATOM	16907	CG	ARG	68	148.913	146.231	-17.243	1.00	72.93	HS8
ATOM	16855	CD1	TYR	62	133.193	137.578	-29.634	1.00	29.37	HS8	ATOM	16908	NE	ARG	68	150.255	146.390	-17.779	1.00	72.93	HS8
ATOM	16856	CE2	TYR	62	133.915	138.848	-31.530	1.00	29.37	HS8	ATOM	16909	CZ	ARG	68	151.344	146.477	-17.028	1.00	72.93	HS8
ATOM	16857	CD2	TYR	62	133.773	139.211	-32.859	1.00	29.37	HS8	ATOM	16910	NH1	ARG	68	152.528	146.624	-17.601	1.00	72.93	HS8
ATOM	16858	CZ	TYR	62	133.393	135.944	-26.258	1.00	26.64	HS8	ATOM	16911	NH2	ARG	68	147.451	143.087	-14.252	1.00	34.54	HS8
ATOM	16859	OH	TYR	62	136.136	135.944	-26.258	1.00	26.64	HS8	ATOM	16912	C	ARG	68	148.702	142.658	-14.139	1.00	41.68	HS8
ATOM	16860	C	TYR	62	137.459	135.911	-26.258	1.00	32.28	HS8	ATOM	16913	O	ARG	69	149.264	142.358	-12.831	1.00	74.81	HS8
ATOM	16861	N	LEU	63	138.168	135.541	-24.988	1.00	32.28	HS8	ATOM	16914	N	ARG	69	148.403	139.950	-12.757	1.00	74.81	HS8
ATOM	16862	CA	LEU	63	139.607	135.196	-25.352	1.00	29.64	HS8	ATOM	16915	CA	ARG	69	149.611	140.874	-12.736	1.00	74.81	HS8
ATOM	16863	CB	LEU	63	139.778	133.776	-25.914	1.00	29.64	HS8	ATOM	16916	CB	ARG	69	148.403	139.950	-12.757	1.00	74.81	HS8
ATOM	16864	CG	LEU	63	138.570	133.333	-26.701	1.00	29.64	HS8	ATOM	16917	CG	ARG	69	149.747	137.936	-12.808	1.00	74.81	HS8
ATOM	16865	CD1	LEU	63	141.011	133.746	-26.776	1.00	29.64	HS8	ATOM	16918	CD	ARG	69	150.692	137.077	-12.834	1.00	74.81	HS8
ATOM	16866	CD2	LEU	63	138.105	136.599	-23.908	1.00	32.28	HS8	ATOM	16919	CZ	ARG	69	150.807	136.740	-11.557	1.00	74.81	HS8
ATOM	16867	C	LEU	63	137.924	137.785	-24.189	1.00	32.28	HS8	ATOM	16921	NH1	ARG	69	151.526	136.562	-13.733	1.00	74.81	HS8
ATOM	16868	O	LEU	63	138.279	136.137	-22.673	1.00	42.66	HS8	ATOM	16922	NH2	ARG	69	150.480	143.192	-12.429	1.00	41.68	HS8
ATOM	16871	N	LYS	64	138.192	136.962	-21.474	1.00	42.66	HS8	ATOM	16924	O	ARG	69	151.011	143.989	-13.214	1.00	41.68	HS8
ATOM	16872	CA	LYS	64						HS8	ATOM	16925	N	GLN	70	150.911	142.996	-11.185	1.00	59.66	HS8

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ATOM	16926	CA	GLN	70	152.047	143.715	-10.620	1.00	59.66	HS8	ATOM	16979	CA	GLU	77	145.410	135.640	-14.946	1.00	41.22	HS8
ATOM	16927	CB	GLN	70	151.806	143.987	-9.135	1.00	95.87	HS8	ATOM	16980	CB	GLU	77	144.839	135.627	-13.539	1.00	76.33	HS8
ATOM	16928	CD	GLN	70	150.585	144.829	-8.844	1.00	95.87	HS8	ATOM	16981	CG	GLU	77	144.384	134.262	-13.111	1.00	76.33	HS8
ATOM	16929	OE1	GLN	70	150.662	146.192	-9.493	1.00	95.87	HS8	ATOM	16982	CD	GLU	77	143.802	134.268	-11.725	1.00	76.33	HS8
ATOM	16930	OE1	GLN	70	151.613	146.945	-9.273	1.00	95.87	HS8	ATOM	16983	OE1	GLU	77	144.393	134.918	-10.836	1.00	76.33	HS8
ATOM	16931	NE2	GLN	70	149.659	146.519	-10.300	1.00	95.87	HS8	ATOM	16984	OE2	GLU	77	142.761	133.612	-11.519	1.00	76.33	HS8
ATOM	16932	C	GLN	70	153.343	142.943	-10.765	1.00	59.66	HS8	ATOM	16985	C	GLU	77	144.332	135.190	-15.914	1.00	41.22	HS8
ATOM	16933	O	GLN	70	153.340	141.764	-11.103	1.00	59.66	HS8	ATOM	16986	O	GLU	77	143.519	133.001	-16.337	1.00	41.22	HS8
ATOM	16934	N	GLY	71	154.451	143.622	-10.489	1.00	73.11	HS8	ATOM	16987	N	GLN	78	144.314	133.913	-16.276	1.00	56.69	HS8
ATOM	16935	CA	GLY	71	155.754	142.994	-10.578	1.00	73.11	HS8	ATOM	16988	CA	GLN	78	143.299	133.444	-17.212	1.00	56.69	HS8
ATOM	16936	C	GLY	71	156.046	142.463	-11.962	1.00	73.11	HS8	ATOM	16989	CB	GLN	78	143.718	132.123	-17.838	1.00	46.29	HS8
ATOM	16937	O	GLY	71	155.367	142.827	-12.922	1.00	73.11	HS8	ATOM	16990	CG	GLN	78	145.030	132.164	-18.575	1.00	46.29	HS8
ATOM	16938	N	PRO	72	157.070	141.610	-12.103	1.00	58.60	HS8	ATOM	16991	CD	GLN	78	144.904	132.726	-19.969	1.00	46.29	HS8
ATOM	16939	CD	PRO	72	158.044	141.238	-11.064	1.00	24.03	HS8	ATOM	16992	OE1	GLN	78	143.876	132.552	-20.619	1.00	46.29	HS8
ATOM	16940	CA	PRO	72	157.444	141.027	-13.395	1.00	58.60	HS8	ATOM	16993	NE2	GLN	78	145.959	133.383	-20.452	1.00	46.29	HS8
ATOM	16941	CB	PRO	72	158.690	140.214	-13.062	1.00	24.03	HS8	ATOM	16994	C	GLN	78	141.982	133.238	-16.490	1.00	56.69	HS8
ATOM	16942	CG	PRO	72	158.566	139.936	-11.584	1.00	24.03	HS8	ATOM	16995	O	GLN	78	141.956	133.035	-15.275	1.00	56.69	HS8
ATOM	16943	C	PRO	72	156.331	140.180	-13.982	1.00	58.60	HS8	ATOM	16996	N	VAL	79	140.888	133.312	-17.238	1.00	64.76	HS8
ATOM	16944	O	PRO	72	155.583	139.525	-13.255	1.00	58.60	HS8	ATOM	16997	CA	VAL	79	139.575	133.076	-16.659	1.00	64.76	HS8
ATOM	16945	N	ASP	73	156.230	140.190	-15.303	1.00	61.53	HS8	ATOM	16998	CB	VAL	79	138.493	133.856	-17.392	1.00	42.66	HS8
ATOM	16946	CA	ASP	73	155.183	139.448	-16.006	1.00	61.53	HS8	ATOM	16999	CG1	VAL	79	137.128	133.483	-16.876	1.00	42.66	HS8
ATOM	16947	CB	ASP	73	155.240	137.943	-15.724	1.00	49.73	HS8	ATOM	17000	CG2	VAL	79	138.727	135.320	-17.191	1.00	42.66	HS8
ATOM	16948	CG	ASP	73	154.264	137.156	-16.595	1.00	49.73	HS8	ATOM	17001	C	VAL	79	139.374	131.586	-16.854	1.00	64.76	HS8
ATOM	16949	OD1	ASP	73	154.178	135.920	-16.449	1.00	49.73	HS8	ATOM	17002	O	VAL	79	138.715	130.925	-16.047	1.00	64.76	HS8
ATOM	16950	OD2	ASP	73	153.583	137.778	-17.438	1.00	49.73	HS8	ATOM	17003	N	ILE	80	139.964	131.073	-17.937	1.00	25.75	HS8
ATOM	16951	C	ASP	73	153.800	139.954	-15.625	1.00	61.53	HS8	ATOM	17004	CA	ILE	80	139.932	129.650	-18.256	1.00	25.75	HS8
ATOM	16952	O	ASP	73	153.093	139.354	-14.812	1.00	61.53	HS8	ATOM	17005	CB	ILE	80	139.731	129.408	-19.739	1.00	11.85	HS8
ATOM	16953	N	PRO	74	153.399	141.076	-16.219	1.00	52.45	HS8	ATOM	17006	CG2	ILE	80	139.912	127.942	-20.031	1.00	11.85	HS8
ATOM	16954	CD	PRO	74	154.184	141.892	-17.163	1.00	45.11	HS8	ATOM	17007	CG1	ILE	80	138.342	129.894	-20.159	1.00	11.85	HS8
ATOM	16955	CA	PRO	74	152.097	141.681	-15.958	1.00	52.45	HS8	ATOM	17008	CD1	ILE	80	137.908	129.429	-21.541	1.00	11.85	HS8
ATOM	16956	CB	PRO	74	152.260	143.073	-16.547	1.00	45.11	HS8	ATOM	17009	C	ILE	80	141.278	129.056	-17.877	1.00	25.75	HS8
ATOM	16957	CG	PRO	74	153.133	142.806	-17.745	1.00	45.11	HS8	ATOM	17010	O	ILE	80	142.154	128.922	-18.724	1.00	25.75	HS8
ATOM	16958	C	PRO	74	150.967	140.909	-16.630	1.00	52.45	HS8	ATOM	17011	N	HIS	81	141.451	128.726	-16.601	1.00	40.27	HS8
ATOM	16959	O	PRO	74	149.819	141.331	-16.579	1.00	52.45	HS8	ATOM	17012	CA	HIS	81	142.706	128.160	-16.141	1.00	40.27	HS8
ATOM	16960	N	ARG	75	151.286	139.785	-17.268	1.00	44.11	HS8	ATOM	17013	CB	HIS	81	142.539	129.259	-13.868	1.00	55.37	HS8
ATOM	16961	CA	ARG	75	150.259	139.008	-17.949	1.00	44.11	HS8	ATOM	17014	CG	HIS	81	143.377	129.949	-13.061	1.00	55.37	HS8
ATOM	16962	CB	ARG	75	150.848	137.760	-18.588	1.00	44.62	HS8	ATOM	17015	CD2	HIS	81	141.330	129.916	-13.820	1.00	55.37	HS8
ATOM	16963	CG	ARG	75	151.207	137.960	-20.046	1.00	44.62	HS8	ATOM	17016	ND1	HIS	81	141.431	130.955	-13.011	1.00	55.37	HS8
ATOM	16964	CD	ARG	75	151.710	136.674	-20.634	1.00	44.62	HS8	ATOM	17017	CE1	HIS	81	142.663	130.997	-12.537	1.00	55.37	HS8
ATOM	16965	NE	ARG	75	152.829	136.180	-19.853	1.00	44.62	HS8	ATOM	17018	NE2	HIS	81	142.884	126.772	-16.711	1.00	40.27	HS8
ATOM	16966	CZ	ARG	75	153.474	135.055	-20.114	1.00	44.62	HS8	ATOM	17019	C	HIS	81	144.008	126.310	-16.910	1.00	40.27	HS8
ATOM	16967	NH1	ARG	75	153.102	134.307	-21.145	1.00	44.62	HS8	ATOM	17020	N	HIS	82	141.768	126.104	-16.963	1.00	32.00	HS8
ATOM	16968	NH2	ARG	75	154.485	134.681	-19.346	1.00	44.62	HS8	ATOM	17021	O	HIS	82	141.793	124.738	-17.441	1.00	43.94	HS8
ATOM	16969	C	ARG	75	149.095	138.633	-17.056	1.00	44.11	HS8	ATOM	17022	CA	HIS	82	141.562	123.830	-16.254	1.00	43.94	HS8
ATOM	16970	O	ARG	75	149.256	138.060	-15.984	1.00	44.11	HS8	ATOM	17023	CB	HIS	82	141.781	122.384	-16.541	1.00	43.94	HS8
ATOM	16971	N	PRO	76	147.889	138.945	-17.514	1.00	20.70	HS8	ATOM	17024	CG	HIS	82	140.904	121.384	-16.794	1.00	43.94	HS8
ATOM	16972	CD	PRO	76	146.625	138.694	-16.830	1.00	33.53	HS8	ATOM	17025	CD2	HIS	82	143.036	121.813	-16.559	1.00	43.94	HS8
ATOM	16973	CA	PRO	76	145.578	139.148	-17.855	1.00	20.70	HS8	ATOM	17026	ND1	HIS	82	142.922	120.521	-16.808	1.00	43.94	HS8
ATOM	16974	CB	PRO	76	146.428	140.075	-18.733	1.00	20.70	HS8	ATOM	17027	CE1	HIS	82	141.639	120.235	-16.955	1.00	43.94	HS8
ATOM	16975	CG	PRO	76	146.323	137.236	-16.465	1.00	33.53	HS8	ATOM	17028	NE2	HIS	82	140.681	124.543	-18.439	1.00	32.00	HS8
ATOM	16976	C	PRO	76	146.905	136.352	-17.171	1.00	33.53	HS8	ATOM	17030	O	HIS	82	139.807	125.386	-18.563	1.00	32.00	HS8
ATOM	16977	O	PRO	76	145.723	136.996	-15.364	1.00	41.22	HS8	ATOM	17031	N	ILE	83	140.714	123.425	-19.143	1.00	32.10	HS8

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ATOM	17032	CA	ILE	83	139.702	123.086	-20.130	1.00	32.10	HS8	ATOM	17085	CD	PRO	89	137.160	111.293	-29.923	1.00	13.56	HS8
ATOM	17033	CB	ILE	83	139.383	124.273	-21.097	1.00	20.78	HS8	ATOM	17086	CA	PRO	89	136.470	108.966	-30.062	1.00	29.20	HS8
ATOM	17034	CG2	ILE	83	140.643	124.794	-21.779	1.00	20.78	HS8	ATOM	17087	CB	PRO	89	136.814	109.517	-31.439	1.00	13.56	HS8
ATOM	17035	CG1	ILE	83	138.376	123.810	-22.155	1.00	20.78	HS8	ATOM	17088	CG	PRO	89	137.754	110.685	-31.136	1.00	13.56	HS8
ATOM	17036	CD1	ILE	83	137.945	124.892	-23.108	1.00	20.78	HS8	ATOM	17089	C	PRO	89	137.346	107.798	-29.656	1.00	29.20	HS8
ATOM	17037	C	ILE	83	140.233	121.916	-20.937	1.00	32.10	HS8	ATOM	17090	O	PRO	89	138.495	107.989	-29.247	1.00	29.20	HS8
ATOM	17038	O	ILE	83	141.009	122.116	-21.866	1.00	32.10	HS8	ATOM	17091	N	GLY	90	136.825	106.585	-29.743	1.00	51.96	HS8
ATOM	17039	N	ARG	84	139.834	120.695	-20.578	1.00	31.25	HS8	ATOM	17092	CA	GLY	90	137.645	105.465	-29.317	1.00	51.96	HS8
ATOM	17040	CA	ARG	84	140.304	119.514	-21.305	1.00	31.25	HS8	ATOM	17093	C	GLY	90	138.085	105.667	-27.866	1.00	51.96	HS8
ATOM	17041	CB	ARG	84	141.408	118.809	-20.506	1.00	72.49	HS8	ATOM	17094	O	GLY	90	139.277	105.638	-27.535	1.00	51.96	HS8
ATOM	17042	CG	ARG	84	140.921	117.921	-19.385	1.00	72.49	HS8	ATOM	17095	N	ARG	91	137.082	105.905	-27.024	1.00	49.98	HS8
ATOM	17043	CD	ARG	84	141.919	116.808	-19.145	1.00	72.49	HS8	ATOM	17096	CA	ARG	91	137.193	106.104	-25.583	1.00	49.98	HS8
ATOM	17044	NE	ARG	84	141.419	115.812	-18.203	1.00	72.49	HS8	ATOM	17097	CB	ARG	91	138.542	106.632	-25.159	1.00	47.31	HS8
ATOM	17045	CZ	ARG	84	142.050	114.677	-17.912	1.00	72.49	HS8	ATOM	17098	CG	ARG	91	139.138	105.851	-23.981	1.00	47.31	HS8
ATOM	17046	NH1	ARG	84	143.208	114.392	-18.491	1.00	72.49	HS8	ATOM	17099	CD	ARG	91	138.241	105.709	-22.748	1.00	47.31	HS8
ATOM	17047	NH2	ARG	84	141.531	113.827	-17.037	1.00	72.49	HS8	ATOM	17100	NE	ARG	91	139.088	105.433	-21.587	1.00	47.31	HS8
ATOM	17048	C	ARG	84	139.231	118.488	-21.696	1.00	31.25	HS8	ATOM	17101	CZ	ARG	91	138.646	105.141	-20.371	1.00	47.31	HS8
ATOM	17049	O	ARG	84	138.301	117.896	-22.882	1.00	31.25	HS8	ATOM	17102	NH1	ARG	91	137.344	105.080	-20.137	1.00	47.31	HS8
ATOM	17050	N	ARG	85	139.380	117.896	-22.882	1.00	54.96	HS8	ATOM	17103	NH2	ARG	91	139.508	104.902	-19.391	1.00	47.31	HS8
ATOM	17051	CA	ARG	85	138.441	116.889	-23.360	1.00	54.96	HS8	ATOM	17104	C	ARG	91	136.136	107.064	-25.111	1.00	49.98	HS8
ATOM	17052	CB	ARG	85	138.779	116.440	-24.768	1.00	34.60	HS8	ATOM	17105	O	ARG	91	136.419	108.064	-24.449	1.00	49.98	HS8
ATOM	17053	CG	ARG	85	137.829	116.985	-25.792	1.00	34.60	HS8	ATOM	17106	N	ARG	92	134.906	106.741	-25.483	1.00	31.35	HS8
ATOM	17054	CD	ARG	85	137.136	115.898	-26.580	1.00	34.60	HS8	ATOM	17107	CA	ARG	92	133.749	107.506	-25.093	1.00	31.35	HS8
ATOM	17055	NE	ARG	85	135.721	115.822	-26.259	1.00	34.60	HS8	ATOM	17108	CB	ARG	92	132.529	106.957	-25.820	1.00	38.25	HS8
ATOM	17056	CZ	ARG	85	134.814	115.311	-27.080	1.00	34.60	HS8	ATOM	17109	CG	ARG	92	131.916	107.921	-26.804	1.00	38.25	HS8
ATOM	17057	NH1	ARG	85	135.189	114.849	-28.267	1.00	34.60	HS8	ATOM	17110	CD	ARG	92	132.798	108.165	-27.991	1.00	38.25	HS8
ATOM	17058	NH2	ARG	85	133.538	115.236	-26.711	1.00	34.60	HS8	ATOM	17111	NE	ARG	92	132.583	109.513	-28.502	1.00	38.25	HS8
ATOM	17059	C	ARG	85	138.475	115.675	-22.473	1.00	54.96	HS8	ATOM	17112	CZ	ARG	92	132.800	109.865	-29.759	1.00	38.25	HS8
ATOM	17060	O	ARG	85	139.549	115.360	-21.873	1.00	54.96	HS8	ATOM	17113	NH1	ARG	92	133.231	108.966	-30.630	1.00	38.25	HS8
ATOM	17061	N	ILE	86	137.349	114.980	-22.405	1.00	44.35	HS8	ATOM	17114	NH2	ARG	92	132.598	111.112	-30.142	1.00	38.25	HS8
ATOM	17062	CA	ILE	86	137.252	113.799	-21.578	1.00	44.35	HS8	ATOM	17115	C	ARG	92	133.559	107.377	-23.573	1.00	31.35	HS8
ATOM	17063	CB	ILE	86	136.316	114.048	-20.410	1.00	35.65	HS8	ATOM	17116	O	ARG	92	133.858	106.343	-22.967	1.00	31.35	HS8
ATOM	17064	CG2	ILE	86	136.012	112.755	-19.706	1.00	35.65	HS8	ATOM	17117	N	VAL	93	133.053	108.430	-22.954	1.00	52.39	HS8
ATOM	17065	CG1	ILE	86	136.970	115.028	-19.447	1.00	35.65	HS8	ATOM	17118	CA	VAL	93	132.841	108.397	-21.524	1.00	52.39	HS8
ATOM	17066	CD1	ILE	86	136.129	115.349	-18.271	1.00	35.65	HS8	ATOM	17119	CB	VAL	93	133.898	109.234	-20.821	1.00	17.95	HS8
ATOM	17067	C	ILE	86	136.759	112.643	-22.414	1.00	44.35	HS8	ATOM	17120	CG1	VAL	93	133.511	109.475	-19.369	1.00	17.95	HS8
ATOM	17068	O	ILE	86	137.461	111.655	-22.602	1.00	44.35	HS8	ATOM	17121	CG2	VAL	93	135.216	108.511	-20.918	1.00	17.95	HS8
ATOM	17069	N	SER	87	135.539	112.744	-22.903	1.00	27.12	HS8	ATOM	17122	C	VAL	93	131.461	108.887	-21.145	1.00	52.39	HS8
ATOM	17070	CA	SER	87	135.046	111.698	-23.762	1.00	27.12	HS8	ATOM	17123	O	VAL	93	131.129	110.052	-21.368	1.00	52.39	HS8
ATOM	17071	CB	SER	87	133.531	111.836	-23.953	1.00	22.99	HS8	ATOM	17124	N	TYR	94	130.660	107.987	-20.577	1.00	39.84	HS8
ATOM	17072	CG	SER	87	133.009	110.839	-24.823	1.00	22.99	HS8	ATOM	17125	CA	TYR	94	129.304	108.329	-20.157	1.00	39.84	HS8
ATOM	17073	C	SER	87	133.800	112.029	-25.051	1.00	27.12	HS8	ATOM	17126	CB	TYR	94	128.298	107.425	-20.839	1.00	35.88	HS8
ATOM	17074	O	SER	87	136.012	113.197	-25.354	1.00	27.12	HS8	ATOM	17127	CG1	TYR	94	128.513	107.319	-22.311	1.00	35.88	HS8
ATOM	17075	N	LYS	88	136.259	111.014	-25.772	1.00	35.73	HS8	ATOM	17128	CD1	TYR	94	129.108	106.186	-22.875	1.00	35.88	HS8
ATOM	17076	CA	LYS	88	136.963	111.225	-27.035	1.00	35.73	HS8	ATOM	17129	CE1	TYR	94	129.298	106.082	-24.253	1.00	35.88	HS8
ATOM	17077	CB	LYS	88	138.478	111.296	-26.865	1.00	33.81	HS8	ATOM	17130	CD2	TYR	94	128.118	108.346	-23.148	1.00	35.88	HS8
ATOM	17078	CG	LYS	88	138.960	111.726	-25.516	1.00	33.81	HS8	ATOM	17131	CE2	TYR	94	128.304	108.256	-24.523	1.00	35.88	HS8
ATOM	17079	CD	LYS	88	140.378	112.234	-25.631	1.00	33.81	HS8	ATOM	17132	CZ	TYR	94	128.891	107.126	-25.067	1.00	35.88	HS8
ATOM	17080	CE	LYS	88	141.123	112.141	-24.318	1.00	33.81	HS8	ATOM	17133	OH	TYR	94	129.051	107.072	-26.429	1.00	35.88	HS8
ATOM	17081	NZ	LYS	88	141.280	110.696	-23.967	1.00	33.81	HS8	ATOM	17134	C	TYR	94	129.142	108.194	-18.656	1.00	39.84	HS8
ATOM	17082	C	LYS	88	136.661	109.996	-27.839	1.00	35.73	HS8	ATOM	17135	O	TYR	94	129.842	107.411	-18.026	1.00	39.84	HS8
ATOM	17083	O	LYS	88	136.362	108.942	-27.274	1.00	35.73	HS8	ATOM	17136	N	VAL	95	128.218	108.961	-18.089	1.00	45.26	HS8
ATOM	17084	N	PRO	89	136.740	110.104	-29.170	1.00	29.20	HS8	ATOM	17137	CA	VAL	95	127.981	108.900	-16.655	1.00	45.26	HS8

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ATOM	17138	CB	VAL	95	128.699	110.032	-15.907	1.00	23.37	HS8	ATOM	17191	CD	ARG	102	130.622	117.134	-5.512	1.00	165.57	HS8
ATOM	17139	CG1	VAL	95	130.198	109.786	-15.877	1.00	23.37	HS8	ATOM	17192	NE	ARG	102	129.277	116.874	-5.012	1.00	165.57	HS8
ATOM	17140	CG2	VAL	95	128.372	111.351	-16.572	1.00	23.37	HS8	ATOM	17193	CZ	ARG	102	128.994	116.643	-3.735	1.00	165.57	HS8
ATOM	17141	C	VAL	95	126.518	108.960	-16.250	1.00	45.26	HS8	ATOM	17194	NH1	ARG	102	129.965	116.640	-2.831	1.00	165.57	HS8
ATOM	17142	O	VAL	95	125.695	109.596	-16.907	1.00	45.26	HS8	ATOM	17195	NH2	ARG	102	127.742	116.416	-3.361	1.00	165.57	HS8
ATOM	17143	N	GLY	96	126.213	108.274	-15.155	1.00	50.61	HS8	ATOM	17196	C	ARG	102	133.560	118.251	-9.315	1.00	52.28	HS8
ATOM	17144	CA	GLY	96	124.868	108.282	-14.625	1.00	50.61	HS8	ATOM	17197	O	ARG	102	134.558	119.966	-8.644	1.00	52.28	HS8
ATOM	17145	C	GLY	96	124.732	109.575	-13.844	1.00	50.61	HS8	ATOM	17198	N	VAL	103	133.581	119.070	-10.360	1.00	27.23	HS8
ATOM	17146	O	GLY	96	125.731	110.216	-13.512	1.00	50.61	HS8	ATOM	17199	CA	VAL	103	134.797	119.731	-10.815	1.00	27.23	HS8
ATOM	17147	N	VAL	97	123.505	109.969	-13.541	1.00	68.22	HS8	ATOM	17200	CB	VAL	103	134.576	120.352	-12.185	1.00	22.57	HS8
ATOM	17148	CG1	VAL	97	123.296	111.212	-12.822	1.00	68.22	HS8	ATOM	17201	CG1	VAL	103	135.900	120.664	-12.825	1.00	22.57	HS8
ATOM	17149	CG2	VAL	97	121.794	111.524	-12.723	1.00	45.24	HS8	ATOM	17202	CG2	VAL	103	133.763	119.404	-13.041	1.00	22.57	HS8
ATOM	17150	CG1	VAL	97	121.078	110.365	-12.094	1.00	45.24	HS8	ATOM	17203	C	VAL	103	135.319	120.813	-9.886	1.00	27.23	HS8
ATOM	17151	CG2	VAL	97	121.576	112.796	-11.949	1.00	45.24	HS8	ATOM	17204	O	VAL	103	134.561	121.635	-9.373	1.00	27.23	HS8
ATOM	17152	C	VAL	97	123.936	111.143	-11.444	1.00	68.22	HS8	ATOM	17205	N	ARG	104	136.633	120.800	-9.694	1.00	51.14	HS8
ATOM	17153	O	VAL	97	124.164	112.164	-10.801	1.00	68.22	HS8	ATOM	17206	CA	ARG	104	137.324	121.768	-8.848	1.00	62.64	HS8
ATOM	17154	N	LYS	98	124.245	109.932	-11.000	1.00	39.51	HS8	ATOM	17207	CB	ARG	104	137.596	123.053	-9.630	1.00	62.64	HS8
ATOM	17155	CA	LYS	98	124.884	109.751	-9.703	1.00	39.51	HS8	ATOM	17208	CG	ARG	104	139.051	123.267	-10.020	1.00	62.64	HS8
ATOM	17156	CB	LYS	98	123.027	108.135	-8.925	1.00	93.36	HS8	ATOM	17209	CD	ARG	104	141.097	124.390	-9.200	1.00	62.64	HS8
ATOM	17157	CG	LYS	98	122.785	106.637	-8.727	1.00	93.36	HS8	ATOM	17210	NE	ARG	104	142.104	123.762	-9.721	1.00	62.64	HS8
ATOM	17158	CD	LYS	98	121.312	106.282	-8.569	1.00	93.36	HS8	ATOM	17211	CZ	ARG	104	142.094	122.457	-9.954	1.00	62.64	HS8
ATOM	17159	CE	LYS	98	120.806	106.554	-7.195	1.00	93.36	HS8	ATOM	17212	NH1	ARG	104	143.255	124.436	-9.974	1.00	62.64	HS8
ATOM	17160	NZ	LYS	98	126.410	109.828	-9.849	1.00	39.51	HS8	ATOM	17213	NH2	ARG	104	136.559	122.093	-7.582	1.00	51.14	HS8
ATOM	17161	C	LYS	98	127.122	110.089	-8.886	1.00	39.51	HS8	ATOM	17214	C	ARG	104	136.324	123.262	-7.276	1.00	51.14	HS8
ATOM	17162	O	LYS	99	126.900	109.605	-11.066	1.00	69.08	HS8	ATOM	17215	O	ARG	105	136.176	121.042	-6.860	1.00	43.72	HS8
ATOM	17163	N	GLU	99	128.332	109.611	-11.350	1.00	69.08	HS8	ATOM	17216	N	ARG	105	135.449	121.169	-5.604	1.00	43.72	HS8
ATOM	17164	CA	GLU	99	128.657	108.476	-12.319	1.00	94.51	HS8	ATOM	17217	CA	ARG	105	136.385	121.661	-4.501	1.00	88.16	HS8
ATOM	17165	CB	GLU	99	128.264	107.097	-11.829	1.00	94.51	HS8	ATOM	17218	CB	ARG	105	136.193	120.967	-3.179	1.00	88.16	HS8
ATOM	17166	CG	GLU	99	128.605	106.007	-12.834	1.00	94.51	HS8	ATOM	17219	CG	ARG	105	136.863	119.609	-3.215	1.00	88.16	HS8
ATOM	17167	CD	GLU	99	127.997	105.980	-13.930	1.00	94.51	HS8	ATOM	17220	CD	ARG	105	136.747	118.908	-1.943	1.00	88.16	HS8
ATOM	17168	OE1	GLU	99	129.490	105.177	-12.529	1.00	94.51	HS8	ATOM	17221	NE	ARG	105	135.617	118.395	-1.472	1.00	88.16	HS8
ATOM	17169	OE2	GLU	99	128.893	110.922	-11.915	1.00	69.08	HS8	ATOM	17222	CZ	ARG	105	134.489	118.497	-2.167	1.00	88.16	HS8
ATOM	17170	C	GLU	99	130.084	111.011	-12.209	1.00	69.08	HS8	ATOM	17223	NH1	ARG	105	135.618	117.781	-0.299	1.00	88.16	HS8
ATOM	17171	O	GLU	99	128.047	111.932	-12.080	1.00	47.11	HS8	ATOM	17224	NH2	ARG	105	134.281	122.133	-5.712	1.00	43.72	HS8
ATOM	17172	N	ILE	100	128.488	113.218	-12.610	1.00	47.11	HS8	ATOM	17225	C	ARG	105	133.924	122.782	-4.737	1.00	43.72	HS8
ATOM	17173	CA	ILE	100	127.316	114.191	-12.723	1.00	51.75	HS8	ATOM	17226	O	ARG	105	133.699	122.241	-6.900	1.00	34.26	HS8
ATOM	17174	CB	ILE	100	127.768	115.464	-13.382	1.00	51.75	HS8	ATOM	17227	N	GLY	106	132.572	123.134	-7.079	1.00	34.26	HS8
ATOM	17175	CG2	ILE	100	126.199	113.554	-13.546	1.00	51.75	HS8	ATOM	17228	CA	GLY	106	132.852	124.369	-7.876	1.00	34.26	HS8
ATOM	17176	CG1	ILE	100	124.904	114.313	-13.511	1.00	51.75	HS8	ATOM	17229	C	GLY	106	131.951	124.886	-8.539	1.00	34.26	HS8
ATOM	17177	CD1	ILE	100	129.518	113.811	-11.662	1.00	47.11	HS8	ATOM	17230	O	GLY	106	134.083	124.839	-7.830	1.00	33.31	HS8
ATOM	17178	C	ILE	100	129.230	114.054	-10.498	1.00	47.11	HS8	ATOM	17231	N	LEU	107	134.440	126.124	-8.556	1.00	33.31	HS8
ATOM	17179	O	ILE	100	130.738	114.056	-12.147	1.00	51.55	HS8	ATOM	17232	CA	LEU	107	135.708	126.735	-7.968	1.00	33.31	HS8
ATOM	17180	N	PRO	101	131.269	113.695	-13.472	1.00	46.78	HS8	ATOM	17233	CB	LEU	107	135.752	126.807	-6.448	1.00	31.63	HS8
ATOM	17181	CD	PRO	101	131.789	114.621	-11.292	1.00	51.55	HS8	ATOM	17234	CG	LEU	107	136.994	127.568	-6.001	1.00	31.63	HS8
ATOM	17182	CA	PRO	101	133.023	114.565	-12.184	1.00	46.78	HS8	ATOM	17235	CD1	LEU	107	134.489	127.480	-5.952	1.00	31.63	HS8
ATOM	17183	CB	PRO	101	132.447	114.602	-13.584	1.00	46.78	HS8	ATOM	17236	CD2	LEU	107	134.636	125.970	-10.061	1.00	33.31	HS8
ATOM	17184	CG	PRO	101	131.559	116.013	-10.726	1.00	51.55	HS8	ATOM	17237	C	LEU	107	134.842	126.954	-10.767	1.00	33.31	HS8
ATOM	17185	C	PRO	101	130.747	116.777	-11.240	1.00	51.55	HS8	ATOM	17238	O	LEU	107	134.600	124.742	-10.550	1.00	47.73	HS8
ATOM	17186	O	PRO	101	132.271	116.316	-9.642	1.00	52.28	HS8	ATOM	17239	N	GLY	108	134.763	124.530	-11.973	1.00	47.73	HS8
ATOM	17187	N	ARG	102	133.216	117.625	-8.995	1.00	52.28	HS8	ATOM	17240	CA	GLY	108	133.550	123.795	-12.489	1.00	47.73	HS8
ATOM	17188	CA	ARG	102	132.067	117.498	-7.484	1.00	165.57	HS8	ATOM	17241	C	GLY	108	132.767	123.267	-11.706	1.00	47.73	HS8
ATOM	17189	CB	ARG	102	130.660	117.237	-7.020	1.00	165.57	HS8	ATOM	17242	O	GLY	108	133.366	123.747	-13.796	1.00	39.74	HS8
ATOM	17190	CG	ARG	102						HS8	ATOM	17243	N	ILE	109						HS8

ATOM	17244	CA	ILE	109	132.214	123.037	-14.308	1.00	39.74	HS8	ATOM	17297	NZ	LVS	116	114.332	116.669	-17.357	1.00	79.71	HS8
ATOM	17245	CB	ILE	109	131.356	123.927	-15.187	1.00	33.73	HS8	ATOM	17298	C	LVS	116	118.708	117.960	-22.965	1.00	48.19	HS8
ATOM	17246	CG2	ILE	109	131.141	125.246	-14.503	1.00	33.73	HS8	ATOM	17299	O	LVS	116	118.456	119.074	-22.513	1.00	48.19	HS8
ATOM	17247	CG1	ILE	109	133.027	124.125	-16.545	1.00	33.73	HS8	ATOM	17300	N	GLY	117	119.708	117.720	-23.820	1.00	41.16	HS8
ATOM	17248	CD1	ILE	109	131.068	124.572	-17.608	1.00	33.73	HS8	ATOM	17301	CA	GLY	117	120.955	118.786	-24.315	1.00	41.16	HS8
ATOM	17249	C	ILE	109	132.602	121.819	-15.126	1.00	39.74	HS8	ATOM	17302	C	GLY	117	121.930	118.933	-23.627	1.00	41.16	HS8
ATOM	17250	O	ILE	109	133.774	121.457	-15.235	1.00	39.74	HS8	ATOM	17303	O	GLY	117	122.266	118.175	-22.718	1.00	41.16	HS8
ATOM	17251	N	ALA	110	131.597	121.195	-15.710	1.00	42.80	HS8	ATOM	17304	N	VAL	118	122.719	119.914	-24.056	1.00	41.02	HS8
ATOM	17252	CA	ALA	110	131.810	120.029	-16.526	1.00	42.80	HS8	ATOM	17305	CA	VAL	118	124.036	120.134	-23.460	1.00	41.02	HS8
ATOM	17253	CB	ALA	110	131.793	118.818	-15.676	1.00	11.70	HS8	ATOM	17306	CB	VAL	118	124.971	120.923	-24.415	1.00	41.13	HS8
ATOM	17254	CG	ALA	110	130.650	120.005	-17.485	1.00	42.80	HS8	ATOM	17307	CG1	VAL	118	126.245	121.294	-23.699	1.00	41.13	HS8
ATOM	17255	O	ALA	110	129.503	119.957	-17.073	1.00	42.80	HS8	ATOM	17308	CG2	VAL	118	125.300	120.091	-25.642	1.00	41.13	HS8
ATOM	17256	N	ILE	111	130.933	120.048	-18.771	1.00	42.27	HS8	ATOM	17309	C	VAL	118	123.852	120.930	-22.183	1.00	41.02	HS8
ATOM	17257	CA	ILE	111	129.857	120.048	-19.734	1.00	42.27	HS8	ATOM	17310	O	VAL	118	123.326	122.031	-22.223	1.00	41.02	HS8
ATOM	17258	CB	ILE	111	130.251	120.876	-20.946	1.00	20.64	HS8	ATOM	17311	N	LEU	119	124.289	120.380	-21.054	1.00	32.44	HS8
ATOM	17259	CG2	ILE	111	129.115	120.891	-21.962	1.00	20.64	HS8	ATOM	17312	CA	LEU	119	124.130	121.054	-19.760	1.00	32.44	HS8
ATOM	17260	CG1	ILE	111	130.643	122.277	-20.490	1.00	20.64	HS8	ATOM	17313	CB	LEU	119	123.041	120.365	-18.930	1.00	49.55	HS8
ATOM	17261	CD1	ILE	111	130.849	123.240	-21.632	1.00	20.64	HS8	ATOM	17314	CG	LEU	119	121.765	119.856	-19.607	1.00	49.55	HS8
ATOM	17262	C	ILE	111	129.472	118.647	-20.181	1.00	42.27	HS8	ATOM	17315	CD1	LEU	119	120.959	118.967	-18.653	1.00	49.55	HS8
ATOM	17263	O	ILE	111	130.298	117.905	-20.710	1.00	42.27	HS8	ATOM	17316	CD2	LEU	119	120.960	121.041	-20.068	1.00	49.55	HS8
ATOM	17264	N	LEU	112	128.213	118.287	-19.958	1.00	40.35	HS8	ATOM	17317	C	LEU	119	125.414	121.007	-18.952	1.00	32.44	HS8
ATOM	17265	CA	LEU	112	127.730	116.980	-20.359	1.00	40.35	HS8	ATOM	17318	O	LEU	119	126.374	120.340	-19.329	1.00	32.44	HS8
ATOM	17266	CB	LEU	112	126.895	116.323	-19.271	1.00	31.62	HS8	ATOM	17319	N	THR	120	125.421	121.704	-17.825	1.00	27.61	HS8
ATOM	17267	CG	LEU	112	127.385	116.193	-17.841	1.00	31.62	HS8	ATOM	17320	CA	THR	120	126.583	121.707	-16.963	1.00	27.61	HS8
ATOM	17268	CD1	LEU	112	126.903	114.853	-17.305	1.00	31.62	HS8	ATOM	17321	CB	THR	120	126.786	123.074	-16.325	1.00	29.44	HS8
ATOM	17269	CD2	LEU	112	128.899	116.258	-17.781	1.00	31.62	HS8	ATOM	17322	CG1	THR	120	125.781	123.292	-15.331	1.00	29.44	HS8
ATOM	17270	C	LEU	112	126.828	117.174	-21.534	1.00	40.35	HS8	ATOM	17323	CG2	THR	120	126.688	124.162	-17.380	1.00	27.61	HS8
ATOM	17271	O	LEU	112	126.389	118.289	-21.807	1.00	40.35	HS8	ATOM	17324	C	THR	120	126.333	120.676	-15.868	1.00	27.61	HS8
ATOM	17272	N	SER	113	126.553	116.079	-22.231	1.00	30.17	HS8	ATOM	17325	O	THR	120	125.199	120.244	-15.671	1.00	27.61	HS8
ATOM	17273	CA	SER	113	125.629	116.096	-23.358	1.00	30.17	HS8	ATOM	17326	N	ASP	121	127.214	119.285	-14.101	1.00	55.20	HS8
ATOM	17274	CB	SER	113	126.333	115.712	-24.654	1.00	27.95	HS8	ATOM	17327	CA	ASP	121	127.378	120.280	-15.149	1.00	55.20	HS8
ATOM	17275	OG	SER	113	125.412	115.648	-25.728	1.00	27.95	HS8	ATOM	17328	CB	ASP	121	128.559	118.989	-13.405	1.00	66.36	HS8
ATOM	17276	C	SER	113	124.578	115.049	-22.989	1.00	30.17	HS8	ATOM	17329	CG	ASP	121	129.220	120.226	-12.811	1.00	66.36	HS8
ATOM	17277	O	SER	113	124.862	113.858	-22.963	1.00	30.17	HS8	ATOM	17330	OD1	ASP	121	129.287	121.263	-13.506	1.00	66.36	HS8
ATOM	17278	N	THR	114	123.370	115.506	-22.682	1.00	38.89	HS8	ATOM	17331	OD2	ASP	121	129.697	120.151	-11.651	1.00	66.36	HS8
ATOM	17279	CA	THR	114	122.287	114.616	-22.280	1.00	38.89	HS8	ATOM	17332	C	ASP	121	126.145	119.672	-13.089	1.00	55.20	HS8
ATOM	17280	CB	THR	114	121.701	115.093	-20.978	1.00	43.70	HS8	ATOM	17333	O	ASP	121	125.711	118.854	-12.302	1.00	55.20	HS8
ATOM	17281	OG1	THR	114	121.081	116.368	-21.191	1.00	43.70	HS8	ATOM	17334	N	ARG	122	125.706	120.919	-13.114	1.00	48.16	HS8
ATOM	17282	CG2	THR	114	122.805	115.246	-19.936	1.00	38.89	HS8	ATOM	17335	CA	ARG	122	124.669	121.350	-12.193	1.00	48.16	HS8
ATOM	17283	C	THR	114	121.166	114.591	-23.302	1.00	38.89	HS8	ATOM	17336	CB	ARG	122	125.973	122.674	-10.503	1.00	80.91	HS8
ATOM	17284	O	THR	114	120.265	113.620	-23.184	1.00	38.89	HS8	ATOM	17337	CG	ARG	122	126.360	124.057	-10.017	1.00	80.91	HS8
ATOM	17285	N	SER	115	119.147	113.552	-24.123	1.00	57.65	HS8	ATOM	17338	CD	ARG	122	127.051	123.985	-8.729	1.00	80.91	HS8
ATOM	17286	CA	SER	115	118.385	112.225	-23.995	1.00	54.58	HS8	ATOM	17339	NE	ARG	122	127.711	124.991	-8.163	1.00	80.91	HS8
ATOM	17287	CB	SER	115	117.814	112.048	-22.715	1.00	54.58	HS8	ATOM	17340	CZ	ARG	122	127.787	126.171	-8.766	1.00	80.91	HS8
ATOM	17288	OG	SER	115	118.226	114.742	-23.856	1.00	57.65	HS8	ATOM	17341	NH1	ARG	122	128.290	124.815	-6.982	1.00	80.91	HS8
ATOM	17289	C	SER	115	117.209	114.918	-24.521	1.00	57.65	HS8	ATOM	17342	NH2	ARG	122	123.313	121.357	-12.886	1.00	48.16	HS8
ATOM	17290	O	SER	115	118.606	115.553	-22.871	1.00	48.19	HS8	ATOM	17343	C	ARG	122	122.307	121.013	-12.273	1.00	48.16	HS8
ATOM	17291	N	LVS	116	117.878	116.765	-22.524	1.00	48.19	HS8	ATOM	17344	O	ARG	123	123.276	121.752	-14.155	1.00	43.43	HS8
ATOM	17292	CA	LVS	116	117.652	116.879	-21.019	1.00	79.71	HS8	ATOM	17345	N	GLU	123	122.018	121.756	-14.898	1.00	43.43	HS8
ATOM	17293	CB	LVS	116	116.430	116.163	-20.503	1.00	79.71	HS8	ATOM	17346	CA	GLU	123	122.326	122.320	-16.299	1.00	85.16	HS8
ATOM	17294	CG	LVS	116	116.082	116.654	-19.111	1.00	79.71	HS8	ATOM	17347	CB	GLU	123	122.326	123.824	-16.335	1.00	85.16	HS8
ATOM	17295	CD	LVS	116	114.773	116.057	-18.638	1.00	79.71	HS8	ATOM	17348	CD	GLU	123	123.019	124.323	-17.581	1.00	85.16	HS8
ATOM	17296	CE	LVS	116						HS8	ATOM	17349	CD	GLU	123						HS8

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ATOM	17350	OE1	GLU	123	122.788	123.752	-18.671	1.00	85.16	HS8	ATOM	17403	CA	GLY	131	125.190	111.387	-20.508	1.00	67.43	HS8
ATOM	17351	OE2	GLU	123	123.794	125.297	-17.472	1.00	85.16	HS8	ATOM	17404	C	GLY	131	126.676	111.512	-20.767	1.00	67.43	HS8
ATOM	17352	C _α /GLU		123	121.598	120.297	-14.962	1.00	43.43	HS8	ATOM	17405	O	GLY	131	127.453	111.578	-19.820	1.00	67.43	HS8
ATOM	17353	O	GLU	123	120.453	119.946	-14.681	1.00	43.43	HS8	ATOM	17406	N	GLY	132	127.066	111.544	-22.042	1.00	46.07	HS8
ATOM	17354	N	ALA	124	122.536	119.445	-15.356	1.00	83.07	HS8	ATOM	17407	CA	GLU	132	128.471	111.669	-22.453	1.00	46.07	HS8
ATOM	17355	CA	ALA	124	122.274	118.020	-15.374	1.00	83.07	HS8	ATOM	17408	CB	GLU	132	128.564	111.820	-23.969	1.00	62.82	HS8
ATOM	17356	CB	ALA	124	122.429	117.280	-16.021	1.00	79.33	HS8	ATOM	17409	CG	GLU	132	129.969	111.712	-24.500	1.00	62.82	HS8
ATOM	17357	C	ALA	124	122.296	117.835	-13.871	1.00	83.07	HS8	ATOM	17410	CD	GLU	132	130.004	111.513	-26.000	1.00	62.82	HS8
ATOM	17358	O	ALA	124	123.115	118.463	-13.201	1.00	83.07	HS8	ATOM	17411	OE1	GLU	132	129.279	110.619	-26.499	1.00	62.82	HS8
ATOM	17359	N	ARG	125	121.411	117.005	-13.341	1.00	52.18	HS8	ATOM	17412	OE2	GLU	132	130.761	112.242	-26.679	1.00	62.82	HS8
ATOM	17360	CG ₁ ARG		125	121.320	116.789	-11.898	1.00	52.18	HS8	ATOM	17413	C	GLU	132	129.152	112.857	-21.786	1.00	46.07	HS8
ATOM	17361	CB	ARG	125	122.508	117.375	-11.127	1.00	64.25	HS8	ATOM	17414	O	GLU	132	128.635	113.969	-21.820	1.00	46.07	HS8
ATOM	17362	CG	ARG	125	123.316	116.306	-10.454	1.00	64.25	HS8	ATOM	17415	N	LEU	133	130.315	112.614	-21.188	1.00	58.59	HS8
ATOM	17363	CD	ARG	125	124.235	116.830	-9.381	1.00	64.25	HS8	ATOM	17416	CA	LEU	133	131.067	113.648	-20.480	1.00	58.59	HS8
ATOM	17364	NE	ARG	125	125.539	117.197	-9.915	1.00	64.25	HS8	ATOM	17417	CB	LEU	133	131.889	113.008	-19.357	1.00	29.36	HS8
ATOM	17365	C2	ARG	125	126.691	117.015	-9.273	1.00	64.25	HS8	ATOM	17418	CG	LEU	133	131.901	113.682	-17.985	1.00	29.36	HS8
ATOM	17366	NH1	ARG	125	126.696	116.463	-8.060	1.00	64.25	HS8	ATOM	17419	CD1	LEU	133	132.681	112.838	-17.015	1.00	29.36	HS8
ATOM	17367	NH2	ARG	125	127.840	117.377	-9.845	1.00	64.25	HS8	ATOM	17420	CD2	LEU	133	132.510	115.050	-18.077	1.00	29.36	HS8
ATOM	17368	C	ARG	125	120.051	117.484	-11.461	1.00	52.18	HS8	ATOM	17421	C	LEU	133	131.992	114.427	-21.410	1.00	58.59	HS8
ATOM	17369	O	ARG	125	119.164	116.854	-10.883	1.00	52.18	HS8	ATOM	17422	O	LEU	133	133.200	114.211	-21.424	1.00	58.59	HS8
ATOM	17370	N	LYS	126	119.959	118.785	-11.722	1.00	70.05	HS8	ATOM	17423	N	ILE	134	131.415	115.345	-22.174	1.00	56.08	HS8
ATOM	17371	CA	LYS	126	118.736	119.493	-11.391	1.00	70.05	HS8	ATOM	17424	CA	ILE	134	132.157	116.168	-23.125	1.00	56.08	HS8
ATOM	17372	CB	LYS	126	118.793	120.956	-11.842	1.00	112.47	HS8	ATOM	17425	CB	ILE	134	131.272	117.293	-23.636	1.00	39.76	HS8
ATOM	17373	CG	LYS	126	117.471	121.694	-11.630	1.00	112.47	HS8	ATOM	17426	CG2	ILE	134	132.097	118.309	-24.412	1.00	39.76	HS8
ATOM	17374	CD	LYS	126	117.555	123.188	-11.922	1.00	112.47	HS8	ATOM	17427	CG1	ILE	134	130.162	116.678	-24.482	1.00	39.76	HS8
ATOM	17375	CE	LYS	126	116.221	123.868	-11.613	1.00	112.47	HS8	ATOM	17428	CD1	ILE	134	128.956	117.555	-24.613	1.00	39.76	HS8
ATOM	17376	NZ	LYS	126	116.299	125.351	-11.699	1.00	112.47	HS8	ATOM	17429	C	ILE	134	133.470	116.769	-22.648	1.00	56.08	HS8
ATOM	17377	C	LYS	126	117.701	118.729	-12.212	1.00	70.05	HS8	ATOM	17430	O	ILE	134	134.500	116.580	-23.284	1.00	56.08	HS8
ATOM	17378	O	LYS	126	116.684	118.277	-11.690	1.00	70.05	HS8	ATOM	17431	N	CYS	135	133.441	117.510	-21.550	1.00	39.78	HS8
ATOM	17379	N	LEU	127	117.998	118.566	-13.499	1.00	34.81	HS8	ATOM	17432	CA	CYS	135	134.666	118.110	-21.057	1.00	39.78	HS8
ATOM	17380	CA	LEU	127	117.137	117.842	-14.422	1.00	34.81	HS8	ATOM	17433	CB	CYS	135	135.095	119.248	-21.983	1.00	42.53	HS8
ATOM	17381	CB	LEU	127	117.534	118.145	-15.865	1.00	35.26	HS8	ATOM	17434	SG	CYS	135	133.935	120.604	-22.101	1.00	42.53	HS8
ATOM	17382	CG	LEU	127	117.178	119.494	-16.474	1.00	35.26	HS8	ATOM	17435	C	CYS	135	134.633	118.602	-19.611	1.00	39.78	HS8
ATOM	17383	CD1	LEU	127	115.676	119.549	-16.644	1.00	35.26	HS8	ATOM	17436	O	CYS	135	133.693	118.351	-18.862	1.00	52.58	HS8
ATOM	17384	CD2	LEU	127	117.676	120.640	-15.594	1.00	35.26	HS8	ATOM	17437	N	GLU	136	135.672	119.330	-19.235	1.00	52.58	HS8
ATOM	17385	C	LEU	127	117.296	116.346	-14.175	1.00	34.81	HS8	ATOM	17438	CA	GLU	136	135.832	119.817	-17.879	1.00	74.12	HS8
ATOM	17386	O	LEU	127	116.707	115.521	-14.886	1.00	40.71	HS8	ATOM	17439	CB	GLU	136	136.763	118.837	-17.166	1.00	74.12	HS8
ATOM	17387	N	GLY	128	118.111	116.002	-13.181	1.00	40.71	HS8	ATOM	17440	CG	GLU	136	137.268	119.222	-15.808	1.00	74.12	HS8
ATOM	17388	CA	GLY	128	118.353	114.608	-12.843	1.00	40.71	HS8	ATOM	17441	CD	GLU	136	138.399	118.304	-15.351	1.00	74.12	HS8
ATOM	17389	C	GLY	128	118.688	113.660	-13.987	1.00	40.71	HS8	ATOM	17442	OE1	GLU	136	139.506	118.388	-15.930	1.00	74.12	HS8
ATOM	17390	O	GLY	128	118.050	112.622	-14.132	1.00	40.71	HS8	ATOM	17443	OE2	GLU	136	138.176	117.495	-14.422	1.00	74.12	HS8
ATOM	17391	N	VAL	129	119.688	113.990	-14.800	1.00	69.00	HS8	ATOM	17444	C	GLU	136	136.458	121.202	-17.990	1.00	52.58	HS8
ATOM	17392	CA	VAL	129	120.051	113.108	-15.908	1.00	69.00	HS8	ATOM	17445	N	VAL	137	137.443	121.376	-18.697	1.00	52.58	HS8
ATOM	17393	CB	VAL	129	119.458	113.597	-17.245	1.00	28.71	HS8	ATOM	17446	CA	VAL	137	135.894	122.194	-17.311	1.00	52.42	HS8
ATOM	17394	CG1	VAL	129	117.935	113.677	-17.151	1.00	28.71	HS8	ATOM	17447	CB	VAL	137	136.445	123.545	-17.392	1.00	52.42	HS8
ATOM	17395	CG2	VAL	129	120.046	114.944	-17.603	1.00	28.71	HS8	ATOM	17448	CG1	VAL	137	135.591	124.464	-18.271	1.00	39.88	HS8
ATOM	17396	C	VAL	129	121.557	112.998	-16.077	1.00	69.00	HS8	ATOM	17449	CB	VAL	137	136.276	125.799	-18.408	1.00	39.88	HS8
ATOM	17397	O	VAL	129	122.317	113.719	-15.437	1.00	69.00	HS8	ATOM	17450	CG2	VAL	137	135.357	123.844	-19.624	1.00	39.88	HS8
ATOM	17398	N	GLY	130	121.979	112.089	-16.950	1.00	47.75	HS8	ATOM	17451	C	VAL	137	136.501	124.206	-16.039	1.00	52.42	HS8
ATOM	17399	CA	GLY	130	123.395	111.902	-17.202	1.00	47.75	HS8	ATOM	17452	O	VAL	137	135.583	124.043	-15.242	1.00	52.42	HS8
ATOM	17400	C	GLY	130	123.650	111.867	-18.696	1.00	47.75	HS8	ATOM	17453	N	TRP	138	137.569	124.958	-15.782	1.00	36.57	HS8
ATOM	17401	O	GLY	130	122.757	112.209	-19.478	1.00	47.75	HS8	ATOM	17454	CA	TRP	138	137.705	125.675	-14.518	1.00	36.57	HS8
ATOM	17402	N	GLY	131	124.856	111.459	-19.094	1.00	67.43	HS8	ATOM	17455	CB	TRP	138	137.804	124.708	-13.326	1.00	45.09	HS8

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ATOM	17456	CG	TRP	138	138.799	123.591	-13.432	1.00	45.09	HS8	ATOM	17509	CG	LEU	12	124.603	42.184	4.055	1.00	28.30	TS2
ATOM	17457	CD2	TRP	138	140.205	123.684	-13.227	1.00	45.09	HS8	ATOM	17510	CD1	LEU	12	124.361	41.870	5.518	1.00	28.30	TS2
ATOM	17458	CD2	TRP	138	140.731	122.366	-13.293	1.00	45.09	HS8	ATOM	17511	CD2	LEU	12	125.505	41.132	3.435	1.00	28.30	TS2
ATOM	17459	CE3	TRP	138	141.074	124.749	-12.988	1.00	45.09	HS8	ATOM	17512	C	LEU	12	121.261	43.040	2.248	1.00	85.75	TS2
ATOM	17460	CD1	TRP	138	138.530	122.253	-13.627	1.00	45.09	HS8	ATOM	17513	O	LEU	12	121.198	42.892	1.028	1.00	85.75	TS2
ATOM	17461	NE1	TRP	138	139.690	121.511	-13.540	1.00	45.09	HS8	ATOM	17514	N	LYS	13	120.269	42.813	3.102	1.00	31.50	TS2
ATOM	17462	CZ2	TRP	138	142.072	122.096	-13.130	1.00	45.09	HS8	ATOM	17515	CA	LYS	13	118.918	42.429	2.742	1.00	31.50	TS2
ATOM	17463	CZ3	TRP	138	142.403	124.486	-12.830	1.00	45.09	HS8	ATOM	17516	CB	LYS	13	117.993	42.761	3.916	1.00	33.28	TS2
ATOM	17464	CH2	TRP	138	142.898	123.166	-12.898	1.00	45.09	HS8	ATOM	17517	CG	LYS	13	116.542	42.407	4.207	1.00	33.28	TS2
ATOM	17465	C	TRP	138	138.834	126.697	-14.464	1.00	36.57	HS8	ATOM	17518	CD	LYS	13	115.680	42.814	4.854	1.00	33.28	TS2
ATOM	17466	CH	TRP	138	139.293	127.115	-15.546	1.00	36.57	HS8	ATOM	17519	CE	LYS	13	114.227	42.473	4.585	1.00	33.28	TS2
ATOM	17467	OXT	TRP	138	139.216	127.101	-13.344	1.00	74.06	HS8	ATOM	17520	N2	LYS	13	113.380	42.735	5.799	1.00	33.28	TS2
ATOM	17468	CB	ARG	8	131.880	43.053	10.683	1.00	153.88	TS20	ATOM	17521	C	LYS	13	118.477	43.189	1.498	1.00	31.50	TS2
ATOM	17469	CG	ARG	8	132.297	42.429	9.380	1.00	153.88	TS20	ATOM	17522	O	LYS	13	117.840	42.626	0.609	1.00	31.50	TS2
ATOM	17470	CD	ARG	8	133.129	41.203	9.652	1.00	99.94	TS20	ATOM	17523	N	ARG	14	118.825	44.476	1.450	1.00	35.02	TS2
ATOM	17471	NE	ARG	8	133.806	40.722	8.455	1.00	99.94	TS20	ATOM	17524	CA	ARG	14	118.494	45.334	0.317	1.00	35.02	TS2
ATOM	17472	C2	ARG	8	134.533	39.610	8.411	1.00	99.94	TS20	ATOM	17525	CB	ARG	14	119.081	46.721	0.533	1.00	40.03	TS2
ATOM	17473	NH1	ARG	8	134.671	38.864	9.502	1.00	99.94	TS20	ATOM	17526	CG	ARG	14	118.194	47.662	1.305	1.00	40.03	TS2
ATOM	17474	NH2	ARG	8	135.129	39.248	7.280	1.00	99.94	TS20	ATOM	17527	CD	ARG	14	116.917	47.955	0.540	1.00	40.03	TS2
ATOM	17475	C	ARG	8	129.533	43.755	10.221	1.00	100.86	TS20	ATOM	17528	NE	ARG	14	116.216	49.116	1.084	1.00	40.03	TS2
ATOM	17476	O	ARG	8	128.750	43.465	11.123	1.00	100.86	TS20	ATOM	17529	C2	ARG	14	115.043	49.559	0.639	1.00	40.03	TS2
ATOM	17477	N	ARG	8	130.912	45.012	11.818	1.00	100.86	TS20	ATOM	17530	NH1	ARG	14	114.429	48.935	-0.359	1.00	40.03	TS2
ATOM	17478	CA	ARG	8	130.939	44.244	10.542	1.00	100.86	TS20	ATOM	17531	NH2	ARG	14	114.489	50.631	-1.184	1.00	40.03	TS2
ATOM	17479	N	ASN	8A	129.212	43.673	8.937	1.00	91.48	TS20	ATOM	17532	C	ARG	14	119.029	44.740	-0.982	1.00	35.02	TS2
ATOM	17480	CA	ASN	8A	127.897	43.214	8.508	1.00	91.48	TS20	ATOM	17533	O	ARG	14	118.317	44.644	-1.997	1.00	35.02	TS2
ATOM	17481	CB	ASN	8A	127.571	41.863	9.147	1.00	133.81	TS20	ATOM	17534	N	HIS	15	120.293	44.344	-0.954	1.00	42.07	TS2
ATOM	17482	CG	ASN	8A	128.460	40.751	8.637	1.00	133.81	TS20	ATOM	17535	CA	HIS	15	120.869	43.750	-2.139	1.00	42.07	TS2
ATOM	17483	OD1	ASN	8A	127.843	39.662	8.654	1.00	133.81	TS20	ATOM	17536	CB	HIS	15	122.324	43.403	-1.915	1.00	56.38	TS2
ATOM	17484	ND2	ASN	8A	126.767	44.187	8.810	1.00	91.48	TS20	ATOM	17537	CG	HIS	15	122.994	42.903	-3.147	1.00	56.38	TS2
ATOM	17485	C	ASN	8A	126.359	44.345	9.960	1.00	91.48	TS20	ATOM	17538	CD2	HIS	15	123.988	43.429	-3.895	1.00	56.38	TS2
ATOM	17486	O	ASN	8A	126.272	44.838	7.762	1.00	49.98	TS20	ATOM	17539	ND1	HIS	15	122.617	41.736	-3.774	1.00	56.38	TS2
ATOM	17487	N	LEU	9	125.166	45.773	7.870	1.00	49.98	TS20	ATOM	17540	CE1	HIS	15	123.354	41.563	-4.854	1.00	56.38	TS2
ATOM	17488	CB	LEU	9	125.369	46.946	6.907	1.00	66.92	TS20	ATOM	17541	NE2	HIS	15	124.195	42.576	-4.950	1.00	56.38	TS2
ATOM	17489	CG	LEU	9	124.598	48.257	7.100	1.00	66.92	TS20	ATOM	17542	C	HIS	15	120.089	42.483	-2.445	1.00	42.07	TS2
ATOM	17490	CD1	LEU	9	123.105	48.001	7.176	1.00	66.92	TS20	ATOM	17543	O	HIS	15	119.691	42.228	-3.589	1.00	42.07	TS2
ATOM	17491	CD1	LEU	9	123.094	48.933	8.375	1.00	66.92	TS20	ATOM	17544	N	ARG	16	119.882	41.701	-1.390	1.00	45.99	TS2
ATOM	17492	CD2	LEU	9	123.986	44.929	7.415	1.00	49.98	TS20	ATOM	17545	CA	ARG	16	118.844	40.450	-1.439	1.00	45.99	TS2
ATOM	17493	C	LEU	9	123.741	44.811	6.221	1.00	49.98	TS20	ATOM	17546	CB	ARG	16	118.897	38.560	0.277	1.00	35.63	TS2
ATOM	17494	O	LEU	9	123.269	44.330	8.359	1.00	46.65	TS20	ATOM	17547	CG	ARG	16	118.463	38.298	1.717	1.00	35.63	TS2
ATOM	17495	N	SER	10	122.145	43.471	8.021	1.00	46.65	TS20	ATOM	17548	CD	ARG	16	119.418	38.795	2.706	1.00	35.63	TS2
ATOM	17496	CB	SER	10	121.347	43.101	9.276	1.00	35.74	TS20	ATOM	17549	NE	ARG	16	119.084	39.199	3.934	1.00	35.63	TS2
ATOM	17497	CB	SER	10	121.871	41.938	9.896	1.00	35.74	TS20	ATOM	17550	C2	ARG	16	117.815	39.174	4.326	1.00	35.63	TS2
ATOM	17498	OG	SER	10	121.233	44.005	6.922	1.00	46.65	TS20	ATOM	17551	NH1	ARG	16	120.025	39.616	4.783	1.00	35.63	TS2
ATOM	17499	C	SER	10	120.348	43.289	6.454	1.00	46.65	TS20	ATOM	17552	NH2	ARG	16	117.829	40.638	-2.227	1.00	45.99	TS2
ATOM	17500	O	SER	10	121.446	45.252	6.508	1.00	70.68	TS20	ATOM	17553	C	ARG	16	117.464	39.827	-3.087	1.00	45.99	TS2
ATOM	17501	N	ALA	11	120.675	45.801	5.400	1.00	70.68	TS20	ATOM	17554	O	ARG	16	117.138	41.731	-1.931	1.00	38.41	TS2
ATOM	17502	CA	ALA	11	120.636	47.315	5.464	1.00	86.51	TS20	ATOM	17555	N	GLN	17	115.871	42.038	-2.564	1.00	38.41	TS2
ATOM	17503	CB	ALA	11	121.323	45.323	4.084	1.00	70.68	TS20	ATOM	17556	CA	GLN	17	115.106	43.028	-1.710	1.00	55.38	TS2
ATOM	17504	C	ALA	11	121.370	46.041	3.087	1.00	70.68	TS20	ATOM	17557	CB	GLN	17	115.200	42.737	-0.248	1.00	55.38	TS2
ATOM	17505	O	ALA	11	121.929	44.118	4.124	1.00	85.75	TS20	ATOM	17558	CG	GLN	17	114.338	43.655	0.545	1.00	55.38	TS2
ATOM	17506	N	LEU	12	122.526	43.480	2.945	1.00	85.75	TS20	ATOM	17559	CD	GLN	17	113.122	43.670	0.374	1.00	55.38	TS2
ATOM	17507	CA	LEU	12	123.277	42.201	3.299	1.00	28.30	TS20	ATOM	17560	OE1	GLN	17	114.951	44.444	1.415	1.00	55.38	TS2
ATOM	17508	CB	LEU	12						TS20	ATOM	17561	NE2	GLN	17						TS2

ATOM	17562	C	GLN	17	116.037	42.619	-3.945	1.00	38.41	TS20	ATOM	17615	C	LEU	23	113.300	39.498	-12.364	1.00	55.01	TS2
ATOM	17563	O	GLN	17	115.227	42.355	-4.838	1.00	38.41	TS20	ATOM	17616	O	LEU	23	112.848	39.001	-13.396	1.00	55.01	TS2
ATOM	17564	N	SER	18	117.070	43.438	-4.114	1.00	42.78	TS20	ATOM	17617	N	ARG	24	112.548	40.168	-11.501	1.00	61.16	TS2
ATOM	17565	CA	SER	18	117.325	44.074	-5.404	1.00	42.78	TS20	ATOM	17618	CA	ARG	24	111.126	40.332	-11.740	1.00	61.16	TS2
ATOM	17566	CB	SER	18	118.663	44.807	-5.368	1.00	68.48	TS20	ATOM	17619	CB	ARG	24	110.436	40.847	-10.478	1.00	88.21	TS2
ATOM	17567	OG	SER	18	119.736	43.884	-5.371	1.00	68.48	TS20	ATOM	17620	CG	ARG	24	108.921	40.725	-10.508	1.00	88.21	TS2
ATOM	17568	C	SER	18	117.361	43.010	-6.498	1.00	42.78	TS20	ATOM	17621	CD	ARG	24	108.446	39.701	-9.488	1.00	88.21	TS2
ATOM	17569	N	SER	18	116.759	43.155	-7.563	1.00	42.78	TS20	ATOM	17622	NE	ARG	24	108.960	40.000	-8.151	1.00	88.21	TS2
ATOM	17570	CA	LEU	19	118.069	41.930	-6.205	1.00	41.24	TS20	ATOM	17623	CZ	ARG	24	108.749	39.247	-7.077	1.00	88.21	TS2
ATOM	17571	CG	LEU	19	118.217	40.836	-7.140	1.00	41.24	TS20	ATOM	17624	NH1	ARG	24	108.026	38.137	-7.167	1.00	88.21	TS2
ATOM	17572	CD	LEU	19	119.058	39.746	-6.509	1.00	38.28	TS20	ATOM	17625	NH2	ARG	24	109.270	39.603	-5.905	1.00	88.21	TS2
ATOM	17573	CG	LEU	19	120.500	40.170	-6.273	1.00	38.28	TS20	ATOM	17626	C	ARG	24	110.897	41.034	-13.777	1.00	61.16	TS2
ATOM	17574	CD1	LEU	19	121.154	39.165	-5.363	1.00	38.28	TS20	ATOM	17627	O	ARG	24	110.073	41.300	-13.777	1.00	61.16	TS2
ATOM	17575	CD2	LEU	19	121.239	40.255	-7.596	1.00	38.28	TS20	ATOM	17628	N	ASN	25	111.625	42.419	-12.888	1.00	48.29	TS2
ATOM	17576	C	LEU	19	116.892	40.267	-7.579	1.00	41.24	TS20	ATOM	17629	CA	ASN	25	111.501	43.428	-13.940	1.00	48.29	TS2
ATOM	17577	O	LEU	19	116.716	39.929	-8.743	1.00	41.24	TS20	ATOM	17630	CB	ASN	25	112.356	44.659	-13.642	1.00	36.57	TS2
ATOM	17578	N	LYS	20	115.958	40.151	-6.649	1.00	43.58	TS20	ATOM	17631	CG	ASN	25	111.827	45.476	-12.488	1.00	36.57	TS2
ATOM	17579	CA	LYS	20	114.658	39.606	-6.999	1.00	43.58	TS20	ATOM	17632	OD1	ASN	25	110.615	45.591	-12.301	1.00	36.57	TS2
ATOM	17580	CB	LYS	20	113.807	38.519	-4.703	1.00	52.80	TS20	ATOM	17633	ND2	ASN	25	112.738	46.073	-11.713	1.00	36.57	TS2
ATOM	17581	CD	LYS	20	113.429	38.272	-3.630	1.00	52.80	TS20	ATOM	17634	C	ASN	25	111.987	42.827	-15.237	1.00	48.29	TS2
ATOM	17582	CE	LYS	20	113.975	37.513	-2.454	1.00	52.80	TS20	ATOM	17635	O	ASN	25	111.283	42.829	-16.245	1.00	48.29	TS2
ATOM	17583	CE	LYS	20	112.926	37.447	-1.387	1.00	52.80	TS20	ATOM	17636	N	LYS	26	113.214	42.324	-15.192	1.00	51.60	TS2
ATOM	17584	NZ	LYS	20	113.952	40.568	-7.943	1.00	43.58	TS20	ATOM	17637	CA	LYS	26	113.856	41.691	-16.333	1.00	51.60	TS2
ATOM	17585	O	LYS	20	113.590	40.213	-9.080	1.00	43.58	TS20	ATOM	17638	CB	LYS	26	115.013	40.830	-15.818	1.00	72.42	TS2
ATOM	17586	C	LYS	20	113.751	41.787	-7.444	1.00	35.93	TS20	ATOM	17639	CG	LYS	26	115.944	40.300	-16.869	1.00	72.42	TS2
ATOM	17587	N	ARG	21	113.101	42.846	-8.196	1.00	35.93	TS20	ATOM	17640	CD	LYS	26	115.637	38.855	-17.224	1.00	72.42	TS2
ATOM	17588	CA	ARG	21	112.605	44.172	-7.458	1.00	59.26	TS20	ATOM	17641	CE	LYS	26	116.651	38.317	-18.240	1.00	72.42	TS2
ATOM	17589	CB	ARG	21	112.282	44.226	-6.101	1.00	59.26	TS20	ATOM	17642	NZ	LYS	26	116.378	36.919	-18.694	1.00	72.42	TS2
ATOM	17590	CG	ARG	21	112.685	45.586	-5.427	1.00	59.26	TS20	ATOM	17643	C	LYS	26	112.837	40.840	-17.098	1.00	51.60	TS2
ATOM	17591	CD	ARG	21	112.786	45.586	-5.427	1.00	59.26	TS20	ATOM	17644	O	LYS	26	112.749	40.903	-18.324	1.00	51.60	TS2
ATOM	17592	NE	ARG	21	111.742	45.829	-4.433	1.00	59.26	TS20	ATOM	17645	N	ALA	27	112.039	40.086	-16.345	1.00	34.70	TS2
ATOM	17593	C2	ARG	21	110.540	46.329	-4.715	1.00	59.26	TS20	ATOM	17646	CA	ALA	27	111.030	39.176	-16.888	1.00	34.70	TS2
ATOM	17594	NH1	ARG	21	110.228	46.655	-5.967	1.00	59.26	TS20	ATOM	17647	CB	ALA	27	110.627	38.172	-15.826	1.00	52.56	TS2
ATOM	17595	NH2	ARG	21	109.636	46.473	-3.753	1.00	59.26	TS20	ATOM	17648	C	ALA	27	109.792	39.845	-17.439	1.00	34.70	TS2
ATOM	17596	C	ARG	21	113.748	42.902	-9.578	1.00	35.93	TS20	ATOM	17649	O	ALA	27	109.124	39.297	-18.303	1.00	34.70	TS2
ATOM	17597	O	ARG	21	113.066	43.004	-10.595	1.00	35.93	TS20	ATOM	17650	N	LYS	28	109.464	41.018	-16.926	1.00	40.09	TS2
ATOM	17598	N	ARG	22	115.073	42.812	-9.604	1.00	34.00	TS20	ATOM	17651	CA	LYS	28	107.289	41.725	-17.407	1.00	40.09	TS2
ATOM	17599	CA	ARG	22	115.791	42.826	-10.864	1.00	34.00	TS20	ATOM	17652	CB	LYS	28	107.966	42.884	-16.476	1.00	60.51	TS2
ATOM	17600	CB	ARG	22	117.281	42.629	-10.635	1.00	72.18	TS20	ATOM	17653	CG	LYS	28	107.553	42.465	-15.079	1.00	60.51	TS2
ATOM	17601	CG	ARG	22	118.039	42.343	-11.900	1.00	72.18	TS20	ATOM	17654	CD	LYS	28	106.060	42.612	-14.926	1.00	60.51	TS2
ATOM	17602	CD	ARG	22	119.526	42.311	-11.658	1.00	72.18	TS20	ATOM	17655	CE	LYS	28	105.627	42.493	-13.482	1.00	60.51	TS2
ATOM	17603	NE	ARG	22	120.187	41.557	-12.712	1.00	72.18	TS20	ATOM	17656	NZ	LYS	28	104.184	42.864	-13.378	1.00	60.51	TS2
ATOM	17604	C2	ARG	22	119.968	40.264	-12.936	1.00	72.18	TS20	ATOM	17657	C	LYS	28	104.577	42.255	-18.796	1.00	40.09	TS2
ATOM	17605	NH1	ARG	22	119.108	39.590	-12.174	1.00	72.18	TS20	ATOM	17658	O	LYS	28	107.854	41.970	-19.754	1.00	40.09	TS2
ATOM	17606	NH2	ARG	22	120.598	39.644	-13.927	1.00	72.18	TS20	ATOM	17659	N	LYS	29	109.658	43.019	-18.889	1.00	70.66	TS2
ATOM	17607	C	ARG	22	115.269	41.718	-11.756	1.00	34.00	TS20	ATOM	17660	CA	LYS	29	110.073	43.627	-20.139	1.00	70.66	TS2
ATOM	17608	O	ARG	22	114.867	41.957	-12.894	1.00	34.00	TS20	ATOM	17661	CB	LYS	29	111.321	44.494	-19.910	1.00	51.93	TS2
ATOM	17609	N	LEU	23	115.251	40.500	-11.231	1.00	55.01	TS20	ATOM	17662	CG	LYS	29	110.998	45.882	-19.335	1.00	51.93	TS2
ATOM	17610	CA	LEU	23	114.781	39.375	-12.020	1.00	55.01	TS20	ATOM	17663	CD	LYS	29	112.236	46.704	-18.964	1.00	51.93	TS2
ATOM	17611	CB	LEU	23	115.042	38.064	-11.282	1.00	82.09	TS20	ATOM	17664	CE	LYS	29	113.013	46.081	-17.798	1.00	51.93	TS2
ATOM	17612	CG	LEU	23	114.937	36.846	-12.196	1.00	82.09	TS20	ATOM	17665	NZ	LYS	29	114.012	47.019	-17.197	1.00	51.93	TS2
ATOM	17613	CD1	LEU	23	115.937	36.970	-13.340	1.00	82.09	TS20	ATOM	17666	C	LYS	29	110.309	42.636	-21.266	1.00	70.66	TS2
ATOM	17614	CD2	LEU	23	115.206	35.599	-11.397	1.00	82.09	TS20	ATOM	17667	O	LYS	29	109.794	42.821	-22.368	1.00	70.66	TS2

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ATOM	17668	N	SER	30	111.069	41.581	-21.006	1.00	52.62	TS20	ATOM	17721	CD	LYS	37	111.092	41.407	-31.140	1.00	62.00	TS2
ATOM	17669	CA	SER	30	111.331	40.617	-22.066	1.00	52.62	TS20	ATOM	17722	CE	LYS	37	112.213	41.973	-30.276	1.00	62.00	TS2
ATOM	17670	CB	SER	30	112.147	39.443	-21.528	1.00	62.48	TS20	ATOM	17723	NZ	LYS	37	113.217	40.922	-29.917	1.00	62.00	TS2
ATOM	17671	OG	SER	30	111.557	38.930	-20.357	1.00	62.48	TS20	ATOM	17724	C	LYS	37	106.473	41.692	-32.835	1.00	52.65	TS2
ATOM	17672	C	SER	30	110.031	40.131	-22.708	1.00	52.62	TS20	ATOM	17725	O	LYS	37	105.883	42.048	-33.856	1.00	52.65	TS2
ATOM	17673	O	SER	30	109.966	39.918	-23.921	1.00	52.62	TS20	ATOM	17726	N	LYS	38	106.205	40.558	-32.185	1.00	58.48	TS2
ATOM	17674	N	ALA	31	107.690	39.978	-21.895	1.00	49.31	TS20	ATOM	17727	CA	LYS	38	105.180	39.622	-32.623	1.00	58.48	TS2
ATOM	17675	CA	ALA	31	107.690	39.531	-22.390	1.00	49.31	TS20	ATOM	17728	CB	LYS	38	104.639	38.836	-31.426	1.00	101.07.68	TS2
ATOM	17676	CB	ALA	31	106.752	39.275	-21.228	1.00	29.92	TS20	ATOM	17729	CG	LYS	38	105.015	37.367	-31.431	1.00	101.07.68	TS2
ATOM	17677	C	ALA	31	107.127	40.630	-23.271	1.00	49.31	TS20	ATOM	17730	CD	LYS	38	104.067	36.540	-32.293	1.00	101.07.68	TS2
ATOM	17678	ALA	ALA	31	106.617	40.384	-24.365	1.00	49.31	TS20	ATOM	17731	CE	LYS	38	104.746	35.268	-32.822	1.00	101.07.68	TS2
ATOM	17679	N	ILE	32	107.225	41.851	-22.761	1.00	41.10	TS20	ATOM	17732	NZ	LYS	38	105.477	34.476	-31.780	1.00	101.07.68	TS2
ATOM	17680	CA	ILE	32	106.762	43.029	-23.465	1.00	41.10	TS20	ATOM	17733	C	LYS	38	104.049	40.382	-33.287	1.00	58.48	TS2
ATOM	17681	CB	ILE	32	107.201	44.288	-22.719	1.00	37.08	TS20	ATOM	17734	O	LYS	38	103.605	40.024	-34.371	1.00	58.48	TS2
ATOM	17682	CG2	ILE	32	106.993	45.514	-23.580	1.00	37.08	TS20	ATOM	17735	N	ALA	39	103.599	41.444	-32.631	1.00	63.28	TS2
ATOM	17683	CG1	ILE	32	106.436	44.371	-21.400	1.00	37.08	TS20	ATOM	17736	CA	ALA	39	102.033	43.210	-32.092	1.00	20.14	TS2
ATOM	17684	CD1	ILE	32	106.806	45.560	-20.526	1.00	37.08	TS20	ATOM	17737	CB	ALA	39	102.517	42.259	-33.150	1.00	63.28	TS2
ATOM	17685	C	ILE	32	107.337	43.043	-24.872	1.00	41.10	TS20	ATOM	17738	C	ALA	39	102.980	42.868	-35.455	1.00	63.28	TS2
ATOM	17686	O	ILE	32	106.599	42.925	-25.844	1.00	41.10	TS20	ATOM	17739	O	ALA	39	102.429	42.868	-35.455	1.00	63.28	TS2
ATOM	17687	N	LYS	33	108.659	43.162	-24.971	1.00	48.52	TS20	ATOM	17740	N	VAL	40	103.988	43.889	-34.169	1.00	57.25	TS2
ATOM	17688	CA	LYS	33	109.343	43.202	-26.262	1.00	48.52	TS20	ATOM	17741	CA	VAL	40	104.548	44.713	-35.247	1.00	57.25	TS2
ATOM	17689	CB	LYS	33	110.854	43.140	-26.047	1.00	55.11	TS20	ATOM	17742	CB	VAL	40	105.878	45.376	-34.823	1.00	33.92	TS2
ATOM	17690	CG	LYS	33	111.359	44.225	-25.111	1.00	55.11	TS20	ATOM	17743	CG1	VAL	40	106.543	45.975	-36.023	1.00	33.92	TS2
ATOM	17691	CD	LYS	33	112.826	44.046	-24.732	1.00	55.11	TS20	ATOM	17744	CG2	VAL	40	105.630	46.454	-33.771	1.00	33.92	TS2
ATOM	17692	CE	LYS	33	113.263	45.114	-23.731	1.00	55.11	TS20	ATOM	17745	C	VAL	40	104.821	43.862	-36.478	1.00	57.25	TS2
ATOM	17693	NZ	LYS	33	114.660	44.921	-23.241	1.00	55.11	TS20	ATOM	17746	O	VAL	40	104.450	44.210	-37.598	1.00	46.78	TS2
ATOM	17694	C	LYS	33	108.902	42.070	-27.184	1.00	48.52	TS20	ATOM	17747	N	GLN	41	105.472	42.734	-36.254	1.00	46.78	TS2
ATOM	17695	O	LYS	33	108.444	42.308	-28.309	1.00	48.52	TS20	ATOM	17748	CA	GLN	41	105.801	41.830	-37.333	1.00	46.78	TS2
ATOM	17696	N	THR	34	109.028	40.840	-26.700	1.00	67.92	TS20	ATOM	17749	CB	GLN	41	106.754	40.757	-36.803	1.00	84.31	TS2
ATOM	17697	CA	THR	34	108.648	39.678	-27.490	1.00	67.92	TS20	ATOM	17750	CG	GLN	41	107.775	40.322	-37.819	1.00	84.31	TS2
ATOM	17698	CB	THR	34	108.612	38.427	-26.641	1.00	58.85	TS20	ATOM	17751	CD	GLN	41	107.142	39.550	-38.941	1.00	84.31	TS2
ATOM	17699	OG1	THR	34	109.921	38.163	-26.133	1.00	58.85	TS20	ATOM	17752	OEL	GLN	41	107.663	39.505	-40.052	1.00	84.31	TS2
ATOM	17700	CG2	THR	34	108.169	37.259	-27.473	1.00	58.85	TS20	ATOM	17753	NE2	GLN	41	106.008	38.923	-38.653	1.00	84.31	TS2
ATOM	17701	C	THR	34	107.285	39.843	-28.129	1.00	67.92	TS20	ATOM	17754	C	GLN	41	104.545	41.208	-37.980	1.00	46.78	TS2
ATOM	17702	O	THR	34	107.100	39.542	-29.309	1.00	67.92	TS20	ATOM	17755	O	GLN	41	104.559	40.841	-39.151	1.00	46.78	TS2
ATOM	17703	N	LEU	35	106.331	40.315	-27.336	1.00	52.33	TS20	ATOM	17756	N	LEU	42	103.459	41.101	-37.224	1.00	77.56	TS2
ATOM	17704	CA	LEU	35	104.985	40.525	-27.821	1.00	52.33	TS20	ATOM	17757	CA	LEU	42	102.220	40.543	-37.764	1.00	77.56	TS2
ATOM	17705	CB	LEU	35	104.046	40.822	-26.656	1.00	38.58	TS20	ATOM	17758	CB	LEU	42	101.252	40.158	-36.646	1.00	65.52	TS2
ATOM	17706	CG	LEU	35	103.391	39.624	-25.972	1.00	38.58	TS20	ATOM	17759	CG	LEU	42	101.219	38.676	-36.283	1.00	65.52	TS2
ATOM	17707	CD1	LEU	35	102.233	40.093	-25.094	1.00	38.58	TS20	ATOM	17760	CD1	LEU	42	100.022	38.426	-35.381	1.00	65.52	TS2
ATOM	17708	CD2	LEU	35	102.869	38.675	-27.028	1.00	38.58	TS20	ATOM	17761	CD2	LEU	42	101.122	37.827	-37.550	1.00	65.52	TS2
ATOM	17709	C	LEU	35	104.887	41.645	-28.847	1.00	52.33	TS20	ATOM	17762	C	LEU	42	101.534	41.550	-38.663	1.00	77.56	TS2
ATOM	17710	O	LEU	35	104.302	41.455	-29.909	1.00	52.33	TS20	ATOM	17763	O	LEU	42	101.019	41.195	-39.727	1.00	77.56	TS2
ATOM	17711	N	SER	36	105.453	42.808	-28.533	1.00	44.79	TS20	ATOM	17764	N	ALA	43	101.511	42.800	-38.203	1.00	75.20	TS2
ATOM	17712	CA	SER	36	105.409	43.963	-29.435	1.00	44.79	TS20	ATOM	17765	CA	ALA	43	100.915	43.908	-38.947	1.00	75.20	TS2
ATOM	17713	CB	SER	36	106.268	45.093	-28.886	1.00	57.30	TS20	ATOM	17766	CB	ALA	43	101.010	45.189	-38.132	1.00	75.20	TS2
ATOM	17714	OG	SER	36	106.494	44.915	-27.504	1.00	57.30	TS20	ATOM	17767	C	ALA	43	101.755	44.034	-40.139	1.00	75.20	TS2
ATOM	17715	C	SER	36	105.894	43.605	-30.834	1.00	44.79	TS20	ATOM	17768	O	ALA	43	103.062	43.941	-39.969	1.00	67.38	TS2
ATOM	17716	O	SER	36	105.238	43.927	-31.826	1.00	44.79	TS20	ATOM	17769	N	GLN	44	104.088	44.008	-40.996	1.00	67.38	TS2
ATOM	17717	N	LYS	37	107.055	42.960	-30.920	1.00	52.65	TS20	ATOM	17770	CA	GLN	44	105.376	43.405	-40.428	1.00	83.81	TS2
ATOM	17718	CA	LYS	37	107.567	42.556	-32.221	1.00	52.65	TS20	ATOM	17771	CB	GLN	44	106.659	43.930	-41.021	1.00	83.81	TS2
ATOM	17719	CB	LYS	37	108.833	41.724	-32.075	1.00	62.00	TS20	ATOM	17772	CG	GLN	44	106.657	43.859	-42.518	1.00	83.81	TS2
ATOM	17720	CG	LYS	37	109.946	42.388	-31.320	1.00	62.00	TS20	ATOM	17773	CD	GLN	44						TS20

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ATOM	17774	OE1	GLN	44	106.264	42.847	-43.100	1.00	83.81	TS20	ATOM	17827	O	ALA	51	98.516	43.006	-33.384	1.00	64.05	TS21
ATOM	17775	NE2	GLN	44	107.103	44.932	-43.160	1.00	83.81	TS20	ATOM	17828	N	LEU	52	96.490	42.958	-34.343	1.00	46.77	TS21
ATOM	17776	C _α	GLN	44	103.628	43.218	-42.223	1.00	67.38	TS20	ATOM	17829	CA	LEU	52	95.890	43.802	-33.317	1.00	46.77	TS21
ATOM	17777	O	GLN	44	103.531	43.761	-43.316	1.00	67.38	TS20	ATOM	17830	CB	LEU	52	94.532	44.327	-33.787	1.00	78.45	TS21
ATOM	17778	N	GLU	45	103.324	41.939	-42.008	1.00	65.61	TS20	ATOM	17831	CG	LEU	52	94.567	45.223	-35.031	1.00	78.45	TS21
ATOM	17779	CA	GLU	45	102.879	41.027	-43.061	1.00	65.61	TS20	ATOM	17832	CD1	LEU	52	93.154	45.528	-35.470	1.00	78.45	TS21
ATOM	17780	CB	GLU	45	103.053	39.588	-42.607	1.00113.52	TS20	ATOM	17833	CD2	LEU	52	95.324	46.513	-34.738	1.00	78.45	TS21	
ATOM	17781	CG	GLU	45	104.354	39.297	-41.929	1.00113.52	TS20	ATOM	17834	C	LEU	52	95.726	43.000	-32.032	1.00	46.77	TS21	
ATOM	17782	CD	GLU	45	104.375	37.889	-41.400	1.00113.52	TS20	ATOM	17835	O	LEU	52	96.096	43.468	-30.952	1.00	46.77	TS21	
ATOM	17783	OE1	GLU	45	104.437	36.948	-42.222	1.00113.52	TS20	ATOM	17836	N	LVS	53	95.179	41.788	-32.168	1.00	66.90	TS21	
ATOM	17784	OE2	GLU	45	104.308	37.721	-40.164	1.00113.52	TS20	ATOM	17837	CA	LVS	53	94.955	40.871	-31.047	1.00	66.90	TS21	
ATOM	17785	O	GLU	45	101.430	41.197	-43.498	1.00	65.61	TS20	ATOM	17838	CB	LVS	53	94.669	39.456	-31.556	1.00102.52	TS21	
ATOM	17786	O	GLU	45	100.892	40.333	-44.195	1.00	65.61	TS20	ATOM	17839	CG	LVS	53	93.235	39.004	-31.370	1.00102.52	TS21	
ATOM	17787	N	GLY	46	100.789	42.281	-43.074	1.00	79.17	TS20	ATOM	17840	CD	LVS	53	92.926	37.779	-32.214	1.00102.52	TS21	
ATOM	17788	CA	GLY	46	99.407	42.513	-43.466	1.00	79.17	TS20	ATOM	17841	CE	LVS	53	91.428	37.552	-32.295	1.00102.52	TS21	
ATOM	17789	C	GLY	46	98.295	41.894	-42.626	1.00	79.17	TS20	ATOM	17842	NZ	LVS	53	91.075	36.573	-33.351	1.00102.52	TS21	
ATOM	17790	O	GLY	46	97.209	42.462	-42.563	1.00	79.17	TS20	ATOM	17843	C	LVS	53	96.172	40.832	-30.157	1.00	66.90	TS21
ATOM	17791	N	LVS	47	98.541	40.750	-41.986	1.00	77.92	TS20	ATOM	17844	O	LVS	53	96.064	40.976	-28.942	1.00	66.90	TS21
ATOM	17792	CA	LVS	47	97.518	40.084	-41.165	1.00	77.92	TS20	ATOM	17845	N	ILE	54	97.333	40.624	-30.766	1.00	53.12	TS21
ATOM	17793	CB	LVS	47	98.085	38.808	-40.543	1.00	78.13	TS20	ATOM	17846	CA	ILE	54	98.565	40.592	-30.005	1.00	53.12	TS21
ATOM	17794	CG	LVS	47	98.492	37.765	-41.569	1.00	78.13	TS20	ATOM	17847	CB	ILE	54	99.733	40.158	-30.860	1.00	51.30	TS21
ATOM	17795	CD	LVS	47	99.077	36.537	-40.914	1.00	78.13	TS20	ATOM	17848	CG2	ILE	54	101.014	40.207	-30.047	1.00	51.30	TS21
ATOM	17796	CE	LVS	47	100.211	35.994	-41.750	1.00	78.13	TS20	ATOM	17849	CG1	ILE	54	99.490	38.753	-31.378	1.00	51.30	TS21
ATOM	17797	NZ	LVS	47	101.264	37.037	-41.950	1.00	78.13	TS20	ATOM	17850	CD1	ILE	54	100.646	38.227	-32.195	1.00	51.30	TS21
ATOM	17798	C	LVS	47	96.946	40.982	-40.070	1.00	77.92	TS20	ATOM	17851	C	ILE	54	98.869	41.985	-29.465	1.00	53.12	TS21
ATOM	17799	O	LVS	47	97.521	41.114	-38.989	1.00	77.92	TS20	ATOM	17852	O	ILE	54	99.242	42.137	-28.298	1.00	53.12	TS21
ATOM	17800	N	ALA	48	95.790	41.571	-40.363	1.00	73.44	TS20	ATOM	17853	N	MET	55	98.713	43.001	-30.312	1.00	46.00	TS21
ATOM	17801	CA	ALA	48	95.108	42.496	-39.460	1.00	73.44	TS20	ATOM	17854	CA	MET	55	98.970	44.367	-29.890	1.00	46.00	TS21
ATOM	17802	CB	ALA	48	93.868	43.050	-40.144	1.00110.17	TS20	ATOM	17855	CB	MET	55	98.437	45.355	-30.919	1.00	69.11	TS21	
ATOM	17803	C	ALA	48	94.732	41.955	-38.089	1.00	73.44	TS20	ATOM	17856	CG	MET	55	98.725	46.793	-30.545	1.00	69.11	TS21
ATOM	17804	O	ALA	48	95.359	42.302	-37.091	1.00	73.44	TS20	ATOM	17857	SD	MET	55	97.508	47.925	-31.201	1.00	69.11	TS21
ATOM	17805	N	GLU	49	93.695	41.123	-38.042	1.00	88.86	TS20	ATOM	17858	CE	MET	55	98.181	48.213	-32.812	1.00	69.11	TS21
ATOM	17806	CA	GLU	49	93.222	40.556	-36.782	1.00	88.86	TS20	ATOM	17859	C	MET	55	98.320	44.664	-28.531	1.00	46.00	TS21
ATOM	17807	CB	GLU	49	92.361	39.319	-37.037	1.00	92.21	TS20	ATOM	17860	N	MET	55	98.998	45.127	-27.598	1.00	46.00	TS21
ATOM	17808	CG	GLU	49	90.865	39.593	-37.063	1.00	92.21	TS20	ATOM	17861	O	ARG	56	97.013	44.403	-28.421	1.00	57.01	TS21
ATOM	17809	CD	GLU	49	90.044	38.330	-36.866	1.00	92.21	TS20	ATOM	17862	CA	ARG	56	96.293	44.643	-27.174	1.00	57.01	TS21
ATOM	17810	OE1	GLU	49	90.222	37.371	-37.648	1.00	92.21	TS20	ATOM	17863	CB	ARG	56	94.870	44.086	-27.235	1.00	89.48	TS21
ATOM	17811	OE2	GLU	49	89.222	38.292	-35.926	1.00	92.21	TS20	ATOM	17864	CG	ARG	56	94.001	44.601	-28.360	1.00	89.48	TS21
ATOM	17812	C	GLU	49	94.299	40.199	-35.763	1.00	88.86	TS20	ATOM	17865	CD	ARG	56	93.799	43.497	-29.386	1.00	89.48	TS21
ATOM	17813	O	GLU	49	94.474	40.907	-34.771	1.00	88.86	TS20	ATOM	17866	NE	ARG	56	92.415	43.370	-29.837	1.00	89.48	TS21
ATOM	17814	N	GLU	50	95.017	39.104	-36.003	1.00	82.02	TS20	ATOM	17867	CZ	ARG	56	91.374	43.216	-29.024	1.00	89.48	TS21
ATOM	17815	CA	GLU	50	96.044	38.668	-35.065	1.00	82.02	TS20	ATOM	17868	NH1	ARG	56	91.550	43.175	-27.707	1.00	89.48	TS21
ATOM	17816	CB	GLU	50	96.697	37.367	-35.552	1.00123.95	TS20	ATOM	17869	NH2	ARG	56	90.153	43.091	-29.528	1.00	89.48	TS21	
ATOM	17817	CG	GLU	50	97.249	37.392	-36.961	1.00123.95	TS20	ATOM	17870	C	ARG	56	97.016	44.020	-25.971	1.00	57.01	TS21	
ATOM	17818	CD	GLU	50	97.755	36.024	-37.404	1.00123.95	TS20	ATOM	17871	O	ARG	56	97.111	44.653	-26.919	1.00	57.01	TS21	
ATOM	17819	OE1	GLU	50	98.532	35.400	-36.651	1.00123.95	TS20	ATOM	17872	N	LVS	57	97.511	42.785	-26.110	1.00	49.34	TS21	
ATOM	17820	OE2	GLU	50	97.381	35.571	-38.507	1.00123.95	TS20	ATOM	17873	CA	LVS	57	96.228	42.141	-25.007	1.00	49.34	TS21	
ATOM	17821	C	GLU	50	97.105	39.725	-34.743	1.00	82.02	TS20	ATOM	17874	CB	LVS	57	96.711	40.738	-25.389	1.00	82.80	TS21
ATOM	17822	O	GLU	50	97.711	39.695	-33.667	1.00	82.02	TS20	ATOM	17875	CG	LVS	57	97.595	39.720	-25.565	1.00	82.80	TS21
ATOM	17823	N	ALA	51	97.323	40.668	-35.654	1.00	64.05	TS20	ATOM	17876	CD	LVS	57	96.138	38.318	-25.845	1.00	82.80	TS21
ATOM	17824	CA	ALA	51	98.302	41.723	-35.406	1.00	64.05	TS20	ATOM	17877	CE	LVS	57	97.013	37.321	-26.144	1.00	82.80	TS21
ATOM	17825	CB	ALA	51	98.544	42.533	-36.674	1.00	58.72	TS20	ATOM	17878	NZ	LVS	57	97.541	35.962	-26.467	1.00	82.80	TS21
ATOM	17826	C	ALA	51	97.776	42.625	-34.287	1.00	64.05	TS20	ATOM	17879	C	LVS	57	99.426	43.016	-24.688	1.00	49.34	TS21

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ATOM	17880	O	AYS	57	99.676	43.369	-23.523	1.00	49.34	TS20	ATOM	17933	O	LVS	64	102.411	47.250	-14.408	1.00	53.11	TS21
ATOM	17881	N	ALA	58	100.162	43.370	-25.739	1.00	38.43	TS20	ATOM	17934	N	ALA	65	103.035	46.879	-16.526	1.00	57.66	TS21
ATOM	17882	CA	ALA	58	101.320	44.222	-25.581	1.00	38.43	TS20	ATOM	17935	CA	ALA	65	104.450	47.041	-16.231	1.00	57.66	TS21
ATOM	17883	CB	ALA	58	101.836	44.639	-26.929	1.00	56.09	TS20	ATOM	17936	CB	ALA	65	105.265	47.002	-17.520	1.00	63.98	TS21
ATOM	17884	C	ALA	58	100.884	45.442	-24.774	1.00	38.43	TS20	ATOM	17937	C	ALA	65	104.655	48.374	-15.517	1.00	57.66	TS21
ATOM	17885	O	ALA	58	101.416	45.706	-23.693	1.00	38.43	TS20	ATOM	17938	O	ALA	65	105.503	48.492	-14.631	1.00	57.66	TS21
ATOM	17886	N	GLU	59	99.899	46.170	-25.291	1.00	48.30	TS20	ATOM	17939	N	ALA	66	103.861	49.370	-15.902	1.00	58.81	TS21
ATOM	17887	CA	GLU	59	99.402	47.351	-24.598	1.00	48.30	TS20	ATOM	17940	CA	ALA	66	103.961	50.697	-15.305	1.00	58.81	TS21
ATOM	17888	CB	GLU	59	98.108	47.857	-25.246	1.00	63.31	TS20	ATOM	17941	CB	ALA	66	103.463	51.749	-16.275	1.00	25.18	TS21
ATOM	17889	CD	GLU	59	97.525	49.082	-24.552	1.00	63.31	TS20	ATOM	17942	C	ALA	66	103.187	50.794	-14.009	1.00	58.81	TS21
ATOM	17890	OE1	GLU	59	96.339	49.685	-25.288	1.00	63.31	TS20	ATOM	17943	O	ALA	66	103.278	51.808	-13.306	1.00	58.81	TS21
ATOM	17891	OE1	GLU	59	95.833	50.734	-24.842	1.00	63.31	TS20	ATOM	17944	N	LVS	67	102.416	49.747	-13.709	1.00	44.65	TS21
ATOM	17892	OE2	GLU	59	95.902	49.118	-26.310	1.00	63.31	TS20	ATOM	17945	CA	LVS	67	101.622	49.688	-12.483	1.00	44.65	TS21
ATOM	17893	C	GLU	59	99.150	47.043	-23.126	1.00	48.30	TS20	ATOM	17946	CB	LVS	67	100.747	48.426	-12.484	1.00	98.41	TS21
ATOM	17894	O	GLU	59	99.554	47.802	-22.240	1.00	48.30	TS20	ATOM	17947	CG	LVS	67	99.420	48.577	-11.763	1.00	98.41	TS21
ATOM	17895	N	SER	60	98.498	45.912	-22.872	1.00	49.39	TS20	ATOM	17948	CE	LVS	67	98.555	49.631	-12.442	1.00	98.41	TS21
ATOM	17896	CA	SER	60	98.176	45.499	-21.509	1.00	49.39	TS20	ATOM	17949	CE	LVS	67	97.408	50.099	-11.544	1.00	98.41	TS21
ATOM	17897	CB	SER	60	97.097	43.785	-20.209	1.00	64.19	TS20	ATOM	17950	NZ	LVS	67	96.521	51.130	-12.184	1.00	98.41	TS21
ATOM	17898	CG	SER	60	97.366	44.209	-21.528	1.00	64.19	TS20	ATOM	17951	C	LVS	67	102.637	49.649	-11.338	1.00	44.65	TS21
ATOM	17899	O	SER	60	99.412	45.302	-20.640	1.00	49.39	TS20	ATOM	17952	O	LVS	67	102.668	50.531	-10.480	1.00	44.65	TS21
ATOM	17900	C	SER	60	99.586	45.972	-19.617	1.00	49.39	TS20	ATOM	17953	N	GLY	68	103.473	48.621	-11.335	1.00	76.51	TS21
ATOM	17901	N	LEU	61	100.271	44.379	-21.047	1.00	56.69	TS20	ATOM	17954	CA	GLY	68	104.503	48.527	-10.323	1.00	76.51	TS21
ATOM	17902	CA	LEU	61	101.476	44.116	-20.285	1.00	56.69	TS20	ATOM	17955	C	GLY	68	105.612	49.303	-10.893	1.00	76.51	TS21
ATOM	17903	CB	LEU	61	102.404	43.189	-21.067	1.00	47.05	TS20	ATOM	17956	O	GLY	68	105.678	49.726	-12.047	1.00	76.51	TS21
ATOM	17904	CG	LEU	61	101.787	41.851	-21.461	1.00	47.05	TS20	ATOM	17957	N	SER	69	106.734	49.485	-10.120	1.00	36.97	TS21
ATOM	17905	CD1	LEU	61	102.905	40.871	-21.762	1.00	47.05	TS20	ATOM	17958	CA	SER	69	107.885	50.245	-10.609	1.00	36.97	TS21
ATOM	17906	CD2	LEU	61	100.919	41.335	-20.328	1.00	47.05	TS20	ATOM	17959	CB	SER	69	108.755	50.733	-9.432	1.00	32.36	TS21
ATOM	17907	C	LEU	61	102.207	45.404	-19.948	1.00	56.69	TS20	ATOM	17960	CG	SER	69	109.318	49.673	-8.672	1.00	32.36	TS21
ATOM	17908	O	LEU	61	102.709	45.574	-18.835	1.00	56.69	TS20	ATOM	17961	C	SER	69	108.776	49.528	-11.613	1.00	36.97	TS21
ATOM	17909	N	ILE	62	102.261	46.314	-20.911	1.00	56.46	TS20	ATOM	17962	O	SER	69	109.981	49.506	-11.442	1.00	36.97	TS21
ATOM	17910	CA	ILE	62	102.941	47.576	-20.700	1.00	56.46	TS20	ATOM	17963	N	THR	70	108.204	48.944	-12.654	1.00	61.23	TS21
ATOM	17911	CB	ILE	62	103.646	49.764	-21.717	1.00	27.70	TS20	ATOM	17964	CA	THR	70	109.032	48.263	-13.637	1.00	61.23	TS21
ATOM	17912	CG2	ILE	62	103.646	49.764	-21.717	1.00	27.70	TS20	ATOM	17965	CB	THR	70	108.341	47.018	-14.232	1.00	55.65	TS21
ATOM	17913	CG1	ILE	62	103.742	47.658	-23.069	1.00	27.70	TS20	ATOM	17966	OG1	THR	70	108.232	46.006	-13.227	1.00	55.65	TS21
ATOM	17914	CD1	ILE	62	103.306	48.429	-24.371	1.00	27.70	TS20	ATOM	17967	CG2	THR	70	109.139	46.476	-15.418	1.00	55.65	TS21
ATOM	17915	C	ILE	62	102.306	48.390	-19.579	1.00	56.46	TS20	ATOM	17968	C	THR	70	109.321	49.200	-14.781	1.00	61.23	TS21
ATOM	17916	O	ILE	62	102.969	48.716	-18.589	1.00	56.46	TS20	ATOM	17969	O	THR	70	110.385	49.807	-14.853	1.00	61.23	TS21
ATOM	17917	N	ASP	63	101.024	48.714	-19.714	1.00	52.73	TS20	ATOM	17970	N	LEU	71	108.336	49.312	-15.663	1.00	62.43	TS21
ATOM	17918	CA	ASP	63	100.386	49.507	-18.673	1.00	52.73	TS20	ATOM	17971	CA	LEU	71	108.407	50.128	-16.858	1.00	62.43	TS21
ATOM	17919	CB	ASP	63	98.928	49.780	-19.016	1.00	83.43	TS20	ATOM	17972	CB	LEU	71	107.745	49.351	-17.986	1.00	43.13	TS21
ATOM	17920	CG	ASP	63	98.748	51.091	-19.750	1.00	83.43	TS20	ATOM	17973	CG	LEU	71	107.781	49.672	-19.477	1.00	43.13	TS21
ATOM	17921	OD1	ASP	63	99.310	52.116	-19.293	1.00	83.43	TS20	ATOM	17974	CD1	LEU	71	106.542	50.448	-19.857	1.00	43.13	TS21
ATOM	17922	OD2	ASP	63	98.040	51.099	-20.776	1.00	83.43	TS20	ATOM	17975	CD2	LEU	71	109.061	50.386	-19.834	1.00	43.13	TS21
ATOM	17923	C	ASP	63	100.500	48.875	-17.292	1.00	52.73	TS20	ATOM	17976	C	LEU	71	107.668	51.417	-16.589	1.00	62.43	TS21
ATOM	17924	O	ASP	63	100.539	49.583	-16.281	1.00	52.73	TS20	ATOM	17977	C	LEU	71	107.159	52.049	-17.502	1.00	62.43	TS21
ATOM	17925	N	LVS	64	100.556	47.546	-17.253	1.00	53.11	TS20	ATOM	17978	N	LVS	72	107.629	51.806	-15.321	1.00	46.42	TS21
ATOM	17926	CA	LVS	64	100.694	46.829	-15.997	1.00	53.11	TS20	ATOM	17979	CA	HIS	72	106.932	53.012	-14.879	1.00	46.42	TS21
ATOM	17927	CB	LVS	64	100.413	45.347	-16.181	1.00	59.94	TS20	ATOM	17980	CB	HIS	72	107.584	53.485	-13.553	1.00	101.03	TS21
ATOM	17928	CG	LVS	64	98.980	45.033	-16.489	1.00	59.94	TS20	ATOM	17981	CG	HIS	72	106.582	53.389	-12.398	1.00	101.03	TS21
ATOM	17929	CD	LVS	64	98.745	43.545	-16.469	1.00	59.94	TS20	ATOM	17982	CD2	HIS	72	106.334	54.240	-11.376	1.00	101.03	TS21
ATOM	17930	CE	LVS	64	97.263	43.242	-16.506	1.00	59.94	TS20	ATOM	17983	CD1	HIS	72	105.762	52.301	-12.201	1.00	101.03	TS21
ATOM	17931	NZ	LVS	64	97.007	41.777	-16.349	1.00	59.94	TS20	ATOM	17984	CE1	HIS	72	105.045	52.488	-11.108	1.00	101.03	TS21
ATOM	17932	C	LVS	64	102.126	47.006	-15.571	1.00	53.11	TS20	ATOM	17985	NZ2	HIS	72	105.372	53.656	-10.589	1.00	101.03	TS21

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ATOM	17986	C	HIS	72	106.763	54.214	-15.828	1.00	46.42	TS20	ATOM	18039	NH2	ARG	79	111.261	49.950	-21.816	1.00	68.06	TS20
ATOM	17987	O	HIS	72	107.726	54.730	-16.399	1.00	46.42	TS20	ATOM	18040	C	ARG	79	104.814	51.898	-26.426	1.00	59.58	TS20
ATOM	17988	N	LYS	73	105.490	54.620	-15.935	1.00	96.88	TS20	ATOM	18041	O	ARG	79	104.813	51.453	-27.578	1.00	59.58	TS20
ATOM	17989	CA	LYS	73	104.928	55.727	-16.720	1.00	96.88	TS20	ATOM	18042	N	LYS	80	103.713	52.276	-25.793	1.00	60.73	TS20
ATOM	17990	CB	LYS	73	104.191	56.679	-15.783	1.00	84.37	TS20	ATOM	18043	CA	LYS	80	102.422	52.163	-26.436	1.00	60.73	TS20
ATOM	17991	CG	LYS	73	102.709	56.795	-16.055	1.00	84.37	TS20	ATOM	18044	CB	LYS	80	101.325	52.617	-25.472	1.00	63.10	TS20
ATOM	17992	CD	LYS	73	102.440	57.238	-17.490	1.00	84.37	TS20	ATOM	18045	CG	LYS	80	101.239	51.716	-24.241	1.00	63.10	TS20
ATOM	17993	CE	LYS	73	102.297	56.064	-18.467	1.00	84.37	TS20	ATOM	18046	CD	LYS	80	100.428	52.328	-23.121	1.00	63.10	TS20
ATOM	17994	NZ	LYS	73	100.967	55.362	-18.360	1.00	84.37	TS20	ATOM	18047	CE	LYS	80	98.982	52.493	-23.512	1.00	63.10	TS20
ATOM	17995	C	LYS	73	105.818	56.546	-17.629	1.00	96.88	TS20	ATOM	18048	NZ	LYS	80	98.226	53.154	-22.414	1.00	63.10	TS20
ATOM	17996	CA	LYS	73	106.982	56.785	-17.314	1.00	96.88	TS20	ATOM	18049	C	LYS	80	102.344	52.910	-27.760	1.00	60.73	TS20
ATOM	17997	N	ASN	74	105.223	57.025	-18.728	1.00	49.96	TS20	ATOM	18050	O	LYS	80	102.077	52.294	-28.789	1.00	60.73	TS20
ATOM	17998	CA	ASN	74	105.912	57.810	-19.771	1.00	49.96	TS20	ATOM	18051	N	SER	81	102.589	54.217	-27.761	1.00	54.41	TS20
ATOM	17999	CB	ASN	74	106.934	58.790	-19.182	1.00	56.24	TS20	ATOM	18052	CA	SER	81	102.520	54.956	-29.021	1.00	54.41	TS20
ATOM	18000	CG	ASN	74	106.287	60.007	-18.522	1.00	56.24	TS20	ATOM	18053	CB	SER	81	102.821	56.431	-28.795	1.00	46.30	TS20
ATOM	18001	OD1	ASN	74	105.330	59.886	-17.770	1.00	56.24	TS20	ATOM	18054	OG	SER	81	103.951	56.563	-27.971	1.00	54.41	TS20
ATOM	18002	ND2	ASN	74	106.834	61.187	-18.791	1.00	56.24	TS20	ATOM	18055	C	SER	81	103.458	54.390	-30.095	1.00	54.41	TS20
ATOM	18003	C	ASN	74	106.630	56.736	-20.572	1.00	49.96	TS20	ATOM	18056	O	SER	81	103.009	54.084	-31.196	1.00	43.51	TS20
ATOM	18004	O	ALA	75	106.504	56.650	-21.803	1.00	49.96	TS20	ATOM	18057	N	ARG	82	104.749	54.253	-29.785	1.00	43.51	TS20
ATOM	18005	N	ALA	75	107.378	55.908	-19.841	1.00	40.54	TS20	ATOM	18058	CA	ARG	82	105.712	53.700	-30.744	1.00	43.51	TS20
ATOM	18006	CA	ALA	75	108.094	54.776	-20.414	1.00	40.54	TS20	ATOM	18059	CB	ARG	82	107.073	53.476	-30.076	1.00	122.48	TS20
ATOM	18007	CB	ALA	75	108.790	53.999	-19.325	1.00	48.91	TS20	ATOM	18060	CG	ARG	82	107.861	54.750	-29.841	1.00	122.48	TS20
ATOM	18008	C	ALA	75	106.974	53.954	-20.997	1.00	40.54	TS20	ATOM	18061	CD	ARG	82	109.135	54.505	-29.042	1.00	122.48	TS20
ATOM	18009	O	ALA	75	107.060	53.474	-22.117	1.00	40.54	TS20	ATOM	18062	NE	ARG	82	109.950	55.716	-28.952	1.00	122.48	TS20
ATOM	18010	N	ALA	76	105.908	53.826	-20.212	1.00	37.90	TS20	ATOM	18063	CZ	ARG	82	111.020	55.855	-28.174	1.00	122.48	TS20
ATOM	18011	CA	ALA	76	104.732	53.083	-20.627	1.00	37.90	TS20	ATOM	18064	NH1	ARG	82	111.419	54.854	-27.398	1.00	122.48	TS20
ATOM	18012	CB	ALA	76	103.714	53.062	-19.502	1.00	104.16	TS20	ATOM	18065	NH2	ARG	82	111.699	56.997	-28.179	1.00	122.48	TS20
ATOM	18013	C	ALA	76	104.141	53.761	-21.856	1.00	37.90	TS20	ATOM	18066	C	ARG	82	105.201	52.372	-31.308	1.00	43.51	TS20
ATOM	18014	O	ALA	76	103.946	53.133	-22.907	1.00	37.90	TS20	ATOM	18067	N	LEU	83	105.542	51.993	-32.430	1.00	43.51	TS20
ATOM	18015	N	ALA	77	103.867	55.055	-21.711	1.00	55.83	TS20	ATOM	18068	CA	LEU	83	104.364	51.685	-30.527	1.00	51.89	TS20
ATOM	18016	CA	ALA	77	103.293	55.851	-22.785	1.00	55.83	TS20	ATOM	18069	CB	LEU	83	103.793	50.390	-30.912	1.00	51.89	TS20
ATOM	18017	CB	ALA	77	103.205	57.302	-22.352	1.00	31.41	TS20	ATOM	18070	CG	LEU	83	103.416	49.597	-29.650	1.00	41.88	TS20
ATOM	18018	C	ALA	77	104.095	55.730	-24.079	1.00	55.83	TS20	ATOM	18071	CG	LEU	83	103.339	48.060	-29.670	1.00	41.88	TS20
ATOM	18019	O	ALA	77	103.515	55.482	-25.145	1.00	55.83	TS20	ATOM	18072	CD1	LEU	83	102.177	47.662	-28.793	1.00	41.88	TS20
ATOM	18020	N	ARG	78	105.419	55.903	-23.985	1.00	44.28	TS20	ATOM	18073	CD2	LEU	83	103.139	47.494	-31.076	1.00	41.88	TS20
ATOM	18021	CA	ARG	78	106.286	55.798	-25.160	1.00	44.28	TS20	ATOM	18074	C	LEU	83	102.563	50.526	-31.822	1.00	51.89	TS20
ATOM	18022	CB	ARG	78	107.765	55.872	-24.789	1.00	70.84	TS20	ATOM	18075	O	LEU	83	102.533	49.963	-32.914	1.00	51.89	TS20
ATOM	18023	CG	ARG	78	108.285	57.213	-24.335	1.00	70.84	TS20	ATOM	18076	N	MET	84	101.550	51.256	-31.357	1.00	76.93	TS20
ATOM	18024	CD	ARG	78	109.749	57.342	-24.725	1.00	70.84	TS20	ATOM	18077	CA	MET	84	100.322	51.473	-32.130	1.00	76.93	TS20
ATOM	18025	NE	ARG	78	110.437	56.049	-24.707	1.00	70.84	TS20	ATOM	18078	CB	MET	84	99.299	52.253	-31.294	1.00	69.87	TS20
ATOM	18026	CZ	ARG	78	110.949	55.467	-23.621	1.00	70.84	TS20	ATOM	18079	CG	MET	84	98.660	51.435	-30.185	1.00	69.87	TS20
ATOM	18027	NH1	ARG	78	110.867	56.056	-22.425	1.00	70.84	TS20	ATOM	18080	SD	MET	84	97.753	52.417	-28.976	1.00	69.87	TS20
ATOM	18028	NH2	ARG	78	111.551	54.284	-23.737	1.00	70.84	TS20	ATOM	18081	CE	MET	84	96.344	52.871	-29.913	1.00	69.87	TS20
ATOM	18029	C	ARG	78	106.064	54.470	-25.858	1.00	44.28	TS20	ATOM	18082	C	MET	84	100.646	52.239	-33.412	1.00	76.93	TS20
ATOM	18030	O	ARG	78	105.734	54.429	-27.039	1.00	44.28	TS20	ATOM	18083	O	MET	84	99.929	52.153	-34.413	1.00	76.93	TS20
ATOM	18031	N	ARG	79	106.257	53.386	-25.111	1.00	59.58	TS20	ATOM	18084	N	ARG	85	101.738	52.993	-33.358	1.00	80.26	TS20
ATOM	18032	CA	ARG	79	106.103	52.039	-25.643	1.00	59.58	TS20	ATOM	18085	CA	ARG	85	102.215	53.763	-34.494	1.00	80.26	TS20
ATOM	18033	CB	ARG	79	106.087	51.023	-24.513	1.00	68.06	TS20	ATOM	18086	CB	ARG	85	103.427	54.595	-34.072	1.00	112.51	TS20
ATOM	18034	CG	ARG	79	107.223	51.151	-23.532	1.00	68.06	TS20	ATOM	18087	CG	ARG	85	103.528	55.961	-34.702	1.00	112.51	TS20
ATOM	18035	CD	ARG	79	108.528	50.726	-24.121	1.00	68.06	TS20	ATOM	18088	NE	ARG	85	102.923	57.007	-33.798	1.00	112.51	TS20
ATOM	18036	NE	ARG	79	109.580	50.812	-23.121	1.00	68.06	TS20	ATOM	18089	CD	ARG	85	103.060	58.342	-34.368	1.00	112.51	TS20
ATOM	18037	CZ	ARG	79	110.315	49.779	-22.732	1.00	68.06	TS20	ATOM	18090	CZ	ARG	85	102.582	59.449	-33.807	1.00	112.51	TS20
ATOM	18038	NH1	ARG	79	110.107	48.577	-23.263	1.00	68.06	TS20	ATOM	18091	NH1	ARG	85	101.934	59.381	-32.654	1.00	112.51	TS20

ATOM	18092	NH2 ARG	85	102.748	60.625	-34.399	1.00112.51	TS20	18145	C	LEU	91	98.423	48.402	-43.064	1.00	78.38	TS2
ATOM	18093	C ARG	85	102.649	52.719	-35.528	1.00	80.26	18146	O	LEU	91	97.461	47.959	-43.697	1.00	78.38	TS2
ATOM	18094	CH ARG	85	101.972	52.496	-36.536	1.00	80.26	18147	N	GLU	92	99.107	49.487	-43.436	1.00	71.93	TS2
ATOM	18095	N LYS	86	103.776	52.067	-35.246	1.00	54.02	18148	CA	GLU	92	98.816	50.216	-44.674	1.00	71.93	TS2
ATOM	18096	CA LYS	86	104.324	51.048	-36.126	1.00	54.02	18149	CB	GLU	92	99.382	51.636	-44.622	1.00	107.69	TS2
ATOM	18097	CB LYS	86	105.382	50.229	-35.382	1.00	88.60	18150	CG	GLU	92	98.968	52.420	-43.392	1.00	107.69	TS2
ATOM	18098	CG LYS	86	106.617	51.016	-35.004	1.00	88.60	18151	CD	GLU	92	97.498	52.784	-43.387	1.00	107.69	TS2
ATOM	18099	CD LYS	86	107.489	50.270	-33.990	1.00	88.60	18152	OE1	GLU	92	97.130	53.787	-44.040	1.00	107.69	TS2
ATOM	18100	CE LYS	86	108.567	51.198	-33.395	1.00	88.60	18153	OE2	GLU	92	96.711	52.064	-42.734	1.00	107.69	TS2
ATOM	18101	NE LYS	86	109.296	50.628	-32.219	1.00	88.60	18154	C	GLU	92	99.564	49.407	-45.727	1.00	71.93	TS2
ATOM	18102	N LYS	86	103.275	50.103	-36.705	1.00	54.02	18155	O	GLU	92	100.569	49.846	-46.284	1.00	71.93	TS2
ATOM	18103	O LYS	86	103.382	49.697	-37.864	1.00	54.02	18156	N	ALA	93	99.071	48.196	-45.950	1.00	76.86	TS2
ATOM	18104	CA VAL	87	102.255	49.759	-35.922	1.00	65.62	18157	CA	ALA	93	99.658	47.268	-46.899	1.00	76.86	TS2
ATOM	18105	CA VAL	87	101.245	48.820	-36.404	1.00	65.62	18158	CB	ALA	93	100.558	46.281	-46.162	1.00	48.07	TS2
ATOM	18106	CB VAL	87	100.457	48.190	-35.241	1.00	63.47	18159	C	ALA	93	98.514	46.528	-47.565	1.00	76.86	TS2
ATOM	18107	CG1 VAL	87	99.349	47.298	-35.788	1.00	63.47	18160	O	ALA	93	98.709	45.448	-48.118	1.00	76.86	TS2
ATOM	18108	CG2 VAL	87	101.402	47.366	-34.365	1.00	63.47	18161	N	ALA	94	97.327	47.130	-47.488	1.00	99.64	TS2
ATOM	18109	C VAL	87	100.261	49.341	-37.442	1.00	65.62	18162	CA	ALA	94	96.080	46.590	-48.041	1.00	99.64	TS2
ATOM	18110	O VAL	87	99.949	48.627	-38.398	1.00	65.62	18163	CB	ALA	94	96.355	45.521	-49.104	1.00	81.27	TS2
ATOM	18111	N ARG	88	99.758	50.559	-37.270	1.00	77.83	18164	C	ALA	94	95.270	45.985	-46.909	1.00	99.64	TS2
ATOM	18112	CA ARG	88	98.830	51.098	-38.262	1.00	77.83	18165	O	ALA	94	94.312	45.247	-47.141	1.00	99.64	TS2
ATOM	18113	CB ARG	88	98.341	52.491	-37.888	1.00	55.73	18166	N	GLY	95	95.658	46.309	-45.681	1.00	89.18	TS2
ATOM	18114	CG ARG	88	96.994	52.503	-37.255	1.00	55.73	18167	CA	GLY	95	94.973	45.761	-44.529	1.00	89.18	TS2
ATOM	18115	CD ARG	88	96.313	53.843	-37.374	1.00	55.73	18168	C	GLY	95	94.043	46.716	-43.826	1.00	89.18	TS2
ATOM	18116	NE ARG	88	95.137	53.853	-36.517	1.00	55.73	18169	O	GLY	95	94.399	47.857	-43.540	1.00	89.18	TS2
ATOM	18117	C2 ARG	88	94.183	54.772	-36.544	1.00	55.73	18170	N	ALA	96	92.840	46.236	-43.547	1.00	80.83	TS2
ATOM	18118	NH1 ARG	88	94.257	55.775	-37.401	1.00	55.73	18171	CA	ALA	96	91.841	47.028	-42.860	1.00	80.83	TS2
ATOM	18119	NH2 ARG	88	93.154	54.688	-35.710	1.00	55.73	18172	CB	ALA	96	90.508	46.798	-43.498	1.00	17.29	TS2
ATOM	18120	C ARG	88	99.549	51.207	-39.586	1.00	77.83	18173	C	ALA	96	91.823	46.565	-41.407	1.00	80.83	TS2
ATOM	18121	O ARG	88	99.158	50.604	-40.583	1.00	77.83	18174	O	ALA	96	91.676	45.371	-41.144	1.00	80.83	TS2
ATOM	18122	N GLN	89	100.613	51.997	-39.572	1.00	87.23	18175	N	PRO	97	91.967	47.500	-40.443	1.00	159.43	TS2
ATOM	18123	CA GLN	89	101.421	52.235	-40.739	1.00	87.23	18176	CD	PRO	97	91.967	48.967	-40.594	1.00	78.37	TS2
ATOM	18124	CB GLN	89	102.705	52.941	-40.330	1.00	95.86	18177	CA	PRO	97	91.967	47.133	-39.021	1.00	159.43	TS2
ATOM	18125	CG GLN	89	102.473	53.880	-40.156	1.00	95.86	18178	CB	PRO	97	92.230	48.469	-38.317	1.00	78.37	TS2
ATOM	18126	CD GLN	89	103.647	54.785	-38.883	1.00	95.86	18179	CG	PRO	97	91.552	49.440	-39.201	1.00	78.37	TS2
ATOM	18127	OE1 GLN	89	104.785	54.465	-39.235	1.00	95.86	18180	C	PRO	97	90.673	46.469	-38.559	1.00	159.43	TS2
ATOM	18128	NE2 GLN	89	103.384	55.921	-38.238	1.00	95.86	18181	O	PRO	97	89.781	47.128	-38.024	1.00	159.43	TS2
ATOM	18129	C GLN	89	101.720	50.930	-41.475	1.00	87.23	18182	N	LEU	98	90.588	45.158	-38.769	1.00	113.38	TS2
ATOM	18130	O GLN	89	101.483	50.818	-42.674	1.00	87.23	18183	CA	LEU	98	89.419	44.375	-38.383	1.00	113.38	TS2
ATOM	18131	N LEU	90	102.227	49.938	-40.752	1.00	64.54	18184	CB	LEU	98	89.663	42.889	-38.657	1.00	77.63	TS2
ATOM	18132	CA LEU	90	102.536	48.650	-41.360	1.00	64.54	18185	CG	LEU	98	89.989	42.470	-40.092	1.00	77.63	TS2
ATOM	18133	CB LEU	90	103.202	47.741	-40.335	1.00	50.72	18186	CD1	LEU	98	90.294	40.979	-40.139	1.00	77.63	TS2
ATOM	18134	CG LEU	90	104.705	47.972	-40.253	1.00	50.72	18187	CD2	LEU	98	88.817	42.812	-40.995	1.00	77.63	TS2
ATOM	18135	CD1 LEU	90	105.237	47.526	-38.918	1.00	50.72	18188	C	LEU	98	89.104	44.560	-36.904	1.00	113.38	TS2
ATOM	18136	CD2 LEU	90	105.377	47.222	-41.388	1.00	50.72	18189	O	LEU	98	88.283	45.400	-36.529	1.00	113.38	TS2
ATOM	18137	C LEU	90	101.286	47.987	-41.919	1.00	64.54	18190	N	ILE	99	89.767	43.761	-36.072	1.00	69.52	TS2
ATOM	18138	O LEU	90	101.355	47.221	-42.880	1.00	64.54	18191	CA	ILE	99	89.587	43.804	-34.623	1.00	69.52	TS2
ATOM	18139	N LEU	91	100.141	48.285	-41.315	1.00	78.38	18192	CB	ILE	99	90.739	43.060	-33.898	1.00	179.42	TS2
ATOM	18140	CA LEU	91	98.885	47.720	-41.779	1.00	78.38	18193	CG2	ILE	99	90.643	43.273	-32.394	1.00	179.42	TS2
ATOM	18141	CB LEU	91	97.816	47.826	-40.688	1.00	55.45	18194	CG1	ILE	99	90.685	41.569	-34.233	1.00	179.42	TS2
ATOM	18142	CG LEU	91	97.903	46.729	-39.620	1.00	55.45	18195	CD1	ILE	99	91.780	40.757	-33.592	1.00	179.42	TS2
ATOM	18143	CD1 LEU	91	97.015	47.062	-38.431	1.00	55.45	18196	C	ILE	99	89.527	45.233	-34.098	1.00	69.52	TS2
ATOM	18144	CD2 LEU	91	97.499	45.396	-40.236	1.00	55.45	18197	O	ILE	99	88.900	45.504	-33.070	1.00	69.52	TS2

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ATOM	18198	N	GLY	100	90.186	46.140	-34.812	1.00171.57	TS20	ATOM	18251	O	ILE	6	143.079	100.587	-25.619	1.00	41.63	LS1	
ATOM	18199	CA	GLY	100	90.211	47.529	-34.404	1.00171.57	TS20	ATOM	18252	N	ASN	7	143.022	101.781	-27.511	1.00	39.71	LS1	
ATOM	18200	C	GLY	100	90.446	47.615	-32.914	1.00171.57	TS20	ATOM	18253	CA	ASN	7	142.719	100.615	-28.320	1.00	39.71	LS1	
ATOM	18201	O	GLY	100	90.011	48.564	-32.272	1.00171.57	TS20	ATOM	18254	CB	ASN	7	142.525	101.010	-29.777	1.00	40.66	LS1	
ATOM	18202	N	GLY	101	91.127	46.609	-32.370	1.00105.37	TS20	ATOM	18255	CG	ASN	7	142.067	99.851	-30.629	1.00	40.66	LS1	
ATOM	18203	CA	GLY	101	91.408	46.577	-30.950	1.00105.37	TS20	ATOM	18256	OD1	ASN	7	141.047	99.236	-30.348	1.00	40.66	LS1	
ATOM	18204	C	GLY	101	91.994	47.887	-30.474	1.00105.37	TS20	ATOM	18257	ND2	ASN	7	142.820	99.544	-31.676	1.00	40.66	LS1	
ATOM	18205	O	GLY	101	91.300	48.900	-30.399	1.00105.37	TS20	ATOM	18258	C	ASN	7	143.829	99.564	-28.219	1.00	39.71	LS1	
ATOM	18206	N	GLY	102	93.277	47.875	-30.141	1.00143.42	TS20	ATOM	18259	O	ASN	7	143.555	98.358	-28.266	1.00	39.71	LS1	
ATOM	18207	CA	GLY	102	93.916	49.092	-29.685	1.00143.42	TS20	ATOM	18260	N	GLN	8	145.077	100.011	-28.087	1.00	29.77	LS1	
ATOM	18208	C	GLY	102	94.100	50.050	-30.842	1.00143.42	TS20	ATOM	18261	CA	GLN	8	146.188	99.074	-27.970	1.00	29.77	LS1	
ATOM	18209	O	GLY	102	95.225	50.427	-31.163	1.00143.42	TS20	ATOM	18262	CB	GLN	8	147.537	99.796	-27.996	1.00	31.07	LS1	
ATOM	18210	N	LEU	103	92.997	50.433	-31.480	1.00	70.84	TS20	ATOM	18263	CG	GLN	8	147.902	100.436	-29.329	1.00	31.07	LS1
ATOM	18211	CA	LEU	103	93.048	51.357	-32.608	1.00	70.84	TS20	ATOM	18264	CD	GLN	8	149.271	101.094	-29.313	1.00	31.07	LS1
ATOM	18212	CB	LEU	103	93.393	50.634	-33.910	1.00	53.36	TS20	ATOM	18265	OE1	GLN	8	149.628	101.817	-28.381	1.00	31.07	LS1
ATOM	18213	CG	LEU	103	94.871	50.376	-34.207	1.00	53.36	TS20	ATOM	18266	NE2	GLN	8	150.039	100.855	-30.359	1.00	31.07	LS1
ATOM	18214	CD1	LEU	103	95.008	49.912	-35.644	1.00	53.36	TS20	ATOM	18267	C	GLN	8	146.046	98.350	-26.650	1.00	29.77	LS1
ATOM	18215	CD2	LEU	103	95.675	51.635	-34.004	1.00	53.36	TS20	ATOM	18268	O	GLN	8	146.206	97.141	-26.573	1.00	29.77	LS1
ATOM	18216	C	LEU	103	91.763	52.119	-32.820	1.00	70.84	TS20	ATOM	18269	N	LEU	9	145.748	99.107	-25.602	1.00	30.19	LS1
ATOM	18217	O	LEU	103	90.783	51.577	-33.319	1.00	70.84	TS20	ATOM	18270	CA	LEU	9	145.585	98.546	-24.271	1.00	30.19	LS1
ATOM	18218	N	SER	104	91.780	53.387	-32.437	1.00	77.28	TS20	ATOM	18271	CB	LEU	9	145.200	99.633	-23.276	1.00	39.15	LS1
ATOM	18219	CA	SER	104	90.628	54.255	-32.599	1.00	77.28	TS20	ATOM	18272	CG	LEU	9	146.365	100.376	-22.639	1.00	39.15	LS1
ATOM	18220	CB	SER	104	90.857	55.558	-31.828	1.00	74.96	TS20	ATOM	18273	CD1	LEU	9	145.875	101.562	-21.828	1.00	39.15	LS1
ATOM	18221	OG	SER	104	90.074	56.611	-32.344	1.00	74.96	TS20	ATOM	18274	CD2	LEU	9	147.113	99.397	-21.759	1.00	39.15	LS1
ATOM	18222	C	SER	104	90.476	54.539	-34.085	1.00	77.28	TS20	ATOM	18275	C	LEU	9	144.512	97.505	-24.305	1.00	30.19	LS1
ATOM	18223	O	SER	104	90.950	55.556	-34.582	1.00	77.28	TS20	ATOM	18276	O	LEU	9	144.613	96.488	-23.654	1.00	30.19	LS1
ATOM	18224	N	ALA	105	89.828	53.625	-34.796	1.00	94.56	TS20	ATOM	18277	N	VAL	10	143.469	97.761	-25.072	1.00	38.76	LS1
ATOM	18225	CA	ALA	105	89.629	53.786	-36.231	1.00	94.56	TS20	ATOM	18278	CA	VAL	10	142.390	96.800	-25.155	1.00	38.76	LS1
ATOM	18226	CB	ALA	105	88.837	52.609	-36.787	1.00	48.02	TS20	ATOM	18279	CB	VAL	10	141.202	97.330	-25.950	1.00	19.26	LS1
ATOM	18227	C	ALA	105	88.906	55.092	-36.518	1.00	94.56	TS20	ATOM	18280	CG1	VAL	10	140.150	96.256	-26.023	1.00	19.26	LS1
ATOM	18228	O	ALA	105	89.294	55.772	-37.492	1.00	94.56	TS20	ATOM	18281	CG2	VAL	10	140.637	98.571	-25.284	1.00	19.26	LS1
ATOM	18229	OXT	ALA	105	87.958	55.410	-35.766	1.00	76.99	TS20	ATOM	18282	C	VAL	10	142.861	95.534	-25.831	1.00	38.76	LS1
ATOM	18230	CB	PRO	4	149.970	101.492	-24.869	1.00	15.33	LS12	ATOM	18283	O	VAL	10	142.369	94.457	-25.530	1.00	38.76	LS1
ATOM	18231	CG	PRO	4	150.849	101.711	-23.638	1.00	15.33	LS12	ATOM	18284	N	ARG	11	143.810	95.668	-26.750	1.00	42.89	LS1
ATOM	18232	C	PRO	4	148.685	103.438	-25.721	1.00	27.29	LS12	ATOM	18285	CA	ARG	11	144.328	94.518	-27.471	1.00	42.89	LS1
ATOM	18233	O	PRO	4	148.189	103.979	-24.725	1.00	27.29	LS12	ATOM	18286	CB	ARG	11	144.955	94.944	-28.792	1.00	44.71	LS1
ATOM	18234	N	PRO	4	150.884	103.727	-24.818	1.00	27.29	LS12	ATOM	18287	CG	ARG	11	143.952	95.249	-29.886	1.00	44.71	LS1
ATOM	18235	CD	PRO	4	150.958	103.219	-23.442	1.00	15.33	LS12	ATOM	18288	CD	ARG	11	144.642	95.339	-31.244	1.00	44.71	LS1
ATOM	18236	CA	PRO	4	150.065	102.811	-25.625	1.00	27.29	LS12	ATOM	18289	NE	ARG	11	145.537	96.487	-31.310	1.00	44.71	LS1
ATOM	18237	N	THR	5	148.070	103.357	-26.904	1.00	25.99	LS12	ATOM	18290	CZ	ARG	11	146.753	96.467	-31.845	1.00	44.71	LS1
ATOM	18238	CA	THR	5	146.738	103.914	-27.123	1.00	25.99	LS12	ATOM	18291	NH1	ARG	11	147.235	95.353	-32.368	1.00	44.71	LS1
ATOM	18239	CB	THR	5	146.337	103.873	-28.591	1.00	33.61	LS12	ATOM	18292	NH2	ARG	11	147.492	97.565	-31.849	1.00	44.71	LS1
ATOM	18240	OG1	THR	5	145.969	102.536	-28.935	1.00	33.61	LS12	ATOM	18293	C	ARG	11	145.343	93.735	-26.669	1.00	42.89	LS1
ATOM	18241	CG2	THR	5	147.475	104.310	-29.471	1.00	33.61	LS12	ATOM	18294	O	ARG	11	145.106	92.588	-26.322	1.00	42.89	LS1
ATOM	18242	C	THR	5	145.712	103.085	-26.364	1.00	25.99	LS12	ATOM	18295	N	LYS	12	146.473	94.356	-26.365	1.00	36.57	LS1
ATOM	18243	O	THR	5	145.980	101.943	-25.994	1.00	25.99	LS12	ATOM	18296	CA	LYS	12	147.524	93.686	-25.619	1.00	36.57	LS1
ATOM	18244	N	ILE	6	144.536	103.657	-26.126	1.00	41.63	LS12	ATOM	18297	CB	LYS	12	148.870	94.191	-26.122	1.00	68.41	LS1
ATOM	18245	CA	ILE	6	143.501	102.921	-25.420	1.00	41.63	LS12	ATOM	18298	CG	LYS	12	148.939	94.062	-27.624	1.00	68.41	LS1
ATOM	18246	CB	ILE	6	142.221	103.776	-25.230	1.00	18.65	LS12	ATOM	18299	CD	LYS	12	150.190	94.632	-28.234	1.00	68.41	LS1
ATOM	18247	CG2	ILE	6	140.980	102.888	-25.079	1.00	18.65	LS12	ATOM	18300	CE	LYS	12	150.148	94.434	-29.750	1.00	68.41	LS1
ATOM	18248	CG1	ILE	6	142.380	104.636	-23.984	1.00	18.65	LS12	ATOM	18301	NZ	LYS	12	151.364	94.952	-30.458	1.00	68.41	LS1
ATOM	18249	CD1	ILE	6	142.478	103.835	-22.722	1.00	18.65	LS12	ATOM	18302	C	LYS	12	147.384	93.845	-24.108	1.00	36.57	LS1
ATOM	18250	C	ILE	6	143.176	101.660	-26.198	1.00	41.63	LS12	ATOM	18303	O	LYS	12	147.628	92.912	-23.359	1.00	36.57	LS1

ATOM	18304	N	GLY	13	146.992	95.016	-23.640	1.00	34.85	LS12	ATOM	18357	CB	LVS	19	157.700	88.512	-6.836	1.00	137.71	LS12
ATOM	18305	CA	GLY	13	146.832	95.168	-22.205	1.00	34.85	LS12	ATOM	18358	CG	LVS	19	157.017	89.871	-6.770	1.00	137.71	LS12
ATOM	18306	CD	GLY	13	148.119	95.083	-21.419	1.00	34.85	LS12	ATOM	18359	CD	LVS	19	156.495	90.161	-5.364	1.00	137.71	LS12
ATOM	18307	O	GLY	13	149.146	94.672	-21.946	1.00	34.85	LS12	ATOM	18360	CE	LVS	19	155.766	91.496	-5.296	1.00	137.71	LS12
ATOM	18308	N	ARG	14	148.060	95.475	-20.149	1.00	40.23	LS12	ATOM	18361	NZ	LVS	19	155.284	91.789	-3.917	1.00	137.71	LS12
ATOM	18309	CA	ARG	14	149.238	95.460	-19.288	1.00	40.23	LS12	ATOM	18362	C	LVS	19	158.911	86.768	-8.159	1.00	67.79	LS12
ATOM	18310	CB	ARG	14	149.018	96.377	-18.094	1.00	50.14	LS12	ATOM	18363	O	LVS	19	158.262	85.721	-8.093	1.00	67.79	LS12
ATOM	18311	CG	ARG	14	148.696	97.805	-18.486	1.00	50.14	LS12	ATOM	18364	N	LVS	20	160.242	86.787	-8.192	1.00	68.17	LS12
ATOM	18312	CD	ARG	14	149.831	98.454	-19.250	1.00	50.14	LS12	ATOM	18365	CA	LVS	20	161.021	85.551	-8.109	1.00	68.17	LS12
ATOM	18313	NE	ARG	14	149.580	99.874	-19.494	1.00	50.14	LS12	ATOM	18366	CB	LVS	20	162.352	85.676	-8.857	1.00	137.76	LS12
ATOM	18314	CG	ARG	14	150.468	100.725	-20.007	1.00	50.14	LS12	ATOM	18367	CG	LVS	20	162.251	86.086	-10.313	1.00	137.76	LS12
ATOM	18315	NH1	ARG	14	151.687	100.307	-20.338	1.00	50.14	LS12	ATOM	18368	CD	LVS	20	163.640	86.297	-10.899	1.00	137.76	LS12
ATOM	18316	NH2	ARG	14	150.136	101.997	-20.192	1.00	50.14	LS12	ATOM	18369	CE	LVS	20	163.584	86.854	-12.314	1.00	137.76	LS12
ATOM	18317	C	ARG	14	149.594	94.062	-18.809	1.00	40.23	LS12	ATOM	18370	NZ	LVS	20	164.953	87.081	-12.866	1.00	137.76	LS12
ATOM	18318	O	ARG	14	148.723	93.216	-18.653	1.00	40.23	LS12	ATOM	18371	C	LVS	20	161.321	85.377	-6.637	1.00	68.17	LS12
ATOM	18319	N	GLU	15	150.884	93.826	-18.596	1.00	32.37	LS12	ATOM	18372	O	LVS	20	161.608	86.354	-5.949	1.00	68.17	LS12
ATOM	18320	CA	GLU	15	151.383	92.537	-18.139	1.00	32.37	LS12	ATOM	18373	N	SER	21	161.254	84.149	-6.140	1.00	61.79	LS12
ATOM	18321	CB	GLU	15	152.666	92.183	-18.884	1.00	95.49	LS12	ATOM	18374	CA	SER	21	161.547	83.925	-4.730	1.00	61.79	LS12
ATOM	18322	CG	GLU	15	153.630	91.345	-18.080	1.00	95.49	LS12	ATOM	18375	CB	SER	21	161.206	82.502	-4.316	1.00	57.04	LS12
ATOM	18323	CD	GLU	15	154.827	90.911	-18.892	1.00	95.49	LS12	ATOM	18376	OG	SER	21	161.798	82.216	-3.064	1.00	57.04	LS12
ATOM	18324	OE1	GLU	15	155.434	91.772	-19.567	1.00	95.49	LS12	ATOM	18377	C	SER	21	163.020	84.137	-4.489	1.00	61.79	LS12
ATOM	18325	OE2	GLU	15	155.162	89.706	-18.851	1.00	95.49	LS12	ATOM	18378	O	SER	21	163.805	84.160	-5.425	1.00	61.79	LS12
ATOM	18326	C	GLU	15	151.656	92.624	-16.653	1.00	32.37	LS12	ATOM	18379	N	LVS	22	163.404	84.298	-3.236	1.00	47.71	LS12
ATOM	18327	O	GLU	15	152.274	93.584	-16.204	1.00	32.37	LS12	ATOM	18380	CA	LVS	22	164.812	84.459	-2.926	1.00	47.71	LS12
ATOM	18328	N	LVS	16	151.196	91.631	-15.891	1.00	51.13	LS12	ATOM	18381	CB	LVS	22	165.093	85.865	-2.401	1.00	65.81	LS12
ATOM	18329	CA	LVS	16	151.390	91.619	-14.442	1.00	51.13	LS12	ATOM	18382	CG	LVS	22	165.137	86.887	-3.516	1.00	65.81	LS12
ATOM	18330	CB	LVS	16	150.395	90.656	-13.797	1.00	149.90	LS12	ATOM	18383	CD	LVS	22	165.464	88.278	-3.028	1.00	65.81	LS12
ATOM	18331	CG	LVS	16	148.946	91.101	-13.912	1.00	149.90	LS12	ATOM	18384	CE	LVS	22	165.388	89.263	-4.185	1.00	65.81	LS12
ATOM	18332	CD	LVS	16	148.737	92.465	-13.259	1.00	149.90	LS12	ATOM	18385	NZ	LVS	22	165.513	90.698	-3.766	1.00	65.81	LS12
ATOM	18333	CE	LVS	16	147.270	92.860	-13.255	1.00	149.90	LS12	ATOM	18386	C	LVS	22	165.214	83.409	-1.906	1.00	47.71	LS12
ATOM	18334	NZ	LVS	16	146.446	91.887	-12.482	1.00	149.90	LS12	ATOM	18387	O	LVS	22	166.295	83.470	-1.326	1.00	52.82	LS12
ATOM	18335	C	LVS	16	152.812	91.253	-14.025	1.00	51.13	LS12	ATOM	18388	N	VAL	23	164.344	82.424	-1.716	1.00	52.82	LS12
ATOM	18336	O	LVS	16	153.450	90.400	-14.630	1.00	51.13	LS12	ATOM	18389	CA	VAL	23	164.595	81.381	-0.743	1.00	52.82	LS12
ATOM	18337	N	VAL	17	153.305	91.898	-12.978	1.00	85.73	LS12	ATOM	18390	CB	VAL	23	164.114	81.825	0.672	1.00	52.33	LS12
ATOM	18338	CA	VAL	17	154.658	91.638	-12.500	1.00	85.73	LS12	ATOM	18391	CG1	VAL	23	164.127	80.645	1.639	1.00	52.33	LS12
ATOM	18339	CB	VAL	17	155.167	92.819	-11.640	1.00	95.83	LS12	ATOM	18392	CG2	VAL	23	165.015	82.922	1.208	1.00	52.33	LS12
ATOM	18340	CG1	VAL	17	156.498	92.461	-10.990	1.00	95.83	LS12	ATOM	18393	C	VAL	23	163.905	80.074	-1.096	1.00	52.82	LS12
ATOM	18341	CG2	VAL	17	155.308	94.070	-12.509	1.00	95.83	LS12	ATOM	18394	O	VAL	23	162.842	79.775	-0.561	1.00	52.82	LS12
ATOM	18342	C	VAL	17	154.790	90.351	-11.687	1.00	85.73	LS12	ATOM	18395	N	PRO	24	164.465	79.301	-2.044	1.00	55.28	LS12
ATOM	18343	O	VAL	17	154.021	90.116	-10.756	1.00	85.73	LS12	ATOM	18396	CD	PRO	24	165.236	79.795	-3.205	1.00	32.68	LS12
ATOM	18344	N	ARG	18	155.773	89.525	-12.044	1.00	85.72	LS12	ATOM	18397	CA	PRO	24	163.794	78.028	-2.361	1.00	55.28	LS12
ATOM	18345	CA	ARG	18	156.033	88.267	-11.340	1.00	85.72	LS12	ATOM	18398	CB	PRO	24	164.445	77.619	-3.668	1.00	32.68	LS12
ATOM	18346	CB	ARG	18	156.324	87.142	-12.326	1.00	128.41	LS12	ATOM	18399	CG	PRO	24	164.658	76.981	-4.335	1.00	32.68	LS12
ATOM	18347	CG	ARG	18	155.128	86.602	-13.045	1.00	128.41	LS12	ATOM	18400	C	PRO	24	163.923	76.974	-1.236	1.00	55.28	LS12
ATOM	18348	CD	ARG	18	155.561	85.493	-13.970	1.00	128.41	LS12	ATOM	18401	O	PRO	24	164.501	75.891	-1.389	1.00	55.28	LS12
ATOM	18349	NE	ARG	18	154.428	84.888	-14.656	1.00	128.41	LS12	ATOM	18402	N	ALA	25	163.367	77.350	-0.086	1.00	97.40	LS12
ATOM	18350	CZ	ARG	18	154.539	83.974	-15.613	1.00	128.41	LS12	ATOM	18403	CA	ALA	25	163.304	76.513	1.104	1.00	97.40	LS12
ATOM	18351	NH1	ARG	18	155.739	83.561	-15.998	1.00	128.41	LS12	ATOM	18404	CB	ALA	25	162.921	77.377	2.354	1.00	10.49	LS12
ATOM	18352	NH2	ARG	18	153.451	83.477	-16.186	1.00	128.41	LS12	ATOM	18405	C	ALA	25	162.154	75.601	0.713	1.00	97.40	LS12
ATOM	18353	C	ARG	18	157.237	88.401	-10.428	1.00	85.72	LS12	ATOM	18406	O	ALA	25	161.503	74.994	1.557	1.00	97.40	LS12
ATOM	18354	O	ARG	18	158.302	88.810	-10.867	1.00	85.72	LS12	ATOM	18407	N	LEU	26	161.922	75.550	-0.600	1.00	78.95	LS12
ATOM	18355	N	LVS	19	157.081	88.044	-9.162	1.00	67.79	LS12	ATOM	18408	CA	LEU	26	160.860	74.779	-1.245	1.00	78.95	LS12
ATOM	18356	CA	LVS	19	158.198	88.122	-8.229	1.00	67.79	LS12	ATOM	18409	CB	LEU	26	161.220	73.291	-1.352	1.00	84.01	LS12

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ATOM	18410	CG	LEU	26	160.336	72.418	-2.260	1.00	84.01	LS12	ATOM	18463	CA	ARG	33	165.550	71.090	8.436	1.00	45.78	LS12
ATOM	18411	CD1	LEU	26	160.592	72.782	-3.721	1.00	84.01	LS12	ATOM	18464	CB	ARG	33	165.011	70.228	9.571	1.00	70.82	LS12
ATOM	18412	CD2	LEU	26	160.637	70.942	-2.032	1.00	84.01	LS12	ATOM	18465	CG	ARG	33	164.520	68.885	9.134	1.00	70.82	LS12
ATOM	18413	C	LEU	26	159.576	74.926	-0.473	1.00	78.95	LS12	ATOM	18466	CD	ARG	33	164.731	67.916	10.250	1.00	70.82	LS12
ATOM	18414	O	LEU	26	159.550	75.573	0.569	1.00	78.95	LS12	ATOM	18467	NE	ARG	33	164.193	66.604	9.939	1.00	70.82	LS12
ATOM	18415	N	LYS	27	158.516	74.317	-0.994	1.00	135.57	LS12	ATOM	18468	CZ	ARG	33	164.232	65.579	10.781	1.00	70.82	LS12
ATOM	18416	CA	LYS	27	157.203	74.367	-0.369	1.00	135.57	LS12	ATOM	18469	NH1	ARG	33	164.788	65.723	11.979	1.00	70.82	LS12
ATOM	18417	CB	LYS	27	157.070	73.271	0.693	1.00	168.57	LS12	ATOM	18470	NH2	ARG	33	163.699	64.417	10.436	1.00	70.82	LS12
ATOM	18418	CG	LYS	27	157.182	71.848	0.178	1.00	168.57	LS12	ATOM	18471	C	ARG	33	166.424	70.232	7.518	1.00	45.78	LS12
ATOM	18419	CD	LYS	27	156.965	70.864	1.318	1.00	168.57	LS12	ATOM	18472	O	ARG	33	165.929	69.514	6.645	1.00	45.78	LS12
ATOM	18420	CG	LYS	27	157.098	69.421	0.861	1.00	168.57	LS12	ATOM	18473	N	GLY	34	167.731	70.331	7.731	1.00	60.76	LS12
ATOM	18421	N2	LYS	27	156.847	68.466	1.982	1.00	168.57	LS12	ATOM	18474	CA	GLY	34	168.678	69.589	6.930	1.00	60.76	LS12
ATOM	18422	C	LYS	27	156.983	75.717	0.291	1.00	135.57	LS12	ATOM	18475	C	GLY	34	169.778	68.972	7.765	1.00	60.76	LS12
ATOM	18423	O	LYS	27	156.127	75.840	1.169	1.00	135.57	LS12	ATOM	18476	O	GLY	34	169.761	69.048	8.999	1.00	60.76	LS12
ATOM	18424	N	GLY	28	157.746	76.724	-0.139	1.00	50.74	LS12	ATOM	18477	N	VAL	35	170.743	68.358	7.088	1.00	45.90	LS12
ATOM	18425	CA	GLY	28	157.630	78.043	0.456	1.00	50.74	LS12	ATOM	18478	CB	VAL	35	171.847	67.711	7.778	1.00	45.90	LS12
ATOM	18426	C	GLY	28	157.292	77.858	1.918	1.00	50.74	LS12	ATOM	18479	CG1	VAL	35	171.817	66.204	7.523	1.00	33.77	LS12
ATOM	18427	O	GLY	28	156.236	78.278	2.391	1.00	50.74	LS12	ATOM	18480	CG2	VAL	35	172.957	65.545	8.231	1.00	33.77	LS12
ATOM	18428	N	ALA	29	158.181	77.181	2.628	1.00	46.76	LS12	ATOM	18481	C	VAL	35	170.500	65.628	8.014	1.00	45.90	LS12
ATOM	18429	CA	ALA	29	157.978	76.901	4.034	1.00	46.76	LS12	ATOM	18482	C	VAL	35	173.194	68.286	7.356	1.00	45.90	LS12
ATOM	18430	CB	ALA	29	158.542	75.562	4.361	1.00	21.11	LS12	ATOM	18483	O	VAL	35	173.463	68.462	6.168	1.00	45.90	LS12
ATOM	18431	C	ALA	29	158.664	77.964	4.850	1.00	46.76	LS12	ATOM	18484	N	CYS	36	174.032	68.587	8.342	1.00	59.90	LS12
ATOM	18432	O	ALA	29	159.489	78.707	4.332	1.00	46.76	LS12	ATOM	18485	CA	CYS	36	175.347	69.151	8.076	1.00	59.90	LS12
ATOM	18433	N	PRO	30	158.305	78.076	6.134	1.00	22.84	LS12	ATOM	18486	CB	CYS	36	175.969	69.675	9.371	1.00	84.06	LS12
ATOM	18434	CD	PRO	30	157.079	77.524	6.729	1.00	49.33	LS12	ATOM	18487	SG	CYS	36	175.412	71.324	9.824	1.00	84.06	LS12
ATOM	18435	CA	PRO	30	158.908	79.071	7.028	1.00	22.84	LS12	ATOM	18488	C	CYS	36	176.326	68.206	7.387	1.00	59.90	LS12
ATOM	18436	CB	PRO	30	157.971	79.069	8.236	1.00	49.33	LS12	ATOM	18489	O	CYS	36	176.636	67.119	7.878	1.00	59.90	LS12
ATOM	18437	CG	PRO	30	156.666	78.632	7.662	1.00	49.33	LS12	ATOM	18490	N	THR	37	177.769	67.889	5.457	1.00	65.80	LS12
ATOM	18438	C	PRO	30	160.313	78.616	7.405	1.00	22.84	LS12	ATOM	18491	CA	THR	37	177.385	67.945	3.982	1.00	79.79	LS12
ATOM	18439	O	PRO	30	161.213	79.425	7.599	1.00	22.84	LS12	ATOM	18492	CB	THR	37	177.385	67.945	3.982	1.00	79.79	LS12
ATOM	18440	N	PHE	31	160.480	77.306	7.516	1.00	60.31	LS12	ATOM	18493	CG1	THR	37	176.132	67.278	3.803	1.00	79.79	LS12
ATOM	18441	CA	PHE	31	161.760	76.717	7.869	1.00	60.31	LS12	ATOM	18494	CG2	THR	37	178.447	67.284	3.123	1.00	79.79	LS12
ATOM	18442	CB	PHE	31	161.877	76.555	9.378	1.00	32.56	LS12	ATOM	18495	C	THR	37	179.178	68.440	5.615	1.00	65.80	LS12
ATOM	18443	CG	PHE	31	161.647	77.811	10.141	1.00	32.56	LS12	ATOM	18496	O	THR	37	180.149	67.692	5.688	1.00	65.80	LS12
ATOM	18444	CD1	PHE	31	162.659	78.743	10.286	1.00	32.56	LS12	ATOM	18497	N	VAL	38	179.280	69.761	5.678	1.00	67.72	LS12
ATOM	18445	CD2	PHE	31	160.407	78.061	10.726	1.00	32.56	LS12	ATOM	18498	CA	VAL	38	180.570	70.417	5.789	1.00	67.72	LS12
ATOM	18446	CE1	PHE	31	162.443	79.912	11.006	1.00	32.56	LS12	ATOM	18499	CB	VAL	38	181.073	70.810	4.395	1.00	37.32	LS12
ATOM	18447	CE2	PHE	31	160.178	79.222	11.446	1.00	32.56	LS12	ATOM	18500	CG1	VAL	38	182.505	71.302	4.469	1.00	37.32	LS12
ATOM	18448	CZ	PHE	31	161.197	80.154	11.589	1.00	32.56	LS12	ATOM	18501	CG2	VAL	38	180.947	69.636	3.468	1.00	37.32	LS12
ATOM	18449	C	PHE	31	161.881	75.339	7.242	1.00	60.31	LS12	ATOM	18502	C	VAL	38	180.517	71.682	6.632	1.00	67.72	LS12
ATOM	18450	O	PHE	31	160.886	74.697	6.884	1.00	60.31	LS12	ATOM	18503	O	VAL	38	179.887	72.664	6.246	1.00	67.72	LS12
ATOM	18451	N	ARG	32	163.115	74.881	7.118	1.00	62.20	LS12	ATOM	18504	N	VAL	39	181.173	71.668	7.783	1.00	52.44	LS12
ATOM	18452	CA	ARG	32	163.362	73.571	6.567	1.00	62.20	LS12	ATOM	18505	CA	VAL	39	181.208	72.856	8.625	1.00	52.44	LS12
ATOM	18453	CB	ARG	32	163.739	73.682	5.095	1.00	98.60	LS12	ATOM	18506	CB	VAL	39	181.248	72.483	10.111	1.00	43.53	LS12
ATOM	18454	CD	ARG	32	163.679	72.369	4.349	1.00	98.60	LS12	ATOM	18507	CG1	VAL	39	181.506	73.734	10.954	1.00	43.53	LS12
ATOM	18455	CG	ARG	32	162.404	72.236	3.521	1.00	98.60	LS12	ATOM	18508	CG2	VAL	39	179.941	71.818	10.501	1.00	43.53	LS12
ATOM	18456	NE	ARG	32	161.173	72.150	4.306	1.00	98.60	LS12	ATOM	18509	C	VAL	39	182.503	73.553	8.250	1.00	52.44	LS12
ATOM	18457	CZ	ARG	32	159.973	71.924	3.772	1.00	98.60	LS12	ATOM	18510	O	VAL	39	183.564	73.076	8.602	1.00	52.44	LS12
ATOM	18458	NH1	ARG	32	159.853	71.762	2.458	1.00	98.60	LS12	ATOM	18511	N	ARG	40	182.428	74.674	7.545	1.00	44.61	LS12
ATOM	18459	NH2	ARG	32	158.891	71.860	4.542	1.00	98.60	LS12	ATOM	18512	CA	ARG	40	183.641	75.350	7.108	1.00	44.61	LS12
ATOM	18460	C	ARG	32	164.521	73.016	7.371	1.00	62.20	LS12	ATOM	18513	CB	ARG	40	183.671	75.371	5.584	1.00	86.96	LS12
ATOM	18461	O	ARG	32	165.433	73.762	7.729	1.00	62.20	LS12	ATOM	18514	CG	ARG	40	184.998	75.775	5.013	1.00	86.96	LS12
ATOM	18462	N	ARG	33	164.469	71.723	7.687	1.00	45.78	LS12	ATOM	18515	CD	ARG	40	184.847	76.150	3.580	1.00	86.96	LS12

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ATOM	18516	NE	ARG	40	184.147	75.095	2.868	1.00	86.96	LS12	ATOM	18569	CD	PRO	47	183.730	95.293	0.852	1.00	34.20	LS1
ATOM	18517	CZ	ARG	40	184.022	75.051	1.548	1.00	86.96	LS12	ATOM	18570	CA	PRO	47	185.930	94.985	1.765	1.00	111.10	LS1
ATOM	18518	MA	ARG	40	184.558	76.015	0.803	1.00	86.96	LS12	ATOM	18571	CB	PRO	47	185.329	96.303	2.233	1.00	34.20	LS1
ATOM	18519	NH2	ARG	40	183.366	74.044	0.975	1.00	86.96	LS12	ATOM	18572	CG	PRO	47	183.904	96.023	2.176	1.00	34.20	LS1
ATOM	18520	C	ARG	40	183.873	76.773	7.631	1.00	44.61	LS12	ATOM	18573	C	PRO	47	186.116	94.021	2.923	1.00	111.10	LS1
ATOM	18521	O	ARG	40	183.298	77.200	8.629	1.00	44.61	LS12	ATOM	18574	O	PRO	47	187.187	93.450	3.117	1.00	111.10	LS1
ATOM	18522	N	THR	41	184.758	77.484	6.943	1.00	69.83	LS12	ATOM	18575	N	ASN	48	185.063	93.876	3.706	1.00	54.00	LS1
ATOM	18523	CA	THR	41	185.123	78.859	7.242	1.00	69.83	LS12	ATOM	18576	CA	ASN	48	185.071	93.008	4.861	1.00	54.00	LS1
ATOM	18524	CB	THR	41	186.455	78.946	7.973	1.00	101.10.74	LS12	ATOM	18577	CB	ASN	48	183.650	92.540	5.128	1.00	60.68	LS1
ATOM	18525	OG1	THR	41	186.327	78.349	9.264	1.00	101.10.74	LS12	ATOM	18578	CG	ASN	48	182.781	93.663	5.622	1.00	60.68	LS1
ATOM	18526	OG2	THR	41	186.879	80.390	8.122	1.00	101.10.74	LS12	ATOM	18579	OD1	ASN	48	181.576	93.513	5.779	1.00	60.68	LS1
ATOM	18527	C	THR	41	185.298	79.508	5.881	1.00	69.83	LS12	ATOM	18580	ND2	ASN	48	183.405	94.814	5.886	1.00	60.68	LS1
ATOM	18528	O	THR	41	186.075	79.038	5.054	1.00	69.83	LS12	ATOM	18581	C	ASN	48	186.016	91.825	4.805	1.00	54.00	LS1
ATOM	18529	N	VAL	42	184.575	80.587	5.643	1.00	43.26	LS12	ATOM	18582	O	ASN	48	186.229	91.230	3.754	1.00	54.00	LS1
ATOM	18530	CA	VAL	42	184.655	81.262	4.363	1.00	43.26	LS12	ATOM	18583	N	SER	49	186.590	91.507	5.959	1.00	43.36	LS1
ATOM	18531	CB	VAL	42	183.267	81.281	3.696	1.00	61.60	LS12	ATOM	18584	CA	SER	49	187.513	90.390	6.102	1.00	43.36	LS1
ATOM	18532	CG1	VAL	42	183.266	82.196	2.497	1.00	61.60	LS12	ATOM	18585	CB	SER	49	188.950	90.900	6.028	1.00	55.05	LS1
ATOM	18533	CG2	VAL	42	182.895	79.880	3.279	1.00	61.60	LS12	ATOM	18586	OG	SER	49	189.869	89.875	6.351	1.00	55.05	LS1
ATOM	18534	C	VAL	42	185.166	82.681	4.545	1.00	43.26	LS12	ATOM	18587	C	SER	49	187.263	89.699	7.445	1.00	43.36	LS1
ATOM	18535	O	VAL	42	184.998	83.275	5.603	1.00	43.26	LS12	ATOM	18588	O	SER	49	186.981	90.367	8.443	1.00	43.36	LS1
ATOM	18536	N	THR	43	185.815	83.222	3.527	1.00	65.18	LS12	ATOM	18589	N	ALA	50	187.350	88.370	7.463	1.00	52.01	LS1
ATOM	18537	CA	THR	43	186.297	84.581	3.645	1.00	65.18	LS12	ATOM	18590	CA	ALA	50	187.141	87.591	8.689	1.00	52.01	LS1
ATOM	18538	CB	THR	43	187.673	84.783	2.959	1.00	73.11	LS12	ATOM	18591	CB	ALA	50	185.994	88.174	9.509	1.00	83.87	LS1
ATOM	18539	OG1	THR	43	187.526	84.676	1.540	1.00	73.11	LS12	ATOM	18592	C	ALA	50	186.845	86.136	8.372	1.00	52.01	LS1
ATOM	18540	CG2	THR	43	188.671	83.748	3.448	1.00	73.11	LS12	ATOM	18593	O	ALA	50	186.634	85.781	7.224	1.00	52.01	LS1
ATOM	18541	C	THR	43	185.263	85.478	2.978	1.00	65.18	LS12	ATOM	18594	N	LEU	51	186.831	85.292	9.392	1.00	84.60	LS1
ATOM	18542	O	THR	43	184.711	85.132	1.928	1.00	65.18	LS12	ATOM	18595	CA	LEU	51	186.545	83.881	9.187	1.00	76.66	LS1
ATOM	18543	N	PRO	44	184.969	86.632	3.596	1.00	49.93	LS12	ATOM	18596	CB	LEU	51	187.369	83.016	10.143	1.00	76.66	LS1
ATOM	18544	CD	PRO	44	185.507	87.080	4.891	1.00	65.53	LS12	ATOM	18597	CG	LEU	51	188.887	83.032	9.972	1.00	76.66	LS1
ATOM	18545	CA	PRO	44	184.000	87.600	3.077	1.00	49.93	LS12	ATOM	18598	CD1	LEU	51	189.503	82.134	11.027	1.00	76.66	LS1
ATOM	18546	CB	PRO	44	183.893	88.613	4.210	1.00	65.53	LS12	ATOM	18599	CD2	LEU	51	189.272	82.571	8.571	1.00	76.66	LS1
ATOM	18547	CG	PRO	44	185.252	88.548	4.836	1.00	65.53	LS12	ATOM	18600	C	LEU	51	185.065	83.632	9.417	1.00	84.60	LS1
ATOM	18548	C	PRO	44	184.391	88.245	1.741	1.00	49.93	LS12	ATOM	18601	O	LEU	51	184.644	83.262	10.516	1.00	84.60	LS1
ATOM	18549	O	PRO	44	185.508	88.084	1.244	1.00	49.93	LS12	ATOM	18602	N	ARG	52	184.279	83.849	8.372	1.00	71.13	LS1
ATOM	18550	N	LYS	45	183.445	88.989	1.186	1.00	39.99	LS12	ATOM	18603	CA	ARG	52	182.839	83.653	8.441	1.00	71.13	LS1
ATOM	18551	CA	LYS	45	183.585	89.664	-0.098	1.00	39.99	LS12	ATOM	18604	CB	ARG	52	182.198	84.226	7.182	1.00	57.18	LS1
ATOM	18552	CB	LYS	45	182.203	89.630	-0.781	1.00	97.46	LS12	ATOM	18605	CG	ARG	52	181.093	85.223	7.444	1.00	57.18	LS1
ATOM	18553	CG	LYS	45	182.059	90.327	-2.122	1.00	97.46	LS12	ATOM	18606	CD	ARG	52	181.422	86.604	6.906	1.00	57.18	LS1
ATOM	18554	CD	LYS	45	180.586	90.488	-2.461	1.00	97.46	LS12	ATOM	18607	NE	ARG	52	181.817	87.512	7.977	1.00	57.18	LS1
ATOM	18555	CE	LYS	45	180.373	91.360	-3.684	1.00	97.46	LS12	ATOM	18608	CZ	ARG	52	181.909	88.830	7.837	1.00	57.18	LS1
ATOM	18556	NZ	LYS	45	180.933	90.755	-4.925	1.00	97.46	LS12	ATOM	18609	NH1	ARG	52	181.633	89.388	6.665	1.00	57.18	LS1
ATOM	18557	C	LYS	45	184.124	91.116	-0.021	1.00	39.99	LS12	ATOM	18610	NH2	ARG	52	182.262	89.586	8.865	1.00	57.18	LS1
ATOM	18558	O	LYS	45	184.544	91.607	-0.021	1.00	39.99	LS12	ATOM	18611	C	ARG	52	182.557	82.156	8.562	1.00	71.13	LS1
ATOM	18559	N	LYS	46	184.090	91.787	-1.164	1.00	93.82	LS12	ATOM	18612	O	ARG	52	183.006	81.730	7.730	1.00	71.13	LS1
ATOM	18560	CA	LYS	46	184.535	93.160	-1.301	1.00	93.82	LS12	ATOM	18613	N	LYS	53	181.817	81.760	9.594	1.00	55.73	LS1
ATOM	18561	CB	LYS	46	183.314	94.068	-1.510	1.00	109.60	LS12	ATOM	18614	CA	LYS	53	181.520	80.347	9.820	1.00	55.73	LS1
ATOM	18562	CG	LYS	46	182.553	93.775	-2.799	1.00	109.60	LS12	ATOM	18615	CB	LYS	53	181.475	80.084	11.317	1.00	115.72	LS1
ATOM	18563	CD	LYS	46	181.499	94.830	-3.098	1.00	109.60	LS12	ATOM	18616	CG	LYS	53	182.726	80.591	11.995	1.00	115.72	LS1
ATOM	18564	CE	LYS	46	180.944	94.666	-4.514	1.00	109.60	LS12	ATOM	18617	CD	LYS	53	182.691	80.384	13.479	1.00	115.72	LS1
ATOM	18565	NZ	LYS	46	180.005	95.763	-4.907	1.00	109.60	LS12	ATOM	18618	CE	LYS	53	183.961	80.915	14.098	1.00	115.72	LS1
ATOM	18566	C	LYS	46	185.446	93.632	-0.167	1.00	93.82	LS12	ATOM	18619	NZ	LYS	53	183.961	80.915	14.098	1.00	115.72	LS1
ATOM	18567	O	LYS	46	186.557	93.126	-0.059	1.00	93.82	LS12	ATOM	18620	C	LYS	53	184.001	80.631	15.557	1.00	115.72	LS1
ATOM	18568	N	PRO	47	185.003	94.563	0.709	1.00	111.10	LS12	ATOM	18621	O	LYS	53	180.241	79.865	9.144	1.00	55.73	LS1
																179.130	80.205	9.554	1.00	55.73	LS1

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ATOM	18622	N VAL	54	180.418	79.048	8.109	1.00	67.78	LS12	ATOM	18675	O THR	60	162.884	67.145	1.722	1.00	80.50	LS1
ATOM	18623	CA VAL	54	179.307	78.524	7.327	1.00	67.78	LS12	ATOM	18676	N SER	61	164.011	69.094	1.672	1.00	82.55	LS1
ATOM	18624	CB VAL	54	179.499	78.904	5.860	1.00	61.08	LS12	ATOM	18677	CA SER	61	163.347	69.576	0.472	1.00	82.55	LS1
ATOM	18625	CG1 VAL	54	178.172	78.935	5.171	1.00	61.08	LS12	ATOM	18678	CB SER	61	163.278	71.106	0.474	1.00	51.36	LS1
ATOM	18626	CG2 VAL	54	180.188	80.259	5.758	1.00	61.08	LS12	ATOM	18679	OG SER	61	164.562	71.696	0.478	1.00	51.36	LS1
ATOM	18627	C VAL	54	179.146	77.001	7.442	1.00	67.78	LS12	ATOM	18680	C SER	61	164.081	69.089	-0.772	1.00	82.55	LS1
ATOM	18628	O VAL	54	179.926	76.341	8.123	1.00	67.78	LS12	ATOM	18681	O SER	61	163.696	69.418	-1.898	1.00	82.55	LS1
ATOM	18629	N ALA	55	178.134	76.447	6.772	1.00	54.81	LS12	ATOM	18682	N GLY	62	165.138	68.307	-0.558	1.00	82.55	LS1
ATOM	18630	CA ALA	55	177.867	75.008	6.820	1.00	54.81	LS12	ATOM	18683	CA GLY	62	165.904	67.769	-1.665	1.00	72.50	LS1
ATOM	18631	CB ALA	55	177.214	74.656	8.144	1.00	22.47	LS12	ATOM	18684	C GLY	62	167.085	68.617	-2.084	1.00	72.50	LS1
ATOM	18632	O ALA	55	176.970	74.523	5.684	1.00	54.81	LS12	ATOM	18685	O GLY	62	167.993	68.110	-2.743	1.00	72.50	LS1
ATOM	18633	N LYS	56	177.429	73.536	4.918	1.00	86.23	LS12	ATOM	18686	N TYR	63	167.083	69.897	-1.707	1.00	75.34	LS1
ATOM	18634	CA LYS	56	176.613	72.998	3.833	1.00	86.23	LS12	ATOM	18687	CA TYR	63	168.169	70.819	-2.060	1.00	75.34	LS1
ATOM	18635	CB LYS	56	177.470	72.241	2.817	1.00	89.13	LS12	ATOM	18688	CB TYR	63	167.674	72.274	-2.092	1.00	93.52	LS1
ATOM	18636	CG LYS	56	178.339	73.172	2.006	1.00	89.13	LS12	ATOM	18689	CG TYR	63	166.593	72.588	-3.105	1.00	93.52	LS1
ATOM	18638	CD LYS	56	178.758	72.577	0.682	1.00	89.13	LS12	ATOM	18690	CD1 TYR	63	165.379	71.899	-3.100	1.00	93.52	LS1
ATOM	18639	CE LYS	56	179.443	73.638	-0.178	1.00	89.13	LS12	ATOM	18691	CE1 TYR	63	164.357	72.226	-3.989	1.00	93.52	LS1
ATOM	18640	NZ LYS	56	179.801	73.136	-1.539	1.00	89.13	LS12	ATOM	18692	CD2 TYR	63	166.761	73.617	-4.035	1.00	93.52	LS1
ATOM	18641	C LYS	56	175.562	72.080	4.436	1.00	86.23	LS12	ATOM	18693	CE2 TYR	63	165.746	73.956	-4.930	1.00	93.52	LS1
ATOM	18642	O LYS	56	175.858	71.269	5.312	1.00	86.23	LS12	ATOM	18694	CZ TYR	63	164.545	73.256	-4.899	1.00	93.52	LS1
ATOM	18643	N VAL	57	174.330	72.216	3.960	1.00	46.95	LS12	ATOM	18695	OH TYR	63	163.526	73.587	-5.764	1.00	93.52	LS1
ATOM	18644	CA VAL	57	173.220	71.436	4.483	1.00	46.95	LS12	ATOM	18696	C TYR	63	169.346	70.742	-1.084	1.00	75.34	LS1
ATOM	18645	CB VAL	57	172.232	72.342	5.258	1.00	60.83	LS12	ATOM	18697	O TYR	63	169.173	70.435	0.099	1.00	75.34	LS1
ATOM	18646	CG1 VAL	57	171.092	71.501	5.819	1.00	60.83	LS12	ATOM	18698	N GLU	64	170.540	71.031	-1.602	1.00	59.24	LS1
ATOM	18647	CG2 VAL	57	172.962	73.105	6.364	1.00	60.83	LS12	ATOM	18699	CA GLU	64	171.783	71.026	-0.828	1.00	59.24	LS1
ATOM	18648	C VAL	57	172.428	70.725	3.405	1.00	46.95	LS12	ATOM	18700	CB GLU	64	172.829	70.139	-1.514	1.00	92.64	LS1
ATOM	18649	O VAL	57	172.196	71.280	2.334	1.00	46.95	LS12	ATOM	18701	CG GLU	64	172.510	68.624	-1.562	1.00	92.64	LS1
ATOM	18650	N ARG	58	172.014	69.496	3.702	1.00	57.82	LS12	ATOM	18702	CD GLU	64	171.330	68.231	-2.475	1.00	92.64	LS1
ATOM	18651	CA ARG	58	171.209	68.704	2.779	1.00	57.82	LS12	ATOM	18703	OE1 GLU	64	171.232	68.749	-3.614	1.00	92.64	LS1
ATOM	18652	CB ARG	58	171.628	67.236	2.825	1.00	113.29	LS12	ATOM	18704	OE2 GLU	64	170.509	67.376	-2.057	1.00	92.64	LS1
ATOM	18653	CD ARG	58	170.918	66.343	1.816	1.00	113.29	LS12	ATOM	18705	C GLU	64	172.248	72.482	-0.810	1.00	59.24	LS1
ATOM	18654	CG ARG	58	171.807	66.107	0.606	1.00	113.29	LS12	ATOM	18706	O GLU	64	172.667	73.018	-1.834	1.00	59.24	LS1
ATOM	18655	NE ARG	58	173.081	65.498	0.994	1.00	113.29	LS12	ATOM	18707	N VAL	65	172.172	73.121	0.354	1.00	59.47	LS1
ATOM	18656	CZ ARG	58	174.129	65.349	0.186	1.00	113.29	LS12	ATOM	18708	CA VAL	65	172.537	74.531	0.461	1.00	59.47	LS1
ATOM	18657	NH1 ARG	58	174.072	65.762	-1.074	1.00	113.29	LS12	ATOM	18709	CB VAL	65	171.279	75.369	0.739	1.00	50.21	LS1
ATOM	18658	NH2 ARG	58	175.240	64.789	0.646	1.00	113.29	LS12	ATOM	18710	CG1 VAL	65	170.229	75.076	-0.319	1.00	50.21	LS1
ATOM	18659	C ARG	58	169.802	68.828	3.334	1.00	57.82	LS12	ATOM	18711	CG2 VAL	65	170.745	75.069	2.133	1.00	50.21	LS1
ATOM	18660	O ARG	58	169.519	68.257	4.378	1.00	57.82	LS12	ATOM	18712	C VAL	65	173.597	74.917	1.495	1.00	59.47	LS1
ATOM	18661	N LEU	59	168.928	69.569	2.638	1.00	78.67	LS12	ATOM	18713	O VAL	65	173.968	74.124	2.353	1.00	59.47	LS1
ATOM	18662	CA LEU	59	167.562	69.754	3.150	1.00	78.67	LS12	ATOM	18714	N THR	66	174.072	76.156	1.387	1.00	61.28	LS1
ATOM	18663	CB LEU	59	166.911	71.014	2.551	1.00	50.02	LS12	ATOM	18715	CA THR	66	175.079	76.727	2.286	1.00	61.28	LS1
ATOM	18664	CG LEU	59	167.428	72.434	2.791	1.00	50.02	LS12	ATOM	18716	CB THR	66	176.158	77.501	1.485	1.00	65.82	LS1
ATOM	18665	CD1 LEU	59	168.036	72.531	4.180	1.00	50.02	LS12	ATOM	18717	OG1 THR	66	177.057	76.578	0.854	1.00	65.82	LS1
ATOM	18666	CD2 LEU	59	168.435	72.799	1.724	1.00	50.02	LS12	ATOM	18718	CG2 THR	66	176.931	78.423	2.387	1.00	65.82	LS1
ATOM	18667	C LEU	59	166.635	68.580	2.875	1.00	78.67	LS12	ATOM	18719	C THR	66	174.371	77.704	3.228	1.00	61.28	LS1
ATOM	18668	O LEU	59	166.920	67.724	2.032	1.00	78.67	LS12	ATOM	18720	O THR	66	173.714	78.644	2.781	1.00	61.28	LS1
ATOM	18669	N THR	60	165.518	68.562	3.601	1.00	80.50	LS12	ATOM	18721	N ALA	67	174.514	77.496	4.530	1.00	51.19	LS1
ATOM	18670	CA THR	60	164.502	67.532	3.444	1.00	80.50	LS12	ATOM	18722	CA ALA	67	173.846	78.358	5.496	1.00	51.19	LS1
ATOM	18671	CB THR	60	163.514	67.498	4.635	1.00	79.82	LS12	ATOM	18723	CB ALA	67	172.763	77.565	6.206	1.00	24.87	LS1
ATOM	18672	CG1 THR	60	162.890	68.779	4.781	1.00	79.82	LS12	ATOM	18724	C ALA	67	174.775	78.997	6.522	1.00	51.19	LS1
ATOM	18673	CG2 THR	60	164.227	67.146	5.916	1.00	79.82	LS12	ATOM	18725	O ALA	67	175.717	78.370	6.999	1.00	51.19	LS1
ATOM	18674	C THR	60	163.725	67.906	2.196	1.00	80.50	LS12	ATOM	18726	N TYR	68	174.499	80.249	6.868	1.00	48.48	LS1
			60							ATOM	18727	CA TYR	68	175.310	80.954	7.848	1.00	48.48	LS1

ATOM	18728	CB	TYR	68	175.002	82.443	7.811	1.00	60.20	LS12	ATOM	18781	CA	ASN	75	179.121	76.704	16.711	1.00	47.47	LS1
ATOM	18729	CG	TYR	68	175.953	83.263	8.644	1.00	60.20	LS12	ATOM	18782	CB	ASN	75	180.177	77.104	15.668	1.00	53.02	LS1
ATOM	18730	CD1	TYR	68	177.165	83.689	8.115	1.00	60.20	LS12	ATOM	18783	CG	ASN	75	180.162	76.235	14.416	1.00	53.02	LS1
ATOM	18731	CD2	TYR	68	178.072	84.419	8.880	1.00	60.20	LS12	ATOM	18784	OD1	ASN	75	180.133	75.001	14.478	1.00	53.02	LS1
ATOM	18732	CE1	TYR	68	175.664	83.588	9.972	1.00	60.20	LS12	ATOM	18785	ND2	ASN	75	180.215	76.889	13.265	1.00	53.02	LS1
ATOM	18733	CE2	TYR	68	176.569	84.321	10.752	1.00	60.20	LS12	ATOM	18786	C	ASN	75	179.506	75.389	17.389	1.00	47.47	LS1
ATOM	18734	CZ	TYR	68	177.770	84.729	10.190	1.00	60.20	LS12	ATOM	18787	O	ASN	75	180.374	75.362	18.255	1.00	47.47	LS1
ATOM	18735	OH	TYR	68	178.695	85.429	10.914	1.00	60.20	LS12	ATOM	18788	N	LEU	76	178.842	74.310	16.998	1.00	50.68	LS1
ATOM	18736	C	TYR	68	175.032	80.434	9.259	1.00	48.48	LS12	ATOM	18789	CA	LEU	76	179.111	72.980	17.523	1.00	50.68	LS1
ATOM	18737	O	TYR	68	173.946	79.921	9.540	1.00	48.48	LS12	ATOM	18790	CB	LEU	76	178.323	72.731	18.812	1.00	34.18	LS1
ATOM	18738	ILE	ILE	69	176.017	80.566	10.144	1.00	46.88	LS12	ATOM	18791	CG	LEU	76	176.799	72.787	18.662	1.00	34.18	LS1
ATOM	18739	CA	ILE	69	175.865	80.139	11.537	1.00	46.88	LS12	ATOM	18792	CD1	LEU	76	176.095	71.988	19.738	1.00	34.18	LS1
ATOM	18740	CB	ILE	69	176.867	79.027	11.913	1.00	45.86	LS12	ATOM	18793	CD2	LEU	76	176.372	72.033	16.439	1.00	34.18	LS1
ATOM	18741	CG2	ILE	69	176.540	78.491	13.293	1.00	45.86	LS12	ATOM	18794	C	LEU	76	178.617	74.243	18.677	1.00	34.18	LS1
ATOM	18742	CG1	ILE	69	176.795	77.885	10.894	1.00	45.86	LS12	ATOM	18795	O	LEU	76	178.169	70.924	16.730	1.00	50.68	LS1
ATOM	18743	CD1	ILE	69	177.668	76.702	11.217	1.00	45.86	LS12	ATOM	18796	N	GLN	77	178.697	72.493	15.189	1.00	65.03	LS1
ATOM	18744	O	ILE	69	176.150	81.371	12.387	1.00	46.88	LS12	ATOM	18797	CA	GLN	77	178.230	71.741	14.022	1.00	65.03	LS1
ATOM	18745	O	ILE	69	177.299	81.661	12.716	1.00	46.88	LS12	ATOM	18798	CB	GLN	77	177.883	72.719	12.899	1.00	99.28	LS1
ATOM	18746	N	PRO	70	175.099	82.116	12.751	1.00	49.75	LS12	ATOM	18799	CG	GLN	77	177.260	74.027	13.353	1.00	99.28	LS1
ATOM	18747	CD	PRO	70	173.695	81.687	12.625	1.00	55.42	LS12	ATOM	18800	CD	GLN	77	175.992	73.818	14.134	1.00	99.28	LS1
ATOM	18748	CA	PRO	70	175.191	83.338	13.556	1.00	49.75	LS12	ATOM	18801	OE1	GLN	77	175.089	73.115	13.693	1.00	99.28	LS1
ATOM	18749	CB	PRO	70	173.738	83.782	13.661	1.00	55.42	LS12	ATOM	18802	NE2	GLN	77	175.912	74.434	15.305	1.00	99.28	LS1
ATOM	18750	CG	PRO	70	173.013	82.488	13.712	1.00	55.42	LS12	ATOM	18803	C	GLN	77	179.272	70.752	13.792	1.00	65.03	LS1
ATOM	18751	C	PRO	70	175.817	83.122	14.917	1.00	49.75	LS12	ATOM	18804	O	GLN	77	180.456	70.912	13.500	1.00	65.03	LS1
ATOM	18752	O	PRO	70	176.240	82.028	15.234	1.00	49.75	LS12	ATOM	18805	N	GLU	78	178.846	69.755	12.712	1.00	56.78	LS1
ATOM	18753	N	GLY	71	175.896	84.184	15.706	1.00	60.58	LS12	ATOM	18806	CA	GLU	78	179.797	68.775	12.171	1.00	56.78	LS1
ATOM	18754	CA	GLY	71	176.451	84.081	17.045	1.00	60.58	LS12	ATOM	18807	CB	GLU	78	180.561	68.136	13.331	1.00	78.46	LS1
ATOM	18755	C	GLY	71	177.946	83.857	17.234	1.00	60.58	LS12	ATOM	18808	CG	GLU	78	179.660	67.433	14.332	1.00	78.46	LS1
ATOM	18756	O	GLY	71	178.631	83.329	16.349	1.00	60.58	LS12	ATOM	18809	CD	GLU	78	180.423	66.877	15.513	1.00	78.46	LS1
ATOM	18757	N	GLU	72	178.432	84.272	18.413	1.00	56.51	LS12	ATOM	18810	OE1	GLU	78	180.920	67.675	16.336	1.00	78.46	LS1
ATOM	18758	CA	GLU	72	179.833	84.145	18.831	1.00	56.51	LS12	ATOM	18811	OE2	GLU	78	180.527	65.638	15.610	1.00	78.46	LS1
ATOM	18759	CB	GLU	72	180.008	84.657	20.270	1.00	82.09	LS12	ATOM	18812	C	GLU	78	179.261	67.649	11.265	1.00	56.78	LS1
ATOM	18760	CG	GLU	72	179.786	86.166	20.492	1.00	82.09	LS12	ATOM	18813	O	GLU	78	180.014	67.049	10.488	1.00	56.78	LS1
ATOM	18761	CD	GLU	72	180.943	87.015	19.973	1.00	82.09	LS12	ATOM	18814	N	HIS	79	177.970	67.361	11.364	1.00	69.23	LS1
ATOM	18762	OE1	GLU	72	180.990	88.235	20.264	1.00	82.09	LS12	ATOM	18815	CA	HIS	79	177.360	66.281	10.588	1.00	69.23	LS1
ATOM	18763	OE2	GLU	72	181.806	86.452	19.268	1.00	82.09	LS12	ATOM	18816	CB	HIS	79	178.197	65.017	10.762	1.00	92.42	LS1
ATOM	18764	C	GLU	72	180.209	82.671	18.776	1.00	56.51	LS12	ATOM	18817	CG	HIS	79	177.723	63.859	9.950	1.00	92.42	LS1
ATOM	18765	O	GLU	72	180.218	81.976	19.795	1.00	56.51	LS12	ATOM	18818	CD2	HIS	79	177.055	62.738	10.304	1.00	92.42	LS1
ATOM	18766	N	GLY	73	180.483	82.209	17.561	1.00	76.51	LS12	ATOM	18819	ND1	HIS	79	177.917	63.779	8.589	1.00	92.42	LS1
ATOM	18767	CA	GLY	73	180.858	80.830	17.312	1.00	76.51	LS12	ATOM	18820	CE1	HIS	79	177.388	62.656	8.137	1.00	92.42	LS1
ATOM	18768	C	GLY	73	180.432	79.754	18.288	1.00	76.51	LS12	ATOM	18821	NE2	HIS	79	176.859	62.007	9.158	1.00	92.42	LS1
ATOM	18769	O	GLY	73	181.155	78.774	18.456	1.00	76.51	LS12	ATOM	18822	C	HIS	79	175.993	66.095	11.241	1.00	69.23	LS1
ATOM	18770	N	HIS	74	179.280	79.898	18.933	1.00	110.38	LS12	ATOM	18823	O	HIS	79	175.319	65.070	11.096	1.00	69.23	LS1
ATOM	18771	CA	HIS	74	178.851	78.851	19.850	1.00	110.38	LS12	ATOM	18824	N	SER	80	175.611	67.142	11.959	1.00	77.21	LS1
ATOM	18772	CB	HIS	74	177.448	79.154	20.430	1.00	93.06	LS12	ATOM	18825	CA	SER	80	174.390	67.203	12.736	1.00	77.21	LS1
ATOM	18773	CG	HIS	74	176.288	78.760	19.549	1.00	93.06	LS12	ATOM	18826	CB	SER	80	174.698	68.001	13.996	1.00	74.41	LS1
ATOM	18774	CD2	HIS	74	176.123	77.746	18.663	1.00	93.06	LS12	ATOM	18827	CG	SER	80	175.719	68.953	13.724	1.00	77.21	LS1
ATOM	18775	ND1	HIS	74	175.081	79.423	19.588	1.00	93.06	LS12	ATOM	18828	C	SER	80	173.158	67.777	12.059	1.00	77.21	LS1
ATOM	18776	CE1	HIS	74	174.226	78.839	18.770	1.00	93.06	LS12	ATOM	18829	O	SER	80	173.243	68.433	11.017	1.00	77.21	LS1
ATOM	18777	NE2	HIS	74	174.834	77.820	18.193	1.00	93.06	LS12	ATOM	18830	N	VAL	81	172.009	67.522	12.683	1.00	60.72	LS1
ATOM	18778	C	HIS	74	178.866	77.566	19.016	1.00	110.38	LS12	ATOM	18831	CA	VAL	81	170.723	68.006	12.197	1.00	60.72	LS1
ATOM	18779	O	HIS	74	178.712	76.455	19.538	1.00	110.38	LS12	ATOM	18832	CB	VAL	81	169.559	67.224	12.818	1.00	50.99	LS1
ATOM	18780	N	ASN	75	179.050	77.762	17.708	1.00	47.47	LS12	ATOM	18833	CG1	VAL	81	168.243	67.798	12.344	1.00	50.99	LS1

Table 1 - 178/490



Table 1 - 179/490

ATOM	18834	CG2 VAL	81	169.661	65.765	12.444	1.00	50.99	LS12	ATOM	18887	NH2 ARG	88	168.247	84.790	-3.475	1.00	87.85	LS1
ATOM	18835	C VAL	81	170.564	69.480	12.564	1.00	60.72	LS12	ATOM	18888	C ARG	88	172.159	86.566	3.989	1.00	42.93	LS1
ATOM	18836	O VAL	81	170.842	69.890	13.696	1.00	60.72	LS12	ATOM	18889	O ARG	88	171.840	87.063	5.078	1.00	42.93	LS1
ATOM	18837	N VAL	82	170.087	70.266	11.606	1.00	65.69	LS12	ATOM	18890	N VAL	89	173.403	86.585	3.515	1.00	58.76	LS1
ATOM	18838	CA VAL	82	169.933	71.695	11.811	1.00	65.69	LS12	ATOM	18891	CA VAL	89	174.503	87.246	4.209	1.00	58.76	LS1
ATOM	18839	CB VAL	82	171.165	72.417	11.178	1.00	47.15	LS12	ATOM	18892	CB VAL	89	175.468	86.228	4.848	1.00	51.18	LS1
ATOM	18840	CG1 VAL	82	171.074	72.390	9.663	1.00	47.15	LS12	ATOM	18893	CG1 VAL	89	176.560	86.963	5.625	1.00	51.18	LS1
ATOM	18841	CG2 VAL	82	171.270	73.825	11.679	1.00	47.15	LS12	ATOM	18894	CG2 VAL	89	174.699	85.296	5.771	1.00	51.18	LS1
ATOM	18842	C VAL	82	168.621	72.220	11.200	1.00	65.69	LS12	ATOM	18895	C VAL	89	175.256	88.052	3.158	1.00	58.76	LS1
ATOM	18843	O VAL	82	167.944	71.505	10.461	1.00	65.69	LS12	ATOM	18896	O VAL	89	175.991	87.490	2.351	1.00	58.76	LS1
ATOM	18844	NH2 LEU	83	168.251	73.454	11.541	1.00	55.05	LS12	ATOM	18897	N LYS	90	175.068	89.367	3.175	1.00	59.56	LS1
ATOM	18845	CA LEU	83	167.053	74.084	10.983	1.00	55.05	LS12	ATOM	18898	CA LYS	90	175.693	90.256	2.199	1.00	59.56	LS1
ATOM	18846	CB LEU	83	166.044	74.441	12.084	1.00	46.33	LS12	ATOM	18899	CB LYS	90	175.668	91.698	2.710	1.00	103.43	LS1
ATOM	18847	CG LEU	83	164.668	74.964	11.622	1.00	46.33	LS12	ATOM	18900	CG LYS	90	175.689	92.752	1.612	1.00	103.43	LS1
ATOM	18848	CD1 LEU	83	163.874	73.810	11.032	1.00	46.33	LS12	ATOM	18901	CD LYS	90	174.399	92.711	0.817	1.00	103.43	LS1
ATOM	18849	CD2 LEU	83	163.898	75.596	12.780	1.00	46.33	LS12	ATOM	18902	CE LYS	90	174.310	93.865	-0.167	1.00	103.43	LS1
ATOM	18850	C LEU	83	167.487	75.360	10.253	1.00	55.05	LS12	ATOM	18903	NZ LYS	90	173.007	93.880	-0.909	1.00	103.43	LS1
ATOM	18851	O LEU	83	168.300	76.129	10.756	1.00	55.05	LS12	ATOM	18904	C LYS	90	177.117	89.903	1.786	1.00	59.56	LS1
ATOM	18852	N ILE	84	166.938	75.578	9.065	1.00	47.97	LS12	ATOM	18905	O LYS	90	177.430	89.900	0.605	1.00	59.56	LS1
ATOM	18853	CA ILE	84	167.265	76.745	8.246	1.00	47.97	LS12	ATOM	18906	N ASP	91	177.978	89.601	2.749	1.00	60.22	LS1
ATOM	18854	CB ILE	84	167.565	76.294	6.816	1.00	63.44	LS12	ATOM	18907	CA ASP	91	179.371	89.277	2.455	1.00	60.22	LS1
ATOM	18855	CG2 ILE	84	167.316	77.421	5.829	1.00	63.44	LS12	ATOM	18908	CB ASP	91	180.205	89.426	3.706	1.00	64.97	LS1
ATOM	18856	CG1 ILE	84	168.989	75.773	6.750	1.00	63.44	LS12	ATOM	18909	CG ASP	91	180.370	90.844	4.077	1.00	64.97	LS1
ATOM	18857	CD1 ILE	84	169.328	75.234	5.411	1.00	63.44	LS12	ATOM	18910	OD1 ASP	91	179.896	91.693	3.275	1.00	64.97	LS1
ATOM	18858	C ILE	84	166.132	77.768	8.220	1.00	47.97	LS12	ATOM	18911	OD2 ASP	91	180.969	91.110	5.140	1.00	60.22	LS1
ATOM	18859	O ILE	84	164.970	77.401	8.051	1.00	47.97	LS12	ATOM	18912	C ASP	91	179.682	87.936	1.862	1.00	60.22	LS1
ATOM	18860	N ARG	85	166.458	79.051	8.353	1.00	74.63	LS12	ATOM	18913	O ASP	91	180.681	87.787	1.175	1.00	60.22	LS1
ATOM	18861	CA ARG	85	165.397	80.047	8.366	1.00	74.63	LS12	ATOM	18914	N LEU	92	178.840	86.955	2.136	1.00	78.01	LS1
ATOM	18862	CB ARG	85	165.377	80.806	9.693	1.00	43.43	LS12	ATOM	18915	CA LEU	92	179.083	85.619	1.642	1.00	78.01	LS1
ATOM	18863	CG ARG	85	166.472	81.815	9.871	1.00	43.43	LS12	ATOM	18916	CB LEU	92	178.838	84.625	2.758	1.00	52.35	LS1
ATOM	18864	CD ARG	85	166.207	82.620	11.131	1.00	43.43	LS12	ATOM	18917	CG LEU	92	179.695	84.932	3.978	1.00	52.35	LS1
ATOM	18865	NE ARG	85	167.314	83.502	11.471	1.00	43.43	LS12	ATOM	18918	CD1 LEU	92	179.416	83.894	5.053	1.00	52.35	LS1
ATOM	18866	CZ ARG	85	167.853	84.362	10.619	1.00	43.43	LS12	ATOM	18919	CD2 LEU	92	181.165	84.940	3.580	1.00	52.35	LS1
ATOM	18867	NH1 ARG	85	167.382	84.448	9.380	1.00	43.43	LS12	ATOM	18920	C LEU	92	178.259	85.250	0.436	1.00	78.01	LS1
ATOM	18868	NH2 ARG	85	168.862	85.134	11.002	1.00	43.43	LS12	ATOM	18921	O LEU	92	177.100	84.851	0.556	1.00	78.01	LS1
ATOM	18869	C ARG	85	165.349	81.062	7.246	1.00	74.63	LS12	ATOM	18922	N PRO	93	178.856	85.366	-0.754	1.00	77.21	LS1
ATOM	18870	O ARG	85	164.466	81.917	7.235	1.00	74.63	LS12	ATOM	18923	CD PRO	93	180.242	85.741	-1.070	1.00	113.71	LS1
ATOM	18871	N GLY	86	166.268	80.996	6.299	1.00	33.73	LS12	ATOM	18924	CA PRO	93	178.119	85.025	-1.965	1.00	77.21	LS1
ATOM	18872	CA GLY	86	166.190	81.978	5.236	1.00	33.73	LS12	ATOM	18925	CB PRO	93	179.125	85.317	-3.078	1.00	113.71	LS1
ATOM	18873	C GLY	86	166.660	83.337	5.707	1.00	33.73	LS12	ATOM	18926	CG PRO	93	180.089	86.295	-2.449	1.00	113.71	LS1
ATOM	18874	O GLY	86	166.288	83.818	6.773	1.00	33.73	LS12	ATOM	18927	C PRO	93	177.786	83.548	-1.881	1.00	77.21	LS1
ATOM	18875	N GLY	87	167.486	83.962	4.886	1.00	43.93	LS12	ATOM	18928	O PRO	93	178.659	82.737	-1.583	1.00	77.21	LS1
ATOM	18876	CA GLY	87	168.056	85.247	5.216	1.00	43.93	LS12	ATOM	18929	N GLY	94	176.526	83.202	-2.109	1.00	49.63	LS1
ATOM	18877	C GLY	87	169.472	85.121	4.712	1.00	43.93	LS12	ATOM	18930	CA GLY	94	176.151	81.802	-2.069	1.00	49.63	LS1
ATOM	18878	O GLY	87	170.257	84.315	5.211	1.00	43.93	LS12	ATOM	18931	C GLY	94	175.511	81.331	-0.782	1.00	49.63	LS1
ATOM	18879	N ARG	88	169.796	85.896	3.693	1.00	42.93	LS12	ATOM	18932	O GLY	94	175.130	80.161	-0.655	1.00	49.63	LS1
ATOM	18880	CA ARG	88	171.120	85.854	3.110	1.00	42.93	LS12	ATOM	18933	N VAL	95	175.397	82.227	0.188	1.00	54.70	LS1
ATOM	18881	CB ARG	88	171.060	86.475	1.713	1.00	87.85	LS12	ATOM	18934	CA VAL	95	174.772	81.859	1.443	1.00	54.70	LS1
ATOM	18882	CG ARG	88	169.893	85.940	0.884	1.00	87.85	LS12	ATOM	18935	CB VAL	95	175.636	82.270	2.633	1.00	33.80	LS1
ATOM	18883	CD ARG	88	170.166	86.074	-0.609	1.00	87.85	LS12	ATOM	18936	CG1 VAL	95	175.318	81.377	3.818	1.00	33.80	LS1
ATOM	18884	NE ARG	88	169.125	85.482	-1.457	1.00	87.85	LS12	ATOM	18937	CG2 VAL	95	177.097	82.168	2.269	1.00	33.80	LS1
ATOM	18885	CZ ARG	88	169.241	85.320	-2.775	1.00	87.85	LS12	ATOM	18938	C VAL	95	173.442	82.594	1.478	1.00	54.70	LS1
ATOM	18886	NH1 ARG	88	170.350	85.698	-3.401	1.00	87.85	LS12	ATOM	18939	O VAL	95	173.405	83.821	1.587	1.00	54.70	LS1

ATOM	18940	N	ARG	96	172.355	81.833	1.371	1.00	56.32	LS12	ATOM	18993	NE	ARG	101	174.765	79.930	16.313	1.00	87.77	LS1
ATOM	18941	CA	ARG	96	171.019	82.407	1.346	1.00	56.32	LS12	ATOM	18994	CZ	ARG	101	175.937	80.193	16.881	1.00	87.77	LS1
ATOM	18942	CB	ARG	96	170.244	81.876	0.148	1.00	74.98	LS12	ATOM	18995	NH1	ARG	101	176.054	81.214	17.718	1.00	87.77	LS1
ATOM	18943	CD	ARG	96	170.845	82.221	-1.191	1.00	74.98	LS12	ATOM	18996	NH2	ARG	101	176.996	79.446	16.608	1.00	87.77	LS1
ATOM	18944	CG	ARG	96	169.943	81.699	-2.282	1.00	74.98	LS12	ATOM	18997	C	ARG	101	169.533	78.084	17.938	1.00	52.82	LS1
ATOM	18945	NE	ARG	96	170.373	82.086	-3.620	1.00	74.98	LS12	ATOM	18998	O	ARG	101	168.613	78.860	18.194	1.00	52.82	LS1
ATOM	18946	CZ	ARG	96	169.664	81.836	-4.713	1.00	74.98	LS12	ATOM	18999	N	GLY	102	169.707	76.944	18.594	1.00	57.63	LS1
ATOM	18947	NH1	ARG	96	168.500	81.205	-4.614	1.00	74.98	LS12	ATOM	19000	CA	GLY	102	168.806	76.586	19.670	1.00	57.63	LS1
ATOM	18948	NH2	ARG	96	170.112	82.217	-5.901	1.00	74.98	LS12	ATOM	19001	C	GLY	102	167.814	75.521	19.254	1.00	57.63	LS1
ATOM	18949	C	ARG	96	170.171	82.188	2.579	1.00	56.32	LS12	ATOM	19002	O	GLY	102	166.948	75.127	20.041	1.00	57.63	LS1
ATOM	18950	CA	ARG	96	169.139	82.828	2.725	1.00	56.32	LS12	ATOM	19003	N	VAL	103	167.940	75.050	18.018	1.00	61.65	LS1
ATOM	18951	N	TYR	97	170.578	81.290	3.462	1.00	42.35	LS12	ATOM	19004	CA	VAL	103	167.047	74.019	17.507	1.00	61.65	LS1
ATOM	18952	CB	TYR	97	169.778	81.044	4.648	1.00	42.35	LS12	ATOM	19005	CB	VAL	103	166.169	74.560	16.352	1.00	52.28	LS1
ATOM	18953	CG	TYR	97	169.066	79.693	4.527	1.00	61.14	LS12	ATOM	19006	CG1	VAL	103	165.347	73.442	15.743	1.00	52.28	LS1
ATOM	18954	CG	TYR	97	168.620	79.341	3.117	1.00	61.14	LS12	ATOM	19007	CG2	VAL	103	165.244	75.637	16.877	1.00	52.28	LS1
ATOM	18955	CD1	TYR	97	169.538	78.889	2.164	1.00	61.14	LS12	ATOM	19008	C	VAL	103	167.843	72.821	17.018	1.00	61.65	LS1
ATOM	18956	CE1	TYR	97	169.139	78.582	0.848	1.00	61.14	LS12	ATOM	19009	O	VAL	103	168.886	72.980	16.387	1.00	61.65	LS1
ATOM	18957	CD2	TYR	97	167.285	79.478	2.724	1.00	61.14	LS12	ATOM	19010	N	TYR	104	167.341	71.629	17.331	1.00	80.85	LS1
ATOM	18958	CE2	TYR	97	166.875	79.174	1.406	1.00	61.14	LS12	ATOM	19011	CA	TYR	104	167.962	70.368	16.942	1.00	80.85	LS1
ATOM	18959	CZ	TYR	97	167.808	78.726	0.472	1.00	61.14	LS12	ATOM	19012	CB	TYR	104	167.985	70.253	15.421	1.00	47.28	LS1
ATOM	18960	OH	TYR	97	167.417	78.428	-0.828	1.00	61.14	LS12	ATOM	19013	CG	TYR	104	166.606	70.246	14.790	1.00	47.28	LS1
ATOM	18961	C	TYR	97	170.649	81.066	5.896	1.00	42.35	LS12	ATOM	19014	CD1	TYR	104	166.338	71.008	13.648	1.00	47.28	LS1
ATOM	18962	O	TYR	97	171.857	80.862	5.821	1.00	42.35	LS12	ATOM	19015	CE1	TYR	104	165.080	70.981	13.035	1.00	47.28	LS1
ATOM	18963	N	HIS	98	170.034	81.343	7.041	1.00	55.20	LS12	ATOM	19016	CD2	TYR	104	165.580	69.456	15.311	1.00	47.28	LS1
ATOM	18964	CA	HIS	98	170.741	81.362	8.318	1.00	55.20	LS12	ATOM	19017	CE2	TYR	104	164.319	69.419	14.708	1.00	47.28	LS1
ATOM	18965	CB	HIS	98	170.278	82.532	9.185	1.00	46.19	LS12	ATOM	19018	CZ	TYR	104	164.073	70.183	13.567	1.00	47.28	LS1
ATOM	18966	CG	HIS	98	170.985	83.818	8.915	1.00	46.19	LS12	ATOM	19019	OH	TYR	104	162.838	70.139	12.944	1.00	47.28	LS1
ATOM	18967	CD2	HIS	98	171.643	84.662	9.745	1.00	46.19	LS12	ATOM	19020	C	TYR	104	169.366	70.174	17.512	1.00	80.85	LS1
ATOM	18968	ND1	HIS	98	171.037	84.394	7.666	1.00	46.19	LS12	ATOM	19021	O	TYR	104	169.529	70.049	18.725	1.00	80.85	LS1
ATOM	18969	CE1	HIS	98	171.696	85.539	7.736	1.00	46.19	LS12	ATOM	19022	N	ASP	105	170.376	70.148	16.646	1.00	56.34	LS1
ATOM	18970	NE2	HIS	98	172.075	85.725	8.988	1.00	46.19	LS12	ATOM	19023	CA	ASP	105	171.754	69.948	17.091	1.00	56.34	LS1
ATOM	18971	C	HIS	98	170.358	80.080	9.039	1.00	55.20	LS12	ATOM	19024	CB	ASP	105	172.494	69.070	16.093	1.00	61.42	LS1
ATOM	18972	O	HIS	98	169.377	79.423	8.677	1.00	55.20	LS12	ATOM	19025	CG	ASP	105	171.985	67.648	16.085	1.00	61.42	LS1
ATOM	18973	N	ILE	99	171.121	79.721	10.061	1.00	60.89	LS12	ATOM	19026	OD1	ASP	105	172.179	66.955	15.060	1.00	61.42	LS1
ATOM	18974	CA	ILE	99	170.788	78.539	10.835	1.00	60.89	LS12	ATOM	19027	OD2	ASP	105	171.399	67.223	17.110	1.00	61.42	LS1
ATOM	18975	CB	ILE	99	172.018	77.688	11.144	1.00	43.50	LS12	ATOM	19028	C	ASP	105	172.535	71.236	17.299	1.00	56.34	LS1
ATOM	18976	CG2	ILE	99	171.813	76.912	12.446	1.00	43.50	LS12	ATOM	19029	O	ASP	105	173.572	71.243	17.968	1.00	56.34	LS1
ATOM	18977	CG1	ILE	99	172.267	76.750	9.965	1.00	43.50	LS12	ATOM	19030	N	ALA	106	172.053	72.325	16.716	1.00	75.69	LS1
ATOM	18978	CD1	ILE	99	173.516	75.921	10.084	1.00	43.50	LS12	ATOM	19031	CA	ALA	106	172.728	73.602	16.865	1.00	75.69	LS1
ATOM	18979	C	ILE	99	170.139	78.982	12.128	1.00	60.89	LS12	ATOM	19032	CB	ALA	106	172.246	74.573	15.803	1.00	123.96	LS1
ATOM	18980	O	ILE	99	170.567	79.950	12.747	1.00	60.89	LS12	ATOM	19033	C	ALA	106	172.426	74.147	18.251	1.00	75.69	LS1
ATOM	18981	N	VAL	100	169.089	78.276	12.519	1.00	51.18	LS12	ATOM	19034	O	ALA	106	171.331	74.652	18.499	1.00	75.69	LS1
ATOM	18982	CA	VAL	100	168.372	78.598	13.732	1.00	51.18	LS12	ATOM	19035	N	ALA	107	173.387	74.029	19.162	1.00	58.75	LS1
ATOM	18983	CB	VAL	100	166.956	78.056	13.684	1.00	42.67	LS12	ATOM	19036	CA	ALA	107	173.197	74.531	20.516	1.00	58.75	LS1
ATOM	18984	CG1	VAL	100	166.319	78.158	15.046	1.00	42.67	LS12	ATOM	19037	CB	ALA	107	174.412	74.216	21.367	1.00	60.64	LS1
ATOM	18985	CG2	VAL	100	166.155	78.833	12.678	1.00	42.67	LS12	ATOM	19038	C	ALA	107	173.006	76.035	20.426	1.00	58.75	LS1
ATOM	18986	C	VAL	100	169.063	78.012	14.939	1.00	51.18	LS12	ATOM	19039	O	ALA	107	173.210	76.612	19.372	1.00	58.75	LS1
ATOM	18987	O	VAL	100	168.903	76.830	15.238	1.00	51.18	LS12	ATOM	19040	N	GLY	108	172.601	76.660	21.526	1.00	51.32	LS1
ATOM	18988	N	ARG	101	169.827	78.839	15.639	1.00	52.82	LS12	ATOM	19041	CA	GLY	108	172.414	78.101	21.541	1.00	51.32	LS1
ATOM	18989	CA	ARG	101	170.531	78.382	16.820	1.00	52.82	LS12	ATOM	19042	C	GLY	108	173.737	78.764	21.867	1.00	51.32	LS1
ATOM	18990	CB	ARG	101	171.526	79.445	17.255	1.00	87.77	LS12	ATOM	19043	O	GLY	108	174.702	78.078	22.183	1.00	51.32	LS1
ATOM	18991	CG	ARG	101	172.318	79.979	16.091	1.00	87.77	LS12	ATOM	19044	N	VAL	109	173.805	80.088	21.798	1.00	64.52	LS1
ATOM	18992	CD	ARG	101	173.553	80.713	16.541	1.00	87.77	LS12	ATOM	19045	CA	VAL	109	175.062	80.761	22.084	1.00	64.52	LS1

Table 1 - 180/490



Table 1 - 181/490

ATOM	19046	CB VAL	109	175.058	82.219	21.598	1.00 44.87	LS12	ATOM	19099	CB SER	115	169.703	90.073	20.526	1.00 53.20	LS
ATOM	19047	CG2 VAL	109	176.465	82.809	21.740	1.00 44.87	LS12	ATOM	19100	OG SER	115	169.931	91.475	20.551	1.00 53.20	LS
ATOM	19048	VAL	109	174.609	82.284	20.148	1.00 44.87	LS12	ATOM	19101	C SER	115	169.206	88.037	21.864	1.00 54.44	LS
ATOM	19049	C VAL	109	175.388	80.723	23.564	1.00 64.52	LS12	ATOM	19102	O SER	115	169.274	87.443	20.795	1.00 54.44	LS
ATOM	19050	O VAL	109	174.496	80.720	24.406	1.00 64.52	LS12	ATOM	19103	N ARG	116	169.012	87.420	23.023	1.00 42.51	LS
ATOM	19051	N LYS	110	176.682	80.693	23.866	1.00 84.45	LS12	ATOM	19104	CA ARG	116	168.933	85.965	23.138	1.00 42.51	LS
ATOM	19052	CA LYS	110	177.169	80.629	25.235	1.00 84.45	LS12	ATOM	19105	CB ARG	116	168.830	85.543	24.609	1.00 61.58	LS
ATOM	19053	CB LYS	110	178.698	80.627	25.236	1.00 84.45	LS12	ATOM	19106	CG ARG	116	169.772	85.241	25.592	1.00 61.58	LS
ATOM	19054	CG LYS	110	179.312	79.420	24.548	1.00 114.44	LS12	ATOM	19107	CD ARG	116	169.765	85.470	26.895	1.00 61.58	LS
ATOM	19055	CD LYS	110	178.941	78.119	25.254	1.00 114.44	LS12	ATOM	19108	NE ARG	116	168.414	85.002	27.186	1.00 61.58	LS
ATOM	19056	CE LYS	110	179.592	76.916	24.579	1.00 114.44	LS12	ATOM	19109	CZ ARG	116	167.512	85.707	27.858	1.00 61.58	LS
ATOM	19057	CZ LYS	110	179.300	75.643	25.292	1.00 114.44	LS12	ATOM	19110	NH1 ARG	116	167.821	86.909	28.328	1.00 61.58	LS
ATOM	19058	C LYS	110	176.660	81.725	26.165	1.00 84.45	LS12	ATOM	19111	NH2 ARG	116	166.289	85.229	28.025	1.00 61.58	LS
ATOM	19059	O LYS	110	175.501	81.717	26.584	1.00 84.45	LS12	ATOM	19112	C ARG	116	167.788	85.309	22.375	1.00 42.51	LS
ATOM	19060	N ASP	111	177.536	82.668	26.491	1.00 78.20	LS12	ATOM	19113	O ARG	116	167.861	84.127	22.071	1.00 42.51	LS
ATOM	19061	CA ASP	111	177.186	83.741	27.410	1.00 78.20	LS12	ATOM	19114	N SER	117	166.725	86.053	22.086	1.00 54.92	LS
ATOM	19062	CB ASP	111	178.446	84.233	28.128	1.00 90.56	LS12	ATOM	19115	CA SER	117	165.590	85.490	21.362	1.00 54.92	LS
ATOM	19063	CG ASP	111	179.137	83.128	28.919	1.00 90.56	LS12	ATOM	19116	CB SER	117	164.583	86.584	21.021	1.00 94.46	LS
ATOM	19064	OD1 ASP	111	179.758	82.238	28.297	1.00 90.56	LS12	ATOM	19117	OG SER	117	163.416	86.036	20.450	1.00 94.46	LS
ATOM	19065	OD2 ASP	111	179.049	83.142	30.165	1.00 90.56	LS12	ATOM	19118	C SER	117	166.137	84.847	20.092	1.00 54.92	LS
ATOM	19066	C ASP	111	176.459	84.905	26.758	1.00 78.20	LS12	ATOM	19119	O SER	117	165.604	83.863	19.594	1.00 54.92	LS
ATOM	19067	O ASP	111	176.881	86.058	26.853	1.00 78.20	LS12	ATOM	19120	N LYS	118	167.205	85.429	19.569	1.00 58.46	LS
ATOM	19068	N ARG	112	175.351	84.592	26.102	1.00 75.54	LS12	ATOM	19121	CA LYS	118	167.891	84.913	18.395	1.00 58.46	LS
ATOM	19069	CA ARG	112	174.544	85.601	25.435	1.00 75.54	LS12	ATOM	19122	CB LYS	118	168.279	86.075	17.509	1.00 36.04	LS
ATOM	19070	CB ARG	112	173.745	84.956	24.304	1.00 69.73	LS12	ATOM	19123	CG LYS	118	167.459	87.325	17.835	1.00 36.04	LS
ATOM	19071	CG ARG	112	174.092	85.505	22.940	1.00 69.73	LS12	ATOM	19124	CD LYS	118	167.627	88.425	16.800	1.00 36.04	LS
ATOM	19072	CD ARG	112	173.619	86.925	22.816	1.00 69.73	LS12	ATOM	19125	CE LYS	118	166.828	89.662	17.181	1.00 36.04	LS
ATOM	19073	NE ARG	112	174.246	87.596	21.691	1.00 69.73	LS12	ATOM	19126	NZ LYS	118	166.905	90.737	16.142	1.00 36.04	LS
ATOM	19074	CZ ARG	112	173.851	88.771	21.227	1.00 69.73	LS12	ATOM	19127	C LYS	118	169.108	84.342	19.097	1.00 58.46	LS
ATOM	19075	NH1 ARG	112	172.824	89.396	21.793	1.00 69.73	LS12	ATOM	19128	O LYS	118	169.467	84.841	20.159	1.00 58.46	LS
ATOM	19076	NH2 ARG	112	174.484	89.322	20.208	1.00 69.73	LS12	ATOM	19129	N TYR	119	169.752	83.319	18.552	1.00 67.46	LS
ATOM	19077	O ARG	112	173.603	86.237	26.445	1.00 75.54	LS12	ATOM	19130	CA TYR	119	170.904	82.709	19.245	1.00 67.46	LS
ATOM	19078	C ARG	112	172.724	85.575	26.992	1.00 75.54	LS12	ATOM	19131	CB TYR	119	171.800	83.771	19.904	1.00 37.33	LS
ATOM	19079	N LYS	113	173.780	87.528	26.688	1.00 67.81	LS12	ATOM	19132	CG TYR	119	172.212	84.893	18.980	1.00 37.33	LS
ATOM	19080	CA LYS	113	172.942	88.208	27.659	1.00 67.81	LS12	ATOM	19133	CD1 TYR	119	172.032	86.230	19.346	1.00 37.33	LS
ATOM	19081	CB LYS	113	173.828	88.857	28.725	1.00 93.19	LS12	ATOM	19134	CE1 TYR	119	172.370	87.264	18.473	1.00 37.33	LS
ATOM	19082	CG LYS	113	174.881	87.897	29.276	1.00 93.19	LS12	ATOM	19135	CD2 TYR	119	172.748	84.617	17.722	1.00 37.33	LS
ATOM	19083	CD LYS	113	175.612	88.464	30.478	1.00 93.19	LS12	ATOM	19136	CE2 TYR	119	173.091	85.640	16.840	1.00 37.33	LS
ATOM	19084	CE LYS	113	174.701	88.532	31.698	1.00 93.19	LS12	ATOM	19137	CZ TYR	119	172.898	86.962	17.213	1.00 37.33	LS
ATOM	19085	NZ LYS	113	175.403	89.091	32.890	1.00 93.19	LS12	ATOM	19138	OH TYR	119	173.195	87.957	16.298	1.00 37.33	LS
ATOM	19086	C LYS	113	171.996	89.233	27.047	1.00 67.81	LS12	ATOM	19139	C TYR	119	170.348	81.796	20.341	1.00 67.46	LS
ATOM	19087	O LYS	113	171.181	89.816	27.754	1.00 67.81	LS12	ATOM	19140	O TYR	119	171.039	81.464	21.291	1.00 67.46	LS
ATOM	19088	N LYS	114	172.089	89.443	25.736	1.00 72.96	LS12	ATOM	19141	N GLY	120	169.081	81.425	20.189	1.00 69.28	LS
ATOM	19089	CA LYS	114	171.212	90.403	25.074	1.00 72.96	LS12	ATOM	19142	CA GLY	120	168.380	80.559	21.124	1.00 69.28	LS
ATOM	19090	CG LYS	114	172.017	91.390	24.238	1.00 49.94	LS12	ATOM	19143	C GLY	120	168.944	80.213	22.494	1.00 69.28	LS
ATOM	19091	CG LYS	114	173.056	92.148	25.025	1.00 49.94	LS12	ATOM	19144	O GLY	120	169.153	79.034	22.785	1.00 69.28	LS
ATOM	19092	CD LYS	114	172.625	93.540	25.435	1.00 49.94	LS12	ATOM	19145	N THR	121	169.171	81.214	23.344	1.00 52.90	LS
ATOM	19093	CE LYS	114	173.776	94.225	26.169	1.00 49.94	LS12	ATOM	19146	CA THR	121	169.680	80.966	24.693	1.00 52.90	LS
ATOM	19094	NZ LYS	114	173.474	95.631	26.553	1.00 49.94	LS12	ATOM	19147	CB THR	121	170.936	81.791	24.979	1.00 60.16	LS
ATOM	19095	C LYS	114	170.155	89.769	24.187	1.00 72.96	LS12	ATOM	19148	OG1 THR	121	170.591	83.176	25.021	1.00 60.16	LS
ATOM	19096	O LYS	114	169.268	89.058	24.662	1.00 72.96	LS12	ATOM	19149	CG2 THR	121	171.965	81.580	23.903	1.00 60.16	LS
ATOM	19097	N SER	115	170.260	90.039	22.894	1.00 54.44	LS12	ATOM	19150	C THR	121	168.629	81.303	25.768	1.00 52.90	LS
ATOM	19098	CA SER	115	169.306	89.551	21.906	1.00 54.44	LS12	ATOM	19151	O THR	121	168.034	82.397	25.765	1.00 52.90	LS

ATOM	19152	N	LYS	122	168.408	80.356	26.684	1.00	47.79	LS12	ATOM	19205	C1' ADE	1	206.612	108.609	-24.315	1.00	94.39	XME	
ATOM	19153	CA	LYS	122	167.435	80.530	27.766	1.00	47.79	LS12	ATOM	19206	N9 ADE	1	206.206	109.835	-25.013	1.00	112.28	XME	
ATOM	19154	CB	LYS	122	167.363	79.271	28.631	1.00	58.07	LS12	ATOM	19207	C4 ADE	1	205.550	110.923	-24.475	1.00	112.28	XME	
ATOM	19155	CG	LYS	122	167.221	77.974	27.856	1.00	58.07	LS12	ATOM	19208	N3 ADE	1	205.115	111.077	-23.209	1.00	112.28	XME	
ATOM	19156	CD	LYS	122	165.829	77.765	27.275	1.00	58.07	LS12	ATOM	19209	C2 ADE	1	204.544	112.278	-23.047	1.00	112.28	XME	
ATOM	19157	CE	LYS	122	165.794	76.470	26.464	1.00	58.07	LS12	ATOM	19210	N1 ADE	1	204.377	113.271	-23.938	1.00	112.28	XME	
ATOM	19158	NZ	LYS	122	164.446	76.153	25.943	1.00	58.07	LS12	ATOM	19211	C6 ADE	1	204.832	113.089	-25.199	1.00	112.28	XME	
ATOM	19159	C	LYS	122	167.817	81.722	28.640	1.00	47.79	LS12	ATOM	19212	N6 ADE	1	204.692	114.086	-26.082	1.00	112.28	XME	
ATOM	19160	O	LYS	122	168.927	82.255	28.539	1.00	47.79	LS12	ATOM	19213	C5 ADE	1	205.444	111.849	-25.505	1.00	112.28	XME	
ATOM	19161	N	LYS	123	166.903	82.133	29.511	1.00	67.02	LS12	ATOM	19214	N7 ADE	1	205.998	111.345	-26.675	1.00	112.28	XME	
ATOM	19162	CA	LYS	123	167.177	83.278	30.362	1.00	67.02	LS12	ATOM	19215	C8 ADE	1	206.429	110.153	-26.334	1.00	112.28	XME	
ATOM	19163	CB	LYS	123	165.880	83.857	30.943	1.00	60.85	LS12	ATOM	19216	C2' ADE	1	205.470	107.688	-23.871	1.00	94.39	XME	
ATOM	19164	CG	LYS	123	166.138	85.099	31.794	1.00	60.85	LS12	ATOM	19217	O2' ADE	1	205.708	107.215	-22.552	1.00	94.39	XME	
ATOM	19165	CD	LYS	123	165.130	86.213	31.571	1.00	60.85	LS12	ATOM	19218	C3' ADE	1	205.506	106.599	-24.949	1.00	94.39	XME	
ATOM	19166	CE	LYS	123	165.603	87.486	32.259	1.00	60.85	LS12	ATOM	19219	O3' ADE	1	205.042	105.352	-24.445	1.00	94.39	XME	
ATOM	19167	NZ	LYS	123	164.588	88.566	32.228	1.00	60.85	LS12	ATOM	19220	P	URI	2	203.687	104.713	-25.022	1.00	68.66	XME
ATOM	19168	C	LYS	123	168.148	82.981	31.491	1.00	67.02	LS12	ATOM	19221	O1P URI	2	203.881	104.555	-26.484	1.00	51.29	XME	
ATOM	19169	O	LYS	123	167.960	82.029	32.250	1.00	67.02	LS12	ATOM	19222	O2P URI	2	202.539	105.507	-24.514	1.00	51.29	XME	
ATOM	19170	N	PRO	124	169.203	83.805	31.616	1.00	75.93	LS12	ATOM	19223	O5' URI	2	203.647	103.288	-24.314	1.00	68.66	XME	
ATOM	19171	CD	PRO	124	169.470	84.999	30.793	1.00	95.29	LS12	ATOM	19224	C5' URI	2	203.647	103.288	-24.314	1.00	68.66	XME	
ATOM	19172	CA	PRO	124	170.223	83.660	32.650	1.00	75.93	LS12	ATOM	19225	C4' URI	2	203.134	100.961	-24.043	1.00	68.66	XME	
ATOM	19173	CB	PRO	124	170.959	84.990	32.589	1.00	95.29	LS12	ATOM	19226	O4' URI	2	204.545	100.639	-23.927	1.00	68.66	XME	
ATOM	19174	CG	PRO	124	170.908	85.319	31.145	1.00	95.29	LS12	ATOM	19227	C1' URI	2	204.821	100.139	-22.626	1.00	68.66	XME	
ATOM	19175	C	PRO	124	169.576	83.427	34.005	1.00	75.93	LS12	ATOM	19228	N1 URI	2	205.759	101.052	-21.947	1.00	51.29	XME	
ATOM	19176	O	PRO	124	168.734	84.212	34.456	1.00	75.93	LS12	ATOM	19229	C6 URI	2	206.035	102.311	-22.447	1.00	51.29	XME	
ATOM	19177	N	LYS	125	169.981	82.330	34.633	1.00	135.72	LS12	ATOM	19230	C2 URI	2	206.355	100.609	-20.761	1.00	51.29	XME	
ATOM	19178	CA	LYS	125	169.494	81.906	35.942	1.00	135.72	LS12	ATOM	19231	O2 URI	2	206.149	99.497	-20.273	1.00	51.29	XME	
ATOM	19179	CB	LYS	125	170.176	80.590	36.313	1.00	132.41	LS12	ATOM	19232	N3 URI	2	207.193	101.516	-20.164	1.00	51.29	XME	
ATOM	19180	CG	LYS	125	171.624	80.500	35.810	1.00	132.41	LS12	ATOM	19233	C4 URI	2	207.493	102.786	-20.604	1.00	51.29	XME	
ATOM	19181	CD	LYS	125	172.451	81.715	36.233	1.00	132.41	LS12	ATOM	19234	O4 URI	2	208.207	103.509	-19.904	1.00	51.29	XME	
ATOM	19182	CE	LYS	125	173.755	81.807	35.459	1.00	132.41	LS12	ATOM	19235	C5 URI	2	206.855	103.166	-21.834	1.00	51.29	XME	
ATOM	19183	NZ	LYS	125	174.496	83.054	35.793	1.00	132.41	LS12	ATOM	19236	C2' URI	2	203.494	100.071	-21.875	1.00	68.66	XME	
ATOM	19184	C	LYS	125	169.742	82.928	37.048	1.00	135.72	LS12	ATOM	19237	O2' URI	2	202.951	98.769	-21.982	1.00	68.66	XME	
ATOM	19185	O	LYS	125	169.287	82.742	38.175	1.00	135.72	LS12	ATOM	19238	C3' URI	2	202.683	101.131	-22.604	1.00	68.66	XME	
ATOM	19186	N	GLU	126	170.467	83.993	36.713	1.00	132.53	LS12	ATOM	19239	O3' URI	2	201.285	100.957	-22.439	1.00	68.66	XME	
ATOM	19187	CA	GLU	126	170.824	85.057	37.651	1.00	132.53	LS12	ATOM	19240	P	CYT	3	200.513	101.812	-21.317	1.00	60.78	XME
ATOM	19188	CB	GLU	126	171.105	86.358	36.885	1.00	174.36	LS12	ATOM	19241	O1P CYT	3	199.087	101.358	-21.318	1.00	49.72	XME	
ATOM	19189	CG	GLU	126	169.886	87.017	36.246	1.00	174.36	LS12	ATOM	19242	O2P CYT	3	200.842	103.249	-21.554	1.00	49.72	XME	
ATOM	19190	CD	GLU	126	169.240	88.066	37.141	1.00	174.36	LS12	ATOM	19243	O5' CYT	3	201.158	101.301	-19.957	1.00	60.78	XME	
ATOM	19191	OE1	GLU	126	168.773	87.717	38.244	1.00	174.36	LS12	ATOM	19244	C5' CYT	3	201.028	99.920	-19.597	1.00	60.78	XME	
ATOM	19192	OE2	GLU	126	169.200	89.248	36.737	1.00	174.36	LS12	ATOM	19245	C4' CYT	3	201.823	99.609	-18.354	1.00	60.78	XME	
ATOM	19193	C	GLU	126	169.819	85.327	38.768	1.00	132.53	LS12	ATOM	19246	O4' CYT	3	203.224	99.941	-18.558	1.00	60.78	XME	
ATOM	19194	O	GLU	126	168.680	84.857	38.731	1.00	132.53	LS12	ATOM	19247	C1' CYT	3	203.796	100.336	-17.327	1.00	60.78	XME	
ATOM	19195	N	ALA	127	170.269	86.105	39.750	1.00	131.96	LS12	ATOM	19248	N1 CYT	3	204.363	101.693	-17.461	1.00	49.72	XME	
ATOM	19196	CA	ALA	127	169.493	86.486	40.932	1.00	131.96	LS12	ATOM	19249	C6 CYT	3	204.090	102.480	-18.549	1.00	49.72	XME	
ATOM	19197	CB	ALA	127	167.986	86.279	40.707	1.00	110.11	LS12	ATOM	19250	C2 CYT	3	205.211	102.166	-16.441	1.00	49.72	XME	
ATOM	19198	C	ALA	127	169.967	85.653	42.114	1.00	131.96	LS12	ATOM	19251	O2 CYT	3	205.402	101.455	-15.430	1.00	49.72	XME	
ATOM	19199	O	ALA	127	170.994	84.954	41.963	1.00	131.96	LS12	ATOM	19252	N3 CYT	3	205.789	103.380	-16.574	1.00	49.72	XME	
ATOM	19200	OXT	ALA	127	169.318	85.717	43.177	1.00	139.08	LS12	ATOM	19253	C4 CYT	3	205.536	104.124	-17.646	1.00	49.72	XME	
ATOM	19201	O5' ADE	1	207.287	106.875	-27.833	1.00	94.39	XMES		ATOM	19254	N4 CYT	3	206.147	105.301	-17.734	1.00	49.72	XME	
ATOM	19202	C5' ADE	1	207.319	105.966	-26.708	1.00	94.39	XMES		ATOM	19255	C5 CYT	3	204.648	103.691	-18.679	1.00	49.72	XME	
ATOM	19203	C4' ADE	1	206.982	106.512	-25.320	1.00	94.39	XMES		ATOM	19256	C2' CYT	3	202.710	100.240	-16.257	1.00	60.78	XME	
ATOM	19204	O4' ADE	1	207.477	107.870	-25.168	1.00	94.39	XMES		ATOM	19257	O2' CYT	3	202.826	98.975	-15.637	1.00	60.78	XME	

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ATOM	19258	C3' CYT	3	201.441	100.355	-17.090	1.00	60.78	XMES	ATOM	19311	C6	GUA	6	138.083	114.153	4.130	1.00	57.78	Al6	
ATOM	19259	O3' CYT	3	200.329	99.752	-16.448	1.00	60.78	XMES	ATOM	19312	O6	GUA	6	137.558	115.273	4.068	1.00	57.78	Al6	
ATOM	19260	PA' CYT	4	199.354	100.650	-15.534	1.00	78.75	XMES	ATOM	19313	C5	GUA	6	138.343	113.239	3.079	1.00	57.78	Al6	
ATOM	19261	O1P CYT	4	198.369	99.694	-14.978	1.00	51.45	XMES	ATOM	19314	N7	GUA	6	138.100	113.349	1.721	1.00	57.78	Al6	
ATOM	19262	O2P CYT	4	198.875	101.847	-16.286	1.00	51.45	XMES	ATOM	19315	C8	GUA	6	138.540	112.230	1.218	1.00	57.78	Al6	
ATOM	19263	O5' CYT	4	200.282	101.153	-14.339	1.00	78.75	XMES	ATOM	19316	C2' GUA	6	141.009	109.725	2.509	1.00	48.23	Al6		
ATOM	19264	C5' CYT	4	200.627	100.273	-13.251	1.00	78.75	XMES	ATOM	19317	O2' GUA	6	141.834	109.204	1.491	1.00	48.23	Al6		
ATOM	19265	C4' CYT	4	201.518	100.985	-12.262	1.00	78.75	XMES	ATOM	19318	C3' GUA	6	140.647	108.608	3.486	1.00	48.23	Al6		
ATOM	19266	O4' CYT	4	202.722	101.432	-12.936	1.00	78.75	XMES	ATOM	19319	O3' GUA	6	141.719	107.684	3.586	1.00	48.23	Al6		
ATOM	19267	C1' CYT	4	203.144	102.671	-12.384	1.00	78.75	XMES	ATOM	19320	P	GUA	7	143.127	108.135	4.217	1.00	48.00	Al6	
ATOM	19268	PA' CYT	4	203.159	103.684	-13.461	1.00	51.45	XMES	ATOM	19321	O1P GUA	7	142.956	109.433	4.907	1.00	49.66	Al6		
ATOM	19269	C6' CYT	4	202.377	103.537	-14.574	1.00	51.45	XMES	ATOM	19322	O2P GUA	7	143.688	106.979	4.968	1.00	49.66	Al6		
ATOM	19270	C2' CYT	4	203.998	104.807	-13.331	1.00	51.45	XMES	ATOM	19323	O5' GUA	7	144.027	108.421	2.937	1.00	48.00	Al6		
ATOM	19271	O2' CYT	4	204.683	104.939	-12.300	1.00	51.45	XMES	ATOM	19324	C5' GUA	7	145.066	107.513	2.521	1.00	48.00	Al6		
ATOM	19272	N3' CYT	4	204.035	105.725	-14.329	1.00	51.45	XMES	ATOM	19325	C4' GUA	7	145.999	108.210	1.562	1.00	48.00	Al6		
ATOM	19273	C4' CYT	4	203.270	105.567	-15.411	1.00	51.45	XMES	ATOM	19326	O4' GUA	7	145.325	108.476	0.323	1.00	48.00	Al6		
ATOM	19274	N4' CYT	4	203.336	106.506	-16.369	1.00	51.45	XMES	ATOM	19327	C1' GUA	7	145.974	109.548	-0.306	1.00	48.00	Al6		
ATOM	19275	C5' CYT	4	202.401	104.444	-15.562	1.00	51.45	XMES	ATOM	19328	N9	GUA	7	145.027	110.204	-1.190	1.00	49.66	Al6	
ATOM	19276	C2' CYT	4	202.195	103.018	-11.232	1.00	78.75	XMES	ATOM	19329	C4	GUA	7	145.244	110.515	-2.504	1.00	49.66	Al6	
ATOM	19277	O2' CYT	4	202.749	102.537	-10.021	1.00	78.75	XMES	ATOM	19330	N3	GUA	7	146.385	110.297	-3.191	1.00	49.66	Al6	
ATOM	19278	C3' CYT	4	200.947	102.248	-11.636	1.00	78.75	XMES	ATOM	19331	C2	GUA	7	146.281	110.672	-4.449	1.00	49.66	Al6	
ATOM	19279	O3' CYT	4	199.867	102.130	-10.704	1.00	78.75	XMES	ATOM	19332	N2	GUA	7	147.315	110.507	-5.280	1.00	49.66	Al6	
ATOM	19280	O5' URI	5	133.534	110.624	1.569	1.00	53.99	Al6S	ATOM	19333	N1	GUA	7	145.155	111.233	-4.990	1.00	49.66	Al6	
ATOM	19281	C5' URI	5	133.710	109.633	2.593	1.00	53.99	Al6S	ATOM	19334	C6	GUA	7	143.971	111.479	-4.301	1.00	49.66	Al6	
ATOM	19282	C4' URI	5	134.887	109.900	3.516	1.00	53.99	Al6S	ATOM	19335	O6	GUA	7	143.009	112.007	-4.885	1.00	49.66	Al6	
ATOM	19283	O4' URI	5	134.834	111.272	3.965	1.00	53.99	Al6S	ATOM	19336	C5	GUA	7	144.063	111.064	-2.949	1.00	49.66	Al6	
ATOM	19284	C1' URI	5	135.435	111.373	5.236	1.00	53.99	Al6S	ATOM	19337	N7	GUA	7	143.129	111.115	-1.924	1.00	49.66	Al6	
ATOM	19285	N1' URI	5	134.721	112.366	6.055	1.00	91.96	Al6S	ATOM	19338	C8	GUA	7	143.749	110.603	-0.899	1.00	49.66	Al6	
ATOM	19286	C6' URI	5	133.781	113.200	5.490	1.00	91.96	Al6S	ATOM	19339	C2' GUA	7	146.539	110.453	0.782	1.00	48.00	Al6		
ATOM	19287	C2' URI	5	135.044	112.473	7.401	1.00	91.96	Al6S	ATOM	19340	O2' GUA	7	147.841	110.837	0.438	1.00	48.00	Al6		
ATOM	19288	O2' URI	5	135.840	111.735	7.960	1.00	91.96	Al6S	ATOM	19341	C3' GUA	7	146.442	109.580	2.034	1.00	48.00	Al6		
ATOM	19289	N3' URI	5	134.395	113.482	8.069	1.00	91.96	Al6S	ATOM	19342	O3' GUA	7	147.593	109.530	2.892	1.00	48.00	Al6		
ATOM	19290	C4' URI	5	133.472	114.368	7.547	1.00	91.96	Al6S	ATOM	19343	P	ADE	8	148.946	108.784	2.428	1.00	41.72	Al6	
ATOM	19291	O4' URI	5	133.032	115.272	8.256	1.00	91.96	Al6S	ATOM	19344	O1P ADE	8	148.987	108.630	0.948	1.00	45.62	Al6		
ATOM	19292	C5' URI	5	133.168	114.169	6.169	1.00	91.96	Al6S	ATOM	19345	O2P ADE	8	149.052	107.573	3.284	1.00	45.62	Al6		
ATOM	19293	C2' URI	5	135.701	109.972	5.794	1.00	53.99	Al6S	ATOM	19346	O5' ADE	8	150.082	109.791	2.899	1.00	41.72	Al6		
ATOM	19294	O2' URI	5	137.100	109.853	5.806	1.00	53.99	Al6S	ATOM	19347	C5' ADE	8	150.278	111.035	2.232	1.00	41.72	Al6		
ATOM	19295	C3' URI	5	134.969	109.059	4.795	1.00	53.99	Al6S	ATOM	19348	C4' ADE	8	151.688	111.505	2.452	1.00	41.72	Al6		
ATOM	19296	O3' URI	5	135.579	107.773	4.467	1.00	53.99	Al6S	ATOM	19349	O4' ADE	8	151.811	111.986	3.808	1.00	41.72	Al6		
ATOM	19297	P	GUA	6	136.736	107.103	5.401	1.00	48.23	Al6S	ATOM	19350	C1' ADE	8	152.825	111.280	4.467	1.00	41.72	Al6	
ATOM	19298	O1P GUA	6	136.620	105.657	5.086	1.00	57.78	Al6S	ATOM	19351	N9	ADE	8	152.408	111.075	5.847	1.00	45.62	Al6	
ATOM	19299	O2P GUA	6	136.714	107.538	6.828	1.00	57.78	Al6S	ATOM	19352	C4	ADE	8	153.242	111.040	6.932	1.00	45.62	Al6	
ATOM	19300	O5' GUA	6	138.106	107.608	4.760	1.00	48.23	Al6S	ATOM	19353	N3	ADE	8	154.575	111.186	6.935	1.00	45.62	Al6	
ATOM	19301	C5' GUA	6	138.578	107.010	3.550	1.00	48.23	Al6S	ATOM	19354	C2	ADE	8	155.055	111.072	8.166	1.00	45.62	Al6	
ATOM	19302	C4' GUA	6	139.476	107.947	2.781	1.00	48.23	Al6S	ATOM	19355	N1	ADE	8	154.406	110.844	9.307	1.00	45.62	Al6	
ATOM	19303	O4' GUA	6	138.735	109.052	2.212	1.00	48.23	Al6S	ATOM	19356	C6	ADE	8	153.063	110.704	9.266	1.00	45.62	Al6	
ATOM	19304	C1' GUA	6	139.652	110.073	1.877	1.00	48.23	Al6S	ATOM	19357	N6	ADE	8	152.406	110.473	10.406	1.00	45.62	Al6	
ATOM	19305	N9	GUA	6	139.068	111.386	2.158	1.00	57.78	Al6S	ATOM	19358	C5	ADE	8	152.434	110.808	8.020	1.00	45.62	Al6
ATOM	19306	C4	GUA	6	138.941	112.034	3.373	1.00	57.78	Al6S	ATOM	19359	N7	ADE	8	151.107	110.708	7.633	1.00	45.62	Al6
ATOM	19307	N3	GUA	6	139.339	111.570	4.574	1.00	57.78	Al6S	ATOM	19360	C8	ADE	8	151.147	110.873	6.337	1.00	45.62	Al6
ATOM	19308	C2	GUA	6	139.092	112.435	5.544	1.00	57.78	Al6S	ATOM	19361	C2' ADE	8	153.013	109.977	3.696	1.00	41.72	Al6	
ATOM	19309	N2	GUA	6	139.424	112.143	6.803	1.00	57.78	Al6S	ATOM	19362	O2' ADE	8	154.315	109.469	3.888	1.00	41.72	Al6	
ATOM	19310	N1	GUA	6	138.501	113.653	5.355	1.00	57.78	Al6S	ATOM	19363	C3' ADE	8	152.746	110.423	2.267	1.00	41.72	Al6	

ATOM 19364	O3' ADE	8	153.936	110.987	1.719	1.00	41.72	Al6S	19417	C1' GUA	11	167.949	105.260	2.529	1.00	41.70	Al6
ATOM 19365	P' GUA	9	154.190	110.945	0.129	1.00	36.84	Al6S	19418	N9 GUA	11	167.095	105.351	1.352	1.00	33.97	Al6
ATOM 19366	O1P GUA	9	153.670	112.235	-0.428	1.00	37.31	Al6S	19419	C4 GUA	11	166.875	104.369	0.425	1.00	33.97	Al6
ATOM 19367	O2P GUA	9	153.684	109.654	-0.401	1.00	37.31	Al6S	19420	N3 GUA	11	167.384	103.121	0.458	1.00	33.97	Al6
ATOM 19368	O5' GUA	9	155.774	110.900	-0.002	1.00	36.84	Al6S	19421	C2 GUA	11	167.012	102.408	-0.589	1.00	33.97	Al6
ATOM 19369	C5' GUA	9	156.588	111.775	0.764	1.00	36.84	Al6S	19422	N2 GUA	11	167.416	101.142	-0.707	1.00	33.97	Al6
ATOM 19370	C4' GUA	9	157.228	111.035	1.913	1.00	36.84	Al6S	19423	N1 GUA	11	166.212	102.881	-1.598	1.00	33.97	Al6
ATOM 19371	O4' GUA	9	156.541	109.791	2.193	1.00	36.84	Al6S	19424	C6 GUA	11	165.675	104.161	-1.662	1.00	33.97	Al6
ATOM 19372	C1' GUA	9	157.462	108.838	2.707	1.00	36.84	Al6S	19425	O6 GUA	11	164.972	104.489	-2.634	1.00	33.97	Al6
ATOM 19373	N9 GUA	9	157.519	107.692	1.806	1.00	37.31	Al6S	19426	C5 GUA	11	166.056	104.940	-0.527	1.00	33.97	Al6
ATOM 19374	C3' GUA	9	158.285	106.565	1.975	1.00	37.31	Al6S	19427	N7 GUA	11	165.742	106.248	-0.184	1.00	33.97	Al6
ATOM 19375	N3 GUA	9	159.088	106.303	3.024	1.00	37.31	Al6S	19428	C8 GUA	11	166.378	106.446	0.937	1.00	33.97	Al6
ATOM 19376	C2' GUA	9	159.701	105.138	2.899	1.00	37.31	Al6S	19429	O2' GUA	11	169.401	105.628	2.211	1.00	41.70	Al6
ATOM 19377	N2 GUA	9	160.532	104.718	3.856	1.00	37.31	Al6S	19430	C3' GUA	11	169.405	107.120	2.501	1.00	41.70	Al6
ATOM 19378	N1 GUA	9	159.542	104.303	1.826	1.00	37.31	Al6S	19431	O3' GUA	11	170.696	107.647	2.757	1.00	41.70	Al6
ATOM 19379	C6 GUA	9	158.723	104.562	0.730	1.00	37.31	Al6S	19432	O3' GUA	11	171.453	108.469	1.597	1.00	38.15	Al6
ATOM 19380	C5 GUA	9	158.654	103.750	-0.198	1.00	37.31	Al6S	19433	P' URI	12	172.719	108.994	2.141	1.00	40.93	Al6
ATOM 19381	O6 GUA	9	157.153	106.417	0.009	1.00	37.31	Al6S	19434	O1P URI	12	170.505	109.401	0.927	1.00	40.93	Al6
ATOM 19382	N7 GUA	9	156.854	107.532	0.615	1.00	37.31	Al6S	19435	O2P URI	12	171.841	107.334	0.555	1.00	38.15	Al6
ATOM 19383	C8 GUA	9	158.819	109.521	2.769	1.00	36.84	Al6S	19436	O5' URI	12	172.795	106.320	0.891	1.00	38.15	Al6
ATOM 19384	O2' GUA	9	158.958	110.048	4.066	1.00	36.84	Al6S	19437	C5' URI	12	172.812	105.252	-0.168	1.00	38.15	Al6
ATOM 19385	C2' GUA	9	158.661	110.604	1.713	1.00	36.84	Al6S	19438	O4' URI	12	171.523	104.590	-0.206	1.00	38.15	Al6
ATOM 19386	C3' GUA	9	159.535	111.687	1.923	1.00	36.84	Al6S	19439	O4' URI	12	171.234	104.172	-1.526	1.00	40.93	Al6
ATOM 19387	O3' GUA	9	160.925	111.731	1.141	1.00	36.74	Al6S	19440	C1' URI	12	170.008	104.843	-1.979	1.00	40.93	Al6
ATOM 19388	P' ADE	10	161.481	113.105	1.300	1.00	37.97	Al6S	19441	N1 URI	12	169.708	106.118	-1.576	1.00	40.93	Al6
ATOM 19389	O1P ADE	10	162.072	111.197	-0.234	1.00	37.97	Al6S	19442	C6 URI	12	169.180	104.168	-2.864	1.00	40.93	Al6
ATOM 19390	O2P ADE	10	161.808	110.706	1.981	1.00	36.74	Al6S	19443	C2 URI	12	169.345	103.001	-3.188	1.00	40.93	Al6
ATOM 19391	O5' ADE	10	162.832	109.801	3.366	1.00	36.74	Al6S	19444	O2 URI	12	168.132	104.907	-3.350	1.00	40.93	Al6
ATOM 19392	C5' ADE	10	162.072	109.801	3.984	1.00	36.74	Al6S	19445	N3 URI	12	166.935	106.791	-3.033	1.00	40.93	Al6
ATOM 19393	C4' ADE	10	162.014	108.604	3.958	1.00	36.74	Al6S	19446	O4 URI	12	173.316	103.455	-2.478	1.00	38.15	Al6
ATOM 19394	O4' ADE	10	162.822	107.473	3.678	1.00	36.74	Al6S	19447	C4 URI	12	172.430	104.560	-2.392	1.00	38.15	Al6
ATOM 19395	C1' ADE	10	162.454	106.997	2.342	1.00	37.97	Al6S	19448	C5 URI	12	173.021	105.717	-1.596	1.00	38.15	Al6
ATOM 19396	N9 ADE	10	162.729	105.773	1.780	1.00	37.97	Al6S	19449	C2' URI	12	174.394	105.946	-1.896	1.00	38.15	Al6
ATOM 19397	C4 ADE	10	163.400	104.748	2.335	1.00	37.97	Al6S	19450	C3' URI	12	174.813	107.272	-2.703	1.00	46.16	Al6
ATOM 19398	N3 ADE	10	163.438	103.710	1.499	1.00	37.97	Al6S	19451	O3' URI	12	176.208	107.603	-2.327	1.00	41.57	Al6
ATOM 19399	C2 ADE	10	162.929	103.596	0.269	1.00	37.97	Al6S	19452	O3' URI	12	173.737	108.267	-2.471	1.00	41.57	Al6
ATOM 19400	N1 ADE	10	162.272	104.649	-0.258	1.00	37.97	Al6S	19453	P' URI	13	174.748	106.881	-4.255	1.00	46.16	Al6
ATOM 19401	C6 ADE	10	161.774	104.543	-1.488	1.00	37.97	Al6S	19454	O1P URI	13	174.944	105.522	-4.701	1.00	46.16	Al6
ATOM 19402	N6 ADE	10	162.151	105.798	0.524	1.00	37.97	Al6S	19455	O2P URI	13	175.468	105.485	-6.126	1.00	46.16	Al6
ATOM 19403	C5 ADE	10	161.529	107.013	0.293	1.00	37.97	Al6S	19456	O5' URI	13	174.448	105.143	-7.104	1.00	46.16	Al6
ATOM 19404	N7 ADE	10	161.745	107.689	1.392	1.00	37.97	Al6S	19457	C5' URI	13	174.695	105.884	-8.278	1.00	46.16	Al6
ATOM 19405	C8 ADE	10	164.272	107.945	3.734	1.00	36.74	Al6S	19458	C4' URI	13	173.469	105.964	-9.087	1.00	41.57	Al6
ATOM 19406	O2' ADE	10	164.756	107.866	5.061	1.00	36.74	Al6S	19459	O4' URI	13	172.656	107.057	-9.053	1.00	41.57	Al6
ATOM 19407	O3' ADE	10	164.120	109.390	3.297	1.00	36.74	Al6S	19460	C1' URI	13	173.168	104.896	-9.894	1.00	41.57	Al6
ATOM 19408	C3' ADE	10	165.232	110.173	3.671	1.00	36.74	Al6S	19461	N1 URI	13	173.863	103.912	-9.965	1.00	41.57	Al6
ATOM 19409	O3' ADE	11	166.437	110.362	2.630	1.00	41.70	Al6S	19462	C6 URI	13	172.020	105.019	-10.626	1.00	41.57	Al6
ATOM 19410	P' GUA	11	167.361	111.379	3.216	1.00	33.97	Al6S	19463	O2 URI	13	171.157	106.089	-10.635	1.00	41.57	Al6
ATOM 19411	O1P GUA	11	165.867	110.572	1.268	1.00	33.97	Al6S	19464	O2 URI	13	170.150	106.066	-11.356	1.00	41.57	Al6
ATOM 19412	O2P GUA	11	167.807	108.536	3.897	1.00	41.70	Al6S	19465	N3 URI	13	171.543	107.156	-9.779	1.00	41.57	Al6
ATOM 19413	O5' GUA	11	168.484	108.213	3.702	1.00	41.70	Al6S	19466	C4 URI	13	175.283	107.201	-7.777	1.00	46.16	Al6
ATOM 19414	C5' GUA	11	167.475	106.202	3.470	1.00	41.70	Al6S	19467	O4 URI	13						
ATOM 19415	C4' GUA	11							19468	C5 URI	13						
ATOM 19416	O4' GUA	11							19469	C2' URI	13						

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ATOM	19470	O2' URI	13	175.979	107.841	-8.823	1.00	46.16	Al6S	ATOM	19523	Cl' ADE	16	178.924	117.999	-5.631	1.00	38.99	Al6
ATOM	19471	C3' URI	13	176.207	106.707	-6.668	1.00	46.16	Al6S	ATOM	19524	N9 ADE	16	179.092	117.195	-6.846	1.00	39.07	Al6
ATOM	19472	O2' URI	13	177.413	106.278	-7.281	1.00	46.16	Al6S	ATOM	19525	C4 ADE	16	178.729	117.582	-8.113	1.00	39.07	Al6
ATOM	19473	P URI	14	178.817	106.690	-6.637	1.00	35.09	Al6S	ATOM	19526	N3 ADE	16	178.185	118.749	-8.481	1.00	39.07	Al6
ATOM	19474	O1P URI	14	179.855	105.911	-7.356	1.00	44.94	Al6S	ATOM	19527	C2 ADE	16	177.953	118.765	-9.788	1.00	39.07	Al6
ATOM	19475	O2P URI	14	178.693	106.555	-5.145	1.00	44.94	Al6S	ATOM	19528	N1 ADE	16	178.185	117.820	-10.698	1.00	39.07	Al6
ATOM	19476	O5' URI	14	178.980	108.224	-7.036	1.00	35.09	Al6S	ATOM	19529	C6 ADE	16	178.728	116.657	-10.288	1.00	39.07	Al6
ATOM	19477	C5' URI	14	179.310	108.580	-8.371	1.00	35.09	Al6S	ATOM	19530	N6 ADE	16	178.956	115.705	-11.189	1.00	39.07	Al6
ATOM	19478	C4' URI	14	179.498	110.067	-8.492	1.00	35.09	Al6S	ATOM	19531	C5 ADE	16	179.022	116.515	-8.931	1.00	39.07	Al6
ATOM	19479	O4' URI	14	178.218	110.732	-8.401	1.00	35.09	Al6S	ATOM	19532	N7 ADE	16	179.571	115.473	-8.203	1.00	39.07	Al6
ATOM	19480	O3' URI	14	178.380	111.983	-7.746	1.00	35.09	Al6S	ATOM	19533	C8 ADE	16	179.600	115.928	-6.975	1.00	39.07	Al6
ATOM	19481	N1 URI	14	177.613	111.954	-6.487	1.00	44.94	Al6S	ATOM	19534	C2' ADE	16	177.453	118.197	-5.260	1.00	38.99	Al6
ATOM	19482	C6 URI	14	177.333	110.763	-5.861	1.00	44.94	Al6S	ATOM	19535	O2' ADE	16	177.291	119.488	-4.719	1.00	38.99	Al6
ATOM	19483	C2 URI	14	177.203	113.155	-5.941	1.00	44.94	Al6S	ATOM	19536	C3' ADE	16	177.250	117.105	-4.220	1.00	38.99	Al6
ATOM	19484	O2 URI	14	177.398	114.228	-6.470	1.00	44.94	Al6S	ATOM	19537	O3' ADE	16	176.169	117.373	-3.360	1.00	38.99	Al6
ATOM	19485	N3 URI	14	176.549	113.044	-4.745	1.00	44.94	Al6S	ATOM	19538	P URI	17	174.735	116.733	-3.684	1.00	47.46	Al6
ATOM	19486	C4 URI	14	176.254	111.886	-4.061	1.00	44.94	Al6S	ATOM	19539	O1P URI	17	173.808	117.273	-2.660	1.00	39.11	Al6
ATOM	19487	O4 URI	14	175.666	111.938	-2.976	1.00	44.94	Al6S	ATOM	19540	O2P URI	17	174.874	115.258	-3.834	1.00	39.11	Al6
ATOM	19488	C5 URI	14	176.688	110.690	-4.705	1.00	44.94	Al6S	ATOM	19541	O5' URI	17	174.349	117.366	-5.098	1.00	47.46	Al6
ATOM	19489	C2' URI	14	179.879	112.174	-7.484	1.00	35.09	Al6S	ATOM	19542	C5' URI	17	174.231	118.782	-5.233	1.00	47.46	Al6
ATOM	19490	O2' URI	14	180.465	112.902	-8.543	1.00	35.09	Al6S	ATOM	19543	O4' URI	17	173.671	119.150	-6.577	1.00	47.46	Al6
ATOM	19491	C3' URI	14	180.368	110.736	-7.442	1.00	35.09	Al6S	ATOM	19544	C4' URI	17	174.674	119.006	-7.607	1.00	47.46	Al6
ATOM	19492	O3' URI	14	181.750	110.661	-7.751	1.00	35.09	Al6S	ATOM	19545	C1' URI	17	174.047	118.684	-8.839	1.00	47.46	Al6
ATOM	19493	P GUA	15	182.812	110.483	-6.564	1.00	41.41	Al6S	ATOM	19546	N1 URI	17	174.550	117.384	-9.315	1.00	39.11	Al6
ATOM	19494	O1P GUA	15	184.140	110.203	-7.161	1.00	41.40	Al6S	ATOM	19547	C6 URI	17	175.127	116.482	-8.457	1.00	39.11	Al6
ATOM	19495	O2P GUA	15	182.240	109.528	-5.573	1.00	41.40	Al6S	ATOM	19548	C2 URI	17	174.417	117.092	-10.662	1.00	39.11	Al6
ATOM	19496	O5' GUA	15	182.882	111.932	-5.912	1.00	41.41	Al6S	ATOM	19549	O2 URI	17	173.905	117.855	-11.460	1.00	39.11	Al6
ATOM	19497	C5' GUA	15	183.519	112.133	-4.641	1.00	41.41	Al6S	ATOM	19550	N3 URI	17	174.901	115.870	-11.039	1.00	39.11	Al6
ATOM	19498	C4' GUA	15	183.552	113.596	-4.315	1.00	41.41	Al6S	ATOM	19551	C4 URI	17	175.482	114.931	-10.230	1.00	39.11	Al6
ATOM	19499	O4' GUA	15	184.354	114.274	-5.309	1.00	41.41	Al6S	ATOM	19552	O4 URI	17	175.853	113.869	-10.712	1.00	39.11	Al6
ATOM	19500	Cl' GUA	15	183.771	115.522	-5.632	1.00	41.41	Al6S	ATOM	19553	C5 URI	17	175.582	115.299	-8.859	1.00	39.11	Al6
ATOM	19501	N9 GUA	15	183.421	115.490	-7.044	1.00	41.40	Al6S	ATOM	19554	C2' URI	17	172.543	118.645	-8.587	1.00	47.46	Al6
ATOM	19502	C4 GUA	15	182.908	116.521	-7.783	1.00	41.40	Al6S	ATOM	19555	O2' URI	17	172.023	119.911	-8.926	1.00	47.46	Al6
ATOM	19503	N3 GUA	15	182.628	117.755	-7.328	1.00	41.40	Al6S	ATOM	19556	C3' URI	17	172.485	118.359	-7.092	1.00	47.46	Al6
ATOM	19504	C2 GUA	15	182.148	118.525	-8.281	1.00	41.40	Al6S	ATOM	19557	O3' URI	17	171.261	118.788	-6.520	1.00	47.46	Al6
ATOM	19505	N2 GUA	15	181.823	119.796	-8.009	1.00	41.40	Al6S	ATOM	19558	P CYT	18	170.121	117.706	-6.198	1.00	37.78	Al6
ATOM	19506	N1 GUA	15	181.949	118.111	-9.577	1.00	41.40	Al6S	ATOM	19559	O1P CYT	18	169.296	118.274	-5.115	1.00	37.83	Al6
ATOM	19507	C6 GUA	15	182.220	116.834	-10.060	1.00	41.40	Al6S	ATOM	19560	O2P CYT	18	170.743	116.379	-6.010	1.00	37.83	Al6
ATOM	19508	O6 GUA	15	181.980	116.541	-11.248	1.00	41.40	Al6S	ATOM	19561	O5' CYT	18	169.265	117.655	-7.532	1.00	37.78	Al6
ATOM	19509	C5 GUA	15	182.747	116.011	-9.056	1.00	41.40	Al6S	ATOM	19562	C5' CYT	18	168.683	118.840	-8.055	1.00	37.78	Al6
ATOM	19510	N7 GUA	15	183.153	114.688	-9.114	1.00	41.40	Al6S	ATOM	19563	C4' CYT	18	168.386	118.665	-9.516	1.00	37.78	Al6
ATOM	19511	C8 GUA	15	183.541	114.420	-7.899	1.00	41.40	Al6S	ATOM	19564	O4' CYT	18	169.627	118.601	-10.266	1.00	37.78	Al6
ATOM	19512	C2' GUA	15	182.564	115.720	-4.720	1.00	41.41	Al6S	ATOM	19565	Cl' CYT	18	169.472	117.721	-11.368	1.00	37.78	Al6
ATOM	19513	O2' GUA	15	183.002	116.476	-3.614	1.00	41.41	Al6S	ATOM	19566	N1 CYT	18	170.373	116.572	-11.178	1.00	37.83	Al6
ATOM	19514	C3' GUA	15	182.200	114.277	-4.378	1.00	41.41	Al6S	ATOM	19567	C6 CYT	18	170.834	116.239	-9.938	1.00	37.83	Al6
ATOM	19515	O3' GUA	15	181.509	114.114	-3.145	1.00	41.41	Al6S	ATOM	19568	O2 CYT	18	170.734	115.811	-12.291	1.00	37.83	Al6
ATOM	19516	P ADE	16	180.008	113.525	-3.147	1.00	38.99	Al6S	ATOM	19569	O2 CYT	18	170.327	116.161	-13.420	1.00	37.83	Al6
ATOM	19517	O1P ADE	16	179.624	113.219	-1.733	1.00	39.07	Al6S	ATOM	19570	N3 CYT	18	171.526	114.722	-12.115	1.00	37.83	Al6
ATOM	19518	O2P ADE	16	179.908	112.447	-4.167	1.00	39.07	Al6S	ATOM	19571	C4 CYT	18	171.963	114.409	-10.898	1.00	37.83	Al6
ATOM	19519	O5' ADE	16	179.135	114.768	-3.625	1.00	38.99	Al6S	ATOM	19572	N4 CYT	18	172.741	113.342	-10.765	1.00	37.83	Al6
ATOM	19520	C5' ADE	16	178.927	115.863	-2.734	1.00	38.99	Al6S	ATOM	19573	C5 CYT	18	171.623	115.180	-9.757	1.00	37.83	Al6
ATOM	19521	C4' ADE	16	178.573	117.109	-3.491	1.00	38.99	Al6S	ATOM	19574	C2' CYT	18	168.019	117.250	-11.371	1.00	37.78	Al6
ATOM	19522	O4' ADE	16	179.545	117.333	-4.543	1.00	38.99	Al6S	ATOM	19575	O2' CYT	18	167.230	118.091	-12.196	1.00	37.78	Al6

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19576	ATOM	C3' CYT	18	167.667	117.382	-9.900	1.00	37.78	Al6S	19629	C2	GUA	21	168.340	104.522	-8.868	1.00	41.50	Al6
19577	ATOM	O3' CYT	18	166.276	117.431	-9.696	1.00	37.78	Al6S	19630	N2	GUA	21	169.375	103.836	-8.384	1.00	41.50	Al6
19578	ATOM	P' CYT	19	165.510	116.107	-9.235	1.00	38.70	Al6S	19631	N1	GUA	21	167.894	105.565	-8.101	1.00	41.50	Al6
19579	ATOM	O1P CYT	19	164.126	116.531	-8.931	1.00	33.08	Al6S	19632	C6	GUA	21	166.846	106.417	-8.440	1.00	41.50	Al6
19580	ATOM	O2P CYT	19	166.338	115.439	-8.195	1.00	33.08	Al6S	19633	C6	GUA	21	166.513	107.334	-7.668	1.00	41.50	Al6
19581	ATOM	O5' CYT	19	165.439	115.231	-10.557	1.00	38.70	Al6S	19634	C5	GUA	21	166.288	106.073	-9.698	1.00	41.50	Al6
19582	ATOM	C5' CYT	19	164.816	115.771	-11.728	1.00	38.70	Al6S	19635	N7	GUA	21	165.257	106.661	-10.414	1.00	41.50	Al6
19583	ATOM	C4' CYT	19	165.090	114.908	-12.937	1.00	38.70	Al6S	19636	C8	GUA	21	165.158	105.933	-11.492	1.00	41.50	Al6
19584	ATOM	O4' CYT	19	166.501	114.931	-13.280	1.00	38.70	Al6S	19637	C2' GUA	21	165.352	102.658	-12.232	1.00	34.92	Al6	
19585	ATOM	C1' CYT	19	166.864	113.696	-13.868	1.00	38.70	Al6S	19638	O2' GUA	21	165.998	101.513	-12.748	1.00	34.92	Al6	
19586	ATOM	C1' CYT	19	167.852	113.025	-13.007	1.00	33.08	Al6S	19639	C3' GUA	21	164.049	102.971	-12.955	1.00	34.92	Al6	
19587	ATOM	C6	19	168.000	113.367	-11.696	1.00	33.08	Al6S	19640	O3' GUA	21	163.271	101.812	-13.231	1.00	34.92	Al6	
19588	ATOM	C2	19	168.617	111.998	-13.550	1.00	33.08	Al6S	19641	P	GUA	22	162.231	101.258	-12.126	1.00	43.19	Al6
19589	ATOM	O2	19	168.503	111.743	-14.749	1.00	33.08	Al6S	19642	O1P GUA	22	161.246	100.373	-12.828	1.00	39.84	Al6	
19590	ATOM	N3	19	169.464	111.306	-12.758	1.00	33.08	Al6S	19643	O5' GUA	22	163.132	100.305	-11.227	1.00	43.19	Al6	
19591	ATOM	C4	19	169.563	111.615	-11.469	1.00	33.08	Al6S	19644	O2' GUA	22	163.652	99.111	-11.800	1.00	43.19	Al6	
19592	ATOM	N4	19	170.363	110.868	-10.711	1.00	33.08	Al6S	19645	C5' GUA	22	164.828	98.602	-11.019	1.00	43.19	Al6	
19593	ATOM	C5	19	168.833	112.693	-10.898	1.00	33.08	Al6S	19646	C4' GUA	22	165.862	99.612	-10.928	1.00	43.19	Al6	
19594	ATOM	C2' CYT	19	165.587	112.861	-13.982	1.00	38.70	Al6S	19647	O4' GUA	22	166.614	99.405	-9.748	1.00	43.19	Al6	
19595	ATOM	O2' CYT	19	164.973	113.126	-15.236	1.00	38.70	Al6S	19648	C1' GUA	22	166.486	100.579	-8.891	1.00	39.84	Al6	
19596	ATOM	C3' CYT	19	164.751	113.432	-12.848	1.00	38.70	Al6S	19649	N9	GUA	22	167.368	100.975	-7.914	1.00	39.84	Al6
19597	ATOM	O3' CYT	19	163.377	113.182	-13.060	1.00	38.70	Al6S	19650	C4	GUA	22	168.532	100.377	-7.607	1.00	39.84	Al6
19598	ATOM	P	20	162.749	111.801	-12.555	1.00	32.75	Al6S	19651	N3	GUA	22	169.145	100.978	-6.611	1.00	39.84	Al6
19599	ATOM	O1P URI	20	161.299	111.807	-12.884	1.00	39.70	Al6S	19652	C2	GUA	22	170.330	100.534	-6.189	1.00	39.84	Al6
19600	ATOM	O2P URI	20	163.189	111.568	-11.156	1.00	39.70	Al6S	19653	N2	GUA	22	167.457	102.697	-6.254	1.00	39.84	Al6
19601	ATOM	O5' URI	20	163.488	110.715	-13.447	1.00	32.75	Al6S	19654	N1	GUA	22	167.102	103.678	-5.598	1.00	39.84	Al6
19602	ATOM	C5' URI	20	163.276	110.649	-14.857	1.00	32.75	Al6S	19655	C6	GUA	22	166.795	102.073	-7.332	1.00	39.84	Al6
19603	ATOM	C4' URI	20	164.132	109.561	-15.454	1.00	32.75	Al6S	19656	O6	GUA	22	165.590	102.384	-7.944	1.00	39.84	Al6
19604	ATOM	O4' URI	20	165.525	109.871	-15.207	1.00	32.75	Al6S	19657	C5	GUA	22	165.452	101.476	-8.866	1.00	39.84	Al6
19605	ATOM	C1' URI	20	166.241	108.672	-14.954	1.00	32.75	Al6S	19658	N7	GUA	22	166.022	98.187	-9.047	1.00	43.19	Al6
19606	ATOM	N1	20	166.773	108.715	-13.583	1.00	39.70	Al6S	19659	C8	GUA	22	166.743	97.052	-9.476	1.00	43.19	Al6
19607	ATOM	C6	20	166.434	109.714	-12.711	1.00	39.70	Al6S	19660	C2' GUA	22	164.599	98.190	-9.583	1.00	43.19	Al6	
19608	ATOM	C2	20	167.630	107.710	-13.204	1.00	39.70	Al6S	19661	O2' GUA	22	163.993	96.911	-9.490	1.00	43.19	Al6	
19609	ATOM	O2	20	167.949	106.806	-13.950	1.00	39.70	Al6S	19662	C3' GUA	22	163.166	96.527	-8.169	1.00	30.20	Al6	
19610	ATOM	N3	20	168.098	107.802	-11.923	1.00	39.70	Al6S	19663	O3' GUA	22	162.665	95.132	-8.297	1.00	41.94	Al6	
19611	ATOM	C4	20	167.799	108.772	-11.006	1.00	39.70	Al6S	19664	P	CYT	23	162.207	97.637	-7.913	1.00	41.94	Al6
19612	ATOM	O4	20	168.317	108.734	-9.890	1.00	39.70	Al6S	19665	O1P CYT	23	164.285	96.521	-7.043	1.00	41.94	Al6	
19613	ATOM	C5	20	166.903	109.773	-11.473	1.00	39.70	Al6S	19666	O2P CYT	23	165.354	95.584	-7.119	1.00	30.20	Al6	
19614	ATOM	C2' URI	20	165.282	107.506	-15.145	1.00	32.75	Al6S	19667	O5' CYT	23	166.322	95.801	-5.995	1.00	30.20	Al6	
19615	ATOM	O2' URI	20	165.421	107.073	-16.480	1.00	32.75	Al6S	19668	C5' CYT	23	166.979	97.080	-6.154	1.00	30.20	Al6	
19616	ATOM	C3' URI	20	163.945	108.175	-14.862	1.00	32.75	Al6S	19669	C4' CYT	23	167.188	97.669	-4.885	1.00	30.20	Al6	
19617	ATOM	O3' URI	20	162.860	107.491	-15.457	1.00	32.75	Al6S	19670	O4' CYT	23	166.377	98.898	-4.812	1.00	41.94	Al6	
19618	ATOM	P	21	161.959	106.525	-14.557	1.00	41.50	Al6S	19671	C1' CYT	23	165.285	99.067	-5.621	1.00	41.94	Al6	
19619	ATOM	O1P GUA	21	160.986	105.850	-15.441	1.00	41.50	Al6S	19672	N1	CYT	23	166.735	99.888	-3.905	1.00	41.94	Al6
19620	ATOM	O2P GUA	21	161.480	107.298	-13.384	1.00	41.50	Al6S	19673	C6	CYT	23	167.715	99.709	-3.170	1.00	41.94	Al6
19621	ATOM	O5' GUA	21	163.003	105.455	-14.039	1.00	34.92	Al6S	19674	C2	CYT	23	166.005	101.017	-3.845	1.00	41.94	Al6
19622	ATOM	C5' GUA	21	163.588	104.538	-14.943	1.00	34.92	Al6S	19675	O2	CYT	23	164.952	101.178	-4.646	1.00	41.94	Al6
19623	ATOM	C4' GUA	21	164.558	103.648	-14.217	1.00	34.92	Al6S	19676	N3	CYT	23	164.276	102.333	-4.567	1.00	41.94	Al6
19624	ATOM	O4' GUA	21	165.702	104.427	-13.774	1.00	34.92	Al6S	19677	C4	CYT	23	164.551	100.177	-5.568	1.00	41.94	Al6
19625	ATOM	C1' GUA	21	166.198	103.888	-12.565	1.00	34.92	Al6S	19678	N4	CYT	23	166.749	96.643	-3.842	1.00	30.20	Al6
19626	ATOM	N9	21	166.063	104.902	-11.529	1.00	41.50	Al6S	19679	C5	CYT	23	167.857	95.830	-3.528	1.00	30.20	Al6
19627	ATOM	C4	21	166.804	104.994	-10.380	1.00	41.50	Al6S	19680	C2' CYT	23							Al6
19628	ATOM	N3	21	167.816	104.182	-10.027	1.00	41.50	Al6S	19681	O2' CYT	23							Al6

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ATOM	19682	C3' CYT	23	165.704	95.869	-4.619	1.00	30.20	Al6s	ATOM	19735	C2 ADE	26	157.174	104.739	5.013	1.00	35.79	Al6s
ATOM	19683	O3' URI	23	165.467	94.594	-4.091	1.00	30.20	Al6s	ATOM	19736	N1 ADE	26	156.841	104.375	3.771	1.00	35.79	Al6s
ATOM	19684	P1' URI	24	164.246	94.393	-3.089	1.00	37.24	Al6s	ATOM	19737	C6 ADE	26	156.956	103.067	3.426	1.00	35.79	Al6s
ATOM	19685	O1P URI	24	164.241	92.985	-2.619	1.00	49.54	Al6s	ATOM	19738	N6 ADE	26	156.650	102.695	2.177	1.00	35.79	Al6s
ATOM	19686	O2P URI	24	163.037	94.957	-3.744	1.00	49.54	Al6s	ATOM	19739	C5 ADE	26	157.403	102.171	4.407	1.00	35.79	Al6s
ATOM	19687	O5' URI	24	164.663	95.310	-1.865	1.00	37.24	Al6s	ATOM	19740	N7 ADE	26	157.609	100.796	4.394	1.00	35.79	Al6s
ATOM	19688	C5' URI	24	165.794	94.964	-1.079	1.00	37.24	Al6s	ATOM	19741	C8 ADE	26	158.049	100.535	5.603	1.00	35.79	Al6s
ATOM	19689	C4' URI	24	165.963	95.936	0.050	1.00	37.24	Al6s	ATOM	19742	C2' ADE	26	157.474	101.407	8.803	1.00	47.28	Al6s
ATOM	19690	O4' URI	24	166.346	97.235	-0.468	1.00	37.24	Al6s	ATOM	19743	O2' ADE	26	157.583	102.318	9.874	1.00	47.28	Al6s
ATOM	19691	C1' URI	24	165.822	98.249	0.366	1.00	37.24	Al6s	ATOM	19744	C3' ADE	26	157.864	99.997	9.218	1.00	47.28	Al6s
ATOM	19692	N3' URI	24	164.895	99.084	-0.413	1.00	49.54	Al6s	ATOM	19745	O3' ADE	26	157.446	99.733	10.552	1.00	47.28	Al6s
ATOM	19693	C6 URI	24	164.357	98.655	-1.600	1.00	49.54	Al6s	ATOM	19746	P GUA	27	156.311	98.636	10.829	1.00	48.48	Al6s
ATOM	19694	C2 URI	24	164.557	100.322	0.114	1.00	49.54	Al6s	ATOM	19747	O1P GUA	27	155.912	98.751	12.260	1.00	37.50	Al6s
ATOM	19695	O2 URI	24	165.044	100.757	1.143	1.00	49.54	Al6s	ATOM	19748	O2P GUA	27	156.790	97.336	10.311	1.00	37.50	Al6s
ATOM	19696	N3 URI	24	163.631	101.032	-0.610	1.00	49.54	Al6s	ATOM	19749	O5' GUA	27	155.096	99.122	9.922	1.00	48.48	Al6s
ATOM	19697	C4 URI	24	163.032	100.651	-1.792	1.00	49.54	Al6s	ATOM	19750	C5' GUA	27	154.341	100.299	10.266	1.00	48.48	Al6s
ATOM	19698	O4 URI	24	162.153	101.365	-2.291	1.00	49.54	Al6s	ATOM	19751	C4' GUA	27	152.981	100.255	9.615	1.00	48.48	Al6s
ATOM	19699	C5 URI	24	163.465	99.375	-2.290	1.00	49.54	Al6s	ATOM	19752	O4' GUA	27	153.134	100.313	8.176	1.00	48.48	Al6s
ATOM	19700	C2' URI	24	165.088	97.556	1.512	1.00	37.24	Al6s	ATOM	19753	C1' GUA	27	152.139	99.526	7.552	1.00	48.48	Al6s
ATOM	19701	O2' URI	24	165.992	97.400	2.584	1.00	37.24	Al6s	ATOM	19754	N9 GUA	27	152.795	98.437	6.840	1.00	37.50	Al6s
ATOM	19702	C3' URI	24	164.728	96.222	0.880	1.00	37.24	Al6s	ATOM	19755	C4 GUA	27	152.237	97.627	5.881	1.00	37.50	Al6s
ATOM	19703	O3' URI	24	164.448	95.209	1.837	1.00	37.24	Al6s	ATOM	19756	N3 GUA	27	150.989	97.730	5.380	1.00	37.50	Al6s
ATOM	19704	P CYT	25	162.942	95.032	2.378	1.00	45.17	Al6s	ATOM	19757	C2 GUA	27	150.731	96.776	4.493	1.00	37.50	Al6s
ATOM	19705	O1P CYT	25	162.871	93.753	3.129	1.00	35.46	Al6s	ATOM	19758	N2 GUA	27	149.537	96.727	3.883	1.00	37.50	Al6s
ATOM	19706	O2P CYT	25	161.991	95.273	1.271	1.00	35.46	Al6s	ATOM	19759	N1 GUA	27	151.620	95.803	4.138	1.00	37.50	Al6s
ATOM	19707	O5' CYT	25	162.810	96.220	3.424	1.00	45.17	Al6s	ATOM	19760	C6 GUA	27	152.906	95.681	4.639	1.00	37.50	Al6s
ATOM	19708	C5' CYT	25	163.681	96.273	4.559	1.00	45.17	Al6s	ATOM	19761	O6 GUA	27	153.623	94.756	4.256	1.00	37.50	Al6s
ATOM	19709	C4' CYT	25	163.453	97.542	5.335	1.00	45.17	Al6s	ATOM	19762	C5 GUA	27	153.203	96.699	5.580	1.00	37.50	Al6s
ATOM	19710	O4' CYT	25	163.769	98.685	4.498	1.00	45.17	Al6s	ATOM	19763	N7 GUA	27	154.360	96.944	6.299	1.00	37.50	Al6s
ATOM	19711	C1' CYT	25	162.897	99.759	4.803	1.00	45.17	Al6s	ATOM	19764	C8 GUA	27	154.074	97.988	7.025	1.00	37.50	Al6s
ATOM	19712	N1 CYT	25	162.107	100.070	3.595	1.00	35.46	Al6s	ATOM	19765	C2' GUA	27	151.238	98.984	8.657	1.00	48.48	Al6s
ATOM	19713	C6 CYT	25	161.777	99.085	2.703	1.00	35.46	Al6s	ATOM	19766	O2' GUA	27	150.162	99.876	8.842	1.00	48.48	Al6s
ATOM	19714	C2 CYT	25	161.698	101.393	3.370	1.00	35.46	Al6s	ATOM	19767	C3' GUA	27	152.177	98.991	9.848	1.00	48.48	Al6s
ATOM	19715	O2 CYT	25	161.930	102.266	4.204	1.00	35.46	Al6s	ATOM	19768	O3' GUA	27	151.465	99.039	11.061	1.00	48.48	Al6s
ATOM	19716	N3 CYT	25	160.995	101.683	2.255	1.00	35.46	Al6s	ATOM	19769	P GUA	28	151.082	97.669	11.812	1.00	43.13	Al6s
ATOM	19717	C4 CYT	25	160.693	100.713	1.384	1.00	35.46	Al6s	ATOM	19770	O1P GUA	28	150.424	98.109	13.074	1.00	33.30	Al6s
ATOM	19718	N4 CYT	25	160.017	101.045	0.278	1.00	35.46	Al6s	ATOM	19771	O2P GUA	28	152.270	96.770	11.882	1.00	33.30	Al6s
ATOM	19719	C5 CYT	25	161.077	99.359	1.601	1.00	35.46	Al6s	ATOM	19772	O5' GUA	28	149.976	96.997	10.875	1.00	43.13	Al6s
ATOM	19720	C2' CYT	25	162.026	99.317	5.976	1.00	45.17	Al6s	ATOM	19773	C5' GUA	28	148.675	97.593	10.745	1.00	43.13	Al6s
ATOM	19721	O2' CYT	25	162.662	99.745	7.169	1.00	45.17	Al6s	ATOM	19774	C4' GUA	28	147.889	96.938	9.638	1.00	43.13	Al6s
ATOM	19722	C3' CYT	25	162.031	97.803	5.794	1.00	45.17	Al6s	ATOM	19775	O1' GUA	28	148.566	97.120	8.367	1.00	43.13	Al6s
ATOM	19723	O3' CYT	25	161.714	97.077	6.967	1.00	45.17	Al6s	ATOM	19776	N9 GUA	28	149.614	95.287	7.536	1.00	43.13	Al6s
ATOM	19724	P ADE	26	160.185	96.699	7.273	1.00	47.28	Al6s	ATOM	19777	C4 GUA	28	149.872	94.259	7.359	1.00	33.30	Al6s
ATOM	19725	O1P ADE	26	160.161	95.753	8.419	1.00	35.79	Al6s	ATOM	19778	N3 GUA	28	149.008	93.739	6.472	1.00	33.30	Al6s
ATOM	19726	O2P ADE	26	159.491	96.339	6.023	1.00	35.79	Al6s	ATOM	19779	C2 GUA	28	149.554	92.750	5.574	1.00	33.30	Al6s
ATOM	19727	O5' ADE	26	159.585	98.087	7.753	1.00	47.28	Al6s	ATOM	19780	C2 GUA	28	149.853	92.120	4.882	1.00	33.30	Al6s
ATOM	19728	C5' ADE	26	160.072	98.718	8.940	1.00	47.28	Al6s	ATOM	19781	N2 GUA	28	150.833	92.307	5.056	1.00	33.30	Al6s
ATOM	19729	C4' ADE	26	159.391	100.039	9.137	1.00	47.28	Al6s	ATOM	19782	N1 GUA	28	151.740	92.831	5.966	1.00	33.30	Al6s
ATOM	19730	O4' ADE	26	159.660	100.895	8.005	1.00	47.28	Al6s	ATOM	19783	C6 GUA	28	152.880	92.372	6.033	1.00	33.30	Al6s
ATOM	19731	C1' ADE	26	158.569	101.758	7.796	1.00	47.28	Al6s	ATOM	19784	O6 GUA	28	151.176	93.888	6.718	1.00	33.30	Al6s
ATOM	19732	N9 ADE	26	158.136	101.648	6.411	1.00	35.79	Al6s	ATOM	19785	C5 GUA	28	151.734	94.673	7.720	1.00	33.30	Al6s
ATOM	19733	C4 ADE	26	157.715	102.705	5.644	1.00	35.79	Al6s	ATOM	19786	N7 GUA	28	151.776	95.488	8.065	1.00	33.30	Al6s
ATOM	19734	N3 ADE	26	157.625	103.994	6.016	1.00	35.79	Al6s	ATOM	19787	C8 GUA	28	150.776	95.488	8.065	1.00	33.30	Al6s

ATOM	19788	C2' GUA	28	147.381	95.085	8.284	1.00 43.13	A16S	ATOM	19841	O4' GUA	31	143.597	78.291	9.375	1.00 58.94	A16S
ATOM	19789	O2' GUA	28	146.069	95.436	7.917	1.00 43.13	A16S	ATOM	19842	C1' GUA	31	144.749	77.508	9.157	1.00 58.94	A16S
ATOM	19790	O3' GUA	28	147.701	95.441	9.725	1.00 43.13	A16S	ATOM	19843	N9 GUA	31	144.743	77.122	7.751	1.00 53.65	A16S
ATOM	19791	O3' GUA	28	146.677	95.057	10.607	1.00 43.13	A16S	ATOM	19844	C4 GUA	31	144.428	75.891	7.255	1.00 53.65	A16S
ATOM	19792	P GUA	29	146.853	93.714	11.466	1.00 50.80	A16S	ATOM	19845	N3 GUA	31	144.106	74.811	7.987	1.00 53.65	A16S
ATOM	19793	O1P GUA	29	145.718	93.667	12.421	1.00 46.57	A16S	ATOM	19846	C2 GUA	31	143.802	73.783	7.222	1.00 53.65	A16S
ATOM	19794	O2P GUA	29	148.247	93.678	11.978	1.00 46.57	A16S	ATOM	19847	N2 GUA	31	143.428	72.618	7.774	1.00 53.65	A16S
ATOM	19795	O5' GUA	29	146.687	92.538	10.406	1.00 50.80	A16S	ATOM	19848	N1 GUA	31	143.831	73.817	5.850	1.00 53.65	A16S
ATOM	19796	C5' GUA	29	145.504	92.442	9.622	1.00 50.80	A16S	ATOM	19849	O6 GUA	31	144.170	74.923	5.082	1.00 53.65	A16S
ATOM	19797	C4' GUA	29	145.654	91.376	8.568	1.00 50.80	A16S	ATOM	19850	C6 GUA	31	144.165	74.847	3.850	1.00 53.65	A16S
ATOM	19798	C4' GUA	29	146.739	91.718	7.671	1.00 50.80	A16S	ATOM	19851	C5 GUA	31	144.483	76.022	5.882	1.00 53.65	A16S
ATOM	19799	C1' GUA	29	147.278	90.534	7.108	1.00 50.80	A16S	ATOM	19852	N7 GUA	31	144.858	77.304	5.522	1.00 53.65	A16S
ATOM	19800	N9 GUA	29	148.715	90.471	7.364	1.00 46.57	A16S	ATOM	19853	C8 GUA	31	145.011	77.921	6.661	1.00 53.65	A16S
ATOM	19801	C4 GUA	29	149.598	89.635	6.727	1.00 46.57	A16S	ATOM	19854	C2' GUA	31	145.953	78.355	9.562	1.00 58.94	A16S
ATOM	19802	N3 GUA	29	149.293	88.780	5.734	1.00 46.57	A16S	ATOM	19855	O2' GUA	31	146.967	77.501	10.053	1.00 58.94	A16S
ATOM	19803	C2 GUA	29	150.341	88.097	5.331	1.00 46.57	A16S	ATOM	19856	C3' GUA	31	145.373	79.246	10.658	1.00 58.94	A16S
ATOM	19804	N2 GUA	29	150.209	87.222	4.324	1.00 46.57	A16S	ATOM	19857	O3' GUA	31	146.122	79.263	13.171	1.00 46.72	A16S
ATOM	19805	N1 GUA	29	151.587	88.227	5.876	1.00 46.57	A16S	ATOM	19858	P ADE	32	146.396	78.213	14.181	1.00 48.81	A16S
ATOM	19806	C6 GUA	29	151.923	89.098	6.898	1.00 46.57	A16S	ATOM	19859	O1P ADE	32	145.294	80.430	13.552	1.00 48.81	A16S
ATOM	19807	O6 GUA	29	153.079	89.130	7.320	1.00 46.57	A16S	ATOM	19860	O2P ADE	32	147.505	79.805	12.610	1.00 46.72	A16S
ATOM	19808	C5 GUA	29	150.811	89.856	7.324	1.00 46.57	A16S	ATOM	19861	O5' ADE	32	148.752	79.384	13.165	1.00 46.72	A16S
ATOM	19809	N7 GUA	29	150.710	90.845	8.293	1.00 46.57	A16S	ATOM	19862	C5' ADE	32	149.637	78.858	12.069	1.00 46.72	A16S
ATOM	19810	C8 GUA	29	149.450	91.182	8.280	1.00 46.57	A16S	ATOM	19863	C4' ADE	32	149.807	79.870	11.048	1.00 46.72	A16S
ATOM	19811	C2' GUA	29	146.544	89.350	7.733	1.00 50.80	A16S	ATOM	19864	O4' ADE	32	151.117	79.801	10.524	1.00 46.72	A16S
ATOM	19812	O3' GUA	29	145.517	88.928	6.856	1.00 50.80	A16S	ATOM	19865	C1' ADE	32	151.761	81.096	10.770	1.00 48.81	A16S
ATOM	19813	C3' GUA	29	145.993	89.965	9.012	1.00 50.80	A16S	ATOM	19866	N9 ADE	32	153.033	81.493	10.422	1.00 48.81	A16S
ATOM	19814	O3' GUA	29	144.863	89.239	9.450	1.00 50.80	A16S	ATOM	19867	C4 ADE	32	153.970	80.777	9.782	1.00 48.81	A16S
ATOM	19815	P URI	30	145.067	87.998	10.441	1.00 52.73	A16S	ATOM	19868	N3 ADE	32	155.078	81.498	9.621	1.00 48.81	A16S
ATOM	19816	O1P URI	30	143.722	87.541	10.831	1.00 43.57	A16S	ATOM	19869	C2 ADE	32	155.335	82.759	9.995	1.00 48.81	A16S
ATOM	19817	O2P URI	30	146.033	88.418	11.495	1.00 43.57	A16S	ATOM	19870	N1 ADE	32	154.368	83.449	10.632	1.00 48.81	A16S
ATOM	19818	O5' URI	30	145.750	86.869	9.540	1.00 52.73	A16S	ATOM	19871	C6 ADE	32	154.608	84.705	11.000	1.00 48.81	A16S
ATOM	19819	C5' URI	30	144.989	86.067	8.593	1.00 52.73	A16S	ATOM	19872	N6 ADE	32	153.155	82.800	10.869	1.00 48.81	A16S
ATOM	19820	C4' URI	30	145.862	84.960	8.030	1.00 52.73	A16S	ATOM	19873	C5 ADE	32	151.990	83.220	11.486	1.00 48.81	A16S
ATOM	19821	O4' URI	30	147.092	85.579	7.599	1.00 52.73	A16S	ATOM	19874	N7 ADE	32	151.197	82.177	11.401	1.00 48.81	A16S
ATOM	19822	C1' URI	30	148.166	84.691	7.801	1.00 52.73	A16S	ATOM	19875	C8 ADE	32	151.803	78.593	11.177	1.00 46.72	A16S
ATOM	19823	N1 URI	30	149.285	85.423	8.398	1.00 43.57	A16S	ATOM	19876	C2' ADE	32	151.569	77.432	10.389	1.00 46.72	A16S
ATOM	19824	C6 URI	30	149.083	86.483	9.233	1.00 43.57	A16S	ATOM	19877	O2' ADE	32	151.044	78.485	12.486	1.00 46.72	A16S
ATOM	19825	C2 URI	30	150.562	85.008	8.061	1.00 43.57	A16S	ATOM	19878	O3' ADE	32	151.056	77.168	12.997	1.00 46.72	A16S
ATOM	19826	O2 URI	30	150.783	84.038	7.338	1.00 43.57	A16S	ATOM	19879	C3' ADE	32	151.515	76.915	14.513	1.00 44.38	A16S
ATOM	19827	N3 URI	30	151.574	85.763	8.601	1.00 43.57	A16S	ATOM	19880	P ADE	33	150.766	75.725	15.021	1.00 47.60	A16S
ATOM	19828	C4 URI	30	151.437	86.849	9.434	1.00 43.57	A16S	ATOM	19881	O1P ADE	33	151.447	78.205	15.252	1.00 47.60	A16S
ATOM	19829	O4 URI	30	152.442	87.106	9.868	1.00 43.57	A16S	ATOM	19882	O2P ADE	33	153.054	76.524	14.376	1.00 44.38	A16S
ATOM	19830	C5 URI	30	150.085	87.194	9.747	1.00 43.57	A16S	ATOM	19883	O5' ADE	33	153.480	75.435	13.527	1.00 44.38	A16S
ATOM	19831	C2' URI	30	147.678	83.464	8.567	1.00 52.73	A16S	ATOM	19884	C5' ADE	33	154.805	75.767	12.884	1.00 44.38	A16S
ATOM	19832	O2' URI	30	147.657	82.323	7.724	1.00 52.73	A16S	ATOM	19885	C4' ADE	33	154.649	76.949	12.062	1.00 44.38	A16S
ATOM	19833	C3' URI	30	146.299	83.904	9.045	1.00 52.73	A16S	ATOM	19886	O4' ADE	33	155.805	77.758	12.152	1.00 44.38	A16S
ATOM	19834	O3' URI	30	145.490	82.714	9.092	1.00 52.73	A16S	ATOM	19887	C1' ADE	33	155.412	79.065	12.687	1.00 47.60	A16S
ATOM	19835	P GUA	31	144.560	82.262	7.834	1.00 58.94	A16S	ATOM	19888	N9 ADE	33	156.171	80.216	12.692	1.00 47.60	A16S
ATOM	19836	O1P GUA	31	145.386	82.054	6.608	1.00 53.65	A16S	ATOM	19889	C4 ADE	33	157.415	80.380	12.208	1.00 47.60	A16S
ATOM	19837	O2P GUA	31	143.363	83.151	7.776	1.00 53.65	A16S	ATOM	19890	N3 ADE	33	157.836	81.630	12.410	1.00 47.60	A16S
ATOM	19838	O5' GUA	31	144.075	80.822	8.313	1.00 58.94	A16S	ATOM	19891	C2 ADE	33	157.203	82.656	12.990	1.00 47.60	A16S
ATOM	19839	C5' GUA	31	143.465	80.670	9.615	1.00 58.94	A16S	ATOM	19892	N1 ADE	33	155.952	82.461	13.455	1.00 47.60	A16S
ATOM	19840	C4' GUA	31	143.905	79.387	10.269	1.00 58.94	A16S	ATOM	19893	C6 ADE	33					

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ATOM	19894	N6 ADE	33	155.316	83.483	14.020	1.00	47.60	Al6S	ATOM	19947	O2P CYT	36	162.927	78.194	23.004	1.00	35.34	Al6
ATOM	19895	C5 ADE	33	155.392	81.179	13.311	1.00	47.60	Al6S	ATOM	19948	O5' CYT	36	164.161	80.087	24.082	1.00	58.87	Al6
ATOM	19896	N7 ADE	33	154.164	80.652	13.686	1.00	47.60	Al6S	ATOM	19949	C5' CYT	36	165.304	80.929	24.314	1.00	58.87	Al6
ATOM	19897	C8 ADE	33	154.224	79.401	13.293	1.00	47.60	Al6S	ATOM	19950	O4' CYT	36	164.863	82.271	24.839	1.00	58.87	Al6
ATOM	19898	C2' ADE	33	156.811	77.026	13.037	1.00	44.38	Al6S	ATOM	19951	O4' CYT	36	164.169	82.995	23.788	1.00	58.87	Al6
ATOM	19899	O2' ADE	33	157.696	76.295	12.217	1.00	44.38	Al6S	ATOM	19952	C1' CYT	36	163.097	83.741	23.349	1.00	58.87	Al6
ATOM	19900	C3' ADE	33	155.898	76.136	13.862	1.00	44.38	Al6S	ATOM	19953	N1 CYT	36	161.830	83.223	23.813	1.00	35.34	Al6
ATOM	19901	O3' ADE	33	156.544	74.988	14.360	1.00	44.38	Al6S	ATOM	19954	C6 CYT	36	161.742	81.952	23.325	1.00	35.34	Al6
ATOM	19902	P	34	157.071	74.977	15.876	1.00	53.29	Al6S	ATOM	19955	C2 CYT	36	160.699	84.051	23.835	1.00	35.34	Al6
ATOM	19903	O1P CYT	34	157.473	73.576	16.155	1.00	53.80	Al6S	ATOM	19956	O2 CYT	36	160.818	85.219	24.245	1.00	35.34	Al6
ATOM	19904	C4 CYT	34	156.079	75.636	16.761	1.00	53.80	Al6S	ATOM	19957	N3 CYT	36	159.511	83.561	23.405	1.00	35.34	Al6
ATOM	19905	O5' CYT	34	158.370	75.901	15.828	1.00	53.29	Al6S	ATOM	19958	C4 CYT	36	159.436	82.308	22.952	1.00	35.34	Al6
ATOM	19906	C5' CYT	34	159.566	75.452	15.166	1.00	53.29	Al6S	ATOM	19959	N4 CYT	36	158.246	81.852	22.554	1.00	35.34	Al6
ATOM	19907	C4' CYT	34	160.603	76.543	15.166	1.00	53.29	Al6S	ATOM	19960	C5 CYT	36	160.578	81.460	22.889	1.00	35.34	Al6
ATOM	19908	O4' CYT	34	160.123	77.644	14.356	1.00	53.29	Al6S	ATOM	19961	C2' CYT	36	163.136	83.548	25.862	1.00	58.87	Al6
ATOM	19909	O1' CYT	34	160.559	78.873	14.913	1.00	53.29	Al6S	ATOM	19962	O2' CYT	36	163.847	84.611	26.454	1.00	58.87	Al6
ATOM	19910	N1 CYT	34	159.381	79.667	15.302	1.00	53.80	Al6S	ATOM	19963	C3' CYT	36	163.852	82.210	25.974	1.00	58.87	Al6
ATOM	19911	C6 CYT	34	158.132	79.105	15.346	1.00	53.80	Al6S	ATOM	19964	O3' CYT	36	164.434	81.989	27.244	1.00	58.87	Al6
ATOM	19912	C2 CYT	34	159.566	81.012	15.668	1.00	53.80	Al6S	ATOM	19965	P	37	163.640	81.100	28.324	1.00	55.59	Al6
ATOM	19913	O2 CYT	34	160.707	81.503	15.601	1.00	53.80	Al6S	ATOM	19966	O1P URI	37	164.514	81.068	29.528	1.00	45.03	Al6
ATOM	19914	N3 CYT	34	158.502	81.730	16.095	1.00	53.80	Al6S	ATOM	19967	O2P URI	37	163.200	79.819	27.686	1.00	45.03	Al6
ATOM	19915	C4 CYT	34	157.299	81.153	16.181	1.00	53.80	Al6S	ATOM	19968	O5' URI	37	162.342	81.963	28.666	1.00	55.59	Al6
ATOM	19916	N4 CYT	34	156.294	81.875	16.671	1.00	53.80	Al6S	ATOM	19969	C5' URI	37	162.463	83.236	29.330	1.00	55.59	Al6
ATOM	19917	C5 CYT	34	157.077	79.803	15.783	1.00	53.80	Al6S	ATOM	19970	O4' URI	37	161.118	83.924	29.436	1.00	55.59	Al6
ATOM	19918	C2' CYT	34	161.414	78.553	16.140	1.00	53.29	Al6S	ATOM	19971	O4' URI	37	160.628	84.308	28.119	1.00	55.59	Al6
ATOM	19919	O2' CYT	34	162.780	78.604	15.782	1.00	53.29	Al6S	ATOM	19972	C1' URI	37	159.206	84.318	28.124	1.00	55.59	Al6
ATOM	19920	C3' CYT	34	160.902	77.167	16.518	1.00	53.29	Al6S	ATOM	19973	N1 URI	37	158.700	83.290	27.199	1.00	45.03	Al6
ATOM	19921	O3' CYT	34	161.841	76.414	17.272	1.00	53.29	Al6S	ATOM	19974	C6 URI	37	159.500	82.268	26.748	1.00	45.03	Al6
ATOM	19922	P	35	161.734	76.390	18.881	1.00	44.30	Al6S	ATOM	19975	O2 URI	37	157.356	83.357	26.825	1.00	45.03	Al6
ATOM	19923	O1P GUA	35	162.626	75.314	19.381	1.00	45.19	Al6S	ATOM	19976	C2 URI	37	156.611	84.277	27.145	1.00	45.03	Al6
ATOM	19924	O2P GUA	35	160.294	76.386	19.257	1.00	45.19	Al6S	ATOM	19977	N3 URI	37	156.916	82.305	26.057	1.00	45.03	Al6
ATOM	19925	O5' GUA	35	162.390	77.768	19.331	1.00	44.30	Al6S	ATOM	19978	C4 URI	37	157.658	81.232	25.613	1.00	45.03	Al6
ATOM	19926	C5' GUA	35	163.768	78.019	19.054	1.00	44.30	Al6S	ATOM	19979	O4 URI	37	157.096	80.319	24.999	1.00	45.03	Al6
ATOM	19927	C4' GUA	35	164.134	79.425	19.429	1.00	44.30	Al6S	ATOM	19980	C5 URI	37	159.037	81.267	25.992	1.00	45.03	Al6
ATOM	19928	O4' GUA	35	163.413	80.368	18.600	1.00	44.30	Al6S	ATOM	19981	C2' URI	37	158.765	83.948	29.536	1.00	55.59	Al6
ATOM	19929	C1' GUA	35	163.115	81.535	19.348	1.00	44.30	Al6S	ATOM	19982	O2' URI	37	158.561	85.124	30.292	1.00	55.59	Al6
ATOM	19930	N9 GUA	35	161.661	81.670	19.431	1.00	45.19	Al6S	ATOM	19983	C3' URI	37	159.957	83.143	30.027	1.00	55.59	Al6
ATOM	19931	C4 GUA	35	160.949	82.815	19.723	1.00	45.19	Al6S	ATOM	19984	O3' URI	37	159.957	83.045	31.441	1.00	55.59	Al6
ATOM	19932	N3 GUA	35	161.470	84.026	19.989	1.00	45.19	Al6S	ATOM	19985	P GUA	38	159.154	81.836	32.149	1.00	48.99	Al6
ATOM	19933	C2 GUA	35	160.533	84.921	20.239	1.00	45.19	Al6S	ATOM	19986	O1P GUA	38	159.355	82.016	33.610	1.00	58.72	Al6
ATOM	19934	N2 GUA	35	160.870	86.179	20.533	1.00	45.19	Al6S	ATOM	19987	O2P GUA	38	159.542	80.559	31.514	1.00	58.72	Al6
ATOM	19935	N1 GUA	35	159.194	84.654	20.221	1.00	45.19	Al6S	ATOM	19988	O5' GUA	38	157.619	82.105	31.801	1.00	48.99	Al6
ATOM	19936	C6 GUA	35	158.628	83.415	19.952	1.00	45.19	Al6S	ATOM	19989	C5' GUA	38	156.966	83.282	32.296	1.00	48.99	Al6
ATOM	19937	O6 GUA	35	157.387	83.276	19.971	1.00	45.19	Al6S	ATOM	19990	C4' GUA	38	155.539	83.344	31.827	1.00	48.99	Al6
ATOM	19938	C5 GUA	35	159.622	82.440	19.688	1.00	45.19	Al6S	ATOM	19991	O4' GUA	38	155.510	83.410	30.387	1.00	48.99	Al6
ATOM	19939	N7 GUA	35	159.497	81.089	19.388	1.00	45.19	Al6S	ATOM	19992	C1' GUA	38	154.342	82.759	29.905	1.00	48.99	Al6
ATOM	19940	C8 GUA	35	160.727	80.675	19.239	1.00	45.19	Al6S	ATOM	19993	N9 GUA	38	154.727	81.626	29.071	1.00	58.72	Al6
ATOM	19941	C2' GUA	35	163.760	81.352	20.716	1.00	44.30	Al6S	ATOM	19994	C4 GUA	38	153.881	80.912	28.270	1.00	58.72	Al6
ATOM	19942	O2' GUA	35	165.071	81.843	20.619	1.00	44.30	Al6S	ATOM	19995	N3 GUA	38	152.571	81.159	28.097	1.00	58.72	Al6
ATOM	19943	C3' GUA	35	163.787	79.840	20.836	1.00	44.30	Al6S	ATOM	19996	C2 GUA	38	152.013	80.302	27.272	1.00	58.72	Al6
ATOM	19944	O3' GUA	35	164.755	79.382	21.750	1.00	44.30	Al6S	ATOM	19997	N2 GUA	38	150.712	80.419	26.969	1.00	58.72	Al6
ATOM	19945	P	36	164.278	78.795	23.165	1.00	58.87	Al6S	ATOM	19998	N1 GUA	38	152.685	79.273	26.677	1.00	58.72	Al6
ATOM	19946	O1P CYT	36	165.391	77.968	23.667	1.00	35.34	Al6S	ATOM	19999	C6 GUA	38	154.033	78.994	26.848	1.00	58.72	Al6

ATOM	20000	O6	GUA	38	154.540	78.024	26.271	1.00	58.72	Al6S	20053	O2P	GUA	41	142.714	79.555	32.561	1.00	65.06	Al6S
ATOM	20001	C5	GUA	38	154.648	79.920	27.716	1.00	58.72	Al6S	20054	O5	GUA	41	140.490	80.659	32.959	1.00	57.39	Al6S
ATOM	20002	N2	GUA	38	155.967	80.018	28.144	1.00	58.72	Al6S	20055	C5	GUA	41	139.348	81.018	33.753	1.00	57.39	Al6S
ATOM	20003	C8	GUA	38	155.967	81.046	28.945	1.00	58.72	Al6S	20056	C4	GUA	41	138.526	82.083	33.065	1.00	57.39	Al6S
ATOM	20004	C2	GUA	38	153.555	82.260	31.109	1.00	48.99	Al6S	20057	O4	GUA	41	139.315	83.284	32.861	1.00	57.39	Al6S
ATOM	20005	O2	GUA	38	152.553	83.205	31.406	1.00	48.99	Al6S	20058	C1	GUA	41	138.865	83.955	31.697	1.00	57.39	Al6S
ATOM	20006	C3	GUA	38	154.655	82.156	32.159	1.00	48.99	Al6S	20059	N9	GUA	41	139.994	84.122	30.784	1.00	65.06	Al6S
ATOM	20007	O3	GUA	38	154.135	82.221	33.473	1.00	48.99	Al6S	20060	C4	GUA	41	140.030	84.933	29.675	1.00	65.06	Al6S
ATOM	20008	P	GUA	39	153.944	80.867	34.317	1.00	57.61	Al6S	20061	N3	GUA	41	139.036	85.741	29.251	1.00	65.06	Al6S
ATOM	20009	O1P	GUA	39	155.022	80.846	35.351	1.00	63.99	Al6S	20062	C2	GUA	41	139.369	86.401	28.153	1.00	65.06	Al6S
ATOM	20010	O5	GUA	39	153.793	79.720	33.388	1.00	63.99	Al6S	20063	N2	GUA	41	138.506	87.266	27.610	1.00	65.06	Al6S
ATOM	20011	O5	GUA	39	152.543	81.089	35.030	1.00	57.61	Al6S	20064	N1	GUA	41	140.575	86.264	27.509	1.00	65.06	Al6S
ATOM	20012	C5	GUA	39	151.328	81.152	34.262	1.00	57.61	Al6S	20065	C6	GUA	41	141.609	85.427	27.920	1.00	65.06	Al6S
ATOM	20013	C4	GUA	39	150.233	81.790	35.078	1.00	57.61	Al6S	20066	O6	GUA	41	142.648	85.359	27.254	1.00	65.06	Al6S
ATOM	20014	O4	GUA	39	150.487	83.217	35.229	1.00	57.61	Al6S	20067	C5	GUA	41	141.274	83.497	29.114	1.00	65.06	Al6S
ATOM	20015	C1	GUA	39	149.255	83.921	35.246	1.00	57.61	Al6S	20068	N7	GUA	41	142.015	83.831	29.867	1.00	65.06	Al6S
ATOM	20016	N9	GUA	39	149.188	84.798	34.080	1.00	63.99	Al6S	20069	C8	GUA	41	141.217	83.497	30.845	1.00	65.06	Al6S
ATOM	20017	C4	GUA	39	148.215	85.734	33.838	1.00	63.99	Al6S	20070	O2	GUA	41	137.728	83.127	31.095	1.00	57.39	Al6S
ATOM	20018	N3	GUA	39	147.202	86.055	34.670	1.00	63.99	Al6S	20071	C2	GUA	41	136.485	83.651	31.505	1.00	57.39	Al6S
ATOM	20019	C2	GUA	39	146.406	86.973	34.150	1.00	63.99	Al6S	20072	C3	GUA	41	137.987	81.750	31.689	1.00	57.39	Al6S
ATOM	20020	N2	GUA	39	145.363	87.425	34.857	1.00	63.99	Al6S	20073	O3	GUA	41	136.799	80.985	31.767	1.00	57.39	Al6S
ATOM	20021	N1	GUA	39	146.579	87.518	32.903	1.00	63.99	Al6S	20074	P	GUA	42	136.270	80.220	30.464	1.00	65.83	Al6S
ATOM	20022	C6	GUA	39	147.613	87.200	32.029	1.00	63.99	Al6S	20075	O1P	GUA	42	135.149	79.343	30.862	1.00	56.17	Al6S
ATOM	20023	O6	GUA	39	147.668	87.743	30.926	1.00	63.99	Al6S	20076	O2P	GUA	42	137.431	79.637	29.757	1.00	56.17	Al6S
ATOM	20024	C5	GUA	39	148.488	86.232	32.585	1.00	63.99	Al6S	20077	O5	GUA	42	135.676	81.386	29.559	1.00	65.83	Al6S
ATOM	20025	N7	GUA	39	149.639	85.660	32.069	1.00	63.99	Al6S	20078	C5	GUA	42	134.452	82.047	29.919	1.00	65.83	Al6S
ATOM	20026	C8	GUA	39	150.025	84.823	32.992	1.00	63.99	Al6S	20079	C4	GUA	42	134.043	83.015	28.837	1.00	65.83	Al6S
ATOM	20027	C2	GUA	39	148.138	82.882	35.147	1.00	57.61	Al6S	20080	O4	GUA	42	135.036	84.065	28.736	1.00	65.83	Al6S
ATOM	20028	O2	GUA	39	147.678	82.527	36.432	1.00	57.61	Al6S	20081	C1	GUA	42	135.208	84.429	27.378	1.00	65.83	Al6S
ATOM	20029	C3	GUA	39	148.852	81.730	34.459	1.00	57.61	Al6S	20082	N9	GUA	42	136.579	84.105	26.994	1.00	56.17	Al6S
ATOM	20030	O3	GUA	39	148.205	80.492	34.688	1.00	57.61	Al6S	20083	C4	GUA	42	137.266	84.602	25.910	1.00	56.17	Al6S
ATOM	20031	P	CYT	40	146.945	80.086	33.780	1.00	74.98	Al6S	20084	N3	GUA	42	136.797	85.494	25.012	1.00	56.17	Al6S
ATOM	20032	O1P	CYT	40	146.470	78.738	34.192	1.00	67.06	Al6S	20085	C2	GUA	42	137.693	85.775	24.083	1.00	56.17	Al6S
ATOM	20033	O2P	CYT	40	147.318	80.328	32.365	1.00	67.06	Al6S	20086	N2	GUA	42	137.393	86.645	23.105	1.00	56.17	Al6S
ATOM	20034	O5	CYT	40	145.834	81.152	34.189	1.00	74.98	Al6S	20087	N1	GUA	42	138.947	85.225	24.042	1.00	56.17	Al6S
ATOM	20035	C5	CYT	40	145.300	81.179	35.521	1.00	74.98	Al6S	20088	C6	GUA	42	139.446	84.302	24.952	1.00	56.17	Al6S
ATOM	20036	C4	CYT	40	144.072	82.046	35.572	1.00	74.98	Al6S	20089	O6	GUA	42	140.587	83.858	24.815	1.00	56.17	Al6S
ATOM	20037	O4	CYT	40	144.448	83.431	35.379	1.00	74.98	Al6S	20090	C5	GUA	42	138.501	83.994	25.952	1.00	56.17	Al6S
ATOM	20038	C1	CYT	40	143.447	84.096	34.622	1.00	74.98	Al6S	20091	N7	GUA	42	138.593	83.137	27.040	1.00	56.17	Al6S
ATOM	20039	N1	CYT	40	144.037	84.560	33.356	1.00	67.06	Al6S	20092	C8	GUA	42	137.434	83.236	27.630	1.00	56.17	Al6S
ATOM	20040	C6	CYT	40	145.251	84.102	32.928	1.00	67.06	Al6S	20093	C2	GUA	42	134.192	83.639	26.552	1.00	65.83	Al6S
ATOM	20041	C2	CYT	40	143.317	85.464	32.584	1.00	67.06	Al6S	20094	O2	GUA	42	133.013	84.400	26.362	1.00	65.83	Al6S
ATOM	20042	O2	CYT	40	142.231	85.879	33.013	1.00	67.06	Al6S	20095	C3	GUA	42	133.963	82.427	27.438	1.00	65.83	Al6S
ATOM	20043	N3	CYT	40	143.816	85.865	31.394	1.00	67.06	Al6S	20096	O3	GUA	42	132.716	81.814	27.176	1.00	65.83	Al6S
ATOM	20044	C4	CYT	40	144.996	85.403	30.979	1.00	67.06	Al6S	20097	P	CYT	43	132.647	80.600	26.131	1.00	52.40	Al6S
ATOM	20045	N4	CYT	40	145.455	85.821	29.797	1.00	67.06	Al6S	20098	O1P	CYT	43	131.257	80.057	26.128	1.00	47.05	Al6S
ATOM	20046	C5	CYT	40	145.761	84.493	31.757	1.00	67.06	Al6S	20099	O2P	CYT	43	133.799	79.695	26.423	1.00	47.05	Al6S
ATOM	20047	C2	CYT	40	142.325	83.097	34.352	1.00	74.98	Al6S	20100	O5	CYT	43	132.883	81.289	24.715	1.00	52.40	Al6S
ATOM	20048	O2	CYT	40	141.304	83.270	35.307	1.00	74.98	Al6S	20101	C5	CYT	43	131.866	82.111	24.137	1.00	52.40	Al6S
ATOM	20049	C3	CYT	40	143.067	81.774	34.471	1.00	74.98	Al6S	20102	C4	CYT	43	132.395	82.829	22.929	1.00	52.40	Al6S
ATOM	20050	O3	CYT	40	142.226	80.688	34.781	1.00	74.98	Al6S	20103	O4	CYT	43	132.588	83.548	23.310	1.00	52.40	Al6S
ATOM	20051	P	GUA	41	141.654	79.772	33.592	1.00	57.39	Al6S	20104	C1	CYT	43	134.477	83.608	22.214	1.00	52.40	Al6S
ATOM	20052	O1P	GUA	41	141.034	78.602	34.273	1.00	65.06	Al6S	20105	N1	CYT	43	135.747	82.989	22.602	1.00	47.05	Al6S

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ATOM	20106	C6	CYT	43	135.856	82.256	23.748	1.00	47.05	Al6s	ATOM	20159	O3'	URI	45	139.578	77.124	12.573	1.00	46.41	Al6s
ATOM	20107	C2	CYT	43	136.856	83.165	21.771	1.00	47.05	Al6s	ATOM	20160	P	GUA	46	139.622	75.585	12.145	1.00	46.35	Al6s
ATOM	20108	O3	CYT	43	136.726	83.832	20.736	1.00	47.05	Al6s	ATOM	20161	O1P	GUA	46	139.762	75.525	10.668	1.00	42.74	Al6s
ATOM	20109	N3	CYT	43	138.039	82.606	22.115	1.00	47.05	Al6s	ATOM	20162	O2P	GUA	46	138.483	74.888	12.795	1.00	42.74	Al6s
ATOM	20110	C4	CYT	43	138.133	81.898	23.240	1.00	47.05	Al6s	ATOM	20163	O5'	GUA	46	140.988	75.076	12.789	1.00	46.35	Al6s
ATOM	20111	N4	CYT	43	139.315	81.374	23.550	1.00	47.05	Al6s	ATOM	20164	C5'	GUA	46	142.250	75.389	12.163	1.00	46.35	Al6s
ATOM	20112	C5	CYT	43	137.018	81.700	24.101	1.00	47.05	Al6s	ATOM	20165	C4'	GUA	46	143.369	74.644	12.837	1.00	46.35	Al6s
ATOM	20113	C2'	CYT	43	133.819	82.887	21.045	1.00	52.40	Al6s	ATOM	20166	O4'	GUA	46	143.499	75.124	14.196	1.00	46.35	Al6s
ATOM	20114	O2'	CYT	43	133.137	83.830	20.243	1.00	52.40	Al6s	ATOM	20167	C1'	GUA	46	143.778	74.041	15.071	1.00	46.35	Al6s
ATOM	20115	C3'	CYT	43	132.845	81.973	21.762	1.00	52.40	Al6s	ATOM	20168	N9	GUA	46	142.642	73.874	15.978	1.00	42.74	Al6s
ATOM	20116	O3	CYT	43	131.779	81.636	20.897	1.00	52.40	Al6s	ATOM	20169	C4	GUA	46	142.679	73.358	17.247	1.00	42.74	Al6s
ATOM	20117	O1P	GUA	44	131.803	80.219	20.143	1.00	63.05	Al6s	ATOM	20170	N3	GUA	46	143.782	72.940	17.895	1.00	42.74	Al6s
ATOM	20118	O1P	GUA	44	130.533	80.166	19.353	1.00	51.42	Al6s	ATOM	20171	C2	GUA	46	143.503	72.479	19.098	1.00	42.74	Al6s
ATOM	20119	O2P	GUA	44	132.099	79.175	21.160	1.00	51.42	Al6s	ATOM	20172	N2	GUA	46	144.491	72.024	19.871	1.00	42.74	Al6s
ATOM	20120	O5'	GUA	44	133.068	80.267	19.170	1.00	63.05	Al6s	ATOM	20173	N1	GUA	46	142.238	72.429	19.628	1.00	42.74	Al6s
ATOM	20121	C5'	GUA	44	133.034	81.070	17.994	1.00	63.05	Al6s	ATOM	20174	C6	GUA	46	141.078	72.842	18.976	1.00	42.74	Al6s
ATOM	20122	C4'	GUA	44	134.429	81.357	17.480	1.00	63.05	Al6s	ATOM	20175	O6	GUA	46	139.965	72.729	19.540	1.00	42.74	Al6s
ATOM	20123	O4'	GUA	44	135.336	81.681	18.569	1.00	63.05	Al6s	ATOM	20176	C5	GUA	46	141.370	73.350	17.679	1.00	42.74	Al6s
ATOM	20124	C1'	GUA	44	136.669	81.509	18.124	1.00	63.05	Al6s	ATOM	20177	N7	GUA	46	140.527	73.868	16.707	1.00	42.74	Al6s
ATOM	20125	N9	GUA	44	137.448	80.755	19.108	1.00	51.42	Al6s	ATOM	20178	C8	GUA	46	141.324	74.170	15.720	1.00	42.74	Al6s
ATOM	20126	C4	GUA	44	138.806	80.538	19.046	1.00	51.42	Al6s	ATOM	20179	O2'	GUA	46	143.970	72.802	14.200	1.00	46.35	Al6s
ATOM	20127	N3	GUA	44	139.630	80.982	18.081	1.00	51.42	Al6s	ATOM	20180	O2'	GUA	46	145.339	72.649	13.899	1.00	46.35	Al6s
ATOM	20128	C2	GUA	44	140.875	80.617	18.284	1.00	51.42	Al6s	ATOM	20181	C3'	GUA	46	143.129	73.156	12.986	1.00	46.35	Al6s
ATOM	20129	N2	GUA	44	141.817	80.992	17.424	1.00	51.42	Al6s	ATOM	20182	O3'	GUA	46	143.482	72.427	11.835	1.00	46.35	Al6s
ATOM	20130	N1	GUA	44	141.290	79.864	19.345	1.00	51.42	Al6s	ATOM	20183	P	CYT	47	142.586	71.174	11.406	1.00	47.17	Al6s
ATOM	20131	C6	GUA	44	140.470	79.389	20.353	1.00	51.42	Al6s	ATOM	20184	O1P	CYT	47	141.359	71.670	10.735	1.00	64.90	Al6s
ATOM	20132	O6	GUA	44	140.957	78.712	21.263	1.00	51.42	Al6s	ATOM	20185	O2P	CYT	47	142.467	70.295	12.589	1.00	64.90	Al6s
ATOM	20133	C5	GUA	44	139.112	79.785	20.153	1.00	51.42	Al6s	ATOM	20186	O5'	CYT	47	143.472	70.431	10.318	1.00	47.17	Al6s
ATOM	20134	N7	GUA	44	137.973	79.533	20.906	1.00	51.42	Al6s	ATOM	20187	C5'	CYT	47	144.710	69.804	10.685	1.00	47.17	Al6s
ATOM	20135	C8	GUA	44	137.011	80.126	20.248	1.00	51.42	Al6s	ATOM	20188	C4'	CYT	47	145.647	69.804	9.513	1.00	47.17	Al6s
ATOM	20136	C2'	GUA	44	136.601	80.808	16.771	1.00	63.05	Al6s	ATOM	20189	O4'	CYT	47	146.969	69.386	9.929	1.00	47.17	Al6s
ATOM	20137	O2'	GUA	44	136.749	81.783	15.765	1.00	63.05	Al6s	ATOM	20190	C1'	CYT	47	147.404	68.335	9.101	1.00	47.17	Al6s
ATOM	20138	C3'	GUA	44	135.184	80.256	16.769	1.00	63.05	Al6s	ATOM	20191	N1	CYT	47	148.272	67.444	9.880	1.00	64.90	Al6s
ATOM	20139	O3'	GUA	44	134.754	80.057	15.435	1.00	63.05	Al6s	ATOM	20192	C6	CYT	47	148.020	67.192	11.201	1.00	64.90	Al6s
ATOM	20140	P	URI	45	135.001	78.623	14.740	1.00	46.41	Al6s	ATOM	20193	C2	CYT	47	149.385	66.870	9.248	1.00	64.90	Al6s
ATOM	20141	O1P	URI	45	134.553	78.762	13.326	1.00	48.27	Al6s	ATOM	20194	O2	CYT	47	149.569	67.076	8.036	1.00	64.90	Al6s
ATOM	20142	O2P	URI	45	134.409	77.558	15.606	1.00	48.27	Al6s	ATOM	20195	N3	CYT	47	150.227	66.105	9.972	1.00	64.90	Al6s
ATOM	20143	O5'	URI	45	136.588	78.442	14.756	1.00	46.41	Al6s	ATOM	20196	C4	CYT	47	149.990	65.892	11.269	1.00	64.90	Al6s
ATOM	20144	C5'	URI	45	137.408	79.175	13.832	1.00	46.41	Al6s	ATOM	20197	N4	CYT	47	150.872	65.162	11.953	1.00	64.90	Al6s
ATOM	20145	C4'	URI	45	138.870	78.888	14.062	1.00	46.41	Al6s	ATOM	20198	C5	CYT	47	148.844	66.429	11.925	1.00	64.90	Al6s
ATOM	20146	O4'	URI	45	139.220	79.242	15.415	1.00	46.41	Al6s	ATOM	20199	O2'	CYT	47	146.145	67.691	8.532	1.00	47.17	Al6s
ATOM	20147	C1'	URI	45	140.222	78.366	15.892	1.00	46.41	Al6s	ATOM	20200	O2'	CYT	47	146.457	67.045	7.316	1.00	47.17	Al6s
ATOM	20148	N1	URI	45	139.703	77.656	17.069	1.00	48.27	Al6s	ATOM	20201	C3'	CYT	47	145.252	68.911	8.344	1.00	47.17	Al6s
ATOM	20149	C6	URI	45	138.345	77.561	17.323	1.00	48.27	Al6s	ATOM	20202	O3'	CYT	47	145.682	69.599	7.184	1.00	47.17	Al6s
ATOM	20150	C2	URI	45	140.630	77.083	17.916	1.00	48.27	Al6s	ATOM	20203	P	CYT	48	144.841	69.512	5.829	1.00	55.22	Al6s
ATOM	20151	O2	URI	45	141.832	77.134	17.715	1.00	48.27	Al6s	ATOM	20204	O1P	CYT	48	143.523	70.176	6.064	1.00	65.20	Al6s
ATOM	20152	N3	URI	45	140.097	76.445	19.000	1.00	48.27	Al6s	ATOM	20205	O2P	CYT	48	144.881	68.111	5.327	1.00	65.20	Al6s
ATOM	20153	C4	URI	45	138.762	76.321	19.317	1.00	48.27	Al6s	ATOM	20206	O5'	CYT	48	145.711	70.440	4.872	1.00	55.22	Al6s
ATOM	20154	O4	URI	45	138.445	75.747	20.361	1.00	48.27	Al6s	ATOM	20207	C5'	CYT	48	145.965	71.803	5.244	1.00	55.22	Al6s
ATOM	20155	C5	URI	45	137.859	76.931	18.385	1.00	48.27	Al6s	ATOM	20208	O4'	CYT	48	146.952	72.449	4.306	1.00	55.22	Al6s
ATOM	20156	C2'	URI	45	140.588	77.414	14.762	1.00	46.41	Al6s	ATOM	20209	O4'	CYT	48	146.967	73.855	4.584	1.00	55.22	Al6s
ATOM	20157	O2'	URI	45	141.723	77.942	14.118	1.00	46.41	Al6s	ATOM	20210	C1'	CYT	48	148.265	74.364	4.444	1.00	55.22	Al6s
ATOM	20158	C3'	URI	45	139.324	77.451	13.918	1.00	46.41	Al6s	ATOM	20211	N1	CYT	48	148.488	75.303	5.547	1.00	65.20	Al6s

ATOM	20212	C6	CYT	48	148.583	74.867	6.837	1.00	65.20	Al6S	ATOM	20265	P	ADE	51	147.218	63.074	2.242	1.00	53.93	Al6
ATOM	20213	C2	CYT	48	148.590	76.665	5.254	1.00	65.20	Al6S	ATOM	20266	O1P	ADE	51	146.853	62.377	3.521	1.00	60.36	Al6
ATOM	20214	O2	CYT	48	148.486	77.040	4.073	1.00	65.20	Al6S	ATOM	20267	O2P	ADE	51	147.354	64.557	2.222	1.00	60.36	Al6
ATOM	20215	N3	CYT	48	148.793	77.543	6.258	1.00	65.20	Al6S	ATOM	20268	O5	ADE	51	146.177	62.647	1.116	1.00	53.93	Al6
ATOM	20216	C4	CYT	48	148.893	77.109	7.513	1.00	65.20	Al6S	ATOM	20269	C5	ADE	51	146.300	63.187	-0.190	1.00	53.93	Al6
ATOM	20217	N4	CYT	48	149.116	78.015	8.474	1.00	65.20	Al6S	ATOM	20270	C4	ADE	51	145.716	62.251	-1.205	1.00	53.93	Al6
ATOM	20218	C5	CYT	48	148.778	75.728	7.841	1.00	65.20	Al6S	ATOM	20271	O4	ADE	51	144.284	62.267	-1.100	1.00	53.93	Al6
ATOM	20219	C2	CYT	48	149.256	73.210	4.275	1.00	55.22	Al6S	ATOM	20272	C1	ADE	51	143.716	62.092	-2.381	1.00	53.93	Al6
ATOM	20220	O2	CYT	48	149.963	73.308	3.062	1.00	55.22	Al6S	ATOM	20273	N9	ADE	51	142.494	62.901	-2.477	1.00	60.36	Al6
ATOM	20221	C3	CYT	48	148.378	71.972	4.473	1.00	55.22	Al6S	ATOM	20274	C4	ADE	51	141.424	62.673	-3.312	1.00	60.36	Al6
ATOM	20222	O2	CYT	48	148.609	70.864	3.579	1.00	55.22	Al6S	ATOM	20275	N3	ADE	51	141.313	61.724	-4.254	1.00	60.36	Al6
ATOM	20223	O2	CYT	48	148.366	71.008	1.971	1.00	56.91	Al6S	ATOM	20276	C2	ADE	51	140.114	61.778	-4.833	1.00	60.36	Al6
ATOM	20224	O1P	URI	49	147.397	69.922	1.615	1.00	71.24	Al6S	ATOM	20277	N1	ADE	51	139.087	62.603	-4.590	1.00	60.36	Al6
ATOM	20225	O2P	URI	49	148.085	72.403	1.550	1.00	71.24	Al6S	ATOM	20278	C6	ADE	51	139.227	63.539	-3.633	1.00	60.36	Al6
ATOM	20226	O5	URI	49	149.766	70.606	1.345	1.00	56.91	Al6S	ATOM	20279	N6	ADE	51	138.194	64.341	-3.374	1.00	60.36	Al6
ATOM	20227	C5	URI	49	150.025	69.244	1.089	1.00	56.91	Al6S	ATOM	20280	C5	ADE	51	140.461	63.600	-2.955	1.00	60.36	Al6
ATOM	20228	C4	URI	49	151.478	68.913	1.279	1.00	56.91	Al6S	ATOM	20281	N7	ADE	51	140.930	64.430	-1.949	1.00	60.36	Al6
ATOM	20229	O4	URI	49	152.002	69.386	2.552	1.00	56.91	Al6S	ATOM	20282	C8	ADE	51	142.140	63.987	-1.713	1.00	60.36	Al6
ATOM	20230	C1	URI	49	152.475	68.284	3.302	1.00	56.91	Al6S	ATOM	20283	C2	ADE	51	144.808	62.233	-3.447	1.00	53.93	Al6
ATOM	20231	N1	URI	49	152.244	68.545	4.729	1.00	71.24	Al6S	ATOM	20284	O2	ADE	51	145.024	61.018	-4.128	1.00	53.93	Al6
ATOM	20232	C6	URI	49	151.029	68.982	5.185	1.00	71.24	Al6S	ATOM	20285	C3	ADE	51	146.007	62.693	-2.627	1.00	53.93	Al6
ATOM	20233	C2	URI	49	153.300	68.349	5.600	1.00	71.24	Al6S	ATOM	20286	O3	ADE	51	147.311	62.232	-3.073	1.00	53.93	Al6
ATOM	20234	O2	URI	49	154.389	67.923	5.248	1.00	71.24	Al6S	ATOM	20287	P	GUA	52	147.833	60.714	-2.758	1.00	47.34	Al6
ATOM	20235	N3	URI	49	153.035	68.663	6.906	1.00	71.24	Al6S	ATOM	20288	O1P	GUA	52	146.845	59.669	-3.154	1.00	58.36	Al6
ATOM	20236	C4	URI	49	151.846	69.132	7.422	1.00	71.24	Al6S	ATOM	20289	O2P	GUA	52	149.197	60.689	-3.351	1.00	58.36	Al6
ATOM	20237	O4	URI	49	151.787	69.461	8.609	1.00	71.24	Al6S	ATOM	20290	O5	GUA	52	148.026	60.653	-1.173	1.00	47.34	Al6
ATOM	20238	C5	URI	49	150.800	69.271	6.465	1.00	71.24	Al6S	ATOM	20291	C5	GUA	52	147.547	59.534	-0.408	1.00	47.34	Al6
ATOM	20239	C2	URI	49	151.733	67.065	2.765	1.00	56.91	Al6S	ATOM	20292	C4	GUA	52	148.674	58.572	-0.109	1.00	47.34	Al6
ATOM	20240	O2	URI	49	152.417	65.851	2.994	1.00	56.91	Al6S	ATOM	20293	O4	GUA	52	149.654	59.158	0.793	1.00	47.34	Al6
ATOM	20241	C3	URI	49	151.625	67.408	1.289	1.00	56.91	Al6S	ATOM	20294	C1	GUA	52	150.142	58.162	1.688	1.00	47.34	Al6
ATOM	20242	O3	URI	49	152.762	67.026	0.568	1.00	56.91	Al6S	ATOM	20295	N9	GUA	52	149.817	58.564	3.056	1.00	58.36	Al6
ATOM	20243	P	ADE	50	152.587	65.997	-0.628	1.00	59.79	Al6S	ATOM	20296	C4	GUA	52	150.225	57.952	4.222	1.00	58.36	Al6
ATOM	20244	O1P	ADE	50	151.882	66.701	-1.728	1.00	68.00	Al6S	ATOM	20297	N3	GUA	52	151.004	56.854	4.319	1.00	58.36	Al6
ATOM	20245	O2P	ADE	50	153.914	65.394	-0.865	1.00	68.00	Al6S	ATOM	20298	C2	GUA	52	151.210	56.507	5.583	1.00	58.36	Al6
ATOM	20246	O5	ADE	50	151.626	64.894	-0.008	1.00	59.79	Al6S	ATOM	20299	N2	GUA	52	151.955	55.432	5.877	1.00	58.36	Al6
ATOM	20247	C5	ADE	50	150.666	64.186	-0.813	1.00	59.79	Al6S	ATOM	20300	N1	GUA	52	150.699	57.187	6.649	1.00	58.36	Al6
ATOM	20248	C4	ADE	50	150.137	62.997	-0.041	1.00	59.79	Al6S	ATOM	20301	C6	GUA	52	149.898	58.315	6.567	1.00	58.36	Al6
ATOM	20249	O4	ADE	50	151.191	62.004	0.086	1.00	59.79	Al6S	ATOM	20302	O6	GUA	52	149.490	58.850	7.590	1.00	58.36	Al6
ATOM	20250	C1	ADE	50	151.477	61.786	1.451	1.00	59.79	Al6S	ATOM	20303	C5	GUA	52	149.663	58.693	5.236	1.00	58.36	Al6
ATOM	20251	N9	ADE	50	152.921	61.611	1.583	1.00	68.00	Al6S	ATOM	20304	N7	GUA	52	148.915	59.741	4.727	1.00	58.36	Al6
ATOM	20252	C4	ADE	50	153.563	60.701	2.385	1.00	68.00	Al6S	ATOM	20305	C8	GUA	52	149.037	59.627	3.435	1.00	58.36	Al6
ATOM	20253	N3	ADE	50	153.002	59.798	3.208	1.00	68.00	Al6S	ATOM	20306	C2	GUA	52	149.480	56.840	1.311	1.00	47.34	Al6
ATOM	20254	C2	ADE	50	153.937	59.088	3.829	1.00	68.00	Al6S	ATOM	20307	O2	GUA	52	150.327	56.125	0.446	1.00	47.34	Al6
ATOM	20255	N1	ADE	50	155.270	59.171	3.728	1.00	68.00	Al6S	ATOM	20308	C3	GUA	52	148.219	57.320	0.608	1.00	47.34	Al6
ATOM	20256	C6	ADE	50	155.797	60.085	2.889	1.00	68.00	Al6S	ATOM	20309	O3	GUA	52	147.724	56.380	-0.316	1.00	47.34	Al6
ATOM	20257	N6	ADE	50	157.122	60.166	2.785	1.00	68.00	Al6S	ATOM	20310	P	ADE	53	146.593	55.352	0.149	1.00	49.92	Al6
ATOM	20258	C5	ADE	50	154.912	60.899	2.173	1.00	68.00	Al6S	ATOM	20311	O1P	ADE	53	146.417	54.367	-0.950	1.00	53.72	Al6
ATOM	20259	N7	ADE	50	155.118	61.911	1.249	1.00	68.00	Al6S	ATOM	20312	O2P	ADE	53	145.422	56.118	0.649	1.00	53.72	Al6
ATOM	20260	C8	ADE	50	153.911	62.300	0.934	1.00	68.00	Al6S	ATOM	20313	O5	ADE	53	147.283	54.608	1.371	1.00	49.92	Al6
ATOM	20261	C2	ADE	50	150.921	62.991	2.210	1.00	59.79	Al6S	ATOM	20314	C5	ADE	53	148.392	53.727	1.151	1.00	49.92	Al6
ATOM	20262	O2	ADE	50	150.616	62.667	3.546	1.00	59.79	Al6S	ATOM	20315	C4	ADE	53	148.738	53.009	2.424	1.00	49.92	Al6
ATOM	20263	C3	ADE	50	149.689	63.332	1.379	1.00	59.79	Al6S	ATOM	20316	O4	ADE	53	149.363	53.931	3.346	1.00	49.92	Al6
ATOM	20264	O3	ADE	50	148.614	62.465	1.732	1.00	59.79	Al6S	ATOM	20317	C1	ADE	53	149.002	53.591	4.673	1.00	49.92	Al6

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ATOM	20318	N9	ADE	53	148.279	54.723	5.253	1.00	53.72	A16S	ATOM	20371	O2' ADE	55	144.505	46.204	15.262	1.00	41.70	A16
ATOM	20319	C4' ADE	53	148.172	55.022	6.588	1.00	53.72	A16S	ATOM	20372	C3' ADE	55	143.485	47.277	13.337	1.00	41.70	A16	
ATOM	20320	N9 ADE	53	148.710	54.354	7.618	1.00	53.72	A16S	ATOM	20373	O3' ADE	55	142.814	46.034	13.195	1.00	41.70	A16	
ATOM	20321	C2 ADE	53	148.405	54.946	8.767	1.00	53.72	A16S	ATOM	20374	P	56	141.222	45.974	13.391	1.00	54.52	A16	
ATOM	20322	N1 ADE	53	147.682	56.042	8.983	1.00	53.72	A16S	ATOM	20375	O1P URI	56	140.803	44.555	13.487	1.00	70.23	A16	
ATOM	20323	C6 ADE	53	147.155	56.682	7.924	1.00	53.72	A16S	ATOM	20376	O2P URI	56	140.598	46.853	12.360	1.00	70.23	A16	
ATOM	20324	N6 ADE	53	146.436	57.775	8.136	1.00	53.72	A16S	ATOM	20377	O5' URI	56	140.993	46.648	14.816	1.00	54.52	A16	
ATOM	20325	C5 ADE	53	147.399	56.158	6.658	1.00	53.72	A16S	ATOM	20378	C5' URI	56	141.286	45.948	16.035	1.00	54.52	A16	
ATOM	20326	N7 ADE	53	147.013	56.568	5.394	1.00	53.72	A16S	ATOM	20379	C4' URI	56	140.829	46.763	17.226	1.00	54.52	A16	
ATOM	20327	C8 ADE	53	147.563	55.689	4.597	1.00	53.72	A16S	ATOM	20380	O4' URI	56	141.679	47.932	17.384	1.00	54.52	A16	
ATOM	20328	O2' ADE	53	148.117	52.345	4.605	1.00	49.92	A16S	ATOM	20381	C1' URI	56	140.899	49.038	17.826	1.00	54.52	A16	
ATOM	20329	O2' ADE	53	148.875	51.166	4.765	1.00	49.92	A16S	ATOM	20382	N1 URI	56	140.932	50.082	16.785	1.00	70.23	A16	
ATOM	20330	C3' ADE	53	147.560	52.447	3.200	1.00	49.92	A16S	ATOM	20383	C6 URI	56	141.305	49.784	15.489	1.00	70.23	A16	
ATOM	20331	O3' ADE	53	147.116	51.193	2.724	1.00	49.92	A16S	ATOM	20384	C2 URI	56	140.587	51.383	17.142	1.00	70.23	A16	
ATOM	20332	P	54	145.680	50.648	3.177	1.00	43.35	A16S	ATOM	20385	O2 URI	56	140.214	51.696	18.265	1.00	70.23	A16	
ATOM	20333	O1P URI	54	145.633	49.216	2.762	1.00	47.93	A16S	ATOM	20386	N3 URI	56	140.687	52.302	16.126	1.00	70.23	A16	
ATOM	20334	O2P URI	54	144.619	51.578	2.710	1.00	47.93	A16S	ATOM	20387	C4 URI	56	141.074	52.064	14.820	1.00	70.23	A16	
ATOM	20335	O5' URI	54	145.807	50.731	4.758	1.00	43.35	A16S	ATOM	20388	O4 URI	56	141.157	53.006	14.031	1.00	70.23	A16	
ATOM	20336	C5' URI	54	144.678	50.696	5.622	1.00	43.35	A16S	ATOM	20389	C5 URI	56	141.385	50.704	14.526	1.00	70.23	A16	
ATOM	20337	C4' URI	54	145.166	50.766	7.040	1.00	43.35	A16S	ATOM	20390	C2' URI	56	139.484	48.524	18.075	1.00	54.52	A16	
ATOM	20338	O4' URI	54	145.897	52.004	7.225	1.00	43.35	A16S	ATOM	20391	O2' URI	56	139.344	48.141	19.430	1.00	54.52	A16	
ATOM	20339	C1' URI	54	145.743	52.448	8.562	1.00	43.35	A16S	ATOM	20392	C3' URI	56	139.426	47.339	17.126	1.00	54.52	A16	
ATOM	20340	N1 URI	54	145.138	53.787	8.554	1.00	47.93	A16S	ATOM	20393	O3' URI	56	138.406	46.431	17.476	1.00	54.52	A16	
ATOM	20341	C6 URI	54	144.519	54.273	7.440	1.00	47.93	A16S	ATOM	20394	P	57	136.922	46.681	16.921	1.00	59.85	A16	
ATOM	20342	O2 URI	54	145.173	54.546	9.730	1.00	47.93	A16S	ATOM	20395	O1P GUA	57	136.061	45.544	17.333	1.00	56.43	A16	
ATOM	20343	C2 URI	54	145.797	54.113	10.705	1.00	47.93	A16S	ATOM	20396	O2P GUA	57	137.014	47.042	15.488	1.00	56.43	A16	
ATOM	20344	N3 URI	54	144.534	55.727	9.773	1.00	47.93	A16S	ATOM	20397	O5' GUA	57	136.434	47.954	17.734	1.00	59.85	A16	
ATOM	20345	C4 URI	54	143.893	56.173	8.694	1.00	47.93	A16S	ATOM	20398	C5' GUA	57	136.190	47.870	19.145	1.00	59.85	A16	
ATOM	20346	N4 URI	54	143.237	57.326	8.791	1.00	47.93	A16S	ATOM	20399	O4' GUA	57	135.604	49.164	19.645	1.00	59.85	A16	
ATOM	20347	C5 URI	54	143.887	55.448	7.466	1.00	47.93	A16S	ATOM	20400	C4' GUA	57	136.601	50.215	19.526	1.00	59.85	A16	
ATOM	20348	C2' URI	54	144.851	51.439	9.301	1.00	43.35	A16S	ATOM	20401	C1' GUA	57	135.968	51.433	19.172	1.00	59.85	A16	
ATOM	20349	O2' URI	54	145.647	50.586	10.104	1.00	43.35	A16S	ATOM	20402	N9 GUA	57	136.443	51.841	17.853	1.00	56.43	A16	
ATOM	20350	C3' URI	54	144.126	50.743	8.146	1.00	43.35	A16S	ATOM	20403	C4 GUA	57	136.524	53.132	17.401	1.00	56.43	A16	
ATOM	20351	O3' URI	54	143.759	49.395	8.455	1.00	43.35	A16S	ATOM	20404	N3 GUA	57	136.218	54.238	18.114	1.00	56.43	A16	
ATOM	20352	P	55	142.695	49.100	9.622	1.00	41.70	A16S	ATOM	20405	C2 GUA	57	136.385	55.338	17.411	1.00	56.43	A16	
ATOM	20353	O1P ADE	55	142.019	47.811	9.300	1.00	66.30	A16S	ATOM	20406	N2 GUA	57	136.141	56.524	17.972	1.00	56.43	A16	
ATOM	20354	O2P ADE	55	141.873	50.320	9.830	1.00	66.30	A16S	ATOM	20407	N1 GUA	57	136.805	55.355	16.109	1.00	56.43	A16	
ATOM	20355	O5' ADE	55	143.611	48.902	10.915	1.00	41.70	A16S	ATOM	20408	C6 GUA	57	137.120	54.237	15.351	1.00	56.43	A16	
ATOM	20356	C5' ADE	55	144.524	47.784	11.015	1.00	41.70	A16S	ATOM	20409	O6 GUA	57	137.469	54.375	14.179	1.00	56.43	A16	
ATOM	20357	C4' ADE	55	144.723	47.373	12.463	1.00	41.70	A16S	ATOM	20410	C5 GUA	57	136.963	53.039	16.098	1.00	56.43	A16	
ATOM	20358	O4' ADE	55	145.583	48.318	13.145	1.00	41.70	A16S	ATOM	20411	N7 GUA	57	137.175	51.712	15.741	1.00	56.43	A16	
ATOM	20359	C1' ADE	55	145.236	48.376	14.517	1.00	41.70	A16S	ATOM	20412	C8 GUA	57	136.859	51.039	16.813	1.00	56.43	A16	
ATOM	20360	N9 ADE	55	144.950	49.768	14.866	1.00	66.30	A16S	ATOM	20413	C2' GUA	57	134.459	51.181	19.147	1.00	59.85	A16	
ATOM	20361	C4 ADE	55	144.555	50.234	16.097	1.00	66.30	A16S	ATOM	20414	O2' GUA	57	133.880	51.515	20.398	1.00	59.85	A16	
ATOM	20362	N3 ADE	55	144.366	49.519	17.218	1.00	66.30	A16S	ATOM	20415	C3' GUA	57	134.410	49.689	18.859	1.00	59.85	A16	
ATOM	20363	C2 ADE	55	143.958	50.305	18.213	1.00	66.30	A16S	ATOM	20416	O3' GUA	57	133.176	49.100	19.230	1.00	59.85	A16	
ATOM	20364	N1 ADE	55	143.733	51.619	18.215	1.00	66.30	A16S	ATOM	20417	P	58	132.070	48.820	18.099	1.00	65.37	A16	
ATOM	20365	C6 ADE	55	143.929	52.307	17.072	1.00	66.30	A16S	ATOM	20418	O1P CYT	58	131.007	47.995	18.723	1.00	56.32	A16	
ATOM	20366	N6 ADE	55	143.693	53.621	17.071	1.00	66.30	A16S	ATOM	20419	O2P CYT	58	132.748	48.344	16.861	1.00	56.32	A16	
ATOM	20367	C5 ADE	55	144.367	51.592	15.945	1.00	66.30	A16S	ATOM	20420	O5' CYT	58	131.440	50.251	17.803	1.00	65.37	A16	
ATOM	20368	N7 ADE	55	144.656	51.984	14.647	1.00	66.30	A16S	ATOM	20421	C5' CYT	58	130.591	50.882	18.775	1.00	65.37	A16	
ATOM	20369	C8 ADE	55	145.000	50.869	14.051	1.00	66.30	A16S	ATOM	20422	C4' CYT	58	130.508	52.366	18.527	1.00	65.37	A16	
ATOM	20370	C2' ADE	55	144.051	47.430	14.742	1.00	41.70	A16S	ATOM	20423	O4' CYT	58	131.845	52.936	18.510	1.00	65.37	A16	

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ATOM	20424	C1' CYT	58	131.889	54.024	17.601	1.00	65.37	Al6S	ATOM	20477	C2' ADE	60	123.096	52.945	9.519	1.00	49.46	Al6S
ATOM	20425	N1 CYT	58	132.805	53.686	16.491	1.00	56.32	Al6S	ATOM	20478	O2' ADE	60	122.411	51.791	9.082	1.00	49.46	Al6S
ATOM	20426	O6' CYT	58	133.014	52.386	16.126	1.00	56.32	Al6S	ATOM	20479	C3' ADE	60	124.066	52.709	10.680	1.00	49.46	Al6S
ATOM	20427	C2 CYT	58	133.441	54.729	15.784	1.00	56.32	Al6S	ATOM	20480	O3' ADE	60	124.433	51.350	11.032	1.00	49.46	Al6S
ATOM	20428	O2 CYT	58	133.269	55.909	16.150	1.00	56.32	Al6S	ATOM	20481	P GUA	61	123.342	50.298	11.634	1.00	56.24	Al6S
ATOM	20429	N3 CYT	58	134.226	54.423	14.724	1.00	56.32	Al6S	ATOM	20482	O1P GUA	61	124.097	49.496	12.630	1.00	36.97	Al6S
ATOM	20430	C4 CYT	58	134.397	53.152	14.370	1.00	56.32	Al6S	ATOM	20483	O2P GUA	61	122.565	49.610	10.551	1.00	36.97	Al6S
ATOM	20431	N4 CYT	58	135.163	52.901	13.317	1.00	56.32	Al6S	ATOM	20484	O5' GUA	61	122.341	51.150	12.523	1.00	56.24	Al6S
ATOM	20432	C5 CYT	58	133.790	52.079	15.082	1.00	56.32	Al6S	ATOM	20485	C5' GUA	61	121.102	50.599	12.991	1.00	56.24	Al6S
ATOM	20433	C2' CYT	58	130.471	54.210	17.066	1.00	65.37	Al6S	ATOM	20486	C4' GUA	61	120.038	51.653	12.899	1.00	56.24	Al6S
ATOM	20434	O6' CYT	58	129.765	55.116	17.891	1.00	65.37	Al6S	ATOM	20487	O4' GUA	61	119.882	52.021	11.510	1.00	56.24	Al6S
ATOM	20435	C3' CYT	58	129.909	52.809	17.206	1.00	65.37	Al6S	ATOM	20488	C1' GUA	61	118.532	52.358	11.251	1.00	56.24	Al6S
ATOM	20436	O3' CYT	58	128.496	52.836	17.217	1.00	65.37	Al6S	ATOM	20489	N9 GUA	61	118.025	51.423	10.250	1.00	36.97	Al6S
ATOM	20437	P ADE	59	127.696	52.717	15.828	1.00	66.28	Al6S	ATOM	20490	C4 GUA	61	116.877	51.546	9.498	1.00	36.97	Al6S
ATOM	20438	O1P ADE	59	126.238	52.721	16.170	1.00	77.46	Al6S	ATOM	20491	N3 GUA	61	115.979	52.554	9.566	1.00	36.97	Al6S
ATOM	20439	O2P ADE	59	128.272	51.575	15.073	1.00	77.46	Al6S	ATOM	20492	C2 GUA	61	115.004	52.401	8.675	1.00	36.97	Al6S
ATOM	20440	O5' ADE	59	128.066	54.047	15.027	1.00	66.28	Al6S	ATOM	20493	N2 GUA	61	114.031	53.311	8.577	1.00	36.97	Al6S
ATOM	20441	C5' ADE	59	127.739	55.344	15.560	1.00	66.28	Al6S	ATOM	20494	N1 GUA	61	114.914	51.343	7.808	1.00	36.97	Al6S
ATOM	20442	C4' ADE	59	128.147	56.439	14.599	1.00	66.28	Al6S	ATOM	20495	C6 GUA	61	115.819	50.293	7.739	1.00	36.97	Al6S
ATOM	20443	O4' ADE	59	129.583	56.423	14.403	1.00	66.28	Al6S	ATOM	20496	O6 GUA	61	115.636	49.377	6.937	1.00	36.97	Al6S
ATOM	20444	C1' ADE	59	129.892	56.802	13.071	1.00	66.28	Al6S	ATOM	20497	C5 GUA	61	116.869	50.446	8.665	1.00	36.97	Al6S
ATOM	20445	N9 ADE	59	130.611	55.700	12.424	1.00	77.46	Al6S	ATOM	20498	N7 GUA	61	117.968	49.640	8.903	1.00	36.97	Al6S
ATOM	20446	C4 ADE	59	130.943	55.618	11.093	1.00	77.46	Al6S	ATOM	20499	C8 GUA	61	118.620	50.251	9.852	1.00	36.97	Al6S
ATOM	20447	N3 ADE	59	130.687	56.518	10.131	1.00	77.46	Al6S	ATOM	20500	C2' GUA	61	117.799	52.306	12.586	1.00	56.24	Al6S
ATOM	20448	C2 ADE	59	131.149	56.095	8.955	1.00	77.46	Al6S	ATOM	20501	O2' GUA	61	117.894	53.591	13.181	1.00	56.24	Al6S
ATOM	20449	N1 ADE	59	131.785	54.962	8.655	1.00	77.46	Al6S	ATOM	20502	C3' GUA	61	118.639	51.290	13.342	1.00	56.24	Al6S
ATOM	20450	C6 ADE	59	132.025	54.080	9.645	1.00	77.46	Al6S	ATOM	20503	O3' GUA	61	118.503	51.416	14.742	1.00	56.24	Al6S
ATOM	20451	N6 ADE	59	132.652	52.948	9.347	1.00	77.46	Al6S	ATOM	20504	P URI	62	117.771	50.250	15.566	1.00	47.59	Al6S
ATOM	20452	C5 ADE	59	131.592	54.410	10.939	1.00	77.46	Al6S	ATOM	20505	O1P URI	62	117.902	48.981	14.789	1.00	55.28	Al6S
ATOM	20453	N7 ADE	59	131.679	53.742	12.151	1.00	77.46	Al6S	ATOM	20506	O2P URI	62	118.246	50.300	16.973	1.00	55.28	Al6S
ATOM	20454	C8 ADE	59	131.085	54.545	12.997	1.00	77.46	Al6S	ATOM	20507	O5' URI	62	116.232	50.643	15.520	1.00	47.59	Al6S
ATOM	20455	C2' ADE	59	128.576	57.149	12.375	1.00	66.28	Al6S	ATOM	20508	C5' URI	62	115.820	51.998	15.431	1.00	47.59	Al6S
ATOM	20456	O2' ADE	59	128.385	58.542	12.480	1.00	66.28	Al6S	ATOM	20509	C4' URI	62	114.577	52.086	14.591	1.00	47.59	Al6S
ATOM	20457	C3' ADE	59	127.567	56.359	13.199	1.00	66.28	Al6S	ATOM	20510	O4' URI	62	114.881	51.879	13.197	1.00	47.59	Al6S
ATOM	20458	O3' ADE	59	126.279	56.943	13.152	1.00	66.28	Al6S	ATOM	20511	C1' URI	62	113.799	51.238	12.564	1.00	47.59	Al6S
ATOM	20459	P ADE	60	125.329	56.657	11.895	1.00	49.46	Al6S	ATOM	20512	N1 URI	62	114.319	50.093	11.808	1.00	55.28	Al6S
ATOM	20460	O1P ADE	60	126.030	57.154	10.691	1.00	57.30	Al6S	ATOM	20513	C6 URI	62	115.491	49.457	12.160	1.00	55.28	Al6S
ATOM	20461	O2P ADE	60	123.952	57.129	12.195	1.00	57.30	Al6S	ATOM	20514	O2 URI	62	113.597	49.690	10.705	1.00	55.28	Al6S
ATOM	20462	O5' ADE	60	125.323	55.074	11.757	1.00	49.46	Al6S	ATOM	20515	C2 URI	62	112.544	50.212	10.373	1.00	55.28	Al6S
ATOM	20463	C5' ADE	60	124.564	54.242	12.647	1.00	49.46	Al6S	ATOM	20516	N3 URI	62	114.149	48.660	9.995	1.00	55.28	Al6S
ATOM	20464	C4' ADE	60	123.522	53.496	11.863	1.00	49.46	Al6S	ATOM	20517	C4 URI	62	115.330	48.003	10.260	1.00	55.28	Al6S
ATOM	20465	O4' ADE	60	122.623	54.461	11.312	1.00	49.46	Al6S	ATOM	20518	O4 URI	62	115.772	47.200	9.421	1.00	55.28	Al6S
ATOM	20466	C1' ADE	60	122.129	53.989	10.087	1.00	49.46	Al6S	ATOM	20519	C5 URI	62	116.009	48.457	11.444	1.00	47.59	Al6S
ATOM	20467	N9 ADE	60	121.821	55.162	9.275	1.00	57.30	Al6S	ATOM	20520	C2' URI	62	112.739	50.927	13.618	1.00	47.59	Al6S
ATOM	20468	C4 ADE	60	120.615	55.431	8.678	1.00	57.30	Al6S	ATOM	20521	O2' URI	62	111.709	51.882	13.511	1.00	47.59	Al6S
ATOM	20469	N3 ADE	60	119.530	54.642	8.643	1.00	57.30	Al6S	ATOM	20522	C3' URI	62	113.544	51.032	14.911	1.00	47.59	Al6S
ATOM	20470	C2 ADE	60	118.524	55.255	8.026	1.00	57.30	Al6S	ATOM	20523	O3' URI	62	112.811	51.478	16.039	1.00	47.59	Al6S
ATOM	20471	N1 ADE	60	118.481	56.472	7.483	1.00	57.30	Al6S	ATOM	20524	P CYT	63	111.768	50.500	16.758	1.00	45.23	Al6S
ATOM	20472	C6 ADE	60	119.589	57.237	7.531	1.00	57.30	Al6S	ATOM	20525	O1P CYT	63	112.302	49.116	16.668	1.00	37.79	Al6S
ATOM	20473	N6 ADE	60	119.540	58.457	6.997	1.00	57.30	Al6S	ATOM	20526	O2P CYT	63	111.432	51.078	18.101	1.00	37.79	Al6S
ATOM	20474	C5 ADE	60	120.730	56.699	8.152	1.00	57.30	Al6S	ATOM	20527	O5' CYT	63	110.505	50.628	15.813	1.00	45.23	Al6S
ATOM	20475	N7 ADE	60	122.004	57.201	8.363	1.00	57.30	Al6S	ATOM	20528	C5' CYT	63	109.553	49.622	15.823	1.00	45.23	Al6S
ATOM	20476	C8 ADE	60	122.615	56.245	9.018	1.00	57.30	Al6S	ATOM	20529	C4' CYT	63	108.533	49.863	14.771	1.00	45.23	Al6S

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ATOM	20530	04' CYT	63	109.161	50.107	13.499	1.00	45.23	Al6s	ATOM	20583	C2' URI	65	101.292	48.310	14.944	1.00	65.63	Al6s
ATOM	20531	C1' CYT	63	108.516	49.332	12.495	1.00	45.23	Al6s	ATOM	20584	O2' URI	65	101.914	49.393	14.266	1.00	65.63	Al6s
ATOM	20532	N2' CYT	63	109.506	48.369	11.944	1.00	37.79	Al6s	ATOM	20585	C3' URI	65	101.439	46.978	14.209	1.00	65.63	Al6s
ATOM	20533	C6 CYT	63	110.634	48.041	12.654	1.00	37.79	Al6s	ATOM	20586	O3' URI	65	101.281	47.230	12.815	1.00	65.63	Al6s
ATOM	20534	C2 CYT	63	109.280	47.800	10.675	1.00	37.79	Al6s	ATOM	20587	P GUA	66	102.458	46.856	11.796	1.00	61.46	Al6s
ATOM	20535	O2 CYT	63	108.236	48.086	10.059	1.00	37.79	Al6s	ATOM	20588	O1P GUA	66	103.595	46.272	12.579	1.00	46.56	Al6s
ATOM	20536	N3 CYT	63	110.204	46.950	10.165	1.00	37.79	Al6s	ATOM	20589	O2P GUA	66	102.687	48.034	10.913	1.00	46.56	Al6s
ATOM	20537	C4 CYT	63	111.299	46.652	10.869	1.00	37.79	Al6s	ATOM	20590	O5' GUA	66	101.824	45.709	10.907	1.00	61.46	Al6s
ATOM	20538	N4 CYT	63	112.176	45.819	10.332	1.00	37.79	Al6s	ATOM	20591	C5' GUA	66	100.570	45.901	10.250	1.00	61.46	Al6s
ATOM	20539	C5 CYT	63	111.544	47.198	12.158	1.00	37.79	Al6s	ATOM	20592	C4' GUA	66	100.523	45.050	9.018	1.00	61.46	Al6s
ATOM	20540	O3' CYT	63	107.303	48.653	13.142	1.00	45.23	Al6s	ATOM	20593	O4' GUA	66	101.616	45.472	8.169	1.00	61.46	Al6s
ATOM	20541	O2' CYT	63	106.130	49.422	12.952	1.00	45.23	Al6s	ATOM	20594	C1' GUA	66	102.255	44.343	7.606	1.00	61.46	Al6s
ATOM	20542	C3' CYT	63	107.750	48.591	14.591	1.00	45.23	Al6s	ATOM	20595	N9 GUA	66	103.593	44.245	8.193	1.00	46.56	Al6s
ATOM	20543	O3' CYT	63	106.749	48.556	15.574	1.00	45.23	Al6s	ATOM	20596	C4 GUA	66	104.523	43.266	7.934	1.00	46.56	Al6s
ATOM	20544	P GUA	64	106.966	47.654	16.880	1.00	60.62	Al6s	ATOM	20597	N3 GUA	66	104.362	42.233	7.084	1.00	46.56	Al6s
ATOM	20545	O1P GUA	64	106.242	48.305	17.989	1.00	52.17	Al6s	ATOM	20598	C2 GUA	66	105.419	41.452	7.057	1.00	46.56	Al6s
ATOM	20546	O2P GUA	64	108.392	47.304	17.062	1.00	52.17	Al6s	ATOM	20599	N2 GUA	66	105.426	40.375	6.257	1.00	46.56	Al6s
ATOM	20547	O5' GUA	64	106.176	46.339	16.482	1.00	60.62	Al6s	ATOM	20600	N1 GUA	66	106.546	41.668	7.807	1.00	46.56	Al6s
ATOM	20548	C5' GUA	64	104.801	46.403	16.051	1.00	60.62	Al6s	ATOM	20601	C6 GUA	66	106.739	42.730	8.680	1.00	46.56	Al6s
ATOM	20549	O4' GUA	64	104.165	45.060	16.246	1.00	60.62	Al6s	ATOM	20602	O6 GUA	66	107.806	42.842	9.290	1.00	46.56	Al6s
ATOM	20550	O4' GUA	64	104.955	44.131	15.485	1.00	60.62	Al6s	ATOM	20603	C5 GUA	66	105.611	43.572	8.725	1.00	46.56	Al6s
ATOM	20551	C1' GUA	64	104.967	42.899	16.147	1.00	60.62	Al6s	ATOM	20604	N7 GUA	66	105.378	44.724	9.464	1.00	46.56	Al6s
ATOM	20552	N9 GUA	64	106.289	42.295	16.056	1.00	52.17	Al6s	ATOM	20605	C8 GUA	66	104.173	45.092	9.117	1.00	46.56	Al6s
ATOM	20553	C4 GUA	64	106.556	41.121	15.401	1.00	52.17	Al6s	ATOM	20606	C2' GUA	66	101.395	43.129	7.952	1.00	61.46	Al6s
ATOM	20554	N3 GUA	64	105.651	40.372	14.725	1.00	52.17	Al6s	ATOM	20607	O2' GUA	66	100.404	42.919	6.964	1.00	61.46	Al6s
ATOM	20555	C2 GUA	64	106.194	39.289	14.210	1.00	52.17	Al6s	ATOM	20608	C3' GUA	66	100.786	43.575	9.266	1.00	61.46	Al6s
ATOM	20556	N2 GUA	64	105.439	38.446	13.489	1.00	52.17	Al6s	ATOM	20609	O3' GUA	66	99.629	42.835	9.625	1.00	61.46	Al6s
ATOM	20557	N1 GUA	64	107.520	38.954	14.357	1.00	52.17	Al6s	ATOM	20610	P CYT	67	99.768	41.623	10.674	1.00	65.44	Al6s
ATOM	20558	C6 GUA	64	108.469	39.707	15.042	1.00	52.17	Al6s	ATOM	20611	O1P CYT	67	98.399	41.063	10.857	1.00	33.54	Al6s
ATOM	20559	O6 GUA	64	109.636	39.311	15.104	1.00	52.17	Al6s	ATOM	20612	O2P CYT	67	100.537	42.106	11.851	1.00	33.54	Al6s
ATOM	20560	C5 GUA	64	107.898	40.888	15.595	1.00	52.17	Al6s	ATOM	20613	O5' CYT	67	100.672	40.545	9.926	1.00	65.44	Al6s
ATOM	20561	N7 GUA	64	108.471	41.913	16.341	1.00	52.17	Al6s	ATOM	20614	C5' CYT	67	100.254	39.973	8.673	1.00	65.44	Al6s
ATOM	20562	C8 GUA	64	107.479	42.726	16.591	1.00	52.17	Al6s	ATOM	20615	C4' CYT	67	101.199	38.868	8.251	1.00	65.44	Al6s
ATOM	20563	C2' GUA	64	104.357	43.048	17.539	1.00	60.62	Al6s	ATOM	20616	O4' CYT	67	102.504	39.412	7.922	1.00	65.44	Al6s
ATOM	20564	O2' GUA	64	103.090	42.409	17.563	1.00	60.62	Al6s	ATOM	20617	C1' CYT	67	103.502	38.439	8.186	1.00	65.44	Al6s
ATOM	20565	C3' GUA	64	104.234	44.556	17.690	1.00	60.62	Al6s	ATOM	20618	N1 CYT	67	104.491	38.984	9.132	1.00	33.54	Al6s
ATOM	20566	O3' GUA	64	103.049	44.744	18.497	1.00	60.62	Al6s	ATOM	20619	C6 CYT	67	104.201	40.044	9.941	1.00	33.54	Al6s
ATOM	20567	P URI	65	101.752	45.534	17.939	1.00	65.63	Al6s	ATOM	20620	C2 CYT	67	105.759	38.378	9.189	1.00	33.54	Al6s
ATOM	20568	O1P URI	65	100.576	44.867	18.553	1.00	84.79	Al6s	ATOM	20621	O2 CYT	67	105.995	37.408	8.450	1.00	33.54	Al6s
ATOM	20569	O2P URI	65	101.970	46.991	18.145	1.00	84.79	Al6s	ATOM	20622	N3 CYT	67	106.687	38.859	10.044	1.00	33.54	Al6s
ATOM	20570	O5' URI	65	101.674	45.249	16.378	1.00	65.63	Al6s	ATOM	20623	C4 CYT	67	106.393	39.895	10.825	1.00	33.54	Al6s
ATOM	20571	C5' URI	65	100.410	45.102	15.709	1.00	65.63	Al6s	ATOM	20624	N4 CYT	67	107.343	40.338	11.647	1.00	33.54	Al6s
ATOM	20572	C4' URI	65	100.214	46.196	14.674	1.00	65.63	Al6s	ATOM	20625	C5 CYT	67	105.111	40.525	10.796	1.00	33.54	Al6s
ATOM	20573	O4' URI	65	99.248	47.175	15.127	1.00	65.63	Al6s	ATOM	20626	C2' CYT	67	102.813	37.200	8.745	1.00	65.44	Al6s
ATOM	20574	C1' URI	65	99.773	48.467	14.937	1.00	65.63	Al6s	ATOM	20627	O2' CYT	67	102.611	36.295	7.683	1.00	65.44	Al6s
ATOM	20575	N1 URI	65	99.176	49.365	15.932	1.00	84.79	Al6s	ATOM	20628	C3' CYT	67	101.510	37.785	9.275	1.00	65.44	Al6s
ATOM	20576	C6 URI	65	99.475	49.278	17.269	1.00	84.79	Al6s	ATOM	20629	O3' CYT	67	100.487	36.804	9.358	1.00	65.44	Al6s
ATOM	20577	C2 URI	65	98.279	50.303	15.463	1.00	84.79	Al6s	ATOM	20630	P GUA	68	100.258	36.012	10.735	1.00	53.03	Al6s
ATOM	20578	O2 URI	65	97.991	50.413	14.280	1.00	84.79	Al6s	ATOM	20631	O1P GUA	68	98.883	35.476	10.655	1.00	41.94	Al6s
ATOM	20579	N3 URI	65	97.727	51.105	16.425	1.00	84.79	Al6s	ATOM	20632	O2P GUA	68	100.659	36.837	11.892	1.00	41.94	Al6s
ATOM	20580	C4 URI	65	97.972	51.065	17.775	1.00	84.79	Al6s	ATOM	20633	O5' GUA	68	101.284	34.804	10.647	1.00	53.03	Al6s
ATOM	20581	O4 URI	65	97.374	51.839	18.518	1.00	84.79	Al6s	ATOM	20634	C5' GUA	68	101.169	33.832	9.602	1.00	53.03	Al6s
ATOM	20582	C5 URI	65	98.916	50.072	18.183	1.00	84.79	Al6s	ATOM	20635	C4' GUA	68	102.447	33.049	9.481	1.00	53.03	Al6s

ATOM	20636	O4' GUA	68	103.530	33.946	9.120	1.00	53.03	Al6S	ATOM	20689	N1 GUA	70	113.530	32.987	18.834	1.00	51.21	Al6S
ATOM	20637	C1' GUA	68	104.753	33.448	9.629	1.00	53.03	Al6S	ATOM	20690	C6 GUA	70	112.169	32.914	18.524	1.00	51.21	Al6S
ATOM	20638	N9 GUA	68	105.371	34.449	10.491	1.00	41.94	Al6S	ATOM	20691	O6 GUA	70	111.372	33.763	18.991	1.00	51.21	Al6S
ATOM	20639	C4 GUA	68	106.716	34.553	10.757	1.00	41.94	Al6S	ATOM	20692	C5 GUA	70	111.892	31.813	17.659	1.00	51.21	Al6S
ATOM	20640	N3 GUA	68	107.690	33.775	10.238	1.00	41.94	Al6S	ATOM	20693	N7 GUA	70	110.689	31.362	17.132	1.00	51.21	Al6S
ATOM	20641	C2 GUA	68	108.883	34.096	10.710	1.00	41.94	Al6S	ATOM	20694	C8 GUA	70	111.022	30.335	16.399	1.00	51.21	Al6S
ATOM	20642	N2 GUA	68	109.975	33.420	10.313	1.00	41.94	Al6S	ATOM	20695	C2' GUA	70	113.491	27.856	16.524	1.00	62.14	Al6S
ATOM	20643	N1 GUA	68	109.100	35.101	11.610	1.00	41.94	Al6S	ATOM	20696	O2' GUA	70	114.707	27.318	16.047	1.00	62.14	Al6S
ATOM	20644	C6 GUA	68	108.116	35.912	12.152	1.00	41.94	Al6S	ATOM	20697	C3' GUA	70	112.315	26.914	16.313	1.00	62.14	Al6S
ATOM	20645	O6 GUA	68	108.428	36.783	12.958	1.00	41.94	Al6S	ATOM	20698	O3' GUA	70	112.606	25.559	16.565	1.00	62.14	Al6S
ATOM	20646	N7 GUA	68	106.832	35.582	11.661	1.00	41.94	Al6S	ATOM	20699	P	71	112.178	24.919	17.972	1.00	58.45	Al6S
ATOM	20647	N7 GUA	68	105.591	36.133	11.942	1.00	41.94	Al6S	ATOM	20700	O1P CYT	71	112.495	23.468	17.853	1.00	57.13	Al6S
ATOM	20648	C8 GUA	68	104.754	35.435	11.220	1.00	41.94	Al6S	ATOM	20701	O2P CYT	71	110.782	25.338	18.295	1.00	57.13	Al6S
ATOM	20649	C2' GUA	68	104.436	32.178	10.408	1.00	48.31	Al6S	ATOM	20702	O5' CYT	71	113.204	25.599	18.988	1.00	58.45	Al6S
ATOM	20650	O2' GUA	68	104.680	31.054	9.578	1.00	53.03	Al6S	ATOM	20703	C5' CYT	71	114.614	25.349	18.859	1.00	58.45	Al6S
ATOM	20651	C3' GUA	68	102.962	32.382	10.740	1.00	53.03	Al6S	ATOM	20704	C4' CYT	71	115.407	26.328	19.684	1.00	58.45	Al6S
ATOM	20652	O3' GUA	68	102.296	31.167	11.044	1.00	53.03	Al6S	ATOM	20705	O4' CYT	71	115.158	27.670	19.200	1.00	58.45	Al6S
ATOM	20653	P	69	102.691	30.362	12.384	1.00	50.32	Al6S	ATOM	20706	C1' CYT	71	115.166	28.586	20.285	1.00	58.45	Al6S
ATOM	20654	O1P GUA	69	101.785	29.187	12.399	1.00	48.31	Al6S	ATOM	20707	N1 CYT	71	113.827	29.201	20.389	1.00	57.13	Al6S
ATOM	20655	O2P GUA	69	102.720	31.282	13.555	1.00	48.31	Al6S	ATOM	20708	C6 CYT	71	112.751	28.672	19.728	1.00	57.13	Al6S
ATOM	20656	O5' GUA	69	104.187	29.885	12.100	1.00	50.32	Al6S	ATOM	20709	C2 CYT	71	113.670	30.334	21.191	1.00	57.13	Al6S
ATOM	20657	C5' GUA	69	105.110	29.625	13.164	1.00	50.32	Al6S	ATOM	20710	O2 CYT	71	114.665	30.798	21.774	1.00	57.13	Al6S
ATOM	20658	C4' GUA	69	106.519	29.558	12.621	1.00	50.32	Al6S	ATOM	20711	N3 CYT	71	112.445	30.893	21.312	1.00	57.13	Al6S
ATOM	20659	O4' GUA	69	106.895	30.879	12.147	1.00	50.32	Al6S	ATOM	20712	C4 CYT	71	111.405	30.366	20.669	1.00	57.13	Al6S
ATOM	20660	C1' GUA	69	108.256	31.149	12.474	1.00	50.32	Al6S	ATOM	20713	N4 CYT	71	110.221	30.947	20.820	1.00	57.13	Al6S
ATOM	20661	N9 GUA	69	108.285	32.279	13.400	1.00	48.31	Al6S	ATOM	20714	C5' CYT	71	111.535	29.218	19.840	1.00	57.13	Al6S
ATOM	20662	C4 GUA	69	109.395	32.847	13.993	1.00	48.31	Al6S	ATOM	20715	C2' CYT	71	115.512	27.800	21.548	1.00	58.45	Al6S
ATOM	20663	N3 GUA	69	110.686	32.492	13.791	1.00	48.31	Al6S	ATOM	20716	O2' CYT	71	116.895	27.896	21.831	1.00	58.45	Al6S
ATOM	20664	C2 GUA	69	111.522	33.216	14.535	1.00	48.31	Al6S	ATOM	20717	C3' CYT	71	115.059	26.399	21.159	1.00	58.45	Al6S
ATOM	20665	N2 GUA	69	112.847	33.021	14.455	1.00	48.31	Al6S	ATOM	20718	O3' CYT	71	115.667	25.383	21.936	1.00	58.45	Al6S
ATOM	20666	N1 GUA	69	111.118	34.189	15.411	1.00	48.31	Al6S	ATOM	20719	P	72	114.874	24.797	23.203	1.00	86.33	Al6S
ATOM	20667	C6 GUA	69	109.796	34.564	15.638	1.00	48.31	Al6S	ATOM	20720	O1P CYT	72	115.630	23.616	23.684	1.00	49.72	Al6S
ATOM	20668	O6 GUA	69	109.531	35.446	16.473	1.00	48.31	Al6S	ATOM	20721	O2P CYT	72	113.437	24.653	22.830	1.00	49.72	Al6S
ATOM	20669	C5 GUA	69	108.897	33.818	14.833	1.00	48.31	Al6S	ATOM	20722	O5' CYT	72	115.001	25.953	24.288	1.00	86.33	Al6S
ATOM	20670	N7 GUA	69	107.514	33.887	14.741	1.00	48.31	Al6S	ATOM	20723	C5' CYT	72	116.273	26.265	24.871	1.00	86.33	Al6S
ATOM	20671	C8 GUA	69	107.199	32.964	13.881	1.00	48.31	Al6S	ATOM	20724	C4' CYT	72	116.118	27.334	25.922	1.00	86.33	Al6S
ATOM	20672	C2' GUA	69	108.838	29.881	13.104	1.00	50.32	Al6S	ATOM	20725	O4' CYT	72	115.772	28.591	25.287	1.00	86.33	Al6S
ATOM	20673	O2' GUA	69	109.530	29.127	12.128	1.00	50.32	Al6S	ATOM	20726	C1' CYT	72	114.863	29.308	26.109	1.00	86.33	Al6S
ATOM	20674	C3' GUA	69	107.581	29.211	13.642	1.00	50.32	Al6S	ATOM	20727	N1 CYT	72	113.573	29.402	25.404	1.00	49.72	Al6S
ATOM	20675	O3' GUA	69	107.720	27.813	13.855	1.00	50.32	Al6S	ATOM	20728	C6 CYT	72	113.261	28.539	24.387	1.00	49.72	Al6S
ATOM	20676	P	70	108.078	27.257	15.326	1.00	62.14	Al6S	ATOM	20729	C2 CYT	72	112.655	30.385	25.805	1.00	49.72	Al6S
ATOM	20677	O1P GUA	70	107.810	25.799	15.282	1.00	51.21	Al6S	ATOM	20730	O2 CYT	72	112.969	31.159	26.728	1.00	49.72	Al6S
ATOM	20678	O2P GUA	70	107.426	28.093	16.373	1.00	51.21	Al6S	ATOM	20731	N3 CYT	72	111.450	30.459	25.178	1.00	49.72	Al6S
ATOM	20679	O5' GUA	70	109.651	27.456	15.447	1.00	62.14	Al6S	ATOM	20732	C4 CYT	72	111.153	29.596	24.198	1.00	49.72	Al6S
ATOM	20680	C5' GUA	70	110.536	26.806	14.530	1.00	62.14	Al6S	ATOM	20733	N4 CYT	72	109.954	29.681	23.626	1.00	49.72	Al6S
ATOM	20681	C4' GUA	70	111.959	27.140	14.863	1.00	62.14	Al6S	ATOM	20734	C5 CYT	72	112.075	28.598	23.766	1.00	49.72	Al6S
ATOM	20682	O4' GUA	70	112.202	28.554	14.657	1.00	62.14	Al6S	ATOM	20735	C2' CYT	72	114.690	28.519	27.403	1.00	86.33	Al6S
ATOM	20683	C1' GUA	70	113.080	29.043	15.656	1.00	62.14	Al6S	ATOM	20736	O2' CYT	72	115.587	29.010	28.377	1.00	86.33	Al6S
ATOM	20684	N9 GUA	70	112.376	30.082	16.403	1.00	51.21	Al6S	ATOM	20737	C3' CYT	72	115.003	27.105	26.931	1.00	86.33	Al6S
ATOM	20685	C4 GUA	70	112.942	31.021	17.234	1.00	51.21	Al6S	ATOM	20738	O3' CYT	72	115.363	26.224	27.985	1.00	86.33	Al6S
ATOM	20686	N3 GUA	70	114.256	31.121	17.543	1.00	51.21	Al6S	ATOM	20739	P	73	114.259	25.218	28.585	1.00	84.29	Al6S
ATOM	20687	C2 GUA	70	114.497	32.129	18.368	1.00	51.21	Al6S	ATOM	20740	O1P GUA	73	115.018	24.458	29.603	1.00	57.02	Al6S
ATOM	20688	N2 GUA	70	115.747	32.356	18.807	1.00	51.21	Al6S	ATOM	20741	O2P GUA	73	113.572	24.490	27.482	1.00	57.02	Al6S

Table 1 - 196/490



Table 1 - 197/490

ATOM	20742	O5' GUA	73	113.189	26.175	29.296	1.00 84.29	Al6S	ATOM	20795	N1 GUA	75	99.760	27.745	28.532	1.00 50.93	Al6:
ATOM	20743	C5' GUA	73	113.587	26.972	30.426	1.00 84.29	Al6S	ATOM	20796	C6 GUA	75	100.971	27.150	28.880	1.00 50.93	Al6:
ATOM	20744	C4' GUA	73	112.488	27.914	30.888	1.00 84.29	Al6S	ATOM	20797	O6 GUA	75	101.503	26.338	28.111	1.00 50.93	Al6:
ATOM	20745	O4' GUA	73	112.177	28.909	29.880	1.00 84.29	Al6S	ATOM	20798	C5 GUA	75	101.423	27.590	30.161	1.00 50.93	Al6:
ATOM	20746	C1' GUA	73	110.950	29.534	30.219	1.00 84.29	Al6S	ATOM	20799	N7 GUA	75	102.576	27.275	30.868	1.00 50.93	Al6:
ATOM	20747	N9 GUA	73	110.056	29.564	29.065	1.00 57.02	Al6S	ATOM	20800	C8 GUA	75	102.458	27.933	31.988	1.00 50.93	Al6:
ATOM	20748	C4 GUA	73	108.971	30.394	28.925	1.00 57.02	Al6S	ATOM	20801	C2' GUA	75	99.664	28.657	33.884	1.00 51.96	Al6:
ATOM	20749	N3 GUA	73	108.597	31.357	29.794	1.00 57.02	Al6S	ATOM	20802	O2' GUA	75	98.744	29.561	34.465	1.00 51.96	Al6:
ATOM	20750	C2 GUA	73	107.476	31.951	29.421	1.00 57.02	Al6S	ATOM	20803	C3' GUA	75	100.437	27.853	34.913	1.00 51.96	Al6:
ATOM	20751	N2 GUA	73	106.950	32.924	30.187	1.00 57.02	Al6S	ATOM	20804	O3' GUA	75	99.622	27.366	35.947	1.00 51.96	Al6:
ATOM	20752	N6 GUA	73	106.782	31.632	28.276	1.00 57.02	Al6S	ATOM	20805	P GUA	76	98.955	25.919	35.786	1.00 46.59	Al6:
ATOM	20753	O6 GUA	73	107.149	30.646	27.367	1.00 57.02	Al6S	ATOM	20806	O1P GUA	76	98.337	25.588	37.096	1.00 52.55	Al6:
ATOM	20754	C6 GUA	73	106.442	30.431	26.374	1.00 57.02	Al6S	ATOM	20807	O2P GUA	76	99.953	25.000	35.202	1.00 52.55	Al6:
ATOM	20755	C5 GUA	73	108.353	29.997	27.758	1.00 57.02	Al6S	ATOM	20808	O5' GUA	76	97.817	26.148	34.700	1.00 46.59	Al6:
ATOM	20756	N7 GUA	73	109.061	28.969	27.151	1.00 57.02	Al6S	ATOM	20809	C5' GUA	76	96.824	27.136	34.931	1.00 46.59	Al6:
ATOM	20757	C8 GUA	73	110.071	28.755	27.954	1.00 57.02	Al6S	ATOM	20810	C4' GUA	76	95.857	27.195	33.789	1.00 46.59	Al6:
ATOM	20758	C2' GUA	73	110.319	28.713	31.344	1.00 84.29	Al6S	ATOM	20811	O4' GUA	76	96.537	27.642	32.595	1.00 46.59	Al6:
ATOM	20759	O2' GUA	73	110.502	29.409	32.561	1.00 84.29	Al6S	ATOM	20812	C1' GUA	76	95.940	27.047	31.458	1.00 52.55	Al6:
ATOM	20760	C3' GUA	73	111.110	27.406	31.277	1.00 84.29	Al6S	ATOM	20813	N9 GUA	76	96.955	26.258	30.770	1.00 52.55	Al6:
ATOM	20761	O3' GUA	73	111.074	26.754	32.544	1.00 84.29	Al6S	ATOM	20814	C4 GUA	76	96.869	25.755	29.496	1.00 52.55	Al6:
ATOM	20762	P GUA	74	109.777	25.883	32.960	1.00 60.47	Al6S	ATOM	20815	N3 GUA	76	95.834	25.910	28.655	1.00 52.55	Al6:
ATOM	20763	O1P GUA	74	110.105	25.270	34.269	1.00 50.42	Al6S	ATOM	20816	C2 GUA	76	96.047	25.327	27.499	1.00 52.55	Al6:
ATOM	20764	O2P GUA	74	109.357	25.010	31.828	1.00 50.42	Al6S	ATOM	20817	N2 GUA	76	95.125	25.399	26.540	1.00 52.55	Al6:
ATOM	20765	O5' GUA	74	108.640	26.974	33.196	1.00 60.47	Al6S	ATOM	20818	N1 GUA	76	97.178	24.634	27.191	1.00 52.55	Al6:
ATOM	20766	C5' GUA	74	108.743	27.908	34.277	1.00 60.47	Al6S	ATOM	20819	C6 GUA	76	98.255	24.451	28.043	1.00 52.55	Al6:
ATOM	20767	C4' GUA	74	107.541	28.819	34.315	1.00 60.47	Al6S	ATOM	20820	O6 GUA	76	99.233	23.791	27.667	1.00 52.55	Al6:
ATOM	20768	O4' GUA	74	107.584	29.707	33.167	1.00 60.47	Al6S	ATOM	20821	C5 GUA	76	98.046	25.085	29.288	1.00 52.55	Al6:
ATOM	20769	C1' GUA	74	106.223	30.005	32.784	1.00 60.47	Al6S	ATOM	20822	N7 GUA	76	98.861	25.160	30.408	1.00 52.55	Al6:
ATOM	20770	N1 GUA	74	105.975	29.473	31.436	1.00 50.42	Al6S	ATOM	20823	C8 GUA	76	98.174	25.865	31.262	1.00 52.55	Al6:
ATOM	20771	C6 GUA	74	106.768	28.498	30.899	1.00 50.42	Al6S	ATOM	20824	C2' GUA	76	94.788	26.171	31.948	1.00 46.59	Al6:
ATOM	20772	C2 GUA	74	104.882	29.966	30.718	1.00 50.42	Al6S	ATOM	20825	O2' GUA	76	93.561	26.872	31.856	1.00 46.59	Al6:
ATOM	20773	O2 GUA	74	104.197	30.873	31.216	1.00 50.42	Al6S	ATOM	20826	C3' GUA	76	95.217	25.888	33.382	1.00 46.59	Al6:
ATOM	20774	N3 GUA	74	104.598	29.443	29.501	1.00 50.42	Al6S	ATOM	20827	O3' GUA	76	94.130	25.520	34.210	1.00 46.59	Al6:
ATOM	20775	C4 GUA	74	105.362	28.475	29.000	1.00 50.42	Al6S	ATOM	20828	P GUA	77	93.519	24.044	34.075	1.00 55.31	Al6:
ATOM	20776	N4 GUA	74	105.032	27.973	27.816	1.00 50.42	Al6S	ATOM	20829	O1P GUA	77	94.678	23.108	34.137	1.00 49.51	Al6:
ATOM	20777	C5 GUA	74	106.498	27.973	29.697	1.00 50.42	Al6S	ATOM	20830	O2P GUA	77	92.390	23.893	35.032	1.00 49.51	Al6:
ATOM	20778	O2' GUA	74	105.295	29.303	33.770	1.00 60.47	Al6S	ATOM	20831	O5' GUA	77	92.924	24.052	32.599	1.00 55.31	Al6:
ATOM	20779	C2' GUA	74	104.944	30.193	34.809	1.00 60.47	Al6S	ATOM	20832	C5' GUA	77	92.702	22.845	31.874	1.00 55.31	Al6:
ATOM	20780	C3' GUA	74	106.175	28.159	34.244	1.00 60.47	Al6S	ATOM	20833	C4' GUA	77	92.371	23.180	30.446	1.00 55.31	Al6:
ATOM	20781	O3' GUA	74	105.716	27.606	35.466	1.00 60.47	Al6S	ATOM	20834	O4' GUA	77	93.546	23.706	29.780	1.00 55.31	Al6:
ATOM	20782	P GUA	75	104.601	26.448	35.427	1.00 51.96	Al6S	ATOM	20835	C1' GUA	77	93.561	23.277	28.426	1.00 55.31	Al6:
ATOM	20783	O1P GUA	75	104.470	25.890	36.800	1.00 50.93	Al6S	ATOM	20836	N9 GUA	77	94.760	22.467	28.212	1.00 49.51	Al6:
ATOM	20784	O2P GUA	75	104.895	25.534	34.285	1.00 50.93	Al6S	ATOM	20837	C4 GUA	77	95.081	21.764	27.068	1.00 49.51	Al6:
ATOM	20785	O5' GUA	75	103.262	27.228	35.072	1.00 51.96	Al6S	ATOM	20838	N3 GUA	77	94.342	21.700	25.935	1.00 49.51	Al6:
ATOM	20786	C5' GUA	75	102.744	28.226	35.954	1.00 51.96	Al6S	ATOM	20839	C2 GUA	77	94.913	20.937	25.017	1.00 49.51	Al6:
ATOM	20787	O4' GUA	75	101.498	28.837	35.369	1.00 51.96	Al6S	ATOM	20840	N2 GUA	77	94.328	20.762	23.823	1.00 49.51	Al6:
ATOM	20788	C4' GUA	75	101.843	29.557	34.158	1.00 51.96	Al6S	ATOM	20841	N1 GUA	77	96.103	20.291	25.197	1.00 49.51	Al6:
ATOM	20789	C1' GUA	75	100.795	29.425	33.206	1.00 51.96	Al6S	ATOM	20842	C6 GUA	77	96.880	20.348	26.345	1.00 49.51	Al6:
ATOM	20790	N9 GUA	75	101.289	28.653	32.069	1.00 50.93	Al6S	ATOM	20843	O6 GUA	77	97.945	19.727	26.394	1.00 49.51	Al6:
ATOM	20791	C4 GUA	75	100.634	28.464	30.878	1.00 50.93	Al6S	ATOM	20844	C5 GUA	77	96.287	21.161	27.338	1.00 49.51	Al6:
ATOM	20792	N3 GUA	75	99.452	29.017	30.526	1.00 50.93	Al6S	ATOM	20845	N7 GUA	77	96.723	21.479	28.616	1.00 49.51	Al6:
ATOM	20793	C2 GUA	75	99.062	28.632	29.320	1.00 50.93	Al6S	ATOM	20846	C8 GUA	77	95.789	22.252	29.096	1.00 49.51	Al6:
ATOM	20794	N2 GUA	75	97.930	29.121	28.799	1.00 50.93	Al6S	ATOM	20847	C2' GUA	77	92.275	22.488	28.179	1.00 55.31	Al6:

ATOM	20848	O2' GUA	77	91.288	23.345	27.627	1.00 55.31	Al6S	ATOM	20901	C1' URI	80	92.471	8.786	34.337	1.00 87.69	Al6:
ATOM	20849	C3' GUA	77	91.953	22.008	29.587	1.00 55.31	Al6S	ATOM	20902	N1 URI	80	92.435	7.825	33.216	1.00 82.59	Al6:
ATOM	20850	GUA	77	90.596	21.715	29.785	1.00 55.31	Al6S	ATOM	20903	C6 URI	80	91.621	8.031	32.122	1.00 82.59	Al6:
ATOM	20851	P GUA	78	90.175	20.228	30.167	1.00 63.32	Al6S	ATOM	20904	C2 URI	80	93.260	6.702	33.280	1.00 82.59	Al6:
ATOM	20852	O1P GUA	78	88.750	20.327	30.560	1.00 60.75	Al6S	ATOM	20905	O2 URI	80	93.982	6.455	34.232	1.00 82.59	Al6:
ATOM	20853	O2P GUA	78	91.161	19.652	31.114	1.00 60.75	Al6S	ATOM	20906	N3 URI	80	93.201	5.877	32.182	1.00 82.59	Al6:
ATOM	20854	O5' GUA	78	90.301	19.437	28.792	1.00 63.32	Al6S	ATOM	20907	C4 URI	80	92.422	6.043	31.057	1.00 82.59	Al6:
ATOM	20855	C5' GUA	78	89.353	19.665	27.746	1.00 63.32	Al6S	ATOM	20908	O4 URI	80	92.513	5.238	30.133	1.00 82.59	Al6:
ATOM	20856	C4' GUA	78	89.742	18.917	26.498	1.00 63.32	Al6S	ATOM	20909	C5 URI	80	91.589	7.202	31.073	1.00 82.59	Al6:
ATOM	20857	O4' GUA	78	90.991	19.447	25.973	1.00 63.32	Al6S	ATOM	20910	C2' URI	80	93.832	9.469	34.514	1.00 87.69	Al6
ATOM	20858	GUA	78	91.700	18.420	25.302	1.00 63.32	Al6S	ATOM	20911	O2' URI	80	94.126	9.623	35.885	1.00 87.69	Al6
ATOM	20859	N9 GUA	78	92.988	18.233	25.964	1.00 60.75	Al6S	ATOM	20912	C3' URI	80	93.611	10.806	33.819	1.00 87.69	Al6
ATOM	20860	C4 GUA	78	94.040	17.463	25.513	1.00 60.75	Al6S	ATOM	20913	O3' URI	80	94.475	11.811	34.320	1.00 87.69	Al6
ATOM	20861	N3 GUA	78	94.069	16.753	24.366	1.00 60.75	Al6S	ATOM	20914	P URI	81	95.803	12.176	33.501	1.00 95.40	Al6
ATOM	20862	C2 GUA	78	95.213	16.101	24.214	1.00 60.75	Al6S	ATOM	20915	O1P URI	81	96.574	13.200	34.257	1.00 67.74	Al6
ATOM	20863	N2 GUA	78	95.409	15.347	23.122	1.00 60.75	Al6S	ATOM	20916	O2P URI	81	95.403	12.445	32.098	1.00 67.74	Al6:
ATOM	20864	N1 GUA	78	96.246	16.140	25.119	1.00 60.75	Al6S	ATOM	20917	O5' URI	81	96.630	10.821	33.510	1.00 95.40	Al6:
ATOM	20865	C6 GUA	78	96.240	16.861	26.308	1.00 60.75	Al6S	ATOM	20918	C5' URI	81	97.299	10.388	34.691	1.00 95.40	Al6:
ATOM	20866	O6 GUA	78	97.227	16.821	27.060	1.00 60.75	Al6S	ATOM	20919	C4' URI	81	98.149	9.191	34.382	1.00 95.40	Al6:
ATOM	20867	C5 GUA	78	95.016	17.572	26.481	1.00 60.75	Al6S	ATOM	20920	O4' URI	81	97.293	8.077	34.027	1.00 95.40	Al6:
ATOM	20868	N7 GUA	78	94.596	18.401	27.511	1.00 60.75	Al6S	ATOM	20921	C1' URI	81	97.919	7.290	33.031	1.00 95.40	Al6:
ATOM	20869	C8 GUA	78	93.392	18.771	27.161	1.00 60.75	Al6S	ATOM	20922	N1 URI	81	97.062	7.267	31.836	1.00 67.74	Al6
ATOM	20870	C2' GUA	78	90.838	17.160	25.365	1.00 63.32	Al6S	ATOM	20923	C6 URI	81	95.987	8.114	31.693	1.00 67.74	Al6
ATOM	20871	O2' GUA	78	90.082	17.103	24.171	1.00 63.32	Al6S	ATOM	20924	C2 URI	81	97.381	6.356	30.853	1.00 67.74	Al6
ATOM	20872	C3' GUA	78	88.778	17.421	26.614	1.00 63.32	Al6S	ATOM	20925	O2 URI	81	98.337	5.588	30.945	1.00 67.74	Al6
ATOM	20873	O3' GUA	78	88.809	16.554	26.690	1.00 63.32	Al6S	ATOM	20926	N3 URI	81	96.551	6.374	29.759	1.00 67.74	Al6
ATOM	20874	P URI	79	88.809	15.120	27.196	1.00141.74	Al6S	ATOM	20927	C4 URI	81	95.465	7.193	29.553	1.00 67.74	Al6
ATOM	20875	O1P URI	79	89.302	14.300	26.067	1.00149.26	Al6S	ATOM	20928	O4 URI	81	94.835	7.106	28.499	1.00 67.74	Al6:
ATOM	20876	O2P URI	79	87.473	14.846	27.765	1.00149.26	Al6S	ATOM	20929	C5 URI	81	95.200	8.107	30.615	1.00 67.74	Al6:
ATOM	20877	O5' URI	79	89.858	15.025	28.400	1.00141.74	Al6S	ATOM	20930	C2' URI	81	99.287	7.906	32.745	1.00 95.40	Al6:
ATOM	20878	C5' URI	79	91.272	15.318	28.221	1.00141.74	Al6S	ATOM	20931	O2' URI	81	100.259	7.220	33.509	1.00 95.40	Al6:
ATOM	20879	C4' URI	79	92.102	14.043	28.096	1.00141.74	Al6S	ATOM	20932	C3' URI	81	99.066	9.348	33.184	1.00 95.40	Al6:
ATOM	20880	O4' URI	79	93.478	14.428	27.815	1.00141.74	Al6S	ATOM	20933	O3' URI	81	100.261	10.045	33.502	1.00 95.40	Al6:
ATOM	20881	C1' URI	79	94.373	13.514	28.430	1.00141.74	Al6S	ATOM	20934	P URI	82	100.801	11.173	32.492	1.00 95.16	Al6:
ATOM	20882	N1 URI	79	95.288	14.261	29.312	1.00149.26	Al6S	ATOM	20935	O1P URI	82	101.959	11.843	33.140	1.00 53.24	Al6:
ATOM	20883	C6 URI	79	94.811	15.196	30.212	1.00149.26	Al6S	ATOM	20936	O2P URI	82	99.624	11.984	32.065	1.00 53.24	Al6:
ATOM	20884	C2 URI	79	96.656	13.997	29.215	1.00149.26	Al6S	ATOM	20937	O5' URI	82	101.337	10.331	31.246	1.00 95.16	Al6:
ATOM	20885	O2 URI	79	97.133	13.181	28.434	1.00149.26	Al6S	ATOM	20938	C5' URI	82	102.405	9.378	31.417	1.00 95.16	Al6:
ATOM	20886	N3 URI	79	97.444	14.726	30.073	1.00149.26	Al6S	ATOM	20939	C4' URI	82	102.498	8.445	30.231	1.00 95.16	Al6:
ATOM	20887	C4 URI	79	97.026	15.669	30.996	1.00149.26	Al6S	ATOM	20940	O4' URI	82	101.269	7.680	30.101	1.00 95.16	Al6:
ATOM	20888	O4 URI	79	97.860	16.226	31.712	1.00149.26	Al6S	ATOM	20941	C1' URI	82	101.035	7.383	28.734	1.00 95.16	Al6:
ATOM	20889	C5 URI	79	95.610	15.886	31.031	1.00149.26	Al6S	ATOM	20942	N1 URI	82	99.770	8.003	28.301	1.00 53.24	Al6:
ATOM	20890	C2' URI	79	93.548	12.439	29.146	1.00141.74	Al6S	ATOM	20943	C6 URI	82	99.080	8.906	29.085	1.00 53.24	Al6:
ATOM	20891	O2' URI	79	93.490	11.265	28.354	1.00141.74	Al6S	ATOM	20944	C2 URI	82	99.290	7.643	27.044	1.00 53.24	Al6:
ATOM	20892	C3' URI	79	92.196	13.132	29.321	1.00141.74	Al6S	ATOM	20945	O2 URI	82	99.869	6.850	26.315	1.00 53.24	Al6:
ATOM	20893	O3' URI	79	91.155	12.156	29.340	1.00141.74	Al6S	ATOM	20946	N3 URI	82	98.112	8.243	26.674	1.00 53.24	Al6:
ATOM	20894	P URI	80	90.434	11.776	30.727	1.00 87.69	Al6S	ATOM	20947	C4 URI	82	97.371	9.145	27.405	1.00 53.24	Al6:
ATOM	20895	O1P URI	80	89.792	10.444	30.533	1.00 82.59	Al6S	ATOM	20948	O4 URI	82	96.292	9.555	26.947	1.00 53.24	Al6:
ATOM	20896	O2P URI	80	89.592	12.947	31.123	1.00 82.59	Al6S	ATOM	20949	C5 URI	82	97.932	9.476	28.691	1.00 53.24	Al6:
ATOM	20897	O5' URI	80	91.622	11.604	31.784	1.00 87.69	Al6S	ATOM	20950	C2' URI	82	102.202	7.956	27.938	1.00 95.16	Al6:
ATOM	20898	C5' URI	80	91.465	12.052	33.150	1.00 87.69	Al6S	ATOM	20951	O2' URI	82	103.163	6.939	27.729	1.00 95.16	Al6:
ATOM	20899	C4' URI	80	92.155	11.107	34.111	1.00 87.69	Al6S	ATOM	20952	C3' URI	82	102.672	9.073	28.859	1.00 95.16	Al6:
ATOM	20900	O4' URI	80	91.507	9.806	34.104	1.00 87.69	Al6S	ATOM	20953	O3' URI	82	103.996	9.504	28.575	1.00 95.16	Al6:

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ATOM	20954	P	ADE	83	104.221	10.926	27.846	1.00	98.91	Al6S	ATOM	21007	O2	URI	85	97.181	18.647	23.425	1.00	57.52	Al6
ATOM	20955	O1P ADE	83	105.664	11.276	27.975	1.00	56.43	Al6S	Al6S	ATOM	21008	N3	URI	85	99.227	18.548	24.405	1.00	57.52	Al6
ATOM	20956	O2P ADE	83	103.179	11.878	28.350	1.00	56.43	Al6S	Al6S	ATOM	21009	C4	URI	85	100.580	18.322	24.424	1.00	57.52	Al6
ATOM	20957	O5' ADE	83	103.889	10.647	26.309	1.00	98.91	Al6S	Al6S	ATOM	21010	O4	URI	85	101.190	18.413	25.489	1.00	57.52	Al6
ATOM	20958	C5' ADE	83	104.661	9.711	25.536	1.00	98.91	Al6S	Al6S	ATOM	21011	C5	URI	85	101.133	17.926	23.167	1.00	57.52	Al6
ATOM	20959	C4' ADE	83	103.962	9.414	24.230	1.00	98.91	Al6S	Al6S	ATOM	21012	C2' URI	85	97.916	19.261	20.263	1.00	57.66	Al6	
ATOM	20960	O4' ADE	83	102.672	8.815	24.508	1.00	98.91	Al6S	Al6S	ATOM	21013	O2' URI	85	96.628	19.316	19.673	1.00	57.66	Al6	
ATOM	20961	C1' ADE	83	101.715	9.256	23.559	1.00	98.91	Al6S	Al6S	ATOM	21014	C3' URI	85	99.003	19.222	19.203	1.00	57.66	Al6	
ATOM	20962	N9 ADE	83	100.678	10.004	24.273	1.00	56.43	Al6S	Al6S	ATOM	21015	O3' URI	85	98.692	20.098	18.139	1.00	57.66	Al6	
ATOM	20963	C4' ADE	83	99.416	10.303	23.818	1.00	56.43	Al6S	Al6S	ATOM	21016	P	CYT	86	99.120	21.643	18.234	1.00	46.49	Al6
ATOM	20964	N6 ADE	83	98.865	9.946	22.643	1.00	56.43	Al6S	Al6S	ATOM	21017	O1P	CYT	86	99.072	22.169	16.841	1.00	36.95	Al6
ATOM	20965	C2' ADE	83	97.632	10.438	22.539	1.00	56.43	Al6S	Al6S	ATOM	21018	O2P	CYT	86	100.367	21.777	19.042	1.00	36.95	Al6
ATOM	20966	N1 ADE	83	96.942	11.196	23.412	1.00	56.43	Al6S	Al6S	ATOM	21019	O5' CYT	86	97.921	22.319	19.025	1.00	46.49	Al6	
ATOM	20967	C6 ADE	83	97.533	11.536	24.583	1.00	56.43	Al6S	Al6S	ATOM	21020	C5' CYT	86	96.638	22.471	18.405	1.00	46.49	Al6	
ATOM	20968	N6 ADE	83	96.860	12.296	25.456	1.00	56.43	Al6S	Al6S	ATOM	21021	C4' CYT	86	95.693	23.196	19.328	1.00	46.49	Al6	
ATOM	20969	C5 ADE	83	98.829	11.071	24.815	1.00	56.43	Al6S	Al6S	ATOM	21022	O4' CYT	86	95.477	22.412	20.533	1.00	46.49	Al6	
ATOM	20970	N7 ADE	83	99.693	11.234	25.887	1.00	56.43	Al6S	Al6S	ATOM	21023	C1' CYT	86	95.323	23.277	21.639	1.00	46.49	Al6	
ATOM	20971	C8 ADE	83	100.770	10.582	25.522	1.00	56.43	Al6S	Al6S	ATOM	21024	N1	CYT	86	96.438	23.060	22.560	1.00	36.95	Al6
ATOM	20972	C2' ADE	83	102.451	10.127	22.541	1.00	98.91	Al6S	Al6S	ATOM	21025	C6	CYT	86	97.578	22.427	22.154	1.00	36.95	Al6
ATOM	20973	O2' ADE	83	102.818	9.330	21.430	1.00	98.91	Al6S	Al6S	ATOM	21026	C2	CYT	86	96.321	23.533	23.872	1.00	36.95	Al6
ATOM	20974	C3' ADE	83	103.642	10.616	23.358	1.00	98.91	Al6S	Al6S	ATOM	21027	O2	CYT	86	95.263	24.087	24.222	1.00	36.95	Al6
ATOM	20975	O3' ADE	83	104.748	10.977	22.541	1.00	98.91	Al6S	Al6S	ATOM	21028	N3	CYT	86	97.358	23.375	24.728	1.00	36.95	Al6
ATOM	20976	P	CYT	84	105.032	12.527	22.229	1.00	56.45	Al6S	Al6S	21029	C4	CYT	86	98.470	22.763	24.318	1.00	36.95	Al6
ATOM	20977	O1P	CYT	84	106.160	12.587	21.266	1.00	68.40	Al6S	Al6S	21030	N4	CYT	86	99.466	22.630	25.198	1.00	36.95	Al6
ATOM	20978	O2P	CYT	84	105.134	13.257	23.525	1.00	68.40	Al6S	Al6S	21031	C5	CYT	86	98.610	22.258	22.988	1.00	36.95	Al6
ATOM	20979	O5' CYT	84	103.720	13.001	21.463	1.00	56.45	Al6S	Al6S	21032	C2' CYT	86	95.352	24.706	22.111	1.00	46.49	Al6		
ATOM	20980	C5' CYT	84	103.389	12.441	20.186	1.00	56.45	Al6S	Al6S	21033	O2' CYT	86	94.024	25.105	20.842	1.00	46.49	Al6		
ATOM	20981	C4' CYT	84	101.992	12.831	19.781	1.00	56.45	Al6S	Al6S	21034	C3' CYT	86	96.171	24.542	19.841	1.00	46.49	Al6		
ATOM	20982	O4' CYT	84	101.038	12.277	20.723	1.00	56.45	Al6S	Al6S	21035	O3' CYT	86	95.932	25.582	18.911	1.00	46.49	Al6		
ATOM	20983	C1' CYT	84	99.948	13.172	20.881	1.00	56.45	Al6S	Al6S	21036	P	CYT	87	96.791	26.934	19.004	1.00	54.73	Al6	
ATOM	20984	N1	CYT	84	99.939	13.666	22.269	1.00	68.40	Al6S	Al6S	21037	O1P	CYT	87	96.383	27.825	17.877	1.00	47.10	Al6
ATOM	20985	C6	CYT	84	101.014	13.483	23.036	1.00	68.40	Al6S	Al6S	21038	O2P	CYT	87	98.205	26.528	19.154	1.00	47.10	Al6
ATOM	20986	C2	CYT	84	98.806	14.356	22.725	1.00	68.40	Al6S	Al6S	21039	O5' CYT	87	96.343	27.599	20.378	1.00	54.73	Al6	
ATOM	20987	O2	CYT	84	97.830	14.485	21.962	1.00	68.40	Al6S	Al6S	21040	C5' CYT	87	94.996	28.049	20.558	1.00	54.73	Al6	
ATOM	20988	N3	CYT	84	98.803	14.861	23.980	1.00	68.40	Al6S	Al6S	21041	C4' CYT	87	94.845	28.722	21.891	1.00	54.73	Al6	
ATOM	20989	C4	CYT	84	99.864	14.689	24.771	1.00	68.40	Al6S	Al6S	21042	O4' CYT	87	94.981	27.755	22.963	1.00	54.73	Al6	
ATOM	20990	N4	CYT	84	99.819	15.215	25.999	1.00	68.40	Al6S	Al6S	21043	C1' CYT	87	95.595	28.374	24.076	1.00	54.73	Al6	
ATOM	20991	C5	CYT	84	101.018	13.973	24.340	1.00	68.40	Al6S	Al6S	21044	N1	CYT	87	96.871	27.702	24.327	1.00	47.10	Al6
ATOM	20992	C2' CYT	84	100.168	14.336	19.918	1.00	56.45	Al6S	Al6S	21045	C6	CYT	87	97.427	26.888	23.382	1.00	47.10	Al6	
ATOM	20993	O2' CYT	84	99.450	14.096	18.720	1.00	56.45	Al6S	Al6S	21046	C2	CYT	87	97.519	27.905	25.558	1.00	47.10	Al6	
ATOM	20994	C3' CYT	84	101.687	14.318	19.772	1.00	56.45	Al6S	Al6S	21047	O2	CYT	87	97.007	28.662	26.394	1.00	47.10	Al6	
ATOM	20995	O3' CYT	84	102.154	14.967	18.599	1.00	56.45	Al6S	Al6S	21048	N3	CYT	87	98.688	27.274	25.798	1.00	47.10	Al6	
ATOM	20996	P	URI	85	102.675	16.486	18.687	1.00	57.66	Al6S	Al6S	21049	C4	CYT	87	99.213	26.472	24.872	1.00	47.10	Al6
ATOM	20997	O1P	URI	85	103.150	16.846	17.322	1.00	57.52	Al6S	Al6S	21050	N4	CYT	87	100.357	25.859	25.156	1.00	47.10	Al6
ATOM	20998	O2P	URI	85	103.594	16.621	19.860	1.00	57.52	Al6S	Al6S	21051	C5	CYT	87	98.585	26.260	23.611	1.00	47.10	Al6
ATOM	20999	O5' URI	85	101.355	17.323	18.988	1.00	57.66	Al6S	Al6S	21052	C2' CYT	87	95.820	29.842	23.721	1.00	54.73	Al6		
ATOM	21000	C5' URI	85	100.222	17.217	18.118	1.00	57.66	Al6S	Al6S	21053	O2' CYT	87	94.717	30.620	24.145	1.00	54.73	Al6		
ATOM	21001	C4' URI	85	98.985	17.761	18.786	1.00	57.66	Al6S	Al6S	21054	C3' CYT	87	95.883	29.779	22.208	1.00	54.73	Al6		
ATOM	21002	O4' URI	85	98.746	17.047	20.027	1.00	57.66	Al6S	Al6S	21055	O3' CYT	87	95.576	31.029	21.627	1.00	54.73	Al6		
ATOM	21003	C1' URI	85	98.123	17.914	20.959	1.00	57.66	Al6S	Al6S	21056	P	GUA	88	96.718	32.158	21.536	1.00	47.71	Al6	
ATOM	21004	N1	URI	85	98.983	18.040	22.149	1.00	57.52	Al6S	Al6S	21057	O1P	GUA	88	96.038	33.303	20.869	1.00	51.36	Al6
ATOM	21005	C6	URI	85	100.337	17.798	22.100	1.00	57.52	Al6S	Al6S	21058	O2P	GUA	88	97.974	31.612	20.961	1.00	51.36	Al6
ATOM	21006	C2	URI	85	98.379	18.427	23.332	1.00	57.52	Al6S	Al6S	21059	O5' GUA	88	97.020	32.522	23.056	1.00	47.71	Al6	

ATOM	21060	C5' GUA	88	96.030	33.194	23.828	1.00	47.71	Al6S	ATOM	21113	C6	GUA	90	109.140	32.813	25.847	1.00	60.56	Al6
ATOM	21061	C4' GUA	88	96.534	33.453	25.209	1.00	47.71	Al6S	ATOM	21114	O6	GUA	90	108.940	32.131	24.837	1.00	60.56	Al6
ATOM	21062	C4' GUA	88	96.789	32.192	25.866	1.00	47.71	Al6S	ATOM	21115	C5	GUA	90	108.329	33.848	26.403	1.00	60.56	Al6
ATOM	21063	C1' GUA	88	97.861	32.343	26.772	1.00	47.71	Al6S	ATOM	21116	N7	GUA	90	107.119	34.383	25.972	1.00	60.56	Al6
ATOM	21064	N9	88	98.917	31.416	26.393	1.00	51.36	Al6S	ATOM	21117	C8	GUA	90	106.834	35.297	26.864	1.00	60.56	Al6
ATOM	21065	C4	88	100.039	31.116	27.130	1.00	51.36	Al6S	ATOM	21118	C2' GUA	90	108.835	37.407	28.762	1.00	70.49	Al6	
ATOM	21066	N3	88	100.349	31.616	28.345	1.00	51.36	Al6S	ATOM	21119	O2' GUA	90	109.483	37.707	29.982	1.00	70.49	Al6	
ATOM	21067	C2	88	101.508	31.158	28.784	1.00	51.36	Al6S	ATOM	21120	C3' GUA	90	107.934	38.526	28.262	1.00	70.49	Al6	
ATOM	21068	N2	88	101.971	31.556	29.962	1.00	51.36	Al6S	ATOM	21121	O3' GUA	90	108.540	39.798	28.383	1.00	70.49	Al6	
ATOM	21069	N1' GUA	88	102.300	30.276	28.094	1.00	51.36	Al6S	ATOM	21122	P	GUA	91	109.293	40.430	27.108	1.00	76.84	Al6
ATOM	21070	O6	88	102.002	29.747	26.843	1.00	51.36	Al6S	ATOM	21123	O1P GUA	91	109.614	41.833	27.485	1.00	52.63	Al6	
ATOM	21071	O6	88	102.789	28.963	26.300	1.00	51.36	Al6S	ATOM	21124	O2P GUA	91	108.494	40.161	25.883	1.00	52.63	Al6	
ATOM	21072	C5	88	100.759	30.232	26.355	1.00	51.36	Al6S	ATOM	21125	O5' GUA	91	110.635	39.578	26.982	1.00	76.84	Al6	
ATOM	21073	N7	88	100.096	29.968	25.164	1.00	51.36	Al6S	ATOM	21126	C5' GUA	91	111.571	39.528	28.068	1.00	76.84	Al6	
ATOM	21074	C8	88	99.009	30.691	25.232	1.00	51.36	Al6S	ATOM	21127	C4' GUA	91	112.652	38.509	27.798	1.00	76.84	Al6	
ATOM	21075	C2' GUA	88	98.333	33.795	26.693	1.00	47.71	Al6S	ATOM	21128	O4' GUA	91	112.084	37.173	27.768	1.00	76.84	Al6	
ATOM	21076	O2' GUA	88	97.715	34.553	27.715	1.00	47.71	Al6S	ATOM	21129	C1' GUA	91	112.856	36.348	26.912	1.00	76.84	Al6	
ATOM	21077	C3' GUA	88	97.848	34.200	25.311	1.00	47.71	Al6S	ATOM	21130	N9	GUA	91	112.012	35.828	25.837	1.00	52.63	Al6
ATOM	21078	O3' GUA	88	97.676	35.603	25.200	1.00	47.71	Al6S	ATOM	21131	C4	GUA	91	112.345	34.792	24.999	1.00	52.63	Al6
ATOM	21079	P	89	98.849	36.494	24.566	1.00	61.77	Al6S	ATOM	21132	N3	GUA	91	113.478	34.061	25.062	1.00	52.63	Al6
ATOM	21080	O1P URI	89	98.325	37.876	24.554	1.00	62.31	Al6S	ATOM	21133	C2	GUA	91	113.543	33.170	24.090	1.00	52.63	Al6
ATOM	21081	O2P URI	89	99.315	35.886	23.301	1.00	62.31	Al6S	ATOM	21134	N2	GUA	91	114.616	32.367	23.995	1.00	52.63	Al6
ATOM	21082	O5' URI	89	100.032	36.390	25.635	1.00	61.77	Al6S	ATOM	21135	N1	GUA	91	112.567	33.004	23.135	1.00	52.63	Al6
ATOM	21083	C5' URI	89	99.843	36.857	26.990	1.00	61.77	Al6S	ATOM	21136	C6	GUA	91	111.396	33.749	23.048	1.00	52.63	Al6
ATOM	21084	C4' URI	89	101.020	36.480	27.867	1.00	61.77	Al6S	ATOM	21137	O6	GUA	91	110.600	33.536	22.130	1.00	52.63	Al6
ATOM	21085	O1' URI	89	101.092	35.039	28.011	1.00	61.77	Al6S	ATOM	21138	C5	GUA	91	111.310	34.707	24.089	1.00	52.63	Al6
ATOM	21086	C1' URI	89	102.451	34.627	28.078	1.00	61.77	Al6S	ATOM	21139	N7	GUA	91	110.325	35.644	24.371	1.00	52.63	Al6
ATOM	21087	N1	89	102.737	33.771	26.915	1.00	62.31	Al6S	ATOM	21140	C8	GUA	91	110.778	36.280	25.421	1.00	52.63	Al6
ATOM	21088	C6	89	101.909	33.763	25.813	1.00	62.31	Al6S	ATOM	21141	C2' GUA	91	113.978	37.212	26.336	1.00	76.84	Al6	
ATOM	21089	O2	89	103.873	32.971	26.957	1.00	62.31	Al6S	ATOM	21142	O2' GUA	91	115.148	37.036	27.106	1.00	76.84	Al6	
ATOM	21090	O2	89	104.637	32.946	27.911	1.00	62.31	Al6S	ATOM	21143	C3' GUA	91	113.395	38.611	26.478	1.00	76.84	Al6	
ATOM	21091	N3	89	104.076	32.202	25.839	1.00	62.31	Al6S	ATOM	21144	O3' GUA	91	114.395	39.625	26.463	1.00	76.84	Al6	
ATOM	21092	C4	89	103.278	32.145	24.710	1.00	62.31	Al6S	ATOM	21145	P	URI	92	114.611	40.505	25.128	1.00	75.24	Al6
ATOM	21093	O4	89	103.563	31.359	23.803	1.00	62.31	Al6S	ATOM	21146	O1P URI	92	115.481	41.649	25.507	1.00	40.56	Al6	
ATOM	21094	C5	89	102.136	33.000	24.743	1.00	62.31	Al6S	ATOM	21147	O2P URI	92	113.295	40.767	24.468	1.00	40.56	Al6	
ATOM	21095	C2' URI	89	103.318	35.882	28.065	1.00	61.77	Al6S	ATOM	21148	O5' URI	92	115.447	39.541	24.179	1.00	75.24	Al6	
ATOM	21096	O2' URI	89	103.683	36.227	29.391	1.00	61.77	Al6S	ATOM	21149	C5' URI	92	116.708	39.020	24.606	1.00	75.24	Al6	
ATOM	21097	C3' URI	89	102.395	36.873	27.356	1.00	61.77	Al6S	ATOM	21150	C4' URI	92	117.059	37.788	23.813	1.00	75.24	Al6	
ATOM	21098	O3' URI	89	102.719	38.236	27.601	1.00	61.77	Al6S	ATOM	21151	O4' URI	92	116.017	36.786	23.986	1.00	75.24	Al6	
ATOM	21099	P	90	103.764	38.982	26.632	1.00	70.49	Al6S	ATOM	21152	C1' URI	92	115.898	36.006	22.804	1.00	75.24	Al6	
ATOM	21100	O1P GUA	90	103.486	40.430	26.774	1.00	60.56	Al6S	ATOM	21153	N1	URI	92	114.542	36.152	22.242	1.00	40.56	Al6
ATOM	21101	O2P GUA	90	103.733	38.353	25.281	1.00	60.56	Al6S	ATOM	21154	C6	URI	92	113.645	37.086	22.705	1.00	40.56	Al6
ATOM	21102	O5' GUA	90	105.175	38.645	27.284	1.00	70.49	Al6S	ATOM	21155	C2	URI	92	114.199	35.302	21.189	1.00	40.56	Al6
ATOM	21103	C5' GUA	90	105.422	38.974	28.650	1.00	70.49	Al6S	ATOM	21156	O2	URI	92	114.960	34.452	20.744	1.00	40.56	Al6
ATOM	21104	C4' GUA	90	106.701	38.342	29.125	1.00	70.49	Al6S	ATOM	21157	N3	URI	92	112.942	35.483	20.669	1.00	40.56	Al6
ATOM	21105	O4' GUA	90	106.555	36.900	29.190	1.00	70.49	Al6S	ATOM	21158	C4	URI	92	112.006	36.402	21.070	1.00	40.56	Al6
ATOM	21106	C1' GUA	90	107.823	36.294	29.005	1.00	70.49	Al6S	ATOM	21159	O4	URI	92	110.917	36.452	20.478	1.00	40.56	Al6
ATOM	21107	N9	90	107.785	35.395	27.855	1.00	60.56	Al6S	ATOM	21160	C5	URI	92	112.423	37.241	22.169	1.00	40.56	Al6
ATOM	21108	C4	90	108.751	34.464	27.561	1.00	60.56	Al6S	ATOM	21161	C2' URI	92	116.941	36.524	21.820	1.00	75.24	Al6	
ATOM	21109	N3	90	109.869	34.236	28.285	1.00	60.56	Al6S	ATOM	21162	O2' URI	92	118.126	35.755	21.916	1.00	75.24	Al6	
ATOM	21110	C2	90	110.613	33.283	27.758	1.00	60.56	Al6S	ATOM	21163	O3' URI	92	117.121	37.952	22.307	1.00	75.24	Al6	
ATOM	21111	N2	90	111.760	32.936	28.354	1.00	60.56	Al6S	ATOM	21164	O3' URI	92	118.305	38.542	21.817	1.00	75.24	Al6	
ATOM	21112	N1	90	110.286	32.601	26.608	1.00	60.56	Al6S	ATOM	21165	P	CYT	93	118.259	39.300	20.399	1.00	68.58	Al6

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ATOM	21166	O1P	CYT	93	119.588	39.939	20.200	1.00	52.16	Al6S	ATOM	21219	N2	GUA	95	108.520	36.425	8.305	1.00	41.07	Al6S
ATOM	21167	O2P	CYT	93	117.022	40.125	20.365	1.00	52.16	Al6S	ATOM	21220	N1	GUA	95	109.425	37.937	9.784	1.00	41.07	Al6S
ATOM	21168	O5P	CYT	93	118.081	38.131	19.330	1.00	68.58	Al6S	ATOM	21221	C6	GUA	95	110.437	38.596	10.475	1.00	41.07	Al6S
ATOM	21169	C5'	CYT	93	119.067	37.094	19.215	1.00	68.58	Al6S	ATOM	21222	C5	GUA	95	110.152	39.490	11.283	1.00	41.07	Al6S
ATOM	21170	C4'	CYT	93	118.778	36.215	18.030	1.00	68.58	Al6S	ATOM	21223	O6	GUA	95	111.713	38.100	10.126	1.00	41.07	Al6S
ATOM	21171	O4'	CYT	93	117.640	35.361	18.298	1.00	68.58	Al6S	ATOM	21224	N7	GUA	95	112.973	38.472	10.570	1.00	41.07	Al6S
ATOM	21172	C1'	CYT	93	116.932	35.127	17.090	1.00	68.58	Al6S	ATOM	21225	C8	GUA	95	113.787	37.671	9.942	1.00	41.07	Al6S
ATOM	21173	N1	CYT	93	115.563	35.651	17.232	1.00	52.16	Al6S	ATOM	21226	C2'	GUA	95	113.535	36.018	6.800	1.00	54.79	Al6S
ATOM	21174	C6	CYT	93	115.276	36.626	18.143	1.00	52.16	Al6S	ATOM	21227	O2'	GUA	95	113.346	34.805	6.114	1.00	54.79	Al6S
ATOM	21175	C2	CYT	93	114.548	35.135	16.406	1.00	52.16	Al6S	ATOM	21228	C3'	GUA	95	114.845	36.701	6.450	1.00	54.79	Al6S
ATOM	21176	O6P	CYT	93	114.831	34.250	15.569	1.00	52.16	Al6S	ATOM	21229	O3'	GUA	95	115.160	36.650	5.074	1.00	54.79	Al6S
ATOM	21177	N3	CYT	93	113.286	35.612	16.534	1.00	52.16	Al6S	ATOM	21230	P	CYT	96	115.104	38.003	4.220	1.00	46.75	Al6S
ATOM	21178	C4	CYT	93	113.021	36.561	17.429	1.00	52.16	Al6S	ATOM	21231	O1P	CYT	96	115.856	37.778	2.948	1.00	40.00	Al6S
ATOM	21179	N4	CYT	93	111.768	36.996	17.521	1.00	52.16	Al6S	ATOM	21232	O2P	CYT	96	115.516	39.105	5.160	1.00	40.00	Al6S
ATOM	21180	C5	CYT	93	114.032	37.105	18.271	1.00	52.16	Al6S	ATOM	21233	O5'	CYT	96	113.563	38.142	3.864	1.00	46.75	Al6S
ATOM	21181	C2'	CYT	93	117.679	35.849	15.971	1.00	68.58	Al6S	ATOM	21234	C5'	CYT	96	112.951	37.157	3.053	1.00	46.75	Al6S
ATOM	21182	O2'	CYT	93	118.554	34.946	15.327	1.00	68.58	Al6S	ATOM	21235	C4'	CYT	96	111.464	37.185	3.220	1.00	46.75	Al6S
ATOM	21183	C3'	CYT	93	118.407	36.933	16.749	1.00	68.58	Al6S	ATOM	21236	O4'	CYT	96	111.113	37.021	4.612	1.00	46.75	Al6S
ATOM	21184	O3'	CYT	93	119.532	37.445	16.065	1.00	68.58	Al6S	ATOM	21237	C1'	CYT	96	109.858	37.632	4.853	1.00	46.75	Al6S
ATOM	21185	P	ADE	94	119.536	38.985	15.592	1.00	61.27	Al6S	ATOM	21238	N1	CYT	96	110.004	38.650	5.904	1.00	40.00	Al6S
ATOM	21186	O1P	ADE	94	120.974	39.348	15.504	1.00	50.94	Al6S	ATOM	21239	C6	CYT	96	111.223	38.937	6.456	1.00	40.00	Al6S
ATOM	21187	O2P	ADE	94	118.633	39.784	16.463	1.00	50.94	Al6S	ATOM	21240	C2	CYT	96	108.861	39.344	6.319	1.00	40.00	Al6S
ATOM	21188	O5'	ADE	94	118.888	38.950	14.133	1.00	61.27	Al6S	ATOM	21241	O2	CYT	96	107.766	39.061	5.804	1.00	40.00	Al6S
ATOM	21189	C5'	ADE	94	119.670	38.555	12.995	1.00	61.27	Al6S	ATOM	21242	N3	CYT	96	108.975	40.310	7.258	1.00	40.00	Al6S
ATOM	21190	C4'	ADE	94	118.951	37.488	12.217	1.00	61.27	Al6S	ATOM	21243	C4	CYT	96	110.171	40.503	7.770	1.00	40.00	Al6S
ATOM	21191	O4'	ADE	94	118.147	36.727	13.148	1.00	61.27	Al6S	ATOM	21244	N4	CYT	96	110.238	41.588	8.670	1.00	40.00	Al6S
ATOM	21192	C1'	ADE	94	117.004	36.227	12.484	1.00	61.27	Al6S	ATOM	21245	C5	CYT	96	111.353	39.903	7.377	1.00	40.00	Al6S
ATOM	21193	N9	ADE	94	115.800	36.688	13.170	1.00	50.94	Al6S	ATOM	21246	C2'	CYT	96	109.415	38.281	3.545	1.00	46.75	Al6S
ATOM	21194	C4	ADE	94	114.523	36.273	12.864	1.00	50.94	Al6S	ATOM	21247	O2'	CYT	96	108.540	37.405	2.862	1.00	46.75	Al6S
ATOM	21195	N3	ADE	94	114.163	35.348	11.954	1.00	50.94	Al6S	ATOM	21248	C3'	CYT	96	110.744	38.453	2.831	1.00	46.75	Al6S
ATOM	21196	C2	ADE	94	112.838	35.228	11.907	1.00	50.94	Al6S	ATOM	21249	O3'	CYT	96	110.570	38.556	1.434	1.00	46.75	Al6S
ATOM	21197	N1	ADE	94	111.900	35.893	12.600	1.00	50.94	Al6S	ATOM	21250	P	GUA	97	110.770	39.983	0.721	1.00	56.11	Al6S
ATOM	21198	C6	ADE	94	112.298	36.831	13.489	1.00	50.94	Al6S	ATOM	21251	O1P	GUA	97	110.344	39.818	-0.702	1.00	33.45	Al6S
ATOM	21199	N6	ADE	94	111.368	37.534	14.133	1.00	50.94	Al6S	ATOM	21252	O2P	GUA	97	112.149	40.445	1.025	1.00	33.45	Al6S
ATOM	21200	C5	ADE	94	113.880	37.025	13.661	1.00	50.94	Al6S	ATOM	21253	O5'	GUA	97	109.720	40.934	1.461	1.00	56.11	Al6S
ATOM	21201	N7	ADE	94	114.412	37.859	14.498	1.00	50.94	Al6S	ATOM	21254	C5'	GUA	97	108.316	40.847	1.151	1.00	56.11	Al6S
ATOM	21202	C8	ADE	94	115.663	37.616	14.173	1.00	50.94	Al6S	ATOM	21255	C4'	GUA	97	107.520	41.874	1.924	1.00	56.11	Al6S
ATOM	21203	C2'	ADE	94	117.043	36.723	11.039	1.00	61.27	Al6S	ATOM	21256	O4'	GUA	97	107.606	41.623	3.349	1.00	56.11	Al6S
ATOM	21204	O2'	ADE	94	117.576	35.703	10.219	1.00	61.27	Al6S	ATOM	21257	C1'	GUA	97	107.473	42.843	4.062	1.00	56.11	Al6S
ATOM	21205	C3'	ADE	94	117.962	37.932	11.146	1.00	61.27	Al6S	ATOM	21258	N9	GUA	97	108.669	43.053	4.869	1.00	33.45	Al6S
ATOM	21206	O3	ADE	94	118.605	38.176	9.896	1.00	61.27	Al6S	ATOM	21259	C4	GUA	97	108.817	43.970	5.884	1.00	33.45	Al6S
ATOM	21207	P	GUA	95	117.852	39.029	8.751	1.00	54.79	Al6S	ATOM	21260	N3	GUA	97	107.889	44.857	6.299	1.00	33.45	Al6S
ATOM	21208	O1P	GUA	95	118.867	39.324	7.706	1.00	41.07	Al6S	ATOM	21261	C2	GUA	97	108.341	45.608	7.303	1.00	33.45	Al6S
ATOM	21209	O2P	GUA	95	117.095	40.135	9.373	1.00	41.07	Al6S	ATOM	21262	N2	GUA	97	107.570	46.566	7.835	1.00	33.45	Al6S
ATOM	21210	O5'	GUA	95	116.751	38.056	8.136	1.00	54.79	Al6S	ATOM	21263	N1	GUA	97	109.586	45.483	7.854	1.00	33.45	Al6S
ATOM	21211	C5'	GUA	95	117.101	36.760	7.622	1.00	54.79	Al6S	ATOM	21264	O6	GUA	97	110.548	44.583	7.439	1.00	33.45	Al6S
ATOM	21212	C4'	GUA	95	115.855	35.972	7.312	1.00	54.79	Al6S	ATOM	21265	C6	GUA	97	111.633	44.564	7.996	1.00	33.45	Al6S
ATOM	21213	O4'	GUA	95	115.130	35.695	8.536	1.00	54.79	Al6S	ATOM	21266	C5	GUA	97	110.094	43.780	6.366	1.00	33.45	Al6S
ATOM	21214	C1'	GUA	95	113.733	35.740	8.286	1.00	54.79	Al6S	ATOM	21267	N7	GUA	97	110.742	42.777	5.662	1.00	33.45	Al6S
ATOM	21215	N9	GUA	95	113.139	36.789	9.113	1.00	41.07	Al6S	ATOM	21268	C8	GUA	97	109.863	42.378	4.783	1.00	33.45	Al6S
ATOM	21216	C4	GUA	95	111.799	37.074	9.217	1.00	41.07	Al6S	ATOM	21269	C2'	GUA	97	107.285	43.948	3.036	1.00	56.11	Al6S
ATOM	21217	N3	GUA	95	110.806	36.445	8.559	1.00	41.07	Al6S	ATOM	21270	O2'	GUA	97	105.892	44.160	2.902	1.00	56.11	Al6S
ATOM	21218	C2	GUA	95	109.621	36.926	8.879	1.00	41.07	Al6S	ATOM	21271	C3'	GUA	97	107.932	43.326	1.802	1.00	56.11	Al6S

ATOM	21272	O3' GUA	97	107.493	43.916	0.597	1.00	56.11	A16S	ATOM	21325	C4	GUA	100	116.353	52.946	5.315	1.00	45.35	A16S
ATOM	21273	P GUA	98	108.385	45.063	-0.079	1.00	56.21	A16S	ATOM	21326	N3	GUA	100	117.347	53.133	6.201	1.00	45.35	A16S
ATOM	21274	O2P GUA	98	107.681	45.439	-1.326	1.00	45.94	A16S	ATOM	21327	C2	GUA	100	118.197	52.124	6.210	1.00	45.35	A16S
ATOM	21275	O2P GUA	98	109.795	44.599	-0.141	1.00	45.94	A16S	ATOM	21328	N2	GUA	100	119.238	52.146	7.060	1.00	45.35	A16S
ATOM	21276	O5' GUA	98	108.302	46.278	0.948	1.00	56.21	A16S	ATOM	21329	N1	GUA	100	118.088	51.019	5.396	1.00	45.35	A16S
ATOM	21277	C5' GUA	98	107.042	46.893	1.212	1.00	56.21	A16S	ATOM	21330	C6	GUA	100	117.068	50.809	4.472	1.00	45.35	A16S
ATOM	21278	C4' GUA	98	107.136	47.900	2.339	1.00	56.21	A16S	ATOM	21331	O6	GUA	100	117.058	49.784	3.781	1.00	45.35	A16S
ATOM	21279	O4' GUA	98	107.614	47.282	3.556	1.00	56.21	A16S	ATOM	21332	C5	GUA	100	116.142	51.881	4.468	1.00	45.35	A16S
ATOM	21280	C1' GUA	98	108.010	48.300	4.452	1.00	56.21	A16S	ATOM	21333	N7	GUA	100	114.999	52.072	3.712	1.00	45.35	A16S
ATOM	21281	N9 GUA	98	109.276	47.943	5.072	1.00	45.94	A16S	ATOM	21334	C8	GUA	100	114.550	53.235	4.095	1.00	45.35	A16S
ATOM	21282	C8 GUA	98	109.821	48.546	6.179	1.00	45.94	A16S	ATOM	21335	C2' GUA	100	116.266	56.062	4.951	1.00	41.04	A16S	
ATOM	21283	N3 GUA	98	109.275	49.568	6.877	1.00	45.94	A16S	ATOM	21336	O2' GUA	100	116.638	57.124	5.803	1.00	41.04	A16S	
ATOM	21284	C2 GUA	98	110.050	49.950	7.884	1.00	45.94	A16S	ATOM	21337	C3' GUA	100	115.531	56.557	3.721	1.00	41.04	A16S	
ATOM	21285	N2 GUA	98	109.671	50.970	8.676	1.00	45.94	A16S	ATOM	21338	O3' GUA	100	116.162	57.700	3.161	1.00	41.04	A16S	
ATOM	21286	N1 GUA	98	111.256	49.362	8.184	1.00	45.94	A16S	ATOM	21339	P	GUA	101	116.959	57.556	1.771	1.00	37.84	A16S
ATOM	21287	C6 GUA	98	111.829	48.305	7.481	1.00	45.94	A16S	ATOM	21340	O1P GUA	101	117.299	58.917	1.305	1.00	56.53	A16S	
ATOM	21288	O6 GUA	98	112.920	47.840	7.838	1.00	45.94	A16S	ATOM	21341	O2P GUA	101	116.169	56.660	0.887	1.00	56.53	A16S	
ATOM	21289	C5 GUA	98	111.017	47.899	6.395	1.00	45.94	A16S	ATOM	21342	O5' GUA	101	118.296	56.793	2.183	1.00	37.84	A16S	
ATOM	21290	N7 GUA	98	111.221	46.909	5.443	1.00	45.94	A16S	ATOM	21343	C5' GUA	101	118.830	56.934	3.503	1.00	37.84	A16S	
ATOM	21291	C8 GUA	98	110.162	46.970	4.681	1.00	45.94	A16S	ATOM	21344	C4' GUA	101	119.823	55.834	3.827	1.00	37.84	A16S	
ATOM	21292	C2' GUA	98	108.123	49.595	3.654	1.00	56.21	A16S	ATOM	21345	O4' GUA	101	119.223	54.501	3.779	1.00	37.84	A16S	
ATOM	21293	O2' GUA	98	107.023	50.402	4.022	1.00	56.21	A16S	ATOM	21346	C1' GUA	101	120.270	53.537	3.781	1.00	37.84	A16S	
ATOM	21294	C3' GUA	98	108.067	49.092	2.210	1.00	56.21	A16S	ATOM	21347	N9 GUA	101	120.115	52.548	2.707	1.00	56.53	A16S	
ATOM	21295	O3' GUA	98	107.545	50.993	1.343	1.00	56.21	A16S	ATOM	21348	C4 GUA	101	119.177	52.504	1.715	1.00	56.53	A16S	
ATOM	21296	P	CVT	99	108.550	50.970	0.446	1.00	54.88	A16S	ATOM	21349	N3 GUA	101	118.147	53.349	1.573	1.00	56.53	A16S
ATOM	21297	O1P	CVT	99	107.690	51.668	-0.553	1.00	40.31	A16S	ATOM	21350	C2 GUA	101	117.429	53.065	0.502	1.00	56.53	A16S
ATOM	21298	O2P	CVT	99	109.679	50.119	-0.020	1.00	40.31	A16S	ATOM	21351	N2 GUA	101	116.347	53.822	0.201	1.00	56.53	A16S
ATOM	21299	O5' CVT	99	109.147	52.028	1.472	1.00	54.88	A16S	ATOM	21352	N1 GUA	101	117.712	52.022	-0.362	1.00	56.53	A16S	
ATOM	21300	C5' CVT	99	108.348	53.136	1.889	1.00	54.88	A16S	ATOM	21353	C6 GUA	101	118.776	51.137	-0.222	1.00	56.53	A16S	
ATOM	21301	C4' CVT	99	108.984	53.842	3.051	1.00	54.88	A16S	ATOM	21354	O6 GUA	101	118.950	50.238	-1.049	1.00	56.53	A16S	
ATOM	21302	O4' CVT	99	109.041	52.952	4.191	1.00	54.88	A16S	ATOM	21355	C5 GUA	101	119.539	51.430	0.913	1.00	56.53	A16S	
ATOM	21303	C1' CVT	99	110.198	53.239	4.961	1.00	54.88	A16S	ATOM	21356	N7 GUA	101	120.663	50.791	1.412	1.00	56.53	A16S	
ATOM	21304	N1 CVT	99	111.097	52.085	4.881	1.00	40.31	A16S	ATOM	21357	C8 GUA	101	120.964	51.475	2.481	1.00	56.53	A16S	
ATOM	21305	C6 CVT	99	110.990	51.182	3.859	1.00	40.31	A16S	ATOM	21358	C2' GUA	101	121.563	54.310	3.536	1.00	37.84	A16S	
ATOM	21306	C2 CVT	99	112.102	51.949	5.847	1.00	40.31	A16S	ATOM	21359	O3' GUA	101	122.213	54.519	4.776	1.00	37.84	A16S	
ATOM	21307	O2 CVT	99	112.150	52.762	6.788	1.00	40.31	A16S	ATOM	21360	C3' GUA	101	121.045	55.615	2.952	1.00	37.84	A16S	
ATOM	21308	N3 CVT	99	112.995	50.944	5.723	1.00	40.31	A16S	ATOM	21361	O3' GUA	101	122.075	56.586	3.021	1.00	37.84	A16S	
ATOM	21309	C4 CVT	99	112.910	50.099	4.691	1.00	40.31	A16S	ATOM	21362	P	ADE	102	123.180	56.642	1.845	1.00	42.89	A16S
ATOM	21310	N4 CVT	99	113.847	49.161	4.574	1.00	40.31	A16S	ATOM	21363	O1P ADE	102	123.687	55.256	1.593	1.00	52.38	A16S	
ATOM	21311	C5 CVT	99	111.868	50.188	3.725	1.00	40.31	A16S	ATOM	21364	O2P ADE	102	124.147	57.720	2.173	1.00	52.38	A16S	
ATOM	21312	C2' CVT	99	110.895	54.429	4.307	1.00	54.88	A16S	ATOM	21365	O5' ADE	102	122.350	57.070	0.552	1.00	42.89	A16S	
ATOM	21313	O2' CVT	99	110.501	55.640	4.926	1.00	54.88	A16S	ATOM	21366	C5' ADE	102	121.581	58.285	0.548	1.00	42.89	A16S	
ATOM	21314	C3' CVT	99	110.421	54.284	2.868	1.00	54.88	A16S	ATOM	21367	C4' ADE	102	121.901	59.118	-0.675	1.00	42.89	A16S	
ATOM	21315	O3' CVT	99	110.552	55.464	2.109	1.00	54.88	A16S	ATOM	21368	O4' ADE	102	121.589	58.365	-1.877	1.00	42.89	A16S	
ATOM	21316	P	GUA	100	111.890	55.697	1.255	1.00	41.04	A16S	ATOM	21369	C1' ADE	102	120.677	59.093	-2.665	1.00	42.89	A16S
ATOM	21317	O1P GUA	100	111.680	57.057	0.687	1.00	45.35	A16S	ATOM	21370	N9 ADE	102	119.808	58.137	-3.325	1.00	52.38	A16S	
ATOM	21318	O2P GUA	100	112.137	54.549	0.329	1.00	45.35	A16S	ATOM	21371	C4 ADE	102	119.189	57.064	-2.743	1.00	52.38	A16S	
ATOM	21319	O5' GUA	100	113.013	55.771	2.386	1.00	41.04	A16S	ATOM	21372	N3 ADE	102	119.220	56.709	-1.446	1.00	52.38	A16S	
ATOM	21320	C5' GUA	100	112.987	56.861	3.317	1.00	41.04	A16S	ATOM	21373	C2 ADE	102	118.524	55.600	-1.253	1.00	52.38	A16S	
ATOM	21321	C4' GUA	100	114.140	56.794	4.281	1.00	41.04	A16S	ATOM	21374	N1 ADE	102	117.850	54.856	-2.142	1.00	52.38	A16S	
ATOM	21322	O4' GUA	100	113.942	55.709	5.216	1.00	41.04	A16S	ATOM	21375	C6 ADE	102	117.841	55.242	-3.434	1.00	52.38	A16S	
ATOM	21323	C1' GUA	100	115.202	55.179	5.603	1.00	41.04	A16S	ATOM	21376	N6 ADE	102	117.174	54.504	-4.320	1.00	52.38	A16S	
ATOM	21324	N9 GUA	100	115.342	53.834	5.044	1.00	45.35	A16S	ATOM	21377	C5 ADE	102	118.540	56.405	-3.768	1.00	52.38	A16S	

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ATOM	21378	N7	ADE	102	118.727	57.068	-4.972	1.00	52.38	A16S	ATOM	21431	C5'	GUA	105	127.681	67.000	8.806	1.00	41.38	A16S
ATOM	21379	C8	ADE	102	119.475	58.092	-4.648	1.00	52.38	A16S	ATOM	21432	C4'	GUA	105	128.765	65.970	8.982	1.00	41.38	A16S
ATOM	21380	O2P	ADE	102	119.982	60.071	-1.722	1.00	42.89	A16S	ATOM	21433	O4'	GUA	105	128.250	64.672	8.574	1.00	41.38	A16S
ATOM	21381	C2'	ADE	102	119.477	61.188	-2.435	1.00	42.89	A16S	ATOM	21434	C1'	GUA	105	129.289	63.905	7.988	1.00	41.38	A16S
ATOM	21382	C3'	ADE	102	121.122	60.427	-0.771	1.00	42.89	A16S	ATOM	21435	N9	GUA	105	128.996	63.734	6.565	1.00	42.06	A16S
ATOM	21383	O3'	ADE	102	121.933	61.399	-1.421	1.00	42.89	A16S	ATOM	21436	C4	GUA	105	129.769	63.050	5.658	1.00	42.06	A16S
ATOM	21384	P	CYT	103	122.848	62.396	-0.567	1.00	47.25	A16S	ATOM	21437	N3	GUA	105	130.911	62.392	5.933	1.00	42.06	A16S
ATOM	21385	O1P	CYT	103	123.064	63.575	-1.445	1.00	57.44	A16S	ATOM	21438	C2	GUA	105	131.430	61.831	4.853	1.00	42.06	A16S
ATOM	21386	O2P	CYT	103	124.019	61.640	-0.054	1.00	57.44	A16S	ATOM	21439	N2	GUA	105	132.558	61.108	4.950	1.00	42.06	A16S
ATOM	21387	O5'	CYT	103	121.946	62.845	0.670	1.00	47.25	A16S	ATOM	21440	N1	GUA	105	130.880	61.931	3.598	1.00	42.06	A16S
ATOM	21388	C5A/CYT	103	120.851	63.777	0.506	1.00	47.25	A16S	ATOM	21441	C6	GUA	105	129.716	62.615	3.292	1.00	42.06	A16S	
ATOM	21389	C4'	CYT	103	120.293	64.180	1.854	1.00	47.25	A16S	ATOM	21442	O6	GUA	105	129.327	62.658	2.127	1.00	42.06	A16S
ATOM	21390	O4'	CYT	103	119.805	62.998	2.531	1.00	47.25	A16S	ATOM	21443	C5	GUA	105	129.133	63.200	4.444	1.00	42.06	A16S
ATOM	21391	C1'	CYT	103	120.062	63.102	3.921	1.00	47.25	A16S	ATOM	21444	N7	GUA	105	127.974	63.947	4.585	1.00	42.06	A16S
ATOM	21392	N1	CYT	103	120.882	61.961	4.356	1.00	57.44	A16S	ATOM	21445	C8	GUA	105	127.930	64.238	5.857	1.00	42.06	A16S
ATOM	21393	C6	CYT	103	121.639	61.243	3.471	1.00	57.44	A16S	ATOM	21446	C2'	GUA	105	130.568	64.717	8.145	1.00	41.38	A16S
ATOM	21394	C2	CYT	103	120.873	61.625	5.707	1.00	57.44	A16S	ATOM	21447	O2'	GUA	105	131.183	64.406	9.382	1.00	41.38	A16S
ATOM	21395	O2	CYT	103	120.179	62.305	6.493	1.00	57.44	A16S	ATOM	21448	C3'	GUA	105	130.018	66.131	8.133	1.00	41.38	A16S
ATOM	21396	N3	CYT	103	121.618	60.578	6.131	1.00	57.44	A16S	ATOM	21449	O3'	GUA	105	130.960	67.093	8.590	1.00	41.38	A16S
ATOM	21397	C4	CYT	103	122.350	59.882	5.260	1.00	57.44	A16S	ATOM	21450	P	GUA	106	131.824	67.924	7.502	1.00	52.40	A16S
ATOM	21398	N4	CYT	103	123.064	58.858	5.725	1.00	57.44	A16S	ATOM	21451	O1P	GUA	106	132.629	68.972	8.214	1.00	32.44	A16S
ATOM	21399	C5	CYT	103	122.380	60.206	3.877	1.00	57.44	A16S	ATOM	21452	O2P	GUA	106	130.899	68.311	6.404	1.00	32.44	A16S
ATOM	21400	C2'	CYT	103	120.754	64.435	4.188	1.00	47.25	A16S	ATOM	21453	O5'	GUA	106	132.839	66.865	6.882	1.00	52.40	A16S
ATOM	21401	O2'	CYT	103	119.833	65.361	4.727	1.00	47.25	A16S	ATOM	21454	C5'	GUA	106	133.655	66.037	7.735	1.00	52.40	A16S
ATOM	21402	C3'	CYT	103	121.310	64.775	2.811	1.00	47.25	A16S	ATOM	21455	C4'	GUA	106	134.577	65.178	6.909	1.00	52.40	A16S
ATOM	21403	O3'	CYT	103	121.466	66.168	2.632	1.00	47.25	A16S	ATOM	21456	O4'	GUA	106	133.795	64.278	6.091	1.00	52.40	A16S
ATOM	21404	P	GUA	104	122.871	66.852	2.984	1.00	37.96	A16S	ATOM	21457	C1'	GUA	106	134.449	64.070	4.852	1.00	52.40	A16S
ATOM	21405	O1P	GUA	104	122.646	68.324	2.933	1.00	61.68	A16S	ATOM	21458	N9	GUA	106	133.527	64.422	3.772	1.00	32.44	A16S
ATOM	21406	O2P	GUA	104	123.937	66.232	2.151	1.00	61.68	A16S	ATOM	21459	C4	GUA	106	133.683	64.169	2.425	1.00	32.44	A16S
ATOM	21407	O5'	GUA	104	123.148	66.438	4.491	1.00	37.96	A16S	ATOM	21460	N3	GUA	106	134.748	63.590	1.840	1.00	32.44	A16S
ATOM	21408	C5'	GUA	104	122.488	67.112	5.547	1.00	37.96	A16S	ATOM	21461	C2	GUA	106	134.576	63.444	0.527	1.00	32.44	A16S
ATOM	21409	C4'	GUA	104	122.819	66.463	6.844	1.00	37.96	A16S	ATOM	21462	N2	GUA	106	135.532	62.870	-0.224	1.00	32.44	A16S
ATOM	21410	O4'	GUA	104	122.356	65.096	6.801	1.00	37.96	A16S	ATOM	21463	N1	GUA	106	133.454	63.844	-0.151	1.00	32.44	A16S
ATOM	21411	C1'	GUA	104	123.282	64.252	7.468	1.00	37.96	A16S	ATOM	21464	C6	GUA	106	132.352	64.445	0.429	1.00	32.44	A16S
ATOM	21412	N9	GUA	104	123.880	63.368	6.470	1.00	61.68	A16S	ATOM	21465	O6	GUA	106	131.393	64.762	-0.276	1.00	32.44	A16S
ATOM	21413	C4	GUA	104	124.507	62.174	6.712	1.00	61.68	A16S	ATOM	21466	C5	GUA	106	132.518	64.603	1.836	1.00	32.44	A16S
ATOM	21414	N3	GUA	104	124.617	61.571	7.909	1.00	61.68	A16S	ATOM	21467	N7	GUA	106	131.665	65.144	2.782	1.00	32.44	A16S
ATOM	21415	C2	GUA	104	125.298	60.452	7.829	1.00	61.68	A16S	ATOM	21468	C8	GUA	106	132.310	65.028	3.909	1.00	32.44	A16S
ATOM	21416	N2	GUA	104	125.489	59.718	8.928	1.00	61.68	A16S	ATOM	21469	C2'	GUA	106	135.758	64.854	4.884	1.00	52.40	A16S
ATOM	21417	N1	GUA	104	125.842	59.969	6.672	1.00	61.68	A16S	ATOM	21470	O2'	GUA	106	136.782	64.010	5.367	1.00	52.40	A16S
ATOM	21418	C6	GUA	104	125.749	60.577	5.429	1.00	61.68	A16S	ATOM	21471	C3'	GUA	106	135.444	65.922	5.912	1.00	52.40	A16S
ATOM	21419	O6	GUA	104	126.299	60.065	4.449	1.00	61.68	A16S	ATOM	21472	O3'	GUA	106	136.623	66.441	6.503	1.00	52.40	A16S
ATOM	21420	C5	GUA	104	125.002	61.766	5.494	1.00	61.68	A16S	ATOM	21473	P	URI	107	137.179	67.869	6.012	1.00	41.25	A16S
ATOM	21421	N7	GUA	104	124.652	62.660	4.495	1.00	61.68	A16S	ATOM	21474	O1P	URI	107	138.201	68.341	6.989	1.00	36.84	A16S
ATOM	21422	C8	GUA	104	123.979	63.588	5.117	1.00	61.68	A16S	ATOM	21475	O2P	URI	107	136.005	68.736	5.694	1.00	36.84	A16S
ATOM	21423	C2'	GUA	104	124.351	65.159	8.079	1.00	37.96	A16S	ATOM	21476	O5'	URI	107	137.893	67.530	4.634	1.00	41.25	A16S
ATOM	21424	O2'	GUA	104	124.017	65.500	9.416	1.00	37.96	A16S	ATOM	21477	C5'	URI	107	138.852	66.487	4.549	1.00	41.25	A16S
ATOM	21425	C3'	GUA	104	124.296	66.343	7.126	1.00	37.96	A16S	ATOM	21478	C4'	URI	107	139.020	66.075	3.122	1.00	41.25	A16S
ATOM	21426	O3'	GUA	104	124.849	67.535	7.635	1.00	37.96	A16S	ATOM	21479	O4'	URI	107	137.787	65.511	2.640	1.00	41.25	A16S
ATOM	21427	P	GUA	105	126.184	68.112	6.963	1.00	41.38	A16S	ATOM	21480	C1'	URI	107	137.664	65.768	1.258	1.00	41.25	A16S
ATOM	21428	O1P	GUA	105	126.485	69.445	7.542	1.00	42.06	A16S	ATOM	21481	N1	URI	107	136.358	66.392	1.004	1.00	36.84	A16S
ATOM	21429	O2P	GUA	105	125.990	67.954	5.505	1.00	42.06	A16S	ATOM	21482	C6	URI	107	135.604	66.912	2.024	1.00	36.84	A16S
ATOM	21430	O5'	GUA	105	127.331	67.116	7.424	1.00	41.38	A16S	ATOM	21483	C2	URI	107	135.895	66.412	0.308	1.00	36.84	A16S

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ATOM	21484	O2	URI	107	136.553	66.015	-1.257	1.00	36.84	A16S	ATOM	21537	O3' ADE	109	144.875	66.478	-8.096	1.00	40.35	A16S	
ATOM	21485	N3	URI	107	134.636	66.925	-0.466	1.00	36.84	A16S	ATOM	21538	P	GUA	110	144.785	67.638	-9.203	1.00	39.83	A16S
ATOM	21486	CAP	URI	107	133.819	67.422	0.516	1.00	36.84	A16S	ATOM	21539	O1P	GUA	110	144.235	68.832	-8.500	1.00	56.23	A16S
ATOM	21487	O4	URI	107	132.662	67.724	0.235	1.00	36.84	A16S	ATOM	21540	O2P	GUA	110	146.100	67.735	-9.905	1.00	56.23	A16S
ATOM	21488	C5	URI	107	134.389	67.415	1.831	1.00	36.84	A16S	ATOM	21541	O5' GUA	110	143.685	67.119	-10.239	1.00	39.83	A16S	
ATOM	21489	C2' URI	107	138.874	66.591	0.818	1.00	41.25	A16S	ATOM	21542	C5' GUA	110	143.830	65.865	-10.929	1.00	39.83	A16S		
ATOM	21490	O2' URI	107	139.842	65.710	0.265	1.00	41.25	A16S	ATOM	21543	C4' GUA	110	142.497	65.426	-11.489	1.00	39.83	A16S		
ATOM	21491	C3' URI	107	139.332	67.185	2.137	1.00	41.25	A16S	ATOM	21544	O4' GUA	110	141.576	65.297	-10.382	1.00	39.83	A16S		
ATOM	21492	O3' URI	107	140.719	67.448	2.127	1.00	41.25	A16S	ATOM	21545	C1' GUA	110	140.305	65.800	-10.749	1.00	39.83	A16S		
ATOM	21493	P	GUA	108	141.244	68.915	1.775	1.00	38.79	A16S	ATOM	21546	N9	GUA	110	140.014	66.936	-9.879	1.00	56.23	A16S
ATOM	21494	O2P	GUA	108	142.691	68.923	2.118	1.00	39.87	A16S	ATOM	21547	C4	GUA	110	138.843	67.649	-9.815	1.00	56.23	A16S
ATOM	21495	O2P	GUA	108	140.347	69.888	2.432	1.00	39.87	A16S	ATOM	21548	N3	GUA	110	137.754	67.459	-10.586	1.00	56.23	A16S
ATOM	21496	O5' GUA	108	141.046	69.007	0.197	1.00	38.79	A16S	ATOM	21549	C2	GUA	110	136.776	68.284	-10.267	1.00	56.23	A16S	
ATOM	21497	C5' GUA	108	141.766	68.130	-0.679	1.00	38.79	A16S	ATOM	21550	N2	GUA	110	135.622	68.238	-10.946	1.00	56.23	A16S	
ATOM	21498	C4' GUA	108	141.293	68.312	-2.096	1.00	38.79	A16S	ATOM	21551	N1	GUA	110	136.856	69.214	-9.260	1.00	56.23	A16S	
ATOM	21499	O4' GUA	108	139.871	68.100	-2.097	1.00	38.79	A16S	ATOM	21552	C6	GUA	110	137.967	69.417	-8.447	1.00	56.23	A16S	
ATOM	21500	C1' GUA	108	139.251	68.995	-2.989	1.00	38.79	A16S	ATOM	21553	O6	GUA	110	137.930	70.252	-7.540	1.00	56.23	A16S	
ATOM	21501	N9	GUA	108	137.976	69.405	-2.401	1.00	39.87	A16S	ATOM	21554	C5	GUA	110	139.027	68.561	-8.798	1.00	56.23	A16S
ATOM	21502	C4	GUA	108	136.798	69.630	-3.080	1.00	39.87	A16S	ATOM	21555	N7	GUA	110	140.303	68.457	-8.266	1.00	56.23	A16S
ATOM	21503	N3	GUA	108	136.636	69.606	-4.419	1.00	39.87	A16S	ATOM	21556	C8	GUA	110	140.851	67.484	-8.939	1.00	56.23	A16S
ATOM	21504	C2	GUA	108	135.385	69.833	-4.765	1.00	39.87	A16S	ATOM	21557	C2' GUA	110	140.352	66.169	-12.229	1.00	39.83	A16S	
ATOM	21505	N2	GUA	108	135.053	69.869	-6.056	1.00	39.87	A16S	ATOM	21558	O2' GUA	110	139.858	65.114	-13.019	1.00	39.83	A16S	
ATOM	21506	N1	GUA	108	134.373	70.045	-3.874	1.00	39.87	A16S	ATOM	21559	C3' GUA	110	141.836	66.422	-12.431	1.00	39.83	A16S	
ATOM	21507	C6	GUA	108	134.515	70.059	-2.496	1.00	39.87	A16S	ATOM	21560	O3' GUA	110	142.217	66.248	-13.790	1.00	42.59	A16S	
ATOM	21508	O6	GUA	108	133.535	70.228	-1.786	1.00	39.87	A16S	ATOM	21561	P	URI	111	142.589	67.538	-14.674	1.00	42.59	A16S
ATOM	21509	C5	GUA	108	135.850	69.846	-2.106	1.00	39.87	A16S	ATOM	21562	O1P	URI	111	142.991	67.092	-16.037	1.00	45.05	A16S
ATOM	21510	N7	GUA	108	136.421	69.809	-0.843	1.00	39.87	A16S	ATOM	21563	O2P	URI	111	143.524	68.378	-13.867	1.00	45.05	A16S
ATOM	21511	C8	GUA	108	137.685	69.560	-1.065	1.00	39.87	A16S	ATOM	21564	O5' URI	111	141.200	68.296	-14.819	1.00	42.59	A16S	
ATOM	21512	C2' GUA	108	140.275	70.008	-3.523	1.00	38.79	A16S	ATOM	21565	C5' URI	111	140.100	67.653	-15.469	1.00	42.59	A16S		
ATOM	21513	O2' GUA	108	140.383	69.863	-4.927	1.00	38.79	A16S	ATOM	21566	C4' URI	111	138.862	68.488	-15.344	1.00	42.59	A16S		
ATOM	21514	C3' GUA	108	141.507	69.710	-2.651	1.00	38.79	A16S	ATOM	21567	O4' URI	111	138.479	68.570	-13.949	1.00	42.59	A16S		
ATOM	21515	O3' GUA	108	142.884	69.863	-3.115	1.00	38.79	A16S	ATOM	21568	C1' URI	111	137.919	69.840	-13.679	1.00	42.59	A16S		
ATOM	21516	P	ADE	109	143.401	69.291	-4.550	1.00	40.35	A16S	ATOM	21569	N1	URI	111	138.754	70.499	-12.658	1.00	45.05	A16S
ATOM	21517	O1P	ADE	109	144.804	69.768	-4.610	1.00	36.40	A16S	ATOM	21570	C6	URI	111	140.052	70.097	-12.448	1.00	45.05	A16S
ATOM	21518	O2P	ADE	109	142.477	69.625	-5.665	1.00	36.40	A16S	ATOM	21571	C2	URI	111	138.204	71.540	-11.904	1.00	45.05	A16S
ATOM	21519	O5' ADE	109	143.455	67.704	-4.433	1.00	40.35	A16S	ATOM	21572	O2	URI	111	137.063	71.944	-12.049	1.00	45.05	A16S	
ATOM	21520	C5' ADE	109	144.643	66.970	-4.831	1.00	40.35	A16S	ATOM	21573	N3	URI	111	139.049	72.090	-10.970	1.00	45.05	A16S	
ATOM	21521	C4' ADE	109	144.300	65.863	-5.811	1.00	40.35	A16S	ATOM	21574	C4	URI	111	140.352	71.722	-10.711	1.00	45.05	A16S	
ATOM	21522	O4' ADE	109	143.221	65.065	-5.265	1.00	40.35	A16S	ATOM	21575	O4	URI	111	140.975	72.283	-9.811	1.00	45.05	A16S	
ATOM	21523	C1' ADE	109	142.317	64.713	-6.292	1.00	40.35	A16S	ATOM	21576	C5	URI	111	140.844	70.656	-11.526	1.00	45.05	A16S	
ATOM	21524	N9	ADE	109	141.083	65.463	-6.065	1.00	36.40	A16S	ATOM	21577	C2' URI	111	137.862	70.592	-15.013	1.00	42.59	A16S	
ATOM	21525	C4	ADE	109	139.879	65.240	-6.677	1.00	36.40	A16S	ATOM	21578	O2' URI	111	136.609	70.349	-15.633	1.00	42.59	A16S	
ATOM	21526	N3	ADE	109	139.596	64.291	-7.576	1.00	36.40	A16S	ATOM	21579	C3' URI	111	138.988	69.929	-15.788	1.00	42.59	A16S	
ATOM	21527	C2	ADE	109	138.332	64.372	-7.941	1.00	36.40	A16S	ATOM	21580	O3' URI	111	138.819	70.065	-17.186	1.00	42.59	A16S	
ATOM	21528	N1	ADE	109	137.390	65.233	-7.543	1.00	36.40	A16S	ATOM	21581	P	ADE	112	139.618	71.220	-17.975	1.00	48.64	A16S
ATOM	21529	C6	ADE	109	137.713	66.176	-6.642	1.00	36.40	A16S	ATOM	21582	O1P	ADE	112	139.150	71.140	-19.395	1.00	39.52	A16S
ATOM	21530	N6	ADE	109	136.776	67.034	-6.254	1.00	36.40	A16S	ATOM	21583	O2P	ADE	112	141.080	71.121	-17.669	1.00	39.52	A16S
ATOM	21531	C5	ADE	109	139.017	66.194	-6.173	1.00	36.40	A16S	ATOM	21584	O5' ADE	112	139.108	72.585	-17.328	1.00	48.64	A16S	
ATOM	21532	N7	ADE	109	139.661	67.008	-5.255	1.00	36.40	A16S	ATOM	21585	C5' ADE	112	137.891	73.201	-17.769	1.00	48.64	A16S	
ATOM	21533	C8	ADE	109	140.880	66.535	-5.221	1.00	36.40	A16S	ATOM	21586	C4' ADE	112	138.157	74.619	-18.196	1.00	48.64	A16S	
ATOM	21534	C2' ADE	109	142.951	65.125	-7.616	1.00	40.35	A16S	ATOM	21587	O4' ADE	112	138.692	75.316	-17.063	1.00	48.64	A16S		
ATOM	21535	O2' ADE	109	143.738	64.073	-8.123	1.00	40.35	A16S	ATOM	21588	C1' ADE	112	139.521	76.356	-17.504	1.00	48.64	A16S		
ATOM	21536	C3' ADE	109	143.808	66.299	-7.182	1.00	40.35	A16S	ATOM	21589	N9	ADE	112	140.590	76.546	-16.523	1.00	39.52	A16S	

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ATOM	21590	C4	ADE	112	140.739	77.655	-15.727	1.00	39.52	A16S	ATOM	21643	C3'	CYT	114	127.858	73.288	-18.712	1.00	59.91	A16S
ATOM	21591	N3	ADE	112	139.951	78.740	-15.687	1.00	39.52	A16S	ATOM	21644	O3'	CYT	114	128.028	73.121	-17.319	1.00	59.91	A16S
ATOM	21592	C4	ADE	112	140.410	79.622	-14.802	1.00	39.52	A16S	ATOM	21645	P	GUA	115	128.691	71.780	-16.744	1.00	43.26	A16S
ATOM	21593	N1	ADE	112	141.485	79.546	-14.013	1.00	39.52	A16S	ATOM	21646	O1P	GUA	115	127.726	70.672	-16.942	1.00	50.73	A16S
ATOM	21594	C6	ADE	112	142.254	78.441	-14.081	1.00	39.52	A16S	ATOM	21647	O2P	GUA	115	130.060	71.647	-17.270	1.00	50.73	A16S
ATOM	21595	N6	ADE	112	143.327	78.366	-13.305	1.00	39.52	A16S	ATOM	21648	O5'	GUA	115	128.803	72.112	-15.197	1.00	43.26	A16S
ATOM	21596	C5	ADE	112	141.875	77.433	-14.976	1.00	39.52	A16S	ATOM	21649	C5'	GUA	115	129.161	71.114	-14.259	1.00	43.26	A16S
ATOM	21597	N7	ADE	112	142.433	76.201	-15.281	1.00	39.52	A16S	ATOM	21650	C4'	GUA	115	130.100	71.699	-13.256	1.00	43.26	A16S
ATOM	21598	C8	ADE	112	141.632	75.712	-16.201	1.00	39.52	A16S	ATOM	21651	O4'	GUA	115	131.332	72.056	-13.936	1.00	43.26	A16S
ATOM	21599	C2'	ADE	112	139.932	76.085	-18.956	1.00	48.64	A16S	ATOM	21652	C1'	GUA	115	131.869	73.249	-13.377	1.00	43.26	A16S
ATOM	21600	O2P	ADE	112	139.627	77.182	-19.783	1.00	48.64	A16S	ATOM	21653	N9	GUA	115	131.941	74.253	-14.435	1.00	50.73	A16S
ATOM	21601	C3'	ADE	112	139.222	74.765	-19.264	1.00	48.64	A16S	ATOM	21654	C4	GUA	115	132.435	75.528	-14.324	1.00	50.73	A16S
ATOM	21602	O3'	ADE	112	138.720	74.552	-20.607	1.00	48.64	A16S	ATOM	21655	N3	GUA	115	132.981	76.070	-13.222	1.00	50.73	A16S
ATOM	21603	P	ADE	113	137.465	75.403	-21.189	1.00	52.57	A16S	ATOM	21656	C2	GUA	115	133.343	77.320	-13.419	1.00	50.73	A16S
ATOM	21604	O1P	ADE	113	137.425	75.175	-22.659	1.00	34.93	A16S	ATOM	21657	N2	GUA	115	133.921	78.020	-12.421	1.00	50.73	A16S
ATOM	21605	O2P	ADE	113	137.431	76.789	-20.668	1.00	34.93	A16S	ATOM	21658	N1	GUA	115	133.169	77.981	-14.603	1.00	50.73	A16S
ATOM	21606	O5'	ADE	113	136.187	74.660	-20.611	1.00	52.57	A16S	ATOM	21659	C6	GUA	115	132.599	77.439	-15.744	1.00	50.73	A16S
ATOM	21607	C5'	ADE	113	135.837	73.335	-21.037	1.00	52.57	A16S	ATOM	21660	O6	GUA	115	132.463	78.129	-16.756	1.00	50.73	A16S
ATOM	21608	C4'	ADE	113	134.709	72.829	-20.188	1.00	52.57	A16S	ATOM	21661	C5	GUA	115	132.229	76.106	-15.552	1.00	50.73	A16S
ATOM	21609	O1'	ADE	113	135.137	72.903	-18.809	1.00	52.57	A16S	ATOM	21662	N7	GUA	115	131.650	75.208	-16.431	1.00	50.73	A16S
ATOM	21610	C1'	ADE	113	134.116	73.449	-18.005	1.00	52.57	A16S	ATOM	21663	C8	GUA	115	131.500	74.122	-15.728	1.00	50.73	A16S
ATOM	21611	N9	ADE	113	134.632	74.707	-17.457	1.00	34.93	A16S	ATOM	21664	C2'	GUA	115	130.938	73.673	-12.237	1.00	43.26	A16S
ATOM	21612	C4	ADE	113	135.196	74.878	-16.214	1.00	34.93	A16S	ATOM	21665	O2'	GUA	115	131.447	73.230	-10.987	1.00	43.26	A16S
ATOM	21613	N3	ADE	113	135.347	73.956	-15.251	1.00	34.93	A16S	ATOM	21666	C3'	GUA	115	129.632	73.003	-12.649	1.00	43.26	A16S
ATOM	21614	C2	ADE	113	135.967	74.482	-14.189	1.00	34.93	A16S	ATOM	21667	O3'	GUA	115	128.709	72.823	-11.596	1.00	43.26	A16S
ATOM	21615	N1	ADE	113	136.423	75.730	-13.997	1.00	34.93	A16S	ATOM	21668	P	CYT	116	127.490	73.847	-11.458	1.00	43.00	A16S
ATOM	21616	C6	ADE	113	136.266	76.628	-14.993	1.00	34.93	A16S	ATOM	21669	O1P	CYT	116	126.558	73.340	-10.430	1.00	50.68	A16S
ATOM	21617	N6	ADE	113	136.746	77.863	-14.825	1.00	34.93	A16S	ATOM	21670	O2P	CYT	116	127.002	74.101	-12.839	1.00	50.68	A16S
ATOM	21618	C5	ADE	113	135.611	76.199	-16.167	1.00	34.93	A16S	ATOM	21671	O5'	CYT	116	128.179	75.178	-10.926	1.00	43.00	A16S
ATOM	21619	N7	ADE	113	135.295	76.856	-17.347	1.00	34.93	A16S	ATOM	21672	C5'	CYT	116	129.062	75.134	-9.786	1.00	43.00	A16S
ATOM	21620	C8	ADE	113	134.707	75.934	-18.073	1.00	34.93	A16S	ATOM	21673	C4'	CYT	116	129.864	76.419	-9.666	1.00	43.00	A16S
ATOM	21621	C2'	ADE	113	132.865	73.541	-18.878	1.00	52.57	A16S	ATOM	21674	O4'	CYT	116	130.776	76.560	-10.790	1.00	43.00	A16S
ATOM	21622	O2'	ADE	113	132.186	72.310	-18.744	1.00	52.57	A16S	ATOM	21675	C1'	CYT	116	130.904	77.926	-11.135	1.00	43.00	A16S
ATOM	21623	C3'	ADE	113	133.466	73.689	-20.269	1.00	52.57	A16S	ATOM	21676	N1	CYT	116	130.344	78.113	-12.482	1.00	50.68	A16S
ATOM	21624	O3'	ADE	113	132.627	73.156	-21.280	1.00	52.57	A16S	ATOM	21677	C6	CYT	116	129.587	77.138	-13.065	1.00	50.68	A16S
ATOM	21625	P	CYT	114	131.647	74.125	-22.102	1.00	59.91	A16S	ATOM	21678	C2	CYT	116	130.577	79.323	-13.155	1.00	50.68	A16S
ATOM	21626	O1P	CYT	114	130.972	73.287	-23.137	1.00	37.51	A16S	ATOM	21679	O2	CYT	116	131.305	80.182	-12.623	1.00	50.68	A16S
ATOM	21627	O2P	CYT	114	132.417	75.324	-22.513	1.00	37.51	A16S	ATOM	21680	N3	CYT	116	130.006	79.524	-14.363	1.00	50.68	A16S
ATOM	21628	O5'	CYT	114	130.558	74.586	-21.035	1.00	59.91	A16S	ATOM	21681	C4	CYT	116	129.240	78.575	-14.901	1.00	50.68	A16S
ATOM	21629	C5'	CYT	114	129.510	73.701	-20.612	1.00	59.91	A16S	ATOM	21682	N4	CYT	116	128.663	78.828	-16.070	1.00	50.68	A16S
ATOM	21630	C4'	CYT	114	129.034	74.089	-19.238	1.00	59.91	A16S	ATOM	21683	C5	CYT	116	129.022	77.326	-14.258	1.00	50.68	A16S
ATOM	21631	O4'	CYT	114	128.626	75.481	-19.235	1.00	59.91	A16S	ATOM	21684	C2'	CYT	116	130.119	78.730	-10.102	1.00	43.00	A16S
ATOM	21632	C1'	CYT	114	127.299	75.596	-18.765	1.00	59.91	A16S	ATOM	21685	O2'	CYT	116	130.995	79.074	-9.054	1.00	43.00	A16S
ATOM	21633	N1	CYT	114	126.624	76.659	-19.538	1.00	37.51	A16S	ATOM	21686	C3'	CYT	116	129.076	77.717	-9.654	1.00	43.00	A16S
ATOM	21634	C6	CYT	114	126.528	76.559	-20.898	1.00	37.51	A16S	ATOM	21687	O3'	CYT	116	128.557	78.009	-8.367	1.00	43.00	A16S
ATOM	21635	O2	CYT	114	126.080	77.779	-18.876	1.00	37.51	A16S	ATOM	21688	P	GUA	117	127.102	78.679	-8.246	1.00	41.92	A16S
ATOM	21636	C2	CYT	114	126.164	77.872	-17.640	1.00	37.51	A16S	ATOM	21689	O1P	GUA	117	126.734	78.696	-6.795	1.00	30.60	A16S
ATOM	21637	N3	CYT	114	125.468	78.735	-19.609	1.00	37.51	A16S	ATOM	21690	O2P	GUA	117	126.205	78.012	-9.215	1.00	30.60	A16S
ATOM	21638	C4	CYT	114	125.378	78.610	-20.935	1.00	37.51	A16S	ATOM	21691	O5'	GUA	117	127.320	80.171	-8.759	1.00	41.92	A16S
ATOM	21639	N4	CYT	114	124.746	79.557	-21.611	1.00	37.51	A16S	ATOM	21692	C5'	GUA	117	128.161	81.082	-8.032	1.00	41.92	A16S
ATOM	21640	C5	CYT	114	125.922	77.506	-21.624	1.00	37.51	A16S	ATOM	21693	C4'	GUA	117	128.251	82.404	-8.751	1.00	41.92	A16S
ATOM	21641	C2'	CYT	114	126.671	74.216	-18.958	1.00	59.91	A16S	ATOM	21694	O4'	GUA	117	128.929	82.225	-10.014	1.00	41.92	A16S
ATOM	21642	O2'	CYT	114	125.621	74.022	-18.037	1.00	59.91	A16S	ATOM	21695	C1'	GUA	117	128.442	83.160	-10.957	1.00	41.92	A16S

ATOM	21696	N9	GUA	117	127.953	82.434	-12.122	1.00	30.60	A16S	ATOM	21749	C8	GUA	119	120.755	84.216	-14.368	1.00	44.13	A16S
ATOM	21697	C4	GUA	117	127.795	82.939	-13.388	1.00	30.60	A16S	ATOM	21750	C2	GUA	119	118.551	86.567	-15.595	1.00	29.51	A16S
ATOM	21698	N3	GUA	117	128.024	84.210	-13.767	1.00	30.60	A16S	ATOM	21751	O2	GUA	119	118.268	87.556	-16.560	1.00	29.51	A16S
ATOM	21699	C2	GUA	117	127.802	84.381	-15.057	1.00	30.60	A16S	ATOM	21752	C3	GUA	119	118.283	87.080	-14.180	1.00	29.51	A16S
ATOM	21700	N2	GUA	117	127.960	85.588	-15.607	1.00	30.60	A16S	ATOM	21753	O3	GUA	119	117.112	87.888	-14.100	1.00	29.51	A16S
ATOM	21701	N1	GUA	117	127.404	83.387	-15.902	1.00	30.60	A16S	ATOM	21754	P	GUA	120	115.663	87.180	-14.077	1.00	47.25	A16S
ATOM	21702	C6	GUA	117	127.154	82.077	-15.531	1.00	30.60	A16S	ATOM	21755	O1P	GUA	120	114.639	88.243	-13.868	1.00	35.61	A16S
ATOM	21703	O6	GUA	117	126.772	81.258	-16.377	1.00	30.60	A16S	ATOM	21756	O2P	GUA	120	115.714	86.016	-13.151	1.00	35.61	A16S
ATOM	21704	C5	GUA	117	127.378	81.876	-14.159	1.00	30.60	A16S	ATOM	21757	O5	GUA	120	115.516	86.665	-15.578	1.00	47.25	A16S
ATOM	21705	N7	GUA	117	127.242	80.732	-13.390	1.00	30.60	A16S	ATOM	21758	C5	GUA	120	114.786	85.487	-15.903	1.00	47.25	A16S
ATOM	21706	O8	GUA	117	127.588	81.112	-12.188	1.00	30.60	A16S	ATOM	21759	C4	GUA	120	115.090	85.096	-17.318	1.00	47.25	A16S
ATOM	21707	C2	GUA	117	127.367	83.987	-10.267	1.00	41.92	A16S	ATOM	21760	O4	GUA	120	116.509	84.819	-17.422	1.00	47.25	A16S
ATOM	21708	O2	GUA	117	127.946	85.157	-9.726	1.00	41.92	A16S	ATOM	21761	C1	GUA	120	116.724	83.749	-18.337	1.00	47.25	A16S
ATOM	21709	C3	GUA	117	126.941	83.053	-9.152	1.00	41.92	A16S	ATOM	21762	N9	GUA	120	117.276	82.615	-17.601	1.00	35.61	A16S
ATOM	21710	O3	GUA	117	126.334	83.776	-8.105	1.00	41.92	A16S	ATOM	21763	C4	GUA	120	117.571	81.369	-18.115	1.00	35.61	A16S
ATOM	21711	P	URI	118	124.737	83.893	-8.068	1.00	33.28	A16S	ATOM	21764	N3	GUA	120	117.457	80.991	-19.406	1.00	35.61	A16S
ATOM	21712	O1P	URI	118	124.456	84.642	-6.824	1.00	31.53	A16S	ATOM	21765	C2	GUA	120	117.799	79.720	-19.585	1.00	35.61	A16S
ATOM	21713	O2P	URI	118	124.102	82.573	-8.300	1.00	31.53	A16S	ATOM	21766	N2	GUA	120	117.766	79.172	-20.812	1.00	35.61	A16S
ATOM	21714	O5	URI	118	124.787	84.787	-9.333	1.00	33.28	A16S	ATOM	21767	N1	GUA	120	118.201	78.894	-18.580	1.00	35.61	A16S
ATOM	21715	C5	URI	118	124.759	86.162	-9.348	1.00	33.28	A16S	ATOM	21768	C6	GUA	120	118.319	79.257	-17.247	1.00	35.61	A16S
ATOM	21716	O4	URI	118	124.425	86.762	-10.671	1.00	33.28	A16S	ATOM	21769	O6	GUA	120	118.684	78.421	-16.418	1.00	35.61	A16S
ATOM	21717	C1	URI	118	125.223	86.132	-11.700	1.00	33.28	A16S	ATOM	21770	C5	GUA	120	117.973	80.619	-17.040	1.00	35.61	A16S
ATOM	21718	N1	URI	118	124.379	84.722	-13.395	1.00	31.53	A16S	ATOM	21771	N7	GUA	120	117.973	80.619	-17.040	1.00	35.61	A16S
ATOM	21719	C6	URI	118	124.450	83.631	-12.542	1.00	31.53	A16S	ATOM	21772	C8	GUA	120	117.969	81.381	-15.878	1.00	35.61	A16S
ATOM	21720	C2	URI	118	124.182	84.546	-14.752	1.00	31.53	A16S	ATOM	21773	C2	GUA	120	117.557	82.556	-16.261	1.00	35.61	A16S
ATOM	21721	O2	URI	118	124.114	85.478	-15.538	1.00	31.53	A16S	ATOM	21774	O2	GUA	120	115.364	83.366	-18.922	1.00	47.25	A16S
ATOM	21722	N3	URI	118	124.062	83.240	-15.160	1.00	31.53	A16S	ATOM	21775	C3	GUA	120	115.167	84.001	-20.172	1.00	47.25	A16S
ATOM	21723	C4	URI	118	124.118	82.107	-14.371	1.00	31.53	A16S	ATOM	21776	O3	GUA	120	114.427	83.824	-17.812	1.00	47.25	A16S
ATOM	21724	O4	URI	118	124.065	80.995	-14.912	1.00	31.53	A16S	ATOM	21777	P	GUA	121	113.095	84.023	-18.246	1.00	51.23	A16S
ATOM	21725	C5	URI	118	124.324	82.363	-12.975	1.00	31.53	A16S	ATOM	21778	O2P	GUA	121	111.998	82.884	-17.954	1.00	51.23	A16S
ATOM	21726	C2	URI	118	123.138	86.752	-12.646	1.00	33.28	A16S	ATOM	21779	O5	GUA	121	110.652	83.458	-18.211	1.00	42.09	A16S
ATOM	21727	O3	URI	118	123.234	88.121	-12.996	1.00	33.28	A16S	ATOM	21780	C5	GUA	121	112.292	81.791	-19.074	1.00	51.23	A16S
ATOM	21728	C3	URI	118	123.006	86.545	-11.144	1.00	33.28	A16S	ATOM	21781	C5	GUA	121	112.349	82.159	-20.459	1.00	51.23	A16S
ATOM	21729	O3	URI	118	122.108	87.444	-10.528	1.00	33.28	A16S	ATOM	21782	C4	GUA	121	112.781	80.979	-21.292	1.00	51.23	A16S
ATOM	21730	C3	URI	118	120.589	86.983	-10.253	1.00	29.51	A16S	ATOM	21783	O4	GUA	121	114.136	80.610	-20.941	1.00	51.23	A16S
ATOM	21731	P	GUA	119	120.010	88.104	-9.466	1.00	44.13	A16S	ATOM	21784	C1	GUA	121	114.293	79.206	-21.047	1.00	51.23	A16S
ATOM	21732	O1P	GUA	119	120.557	85.599	-9.699	1.00	44.13	A16S	ATOM	21785	N9	GUA	121	114.643	78.685	-19.731	1.00	42.09	A16S
ATOM	21733	O2P	GUA	119	119.927	86.959	-11.701	1.00	29.51	A16S	ATOM	21786	C4	GUA	121	115.003	77.387	-19.440	1.00	42.09	A16S
ATOM	21734	O5	GUA	119	119.828	88.160	-12.450	1.00	29.51	A16S	ATOM	21787	N3	GUA	121	115.076	76.368	-20.323	1.00	42.09	A16S
ATOM	21735	C5	GUA	119	119.542	87.861	-13.889	1.00	29.51	A16S	ATOM	21788	C2	GUA	121	115.481	75.252	-19.752	1.00	42.09	A16S
ATOM	21736	O4	GUA	119	119.575	87.008	-14.444	1.00	29.51	A16S	ATOM	21789	N2	GUA	121	115.607	74.136	-20.483	1.00	42.09	A16S
ATOM	21737	C4	GUA	119	120.575	86.332	-15.577	1.00	29.51	A16S	ATOM	21790	N1	GUA	121	115.793	75.147	-18.424	1.00	42.09	A16S
ATOM	21738	C1	GUA	119	120.063	84.922	-15.499	1.00	44.13	A16S	ATOM	21791	C6	GUA	121	115.731	76.181	-17.501	1.00	42.09	A16S
ATOM	21739	N9	GUA	119	120.431	84.028	-16.548	1.00	44.13	A16S	ATOM	21792	O6	GUA	121	116.059	75.981	-16.329	1.00	42.09	A16S
ATOM	21740	C4	GUA	119	120.521	84.297	-17.850	1.00	44.13	A16S	ATOM	21793	C5	GUA	121	115.285	77.380	-18.093	1.00	42.09	A16S
ATOM	21741	N3	GUA	119	120.280	84.297	-17.850	1.00	44.13	A16S	ATOM	21794	N7	GUA	121	115.081	78.640	-17.538	1.00	42.09	A16S
ATOM	21742	C2	GUA	119	120.436	83.221	-18.613	1.00	44.13	A16S	ATOM	21795	C8	GUA	121	114.697	79.379	-18.543	1.00	42.09	A16S
ATOM	21743	N2	GUA	119	120.211	83.295	-19.926	1.00	44.13	A16S	ATOM	21796	C2	GUA	121	112.974	78.628	-21.541	1.00	51.23	A16S
ATOM	21744	N1	GUA	119	120.816	81.995	-18.137	1.00	44.13	A16S	ATOM	21797	O2	GUA	121	113.019	78.485	-22.944	1.00	51.23	A16S
ATOM	21745	C6	GUA	119	121.076	81.700	-16.803	1.00	44.13	A16S	ATOM	21798	C3	GUA	121	111.998	79.597	-21.082	1.00	51.23	A16S
ATOM	21746	O6	GUA	119	121.419	80.554	-16.477	1.00	44.13	A16S	ATOM	21799	O3	GUA	121	110.801	79.664	-21.816	1.00	51.23	A16S
ATOM	21747	C5	GUA	119	120.897	82.830	-15.976	1.00	44.13	A16S	ATOM	21800	P	URI	122	109.523	78.962	-21.171	1.00	53.37	A16S
ATOM	21748	N7	GUA	119	121.038	82.962	-14.606	1.00	44.13	A16S	ATOM	21801	O1P	URI	122	108.403	79.115	-22.127	1.00	43.45	A16S

Table 1 - 206/490



Table 1 - 207/490

ATOM	21802	O2P	URI	122	109.391	79.456	-19.780	1.00	43.45	A16s	ATOM	21855	N1	ADE	124	116.288	69.714	-22.101	1.00	55.27	A16s
ATOM	21803	O5'	URI	122	109.930	77.430	-21.127	1.00	53.37	A16s	ATOM	21856	C6	ADE	124	115.835	70.868	-22.627	1.00	55.27	A16s
ATOM	21804	C5'	URI	122	110.117	76.686	-22.336	1.00	53.37	A16s	ATOM	21857	N6	ADE	124	116.658	71.915	-22.668	1.00	55.27	A16s
ATOM	21805	C4'	URI	122	110.350	75.235	-22.010	1.00	53.37	A16s	ATOM	21858	C5	ADE	124	114.515	70.895	-23.110	1.00	55.27	A16s
ATOM	21806	O4'	URI	122	111.605	75.070	-21.309	1.00	53.37	A16s	ATOM	21859	N7	ADE	124	113.754	71.898	-23.696	1.00	55.27	A16s
ATOM	21807	C1'	URI	122	111.511	73.967	-20.436	1.00	53.37	A16s	ATOM	21860	C8	ADE	124	112.607	71.320	-23.948	1.00	55.27	A16s
ATOM	21808	N1	URI	122	111.966	74.374	-19.101	1.00	43.45	A16s	ATOM	21861	C2'	ADE	124	110.127	69.526	-23.131	1.00	47.63	A16s
ATOM	21809	C6	URI	122	111.725	75.637	-18.608	1.00	43.45	A16s	ATOM	21862	O2'	ADE	124	110.077	69.235	-21.752	1.00	47.63	A16s
ATOM	21810	C2	URI	122	112.647	73.430	-18.345	1.00	43.45	A16s	ATOM	21863	C3'	ADE	124	109.102	68.806	-24.008	1.00	47.63	A16s
ATOM	21811	O2	URI	122	112.901	72.301	-18.747	1.00	43.45	A16s	ATOM	21864	O3'	ADE	124	108.889	67.447	-23.620	1.00	47.63	A16s
ATOM	21812	N2	URI	122	113.025	73.858	-17.098	1.00	43.45	A16s	ATOM	21865	P	CYT	125	107.714	67.079	-22.580	1.00	51.74	A16s
ATOM	21813	C4'	URI	122	112.803	75.103	-16.541	1.00	43.45	A16s	ATOM	21866	O1P	CYT	125	107.683	65.595	-22.481	1.00	40.27	A16s
ATOM	21814	O4	URI	122	113.154	75.312	-15.377	1.00	43.45	A16s	ATOM	21867	O2P	CYT	125	106.479	67.809	-22.962	1.00	40.27	A16s
ATOM	21815	C5	URI	122	112.112	76.022	-17.389	1.00	43.45	A16s	ATOM	21868	O5'	CYT	125	108.258	67.671	-21.201	1.00	51.74	A16s
ATOM	21816	C2'	URI	122	110.077	73.436	-20.480	1.00	53.37	A16s	ATOM	21869	C5'	CYT	125	107.819	67.159	-19.940	1.00	51.74	A16s
ATOM	21817	O2'	URI	122	110.042	72.290	-21.305	1.00	53.37	A16s	ATOM	21870	C4'	CYT	125	108.948	66.440	-19.240	1.00	51.74	A16s
ATOM	21818	C3'	URI	122	109.321	74.611	-21.086	1.00	53.37	A16s	ATOM	21871	O4'	CYT	125	110.126	67.279	-17.195	1.00	51.74	A16s
ATOM	21819	O3'	URI	122	108.216	74.182	-21.860	1.00	53.37	A16s	ATOM	21872	C1'	CYT	125	110.798	67.100	-17.958	1.00	51.74	A16s
ATOM	21820	P	GUA	123	106.746	74.138	-21.219	1.00	58.02	A16s	ATOM	21873	N1	CYT	125	110.815	68.392	-17.242	1.00	40.27	A16s
ATOM	21821	O1P	GUA	123	106.157	75.494	-21.303	1.00	50.95	A16s	ATOM	21874	C6	CYT	125	110.058	69.439	-17.678	1.00	40.27	A16s
ATOM	21822	O2P	GUA	123	106.860	73.466	-19.893	1.00	50.95	A16s	ATOM	21875	C2	CYT	125	111.605	68.528	-16.090	1.00	40.27	A16s
ATOM	21823	O5'	GUA	123	105.961	73.205	-22.247	1.00	58.02	A16s	ATOM	21876	O2	CYT	125	112.337	67.597	-15.741	1.00	40.27	A16s
ATOM	21824	C5'	GUA	123	106.649	72.146	-22.955	1.00	58.02	A16s	ATOM	21877	N3	CYT	125	111.562	69.678	-15.395	1.00	40.27	A16s
ATOM	21825	O4'	GUA	123	106.582	72.397	-24.436	1.00	58.02	A16s	ATOM	21878	C4	CYT	125	110.803	70.685	-15.818	1.00	40.27	A16s
ATOM	21826	C4'	GUA	123	105.183	72.585	-24.729	1.00	58.02	A16s	ATOM	21879	N4	CYT	125	110.787	71.801	-15.089	1.00	40.27	A16s
ATOM	21827	C1'	GUA	123	105.040	73.506	-25.781	1.00	58.02	A16s	ATOM	21880	C5	CYT	125	110.025	70.593	-17.005	1.00	40.27	A16s
ATOM	21828	N9	GUA	123	103.869	74.344	-25.530	1.00	50.95	A16s	ATOM	21881	C2'	CYT	125	110.052	66.017	-17.179	1.00	51.74	A16s
ATOM	21829	C4	GUA	123	102.806	74.539	-26.389	1.00	50.95	A16s	ATOM	21882	O2'	CYT	125	110.644	64.757	-17.414	1.00	51.74	A16s
ATOM	21830	N3	GUA	123	102.641	73.958	-27.597	1.00	50.95	A16s	ATOM	21883	O3'	CYT	125	108.663	66.110	-17.786	1.00	51.74	A16s
ATOM	21831	C2	GUA	123	101.528	74.350	-28.187	1.00	50.95	A16s	ATOM	21884	C3'	CYT	125	107.932	64.904	-17.661	1.00	51.74	A16s
ATOM	21832	N2	GUA	123	101.199	73.863	-29.393	1.00	50.95	A16s	ATOM	21885	P	CYT	126	106.868	64.744	-16.475	1.00	50.94	A16s
ATOM	21833	N1	GUA	123	100.653	75.245	-27.638	1.00	50.95	A16s	ATOM	21886	O1P	CYT	126	106.018	63.610	-16.899	1.00	54.61	A16s
ATOM	21834	C6	GUA	123	100.802	75.857	-26.396	1.00	50.95	A16s	ATOM	21887	O2P	CYT	126	106.251	66.054	-16.160	1.00	54.61	A16s
ATOM	21835	O6	GUA	123	99.948	76.662	-25.992	1.00	50.95	A16s	ATOM	21888	O5'	CYT	126	107.740	64.287	-15.227	1.00	50.94	A16s
ATOM	21836	C5	GUA	123	101.983	75.438	-25.751	1.00	50.95	A16s	ATOM	21889	C5'	CYT	126	108.409	63.022	-15.243	1.00	50.94	A16s
ATOM	21837	N7	GUA	123	102.497	75.784	-24.508	1.00	50.95	A16s	ATOM	21890	C4'	CYT	126	109.373	62.929	-14.098	1.00	50.94	A16s
ATOM	21838	C8	GUA	123	103.611	75.107	-24.417	1.00	50.95	A16s	ATOM	21891	O4'	CYT	126	110.308	64.020	-14.213	1.00	50.94	A16s
ATOM	21839	C2'	GUA	123	106.368	74.241	-26.006	1.00	58.02	A16s	ATOM	21892	C1'	CYT	126	110.709	64.437	-12.922	1.00	50.94	A16s
ATOM	21840	O2'	GUA	123	106.814	74.056	-27.325	1.00	58.02	A16s	ATOM	21893	N1	CYT	126	110.376	65.852	-12.752	1.00	54.61	A16s
ATOM	21841	C3'	GUA	123	107.262	73.684	-24.897	1.00	58.02	A16s	ATOM	21894	C6	CYT	126	109.497	66.480	-13.588	1.00	54.61	A16s
ATOM	21842	O3'	GUA	123	108.694	73.581	-25.181	1.00	58.02	A16s	ATOM	21895	O2	CYT	126	110.965	66.545	-11.693	1.00	54.61	A16s
ATOM	21843	P	ADE	124	109.277	72.540	-26.294	1.00	47.63	A16s	ATOM	21896	O2	CYT	126	111.782	65.952	-10.972	1.00	54.61	A16s
ATOM	21844	O1P	ADE	124	110.697	72.854	-26.469	1.00	55.27	A16s	ATOM	21897	N3	CYT	126	110.631	67.835	-11.483	1.00	54.61	A16s
ATOM	21845	O2P	ADE	124	108.437	72.380	-27.481	1.00	55.27	A16s	ATOM	21898	C4	CYT	126	109.758	68.433	-12.290	1.00	54.61	A16s
ATOM	21846	O5'	ADE	124	109.273	71.143	-25.551	1.00	47.63	A16s	ATOM	21899	N4	CYT	126	109.443	69.698	-12.036	1.00	54.61	A16s
ATOM	21847	C5'	ADE	124	109.336	69.916	-26.286	1.00	47.63	A16s	ATOM	21900	C5	CYT	126	109.162	67.756	-13.394	1.00	54.61	A16s
ATOM	21848	C4'	ADE	124	109.777	68.805	-25.372	1.00	47.63	A16s	ATOM	21901	C2'	CYT	126	109.976	63.582	-11.892	1.00	50.94	A16s
ATOM	21849	O4'	ADE	124	111.201	68.931	-25.128	1.00	47.63	A16s	ATOM	21902	O2'	CYT	126	110.843	62.571	-11.416	1.00	50.94	A16s
ATOM	21850	C1'	ADE	124	111.445	69.064	-23.746	1.00	47.63	A16s	ATOM	21903	C3'	CYT	126	108.787	63.079	-12.701	1.00	50.94	A16s
ATOM	21851	N9	ADE	124	112.559	70.001	-23.574	1.00	55.27	A16s	ATOM	21904	O3'	CYT	126	108.281	61.847	-12.188	1.00	50.94	A16s
ATOM	21852	C4	ADE	124	113.790	69.725	-23.017	1.00	55.27	A16s	ATOM	21905	P	URI	127	107.069	61.858	-11.132	1.00	52.34	A16s
ATOM	21853	N3	ADE	124	114.218	68.558	-22.503	1.00	55.27	A16s	ATOM	21906	O1P	URI	127	106.762	60.453	-10.790	1.00	38.67	A16s
ATOM	21854	C2	ADE	124	115.471	68.662	-22.075	1.00	55.27	A16s	ATOM	21907	O2P	URI	127	105.996	62.729	-11.697	1.00	38.67	A16s

Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	Al6S	
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Table 1 - 208/490



Table 1 - 209/490

ATOM	22014	C1' GUA	132	94.244	70.347	-0.958	1.00 68.45	A16S	ATOM	22067	N6 ADE	134	92.069	61.027	-4.069	1.00 60.19	A16S
ATOM	22015	N9 GUA	132	94.867	69.132	-1.465	1.00 54.30	A16S	ATOM	22068	C5 ADE	134	90.274	62.334	-4.996	1.00 60.19	A16S
ATOM	22016	C4' GUA	132	94.826	68.689	-2.763	1.00 54.30	A16S	ATOM	22069	N7 ADE	134	89.915	63.205	-3.977	1.00 60.19	A16S
ATOM	22017	N3 GUA	132	94.218	69.312	-3.791	1.00 54.30	A16S	ATOM	22070	C8 ADE	134	88.950	63.921	-4.503	1.00 60.19	A16S
ATOM	22018	C2 GUA	132	94.307	68.615	-4.915	1.00 54.30	A16S	ATOM	22071	C2' ADE	134	86.330	63.339	-6.626	1.00 80.54	A16S
ATOM	22019	N2 GUA	132	93.710	69.063	-6.031	1.00 54.30	A16S	ATOM	22072	O2' ADE	134	85.756	63.251	-7.916	1.00 80.54	A16S
ATOM	22020	N1 GUA	132	94.970	67.419	-5.025	1.00 54.30	A16S	ATOM	22073	C3' ADE	134	85.506	64.155	-5.638	1.00 80.54	A16S
ATOM	22021	C6 GUA	132	95.606	66.758	-3.978	1.00 54.30	A16S	ATOM	22074	O3' ADE	134	84.121	63.931	-5.776	1.00 80.54	A16S
ATOM	22022	O6 GUA	132	96.164	65.669	-4.180	1.00 54.30	A16S	ATOM	22075	P ADE	135	83.399	62.903	-4.781	1.00 88.65	A16S
ATOM	22023	C5 GUA	132	95.499	67.485	-2.761	1.00 54.30	A16S	ATOM	22076	O1P ADE	135	81.942	63.032	-5.027	1.00 53.06	A16S
ATOM	22024	N2' GUA	132	95.970	67.185	-1.490	1.00 54.30	A16S	ATOM	22077	O2P ADE	135	83.938	63.135	-3.417	1.00 53.06	A16S
ATOM	22025	C8 GUA	132	95.579	68.192	-0.755	1.00 54.30	A16S	ATOM	22078	O5' ADE	135	83.895	61.472	-5.283	1.00 88.65	A16S
ATOM	22026	C2' GUA	132	92.737	70.145	-0.785	1.00 68.45	A16S	ATOM	22079	C5' ADE	135	83.511	60.984	-6.582	1.00 88.65	A16S
ATOM	22027	O2' GUA	132	92.029	71.290	-1.224	1.00 68.45	A16S	ATOM	22080	C4' ADE	135	84.314	59.760	-6.969	1.00 88.65	A16S
ATOM	22028	C3' GUA	132	92.630	69.896	0.717	1.00 68.45	A16S	ATOM	22081	O4' ADE	135	85.723	60.099	-7.102	1.00 88.65	A16S
ATOM	22029	O3' GUA	132	91.340	70.170	1.230	1.00 68.45	A16S	ATOM	22082	C1' ADE	135	86.510	58.944	-6.851	1.00 88.65	A16S
ATOM	22030	P GUA	133	90.268	68.980	1.315	1.00 70.31	A16S	ATOM	22083	N9 ADE	135	87.382	59.175	-5.695	1.00 53.06	A16S
ATOM	22031	O1P GUA	133	89.118	69.536	2.066	1.00 66.44	A16S	ATOM	22084	C4 ADE	135	88.479	58.401	-5.369	1.00 53.06	A16S
ATOM	22032	O2P GUA	133	90.938	67.740	1.814	1.00 66.44	A16S	ATOM	22085	N3 ADE	135	88.973	57.344	-6.052	1.00 53.06	A16S
ATOM	22033	O5' GUA	133	89.859	68.764	-0.210	1.00 70.31	A16S	ATOM	22086	C2 ADE	135	90.039	56.842	-5.433	1.00 53.06	A16S
ATOM	22034	C5' GUA	133	89.280	69.843	-0.955	1.00 70.31	A16S	ATOM	22087	N1 ADE	135	90.622	57.235	-4.293	1.00 53.06	A16S
ATOM	22035	C4' GUA	133	89.099	69.466	-2.405	1.00 70.31	A16S	ATOM	22088	C6 ADE	135	90.103	58.291	-3.629	1.00 53.06	A16S
ATOM	22036	O4' GUA	133	90.390	69.320	-3.049	1.00 70.31	A16S	ATOM	22089	N6 ADE	135	90.677	58.670	-2.487	1.00 53.06	A16S
ATOM	22037	C1' GUA	133	90.295	68.367	-4.100	1.00 70.31	A16S	ATOM	22090	C5 ADE	135	88.974	58.927	-4.186	1.00 53.06	A16S
ATOM	22038	N9 GUA	133	91.215	67.259	-3.834	1.00 66.44	A16S	ATOM	22091	N7 ADE	135	88.220	60.026	-3.783	1.00 53.06	A16S
ATOM	22039	C4 GUA	133	91.667	66.336	-4.759	1.00 66.44	A16S	ATOM	22092	C8 ADE	135	87.294	60.133	-4.709	1.00 53.06	A16S
ATOM	22040	N3 GUA	133	91.371	66.321	-6.078	1.00 66.44	A16S	ATOM	22093	C2' ADE	135	85.551	57.799	-6.547	1.00 88.65	A16S
ATOM	22041	C2 GUA	133	91.922	65.291	-6.699	1.00 66.44	A16S	ATOM	22094	O2' ADE	135	85.287	57.085	-7.742	1.00 88.65	A16S
ATOM	22042	N2 GUA	133	91.716	65.116	-8.010	1.00 66.44	A16S	ATOM	22095	C3' ADE	135	84.333	58.555	-6.038	1.00 88.65	A16S
ATOM	22043	N1 GUA	133	92.711	64.354	-6.081	1.00 66.44	A16S	ATOM	22096	O3' ADE	135	83.179	57.734	-6.089	1.00 88.65	A16S
ATOM	22044	C6 GUA	133	93.035	64.347	-4.728	1.00 66.44	A16S	ATOM	22097	P GUA	136	82.860	56.747	-4.850	1.00 89.43	A16S
ATOM	22045	O6 GUA	133	93.756	63.448	-4.272	1.00 66.44	A16S	ATOM	22098	O1P GUA	136	81.503	56.203	-5.107	1.00 51.27	A16S
ATOM	22046	C5 GUA	133	92.443	65.449	-4.043	1.00 66.44	A16S	ATOM	22099	O2P GUA	136	83.137	57.440	-3.567	1.00 51.27	A16S
ATOM	22047	N7 GUA	133	92.502	65.816	-2.702	1.00 66.44	A16S	ATOM	22100	O5' GUA	136	83.928	55.567	-4.987	1.00 89.43	A16S
ATOM	22048	C8 GUA	133	91.769	66.896	-2.625	1.00 66.44	A16S	ATOM	22101	C5' GUA	136	84.002	54.769	-6.187	1.00 89.43	A16S
ATOM	22049	C2' GUA	133	88.848	67.873	-4.138	1.00 70.31	A16S	ATOM	22102	C4' GUA	136	85.198	53.837	-6.145	1.00 89.43	A16S
ATOM	22050	O2' GUA	133	88.135	68.592	-5.121	1.00 70.31	A16S	ATOM	22103	O4' GUA	136	86.431	54.603	-6.073	1.00 89.43	A16S
ATOM	22051	C3' GUA	133	88.383	68.162	-2.714	1.00 70.31	A16S	ATOM	22104	C1' GUA	136	87.396	53.885	-5.321	1.00 89.43	A16S
ATOM	22052	O3' GUA	133	86.969	68.265	-2.617	1.00 70.31	A16S	ATOM	22105	N9 GUA	136	87.735	54.660	-4.133	1.00 51.27	A16S
ATOM	22053	P ADE	134	86.094	66.955	-2.271	1.00 80.54	A16S	ATOM	22106	C4 GUA	136	88.805	54.446	-3.296	1.00 51.27	A16S
ATOM	22054	O1P ADE	134	84.708	67.450	-2.102	1.00 60.19	A16S	ATOM	22107	N3 GUA	136	89.738	53.477	-3.432	1.00 51.27	A16S
ATOM	22055	O2P ADE	134	86.722	66.163	-1.178	1.00 60.19	A16S	ATOM	22108	C2 GUA	136	90.649	53.531	-2.476	1.00 51.27	A16S
ATOM	22056	O5' ADE	134	86.174	66.078	-3.600	1.00 80.54	A16S	ATOM	22109	N2 GUA	136	91.653	52.634	-2.456	1.00 51.27	A16S
ATOM	22057	C5' ADE	134	85.695	66.590	-4.852	1.00 80.54	A16S	ATOM	22110	N1 GUA	136	90.641	54.466	-1.472	1.00 51.27	A16S
ATOM	22058	O4' ADE	134	85.916	65.580	-5.951	1.00 80.54	A16S	ATOM	22111	C6 GUA	136	89.688	55.475	-1.323	1.00 51.27	A16S
ATOM	22059	C4' ADE	134	87.329	65.470	-6.260	1.00 80.54	A16S	ATOM	22112	O6 GUA	136	89.777	56.282	-0.386	1.00 51.27	A16S
ATOM	22060	C1' ADE	134	87.625	64.145	-6.683	1.00 80.54	A16S	ATOM	22113	C5 GUA	136	88.714	55.421	-2.329	1.00 51.27	A16S
ATOM	22061	N9 ADE	134	88.645	63.576	-5.801	1.00 60.19	A16S	ATOM	22114	N7 GUA	136	87.613	56.231	-2.548	1.00 51.27	A16S
ATOM	22062	C4 ADE	134	89.499	62.549	-6.125	1.00 60.19	A16S	ATOM	22115	C8 GUA	136	87.061	55.744	-3.624	1.00 51.27	A16S
ATOM	22063	N3 ADE	134	89.572	61.884	-7.292	1.00 60.19	A16S	ATOM	22116	C2' GUA	136	86.777	52.547	-4.938	1.00 89.43	A16S
ATOM	22064	C2 ADE	134	90.524	60.956	-7.242	1.00 60.19	A16S	ATOM	22117	O2' GUA	136	87.127	51.596	-5.918	1.00 89.43	A16S
ATOM	22065	N1 ADE	134	91.351	60.642	-6.234	1.00 60.19	A16S	ATOM	22118	C3' GUA	136	85.290	52.877	-4.971	1.00 89.43	A16S
ATOM	22066	C6 ADE	134	91.247	61.330	-5.074	1.00 60.19	A16S	ATOM	22119	O3' GUA	136	84.511	51.705	-5.169	1.00 89.43	A16S

ATOM	22120	P	137	84.077	50.817	-3.897	1.00	89.56	Al6S	22173	N9	GUA	139	87.349	39.025	-6.388	1.00	78.42	Al6:
ATOM	22121	O1P	137	83.051	49.882	-4.429	1.00	70.40	Al6S	22174	C4	GUA	139	88.531	38.921	-7.094	1.00	78.42	Al6:
ATOM	22122	O2P	137	83.754	51.697	-2.739	1.00	70.40	Al6S	22175	N3	GUA	139	88.754	38.122	-8.160	1.00	78.42	Al6:
ATOM	22123	O5	137	85.388	50.008	-3.495	1.00	89.56	Al6S	22176	C2	GUA	139	89.996	38.221	-8.599	1.00	78.42	Al6:
ATOM	22124	C5	137	85.958	49.046	-4.387	1.00	89.56	Al6S	22177	N2	GUA	139	90.387	37.498	-9.651	1.00	78.42	Al6:
ATOM	22125	C4	137	87.223	48.475	-3.800	1.00	89.56	Al6S	22178	N1	GUA	139	90.946	39.037	-8.035	1.00	78.42	Al6:
ATOM	22126	O4	137	88.205	49.527	-3.630	1.00	89.56	Al6S	22179	C6	GUA	139	90.739	39.866	-6.936	1.00	78.42	Al6:
ATOM	22127	C1	137	89.017	49.247	-2.505	1.00	89.56	Al6S	22180	O6	GUA	139	91.669	40.557	-6.495	1.00	78.42	Al6:
ATOM	22128	N9	137	88.888	50.346	-1.552	1.00	70.40	Al6S	22181	C5	GUA	139	89.410	39.775	-6.460	1.00	78.42	Al6:
ATOM	22129	O6	137	89.725	50.597	-0.491	1.00	70.40	Al6S	22182	N7	GUA	139	88.791	40.425	-5.402	1.00	78.42	Al6:
ATOM	22130	N3	137	90.816	49.897	-0.126	1.00	70.40	Al6S	22183	C8	GUA	139	87.570	39.958	-5.402	1.00	78.42	Al6:
ATOM	22131	C2	137	91.375	50.428	0.965	1.00	70.40	Al6S	22184	C2	GUA	139	86.295	36.866	-5.983	1.00	92.65	Al6:
ATOM	22132	N1	137	90.994	51.501	1.677	1.00	70.40	Al6S	22185	O2	GUA	139	85.628	35.891	-6.762	1.00	92.65	Al6:
ATOM	22133	C6	137	89.890	52.181	1.283	1.00	70.40	Al6S	22186	C3	GUA	139	85.648	37.066	-4.618	1.00	92.65	Al6:
ATOM	22134	N6	137	89.503	53.247	1.994	1.00	70.40	Al6S	22187	O3	GUA	139	85.252	35.817	-4.079	1.00	92.65	Al6:
ATOM	22135	C5	137	89.209	51.717	0.138	1.00	70.40	Al6S	22188	P	GUA	140	86.339	34.901	-3.318	1.00	90.09	Al6:
ATOM	22136	N7	137	88.073	52.168	-0.519	1.00	70.40	Al6S	22189	O1P	GUA	140	85.594	33.692	-2.883	1.00	75.94	Al6:
ATOM	22137	C8	137	87.926	51.325	-1.511	1.00	70.40	Al6S	22190	O2P	GUA	140	87.059	35.720	-2.305	1.00	75.94	Al6:
ATOM	22138	O2	137	88.547	47.920	-1.917	1.00	89.56	Al6S	22191	O5	GUA	140	87.391	34.480	-4.449	1.00	90.09	Al6:
ATOM	22139	C2	137	89.355	46.898	-2.461	1.00	89.56	Al6S	22192	C5	GUA	140	87.033	33.540	-5.486	1.00	90.09	Al6:
ATOM	22140	C3	137	87.112	47.848	-2.422	1.00	89.56	Al6S	22193	C4	GUA	140	88.172	33.348	-6.472	1.00	90.09	Al6:
ATOM	22141	O3	137	86.639	46.512	-2.506	1.00	89.56	Al6S	22194	O4	GUA	140	88.533	34.626	-7.061	1.00	90.09	Al6:
ATOM	22142	P	138	85.956	45.824	-1.225	1.00	100.65	Al6S	22195	C1	GUA	140	89.909	34.615	-7.421	1.00	90.09	Al6:
ATOM	22143	O1P	138	84.964	46.763	-0.629	1.00	74.98	Al6S	22196	N9	GUA	140	90.623	35.639	-6.663	1.00	75.94	Al6:
ATOM	22144	O2P	138	87.050	45.282	-0.380	1.00	74.98	Al6S	22197	C4	GUA	140	91.909	36.057	-6.894	1.00	75.94	Al6:
ATOM	22145	O5	138	85.166	44.602	-1.862	1.00	100.65	Al6S	22198	N3	GUA	140	92.707	35.632	-7.891	1.00	75.94	Al6:
ATOM	22146	C5	138	83.763	44.697	-2.148	1.00	100.65	Al6S	22199	C2	GUA	140	93.893	36.196	-7.845	1.00	75.94	Al6:
ATOM	22147	C4	138	83.415	43.824	-3.324	1.00	100.65	Al6S	22200	N2	GUA	140	94.804	35.881	-8.767	1.00	75.94	Al6:
ATOM	22148	O4	138	83.841	44.468	-4.550	1.00	100.65	Al6S	22201	N1	GUA	140	94.270	37.110	-8.892	1.00	75.94	Al6:
ATOM	22149	C1	138	84.269	43.486	-5.480	1.00	100.65	Al6S	22202	C6	GUA	140	93.460	37.566	-5.855	1.00	75.94	Al6:
ATOM	22150	N9	138	85.676	43.730	-5.790	1.00	74.98	Al6S	22203	O6	GUA	140	93.891	38.399	-5.046	1.00	75.94	Al6:
ATOM	22151	C4	138	86.407	43.117	-6.784	1.00	74.98	Al6S	22204	C5	GUA	140	92.185	36.964	-5.897	1.00	75.94	Al6:
ATOM	22152	N3	138	85.936	42.209	-7.669	1.00	74.98	Al6S	22205	N7	GUA	140	91.087	37.134	-5.068	1.00	75.94	Al6:
ATOM	22153	C2	138	86.885	41.765	-8.474	1.00	74.98	Al6S	22206	C8	GUA	140	90.181	36.337	-5.566	1.00	75.94	Al6:
ATOM	22154	N2	138	86.587	40.852	-9.406	1.00	74.98	Al6S	22207	C2	GUA	140	90.472	33.248	-7.047	1.00	90.09	Al6:
ATOM	22155	N1	138	88.194	42.180	-8.422	1.00	74.98	Al6S	22208	O2	GUA	140	90.476	32.401	-8.178	1.00	90.09	Al6:
ATOM	22156	C6	138	88.706	43.113	-7.520	1.00	74.98	Al6S	22209	C3	GUA	140	89.501	32.802	-5.963	1.00	90.09	Al6:
ATOM	22157	O6	138	89.915	43.408	-7.548	1.00	74.98	Al6S	22210	O3	GUA	140	89.543	31.391	-5.838	1.00	90.09	Al6:
ATOM	22158	C5	138	87.692	43.603	-6.646	1.00	74.98	Al6S	22211	P	GUA	141	90.697	30.709	-4.944	1.00	75.72	Al6:
ATOM	22159	N7	138	87.763	44.527	-5.609	1.00	74.98	Al6S	22212	O1P	GUA	141	90.321	29.277	-4.803	1.00	78.35	Al6:
ATOM	22160	C8	138	86.545	44.577	-5.137	1.00	74.98	Al6S	22213	O2P	GUA	141	90.931	31.532	-3.728	1.00	78.35	Al6:
ATOM	22161	C2	138	84.066	42.111	-4.836	1.00	100.65	Al6S	22214	O5	GUA	141	92.016	30.801	-5.835	1.00	75.72	Al6:
ATOM	22162	O2	138	82.844	41.542	-5.261	1.00	100.65	Al6S	22215	C5	GUA	141	92.158	30.010	-7.020	1.00	75.72	Al6:
ATOM	22163	C3	138	84.085	42.459	-3.352	1.00	100.65	Al6S	22216	C4	GUA	141	93.449	30.341	-7.729	1.00	75.72	Al6:
ATOM	22164	O3	138	83.424	41.498	-2.536	1.00	100.65	Al6S	22217	O4	GUA	141	93.486	31.763	-8.039	1.00	75.72	Al6:
ATOM	22165	P	139	84.286	40.356	-1.793	1.00	92.65	Al6S	22218	C1	GUA	141	94.828	32.227	-8.003	1.00	75.72	Al6:
ATOM	22166	O1P	139	83.325	39.590	-0.956	1.00	78.42	Al6S	22219	N9	GUA	141	94.977	33.185	-6.908	1.00	78.35	Al6:
ATOM	22167	O2P	139	85.467	40.985	-1.145	1.00	78.42	Al6S	22220	C4	GUA	141	96.111	33.912	-6.620	1.00	78.35	Al6:
ATOM	22168	O5	139	84.782	39.427	-2.998	1.00	92.65	Al6S	22221	N3	GUA	141	97.265	33.897	-7.328	1.00	78.35	Al6:
ATOM	22169	C5	139	83.818	38.769	-3.847	1.00	92.65	Al6S	22222	C2	GUA	141	98.183	34.685	-6.795	1.00	78.35	Al6:
ATOM	22170	C4	139	84.490	37.989	-4.957	1.00	92.65	Al6S	22223	N2	GUA	141	99.392	34.788	-7.373	1.00	78.35	Al6:
ATOM	22171	O4	139	85.038	38.883	-5.962	1.00	92.65	Al6S	22224	N1	GUA	141	97.982	35.428	-5.656	1.00	78.35	Al6:
ATOM	22172	C1	139	86.131	38.249	-6.615	1.00	92.65	Al6S	22225	C6	GUA	141	96.806	35.457	-4.912	1.00	78.35	Al6:

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ATOM	22226	O6	GUA	141	96.737	36.157	-3.895	1.00	78.35	Al6S	ATOM	22279	P	CYT	144	108.194	27.890	-4.520	1.00	53.75	Al6
ATOM	22227	C5	GUA	141	95.812	34.618	-5.476	1.00	78.35	Al6S	ATOM	22280	O1P	CYT	144	109.097	27.012	-5.315	1.00	63.41	Al6
ATOM	22228	N7	GUA	141	94.512	34.363	-5.065	1.00	78.35	Al6S	ATOM	22281	O2P	CYT	144	107.321	27.288	-3.469	1.00	63.41	Al6
ATOM	22229	C8	GUA	141	94.054	33.514	-5.945	1.00	78.35	Al6S	ATOM	22282	O5	CYT	144	109.087	29.020	-3.829	1.00	53.75	Al6
ATOM	22230	C2	GUA	141	95.706	31.016	-7.722	1.00	75.72	Al6S	ATOM	22283	C5	CYT	144	109.909	29.925	-4.601	1.00	53.75	Al6
ATOM	22231	O2	GUA	141	96.114	30.456	-8.951	1.00	75.72	Al6S	ATOM	22284	C4	CYT	144	110.448	31.009	-3.701	1.00	53.75	Al6
ATOM	22232	C3	GUA	141	94.741	30.117	-6.967	1.00	75.72	Al6S	ATOM	22285	O4	CYT	144	109.361	31.850	-3.242	1.00	53.75	Al6
ATOM	22233	O3	GUA	141	95.181	28.774	-6.953	1.00	75.72	Al6S	ATOM	22286	C1	CYT	144	109.594	32.249	-1.899	1.00	53.75	Al6
ATOM	22234	P	GUA	142	96.150	28.282	-5.764	1.00	79.85	Al6S	ATOM	22287	N1	CYT	144	108.422	31.895	-1.073	1.00	63.41	Al6
ATOM	22235	O1P	GUA	142	96.347	26.821	-5.905	1.00	67.51	Al6S	ATOM	22288	C6	CYT	144	107.655	30.799	-1.357	1.00	63.41	Al6
ATOM	22236	O2P	GUA	142	95.646	28.840	-4.481	1.00	67.51	Al6S	ATOM	22289	C2	CYT	144	108.095	32.717	0.006	1.00	63.41	Al6
ATOM	22237	O5	GUA	142	97.549	28.977	-6.068	1.00	79.85	Al6S	ATOM	22290	O2	CYT	144	108.813	33.691	0.256	1.00	63.41	Al6
ATOM	22238	C5	GUA	142	98.210	28.787	-7.326	1.00	79.85	Al6S	ATOM	22291	N3	CYT	144	107.006	32.433	0.749	1.00	63.41	Al6
ATOM	22239	C4	GUA	142	99.481	29.603	-7.382	1.00	79.85	Al6S	ATOM	22292	N4	CYT	144	106.256	31.376	0.452	1.00	63.41	Al6
ATOM	22240	O4	GUA	142	99.179	31.019	-7.273	1.00	79.85	Al6S	ATOM	22293	N4	CYT	144	105.182	31.146	1.205	1.00	63.41	Al6
ATOM	22241	C1	GUA	142	100.239	31.682	-6.603	1.00	79.85	Al6S	ATOM	22294	C5	CYT	144	106.571	30.509	-0.631	1.00	63.41	Al6
ATOM	22242	N9	GUA	142	99.710	32.327	-5.406	1.00	67.51	Al6S	ATOM	22295	O2	CYT	144	110.907	31.628	-1.433	1.00	53.75	Al6
ATOM	22243	C4	GUA	142	100.356	33.253	-4.618	1.00	67.51	Al6S	ATOM	22296	C2	CYT	144	111.936	32.592	-1.473	1.00	53.75	Al6
ATOM	22244	N3	GUA	142	101.601	33.744	-4.818	1.00	67.51	Al6S	ATOM	22297	C3	CYT	144	111.087	30.488	-2.429	1.00	53.75	Al6
ATOM	22245	C2	GUA	142	101.934	34.632	-3.893	1.00	67.51	Al6S	ATOM	22298	O3	CYT	144	112.444	30.176	-2.651	1.00	53.75	Al6
ATOM	22246	N2	GUA	142	103.131	35.236	-3.936	1.00	67.51	Al6S	ATOM	22299	P	ADE	145	113.273	29.405	-1.519	1.00	43.89	Al6
ATOM	22247	N1	GUA	142	103.131	35.236	-3.936	1.00	67.51	Al6S	ATOM	22300	O1P	ADE	145	114.619	29.114	-2.087	1.00	51.15	Al6
ATOM	22248	C6	GUA	142	101.116	34.998	-2.858	1.00	67.51	Al6S	ATOM	22301	O2P	ADE	145	112.445	28.295	-0.958	1.00	51.15	Al6
ATOM	22249	O5	GUA	142	99.834	34.506	-2.638	1.00	67.51	Al6S	ATOM	22302	O5	ADE	145	113.431	30.502	-0.386	1.00	43.89	Al6
ATOM	22250	C6	GUA	142	99.172	34.912	-1.675	1.00	67.51	Al6S	ATOM	22303	C5	ADE	145	113.893	30.152	0.916	1.00	43.89	Al6
ATOM	22251	N7	GUA	142	98.464	33.562	-3.617	1.00	67.51	Al6S	ATOM	22304	C4	ADE	145	114.038	31.394	1.738	1.00	43.89	Al6
ATOM	22252	C8	GUA	142	98.285	32.848	-3.768	1.00	67.51	Al6S	ATOM	22305	O4	ADE	145	112.818	32.168	1.654	1.00	43.89	Al6
ATOM	22253	C2	GUA	142	101.300	30.637	-6.265	1.00	79.85	Al6S	ATOM	22306	C1	ADE	145	112.583	32.814	2.883	1.00	43.89	Al6
ATOM	22254	O2	GUA	142	102.287	30.654	-7.272	1.00	79.85	Al6S	ATOM	22307	N9	ADE	145	111.234	32.471	3.328	1.00	51.15	Al6
ATOM	22255	C3	GUA	142	100.485	29.351	-6.273	1.00	79.85	Al6S	ATOM	22308	C4	ADE	145	110.609	32.939	4.457	1.00	51.15	Al6
ATOM	22256	O3	GUA	142	101.289	28.219	-6.546	1.00	79.85	Al6S	ATOM	22309	N3	ADE	145	111.117	33.769	5.381	1.00	51.15	Al6
ATOM	22257	P	ADE	143	102.058	27.488	-5.342	1.00	67.15	Al6S	ATOM	22310	C2	ADE	145	110.221	34.023	6.325	1.00	51.15	Al6
ATOM	22258	O1P	ADE	143	102.288	26.086	-5.768	1.00	64.70	Al6S	ATOM	22311	N1	ADE	145	108.969	33.576	6.443	1.00	51.15	Al6
ATOM	22259	O2P	ADE	143	101.326	27.771	-4.070	1.00	64.70	Al6S	ATOM	22312	C6	ADE	145	108.488	32.741	5.499	1.00	51.15	Al6
ATOM	22260	O5	ADE	143	103.466	28.225	-5.274	1.00	67.15	Al6S	ATOM	22313	N6	ADE	145	107.236	32.294	5.621	1.00	51.15	Al6
ATOM	22261	C5	ADE	143	104.205	28.510	-6.473	1.00	67.15	Al6S	ATOM	22314	C5	ADE	145	109.342	32.392	4.441	1.00	51.15	Al6
ATOM	22262	C4	ADE	143	105.183	29.639	-6.233	1.00	67.15	Al6S	ATOM	22315	N7	ADE	145	109.172	31.577	3.330	1.00	51.15	Al6
ATOM	22263	O4	ADE	143	104.472	30.860	-5.906	1.00	67.15	Al6S	ATOM	22316	C8	ADE	145	110.321	31.653	2.708	1.00	51.15	Al6
ATOM	22264	C1	ADE	143	105.226	31.615	-4.978	1.00	67.15	Al6S	ATOM	22317	C2	ADE	145	113.719	32.441	3.840	1.00	43.89	Al6
ATOM	22265	N9	ADE	143	104.384	31.872	-3.810	1.00	64.70	Al6S	ATOM	22318	O2	ADE	145	114.671	33.478	3.825	1.00	43.89	Al6
ATOM	22266	C4	ADE	143	104.628	32.785	-2.813	1.00	64.70	Al6S	ATOM	22319	C3	ADE	145	114.264	31.164	3.212	1.00	43.89	Al6
ATOM	22267	N3	ADE	143	105.687	33.602	-2.693	1.00	64.70	Al6S	ATOM	22320	O3	ADE	145	115.650	30.987	3.449	1.00	43.89	Al6
ATOM	22268	C2	ADE	143	105.571	34.361	-1.611	1.00	64.70	Al6S	ATOM	22321	P	ADE	146	116.135	29.847	4.462	1.00	51.66	Al6
ATOM	22269	N1	ADE	143	104.589	34.399	-0.707	1.00	64.70	Al6S	ATOM	22322	O1P	ADE	146	117.571	30.060	4.786	1.00	46.56	Al6
ATOM	22270	C6	ADE	143	103.537	33.569	-0.861	1.00	64.70	Al6S	ATOM	22323	O2P	ADE	146	115.692	28.545	3.908	1.00	46.56	Al6
ATOM	22271	N6	ADE	143	102.547	33.618	0.028	1.00	64.70	Al6S	ATOM	22324	O5	ADE	146	115.285	30.157	5.771	1.00	51.66	Al6
ATOM	22272	C5	ADE	143	103.544	32.706	-1.959	1.00	64.70	Al6S	ATOM	22325	C5	ADE	146	115.423	31.420	6.429	1.00	51.66	Al6
ATOM	22273	N7	ADE	143	102.642	31.750	-2.396	1.00	64.70	Al6S	ATOM	22326	C4	ADE	146	114.334	31.611	7.451	1.00	51.66	Al6
ATOM	22274	C8	ADE	143	103.186	31.283	-3.491	1.00	64.70	Al6S	ATOM	22327	O4	ADE	146	113.043	31.682	6.803	1.00	51.66	Al6
ATOM	22275	C2	ADE	143	106.523	30.855	-4.684	1.00	67.15	Al6S	ATOM	22328	C1	ADE	146	112.042	31.360	7.746	1.00	51.66	Al6
ATOM	22276	O2	ADE	143	107.569	31.392	-5.470	1.00	67.15	Al6S	ATOM	22329	N9	ADE	146	111.076	30.445	7.145	1.00	46.56	Al6
ATOM	22277	C3	ADE	143	106.156	29.430	-5.087	1.00	67.15	Al6S	ATOM	22330	C4	ADE	146	109.819	30.225	7.649	1.00	46.56	Al6
ATOM	22278	O3	ADE	143	107.278	28.701	-5.556	1.00	67.15	Al6S	ATOM	22331	N3	ADE	146	109.265	30.808	8.727	1.00	46.56	Al6

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ATOM	22332	C2	ADE	146	108.036	30.340	8.934	1.00	46.56	A16S	ATOM	22385	O2P	CYT	149	116.828	19.930	10.268	1.00	83.28	A16
ATOM	22333	N1	ADE	146	107.348	29.423	8.242	1.00	46.56	A16S	ATOM	22386	O5'	CYT	149	116.214	17.926	8.912	1.00	73.72	A16
ATOM	22334	DE	ADE	146	107.936	28.854	7.164	1.00	46.56	A16S	ATOM	22387	C5'	CYT	149	115.531	16.689	8.641	1.00	73.72	A16
ATOM	22335	N6	ADE	146	107.253	27.932	6.481	1.00	46.56	A16S	ATOM	22388	C4'	CYT	149	115.806	16.215	7.228	1.00	73.72	A16
ATOM	22336	C5	ADE	146	109.243	29.269	6.831	1.00	46.56	A16S	ATOM	22389	O4'	CYT	149	115.133	17.068	6.264	1.00	73.72	A16
ATOM	22337	N7	ADE	146	110.118	28.900	5.814	1.00	46.56	A16S	ATOM	22390	C1'	CYT	149	115.884	17.096	5.052	1.00	73.72	A16
ATOM	22338	C8	ADE	146	111.187	29.629	6.040	1.00	46.56	A16S	ATOM	22391	N1	CYT	149	116.287	18.483	4.747	1.00	83.28	A16
ATOM	22339	C2'	ADE	146	112.734	30.778	8.982	1.00	51.66	A16S	ATOM	22392	C6	CYT	149	116.423	19.416	5.740	1.00	83.28	A16
ATOM	22340	O2'	ADE	146	112.741	31.723	10.036	1.00	51.66	A16S	ATOM	22393	C2	CYT	149	116.566	18.824	3.413	1.00	83.28	A16
ATOM	22341	C3'	ADE	146	114.136	30.500	8.460	1.00	51.66	A16S	ATOM	22394	O2	CYT	149	116.398	17.972	2.521	1.00	83.28	A16
ATOM	22342	DE	ADE	146	115.090	30.537	9.502	1.00	51.66	A16S	ATOM	22395	N3	CYT	149	117.007	20.067	3.131	1.00	83.28	A16
ATOM	22343	P	CYT	147	115.955	29.223	9.806	1.00	60.02	A16S	ATOM	22396	C4	CYT	149	117.165	20.957	4.114	1.00	83.28	A16
ATOM	22344	O1P	CYT	147	116.739	29.454	11.050	1.00	56.97	A16S	ATOM	22397	N4	CYT	149	117.633	22.161	3.794	1.00	83.28	A16
ATOM	22345	O2P	CYT	147	116.653	28.854	8.556	1.00	56.97	A16S	ATOM	22398	C5	CYT	149	117.123	16.223	5.243	1.00	73.72	A16
ATOM	22346	O5'	CYT	147	114.851	28.111	10.076	1.00	60.02	A16S	ATOM	22399	C2'	CYT	149	116.856	20.650	4.471	1.00	83.28	A16
ATOM	22347	C5'	CYT	147	114.058	28.145	11.275	1.00	60.02	A16S	ATOM	22400	O2'	CYT	149	116.924	14.954	4.660	1.00	73.72	A16
ATOM	22348	C4'	CYT	147	113.000	27.071	11.238	1.00	60.02	A16S	ATOM	22401	C3'	CYT	149	117.254	16.197	6.761	1.00	73.72	A16
ATOM	22349	O4'	CYT	147	112.006	27.386	10.232	1.00	60.02	A16S	ATOM	22402	O3'	CYT	149	117.976	15.060	7.184	1.00	73.72	A16
ATOM	22350	C1'	CYT	147	111.566	26.193	9.612	1.00	60.02	A16S	ATOM	22403	P	GUA	150	119.579	15.094	7.149	1.00	74.41	A16
ATOM	22351	N1	CYT	147	111.976	26.229	8.203	1.00	56.97	A16S	ATOM	22404	O1P	GUA	150	120.043	13.863	7.849	1.00	80.42	A16
ATOM	22352	C6	CYT	147	113.060	26.964	7.807	1.00	56.97	A16S	ATOM	22405	O2P	GUA	150	120.023	16.424	7.628	1.00	80.42	A16
ATOM	22353	C2	CYT	147	111.237	25.496	7.264	1.00	56.97	A16S	ATOM	22406	O5'	GUA	150	119.943	14.994	5.600	1.00	74.41	A16
ATOM	22354	O2	CYT	147	110.278	24.803	7.652	1.00	56.97	A16S	ATOM	22407	C5'	GUA	150	119.780	13.754	4.894	1.00	74.41	A16
ATOM	22355	N3	CYT	147	111.592	25.553	5.961	1.00	56.97	A16S	ATOM	22408	C4'	GUA	150	120.302	13.868	3.486	1.00	74.41	A16
ATOM	22356	C4	CYT	147	112.645	26.284	5.587	1.00	56.97	A16S	ATOM	22409	O4'	GUA	150	119.494	14.825	2.753	1.00	74.41	A16
ATOM	22357	N4	CYT	147	112.952	26.310	4.300	1.00	56.97	A16S	ATOM	22410	C1'	GUA	150	120.312	15.535	1.830	1.00	74.41	A16
ATOM	22358	C5	CYT	147	113.426	27.018	6.522	1.00	56.97	A16S	ATOM	22411	N9	GUA	150	120.375	16.941	2.239	1.00	80.42	A16
ATOM	22359	C2'	CYT	147	112.231	25.024	10.332	1.00	60.02	A16S	ATOM	22412	C4	GUA	150	120.845	17.989	1.475	1.00	80.42	A16
ATOM	22360	O2'	CYT	147	113.388	24.560	11.373	1.00	60.02	A16S	ATOM	22413	N3	GUA	150	121.290	17.906	0.201	1.00	80.42	A16
ATOM	22361	C3'	CYT	147	113.492	25.683	10.863	1.00	60.02	A16S	ATOM	22414	C2	GUA	150	121.699	19.072	-0.260	1.00	80.42	A16
ATOM	22362	O3'	CYT	147	114.031	24.975	11.961	1.00	60.02	A16S	ATOM	22415	N2	GUA	150	122.162	19.160	-1.503	1.00	80.42	A16
ATOM	22363	P	CYT	148	115.129	23.844	11.697	1.00	79.42	A16S	ATOM	22416	N1	GUA	150	121.681	20.234	0.468	1.00	80.42	A16
ATOM	22364	O1P	CYT	148	115.436	23.250	13.019	1.00	74.30	A16S	ATOM	22417	C6	GUA	150	121.235	20.350	1.783	1.00	80.42	A16
ATOM	22365	O2P	CYT	148	116.227	24.439	10.888	1.00	74.30	A16S	ATOM	22418	O6	GUA	150	121.271	21.452	2.353	1.00	80.42	A16
ATOM	22366	O5'	CYT	148	114.352	22.765	10.820	1.00	79.42	A16S	ATOM	22419	C5	GUA	150	120.782	19.096	2.293	1.00	80.42	A16
ATOM	22367	C5'	CYT	148	113.362	21.910	11.417	1.00	79.42	A16S	ATOM	22420	N7	GUA	150	120.263	18.760	3.539	1.00	80.42	A16
ATOM	22368	C4'	CYT	148	112.896	20.870	10.427	1.00	79.42	A16S	ATOM	22421	C8	GUA	150	120.029	17.478	3.459	1.00	80.42	A16
ATOM	22369	O4'	CYT	148	112.140	21.512	9.366	1.00	79.42	A16S	ATOM	22422	C2'	GUA	150	121.713	14.927	1.907	1.00	74.41	A16
ATOM	22370	C1'	CYT	148	112.381	20.846	8.184	1.00	79.42	A16S	ATOM	22423	O2'	GUA	150	121.900	13.906	0.944	1.00	74.41	A16
ATOM	22371	N1	CYT	148	113.051	21.785	7.210	1.00	74.30	A16S	ATOM	22424	C3'	GUA	150	121.721	14.390	3.324	1.00	74.41	A16
ATOM	22372	C6	CYT	148	113.741	22.866	7.685	1.00	74.30	A16S	ATOM	22425	O3'	GUA	150	122.739	13.430	3.492	1.00	74.41	A16
ATOM	22373	C2	CYT	148	112.997	21.537	5.834	1.00	74.30	A16S	ATOM	22426	P	GUA	151	124.209	13.925	3.903	1.00	75.86	A16
ATOM	22374	O2	CYT	148	112.346	20.565	5.423	1.00	74.30	A16S	ATOM	22427	O1P	GUA	151	125.042	12.705	3.993	1.00	80.90	A16
ATOM	22375	N3	CYT	148	113.657	22.361	4.990	1.00	74.30	A16S	ATOM	22428	O2P	GUA	151	124.084	14.819	5.082	1.00	80.90	A16
ATOM	22376	C4	CYT	148	114.342	23.398	5.471	1.00	74.30	A16S	ATOM	22429	O5'	GUA	151	124.705	14.785	2.652	1.00	75.86	A16
ATOM	22377	N4	CYT	148	114.992	24.175	4.611	1.00	74.30	A16S	ATOM	22430	C5'	GUA	151	124.705	14.785	2.652	1.00	75.86	A16
ATOM	22378	C5	CYT	148	114.396	23.684	6.860	1.00	74.30	A16S	ATOM	22431	C4'	GUA	151	124.933	14.141	1.394	1.00	75.86	A16
ATOM	22379	C2'	CYT	148	113.287	19.649	8.431	1.00	79.42	A16S	ATOM	22432	O4'	GUA	151	125.460	16.111	0.357	1.00	75.86	A16
ATOM	22380	O2'	CYT	148	112.516	18.481	8.629	1.00	79.42	A16S	ATOM	22433	C1'	GUA	151	125.111	17.261	-0.022	1.00	75.86	A16
ATOM	22381	C3'	CYT	148	113.990	20.106	9.698	1.00	79.42	A16S	ATOM	22434	N9	GUA	151	124.840	18.410	0.362	1.00	80.90	A16
ATOM	22382	O3'	CYT	148	114.501	19.011	10.434	1.00	79.42	A16S	ATOM	22435	C4	GUA	151	125.162	19.714	0.069	1.00	80.90	A16
ATOM	22383	P	CYT	149	116.065	18.653	10.327	1.00	73.72	A16S	ATOM	22436	N3	GUA	151	125.722	20.148	-1.081	1.00	80.90	A16
ATOM	22384	O1P	CYT	149	116.341	17.687	11.421	1.00	83.28	A16S	ATOM	22437	C2	GUA	151	125.959	21.442	-1.058	1.00	80.90	A16

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ATOM	22438	N2	GUA	151	126.514	22.025	-2.124	1.00	80.90	Al6S	ATOM	22491	C2' GUA	153	135.347	23.624	1.370	1.00	114.93	Al1	
ATOM	22439	N1	GUA	151	125.672	22.257	0.014	1.00	80.90	Al6S	ATOM	22492	O2' GUA	153	136.232	24.627	0.921	1.00	114.93	Al1	
ATOM	22440	O6	GUA	151	125.104	21.837	1.216	1.00	80.90	Al6S	ATOM	22493	C3' GUA	153	135.715	22.243	0.853	1.00	114.93	Al1	
ATOM	22441	O6	GUA	151	124.913	22.656	2.134	1.00	80.90	Al6S	ATOM	22494	O3' GUA	153	137.117	22.053	0.840	1.00	114.93	Al1	
ATOM	22442	C5	GUA	151	124.832	20.437	1.197	1.00	80.90	Al6S	ATOM	22495	P	ADE	154	137.814	21.298	2.069	1.00	83.00	Al1
ATOM	22443	N7	GUA	151	124.275	19.610	2.165	1.00	80.90	Al6S	ATOM	22496	O1P ADE	154	139.297	21.400	1.923	1.00	91.11	Al1	
ATOM	22444	C8	GUA	151	124.290	18.420	1.622	1.00	80.90	Al6S	ATOM	22497	O2P ADE	154	137.164	19.961	2.178	1.00	91.11	Al1	
ATOM	22445	C2'	GUA	151	126.612	16.981	-0.470	1.00	75.86	Al6S	ATOM	22498	O5' ADE	154	137.394	22.157	3.340	1.00	83.00	Al1	
ATOM	22446	O2'	GUA	151	127.015	16.465	-1.723	1.00	75.86	Al6S	ATOM	22499	C5' ADE	154	137.699	21.688	4.656	1.00	83.00	Al1	
ATOM	22447	C3'	GUA	151	126.708	15.935	0.630	1.00	75.86	Al6S	ATOM	22500	C4' ADE	154	138.272	22.802	5.487	1.00	83.00	Al1	
ATOM	22448	O4'	GUA	151	127.921	15.212	0.498	1.00	75.86	Al6S	ATOM	22501	O4' ADE	154	139.480	23.301	4.859	1.00	83.00	Al1	
ATOM	22449	P	ADE	152	129.270	15.806	1.140	1.00	100.72	Al6S	ATOM	22502	C1' ADE	154	139.612	24.688	5.126	1.00	83.00	Al1	
ATOM	22450	O1P	GUA	152	130.341	14.803	0.945	1.00	94.42	Al6S	ATOM	22503	N9 ADE	154	139.706	25.413	3.857	1.00	91.11	Al1	
ATOM	22451	O2P	GUA	152	128.964	16.291	2.511	1.00	94.42	Al6S	ATOM	22504	C4 ADE	154	140.050	26.738	3.711	1.00	91.11	Al1	
ATOM	22452	O5'	GUA	152	129.615	17.050	0.207	1.00	100.72	Al6S	ATOM	22505	N3 ADE	154	140.372	27.613	4.683	1.00	91.11	Al1	
ATOM	22453	C5'	GUA	152	129.901	16.862	-1.196	1.00	100.72	Al6S	ATOM	22506	C2 ADE	154	140.647	28.806	4.165	1.00	91.11	Al1	
ATOM	22454	C4'	GUA	152	130.331	18.168	-1.837	1.00	100.72	Al6S	ATOM	22507	N1 ADE	154	140.633	29.198	2.883	1.00	91.11	Al1	
ATOM	22455	O4'	GUA	152	129.220	19.107	-1.852	1.00	100.72	Al6S	ATOM	22508	C6 ADE	154	140.300	28.296	1.934	1.00	91.11	Al1	
ATOM	22456	C1'	GUA	152	129.707	20.427	-1.662	1.00	100.72	Al6S	ATOM	22509	N6 ADE	154	140.274	28.684	0.660	1.00	91.11	Al1	
ATOM	22457	N9	GUA	152	129.158	20.957	-0.414	1.00	94.42	Al6S	ATOM	22510	C5 ADE	154	139.994	26.994	2.351	1.00	91.11	Al1	
ATOM	22458	C4	GUA	152	129.272	22.254	0.037	1.00	94.42	Al6S	ATOM	22511	N7 ADE	154	139.629	25.854	1.650	1.00	91.11	Al1	
ATOM	22459	N3	GUA	152	129.907	23.264	-0.599	1.00	94.42	Al6S	ATOM	22512	C8 ADE	154	139.473	24.946	2.584	1.00	91.11	Al1	
ATOM	22460	C2	GUA	152	129.864	24.390	0.093	1.00	94.42	Al6S	ATOM	22513	C2' ADE	154	138.418	25.117	5.978	1.00	83.00	Al1	
ATOM	22461	N2	GUA	152	130.458	25.489	-0.389	1.00	94.42	Al6S	ATOM	22514	O2' ADE	154	138.798	25.096	7.338	1.00	83.00	Al1	
ATOM	22462	N1	GUA	152	129.238	24.522	1.310	1.00	94.42	Al6S	ATOM	22515	C3' ADE	154	137.399	24.034	5.653	1.00	83.00	Al1	
ATOM	22463	C6	GUA	152	128.571	23.501	1.982	1.00	94.42	Al6S	ATOM	22516	O3' ADE	154	136.451	23.868	6.699	1.00	83.00	Al1	
ATOM	22464	O6	GUA	152	128.031	23.731	3.070	1.00	94.42	Al6S	ATOM	22517	P	ADE	155	134.956	24.420	6.503	1.00	92.24	Al1
ATOM	22465	C5	GUA	152	128.622	22.277	1.255	1.00	94.42	Al6S	ATOM	22518	O1P ADE	155	134.184	24.095	7.734	1.00	80.70	Al1	
ATOM	22466	N7	GUA	152	128.110	21.023	1.565	1.00	94.42	Al6S	ATOM	22519	O2P ADE	155	134.473	23.942	5.181	1.00	80.70	Al1	
ATOM	22467	C8	GUA	152	128.449	20.275	0.549	1.00	94.42	Al6S	ATOM	22520	O5' ADE	155	135.142	26.001	6.413	1.00	92.24	Al1	
ATOM	22468	C2'	GUA	152	131.234	20.352	-1.608	1.00	100.72	Al6S	ATOM	22521	C5' ADE	155	135.742	26.745	7.498	1.00	92.24	Al1	
ATOM	22469	O2'	GUA	152	131.775	20.598	-2.892	1.00	100.72	Al6S	ATOM	22522	C4' ADE	155	136.151	28.129	7.033	1.00	92.24	Al1	
ATOM	22470	C3'	GUA	152	131.454	18.920	-1.138	1.00	100.72	Al6S	ATOM	22523	O4' ADE	155	137.137	28.006	5.978	1.00	92.24	Al1	
ATOM	22471	O3'	GUA	152	132.748	18.436	-1.469	1.00	100.72	Al6S	ATOM	22524	C1' ADE	155	136.940	29.028	5.019	1.00	92.24	Al1	
ATOM	22472	P	GUA	153	133.912	18.487	-0.364	1.00	114.93	Al6S	ATOM	22525	N9 ADE	155	136.633	28.386	3.741	1.00	80.70	Al1	
ATOM	22473	O1P	GUA	153	135.132	17.918	-0.988	1.00	82.09	Al6S	ATOM	22526	C4 ADE	155	136.865	28.887	2.482	1.00	80.70	Al1	
ATOM	22474	O2P	GUA	153	133.387	17.909	0.901	1.00	82.09	Al6S	ATOM	22527	N3 ADE	155	137.402	30.074	2.160	1.00	80.70	Al1	
ATOM	22475	O5'	GUA	153	134.143	20.043	-0.118	1.00	114.93	Al6S	ATOM	22528	C2 ADE	155	137.492	30.204	0.840	1.00	80.70	Al1	
ATOM	22476	C5'	GUA	153	134.802	20.860	-1.106	1.00	114.93	Al6S	ATOM	22529	N1 ADE	155	137.131	29.351	-0.122	1.00	80.70	Al1	
ATOM	22477	C4'	GUA	153	135.103	22.228	-0.538	1.00	114.93	Al6S	ATOM	22530	C6 ADE	155	136.587	28.171	0.236	1.00	80.70	Al1	
ATOM	22478	O4'	GUA	153	133.878	22.991	-0.398	1.00	114.93	Al6S	ATOM	22531	N6 ADE	155	136.218	27.320	-0.723	1.00	80.70	Al1	
ATOM	22479	C1'	GUA	153	133.971	23.833	0.740	1.00	114.93	Al6S	ATOM	22532	C5 ADE	155	136.440	27.909	1.604	1.00	80.70	Al1	
ATOM	22480	N9	GUA	153	132.916	23.469	1.676	1.00	82.09	Al6S	ATOM	22533	N7 ADE	155	135.933	26.818	2.293	1.00	80.70	Al1	
ATOM	22481	C4	GUA	153	132.469	24.223	2.738	1.00	82.09	Al6S	ATOM	22534	C8 ADE	155	136.067	27.151	3.552	1.00	80.70	Al1	
ATOM	22482	N3	GUA	153	132.920	25.447	3.093	1.00	82.09	Al6S	ATOM	22535	C2' ADE	155	135.818	29.935	5.524	1.00	92.24	Al1	
ATOM	22483	C2	GUA	153	132.299	25.911	4.170	1.00	82.09	Al6S	ATOM	22536	O2' ADE	155	136.388	31.024	6.223	1.00	92.24	Al1	
ATOM	22484	N2	GUA	153	132.620	27.119	4.663	1.00	82.09	Al6S	ATOM	22537	C3' ADE	155	135.048	28.994	6.441	1.00	92.24	Al1	
ATOM	22485	N1	GUA	153	131.318	25.224	4.841	1.00	82.09	Al6S	ATOM	22538	O3' ADE	155	134.353	29.706	7.457	1.00	92.24	Al1	
ATOM	22486	C6	GUA	153	130.839	23.965	4.489	1.00	82.09	Al6S	ATOM	22539	P	ADE	156	132.780	30.000	7.296	1.00	102.17	Al1
ATOM	22487	O6	GUA	153	129.951	23.437	5.157	1.00	82.09	Al6S	ATOM	22540	O1P ADE	156	132.306	30.500	8.619	1.00	84.86	Al1	
ATOM	22488	C5	GUA	153	131.494	23.460	3.341	1.00	82.09	Al6S	ATOM	22541	O2P ADE	156	132.119	28.822	6.674	1.00	84.86	Al1	
ATOM	22489	N7	GUA	153	131.326	22.258	2.670	1.00	82.09	Al6S	ATOM	22542	O5' ADE	156	132.706	31.197	6.248	1.00	102.17	Al1	
ATOM	22490	C8	GUA	153	132.186	22.308	1.690	1.00	82.09	Al6S	ATOM	22543	C5' ADE	156	133.055	32.547	6.622	1.00	102.17	Al1	

ATOM	22544	C4' ADE	156	133.180	33.406	5.388	1.00102.17	Al6S	ATOM	22597	C2' URI	158	126.136	27.287	-2.803	1.00 80.55	Al6
ATOM	22545	O4' ADE	156	134.206	32.828	4.539	1.00102.17	Al6S	ATOM	22598	O2' URI	158	126.760	26.738	-3.946	1.00 80.55	Al6
ATOM	22546	N4' ADE	156	133.798	32.878	3.182	1.00102.17	Al6S	ATOM	22599	C3' URI	158	125.723	28.740	-2.987	1.00 80.55	Al6
ATOM	22547	N9 ADE	156	133.590	31.498	2.727	1.00 84.86	Al6S	ATOM	22600	O3' URI	158	125.222	28.998	-4.286	1.00 80.55	Al6
ATOM	22548	C4 ADE	156	133.609	31.046	1.428	1.00 84.86	Al6S	ATOM	22601	P CYT	159	123.675	28.722	-4.607	1.00 75.29	Al6
ATOM	22549	N3 ADE	156	133.823	31.767	0.314	1.00 84.86	Al6S	ATOM	22602	O1P CYT	159	123.378	29.331	-5.934	1.00 81.15	Al6
ATOM	22550	C2 ADE	156	133.772	30.990	-0.763	1.00 84.86	Al6S	ATOM	22603	O2P CYT	159	122.862	29.110	-3.420	1.00 81.15	Al6
ATOM	22551	N1 ADE	156	133.549	29.674	-0.848	1.00 84.86	Al6S	ATOM	22604	O5' CYT	159	123.617	27.142	-4.768	1.00 75.29	Al6
ATOM	22552	C8 ADE	156	133.336	28.979	0.290	1.00 84.86	Al6S	ATOM	22605	C5' CYT	159	124.301	26.497	-5.851	1.00 75.29	Al6
ATOM	22553	N6 ADE	156	133.119	27.666	0.205	1.00 84.86	Al6S	ATOM	22606	C4' CYT	159	123.954	25.034	-5.885	1.00 75.29	Al6
ATOM	22554	N7 ADE	156	133.362	29.687	1.500	1.00 84.86	Al6S	ATOM	22607	O4' CYT	159	124.610	24.346	-4.789	1.00 75.29	Al6
ATOM	22555	C8 ADE	156	133.185	29.288	2.816	1.00 84.86	Al6S	ATOM	22608	C1' CYT	159	123.764	23.320	-4.301	1.00 75.29	Al6
ATOM	22556	C2 ADE	156	133.330	30.392	3.502	1.00 84.86	Al6S	ATOM	22609	N1 CYT	159	123.398	23.638	-2.917	1.00 81.15	Al6
ATOM	22557	C8 ADE	156	132.511	33.700	3.127	1.00102.17	Al6S	ATOM	22610	C6 CYT	159	123.511	24.909	-2.428	1.00 81.15	Al6
ATOM	22558	O2' ADE	156	132.814	35.062	2.896	1.00102.17	Al6S	ATOM	22611	C2 CYT	159	122.900	22.618	-2.113	1.00 81.15	Al6
ATOM	22559	C3' ADE	156	131.937	33.446	4.512	1.00102.17	Al6S	ATOM	22612	O2 CYT	159	122.834	21.471	-2.580	1.00 81.15	Al6
ATOM	22560	O3' ADE	156	131.013	34.445	4.915	1.00102.17	Al6S	ATOM	22613	N3 CYT	159	122.500	22.902	-0.851	1.00 81.15	Al6
ATOM	22561	P CYT	157	129.475	34.046	5.167	1.00 70.20	Al6S	ATOM	22614	C4 CYT	159	122.587	24.152	-0.392	1.00 81.15	Al6
ATOM	22562	O1P CYT	157	128.718	35.320	5.288	1.00100.52	Al6S	ATOM	22615	N4 CYT	159	122.152	24.399	0.846	1.00 81.15	Al6
ATOM	22563	O2P CYT	157	129.443	33.063	6.281	1.00100.52	Al6S	ATOM	22616	C5 CYT	159	123.118	25.208	-1.184	1.00 81.15	Al6
ATOM	22564	O5' CYT	157	129.014	33.298	3.833	1.00 70.20	Al6S	ATOM	22617	C2' CYT	159	122.510	23.297	-5.171	1.00 75.29	Al6
ATOM	22565	C5' CYT	157	129.234	33.899	2.548	1.00 70.20	Al6S	ATOM	22618	O2' CYT	159	122.653	22.333	-6.192	1.00 75.29	Al6
ATOM	22566	C4' CYT	157	129.434	32.845	1.483	1.00 70.20	Al6S	ATOM	22619	C3' CYT	159	122.483	24.725	-5.692	1.00 75.29	Al6
ATOM	22567	O4' CYT	157	130.329	31.809	1.975	1.00 70.20	Al6S	ATOM	22620	O3' CYT	159	121.724	24.876	-6.870	1.00 75.29	Al6
ATOM	22568	C1' CYT	157	130.007	30.564	1.369	1.00 70.20	Al6S	ATOM	22621	P GUA	160	120.143	25.118	-6.749	1.00 71.91	Al6
ATOM	22569	N1 CYT	157	129.630	29.584	2.414	1.00100.52	Al6S	ATOM	22622	O1P GUA	160	119.621	25.420	-8.113	1.00 83.80	Al6
ATOM	22570	C6 CYT	157	129.546	29.944	3.731	1.00100.52	Al6S	ATOM	22623	O2P GUA	160	119.891	26.070	-5.628	1.00 83.80	Al6
ATOM	22571	C2 CYT	157	129.324	28.267	2.023	1.00100.52	Al6S	ATOM	22624	O5' GUA	160	119.589	23.691	-6.316	1.00 71.91	Al6
ATOM	22572	O2 CYT	157	129.455	27.945	0.835	1.00100.52	Al6S	ATOM	22625	C5' GUA	160	119.732	22.571	-7.196	1.00 71.91	Al6
ATOM	22573	N3 CYT	157	128.899	27.381	2.952	1.00100.52	Al6S	ATOM	22626	C4' GUA	160	119.305	21.297	-6.517	1.00 71.91	Al6
ATOM	22574	C4 CYT	157	128.790	27.755	4.228	1.00100.52	Al6S	ATOM	22627	O4' GUA	160	120.158	21.019	-5.376	1.00 71.91	Al6
ATOM	22575	N4 CYT	157	128.334	26.855	5.105	1.00100.52	Al6S	ATOM	22628	C1' GUA	160	119.424	20.297	-4.400	1.00 71.91	Al6
ATOM	22576	C5 CYT	157	129.135	29.070	4.662	1.00100.52	Al6S	ATOM	22629	N9 GUA	160	119.432	21.046	-3.147	1.00 83.80	Al6
ATOM	22577	C2' CYT	157	128.842	30.822	0.414	1.00 70.20	Al6S	ATOM	22630	C4 GUA	160	118.992	20.590	-1.923	1.00 83.80	Al6
ATOM	22578	O2' CYT	157	129.354	31.056	-0.883	1.00 70.20	Al6S	ATOM	22631	N3 GUA	160	118.512	19.355	-1.661	1.00 83.80	Al6
ATOM	22579	C3' CYT	157	128.215	32.070	1.019	1.00 70.20	Al6S	ATOM	22632	C2 GUA	160	118.135	19.231	-0.399	1.00 83.80	Al6
ATOM	22580	O3' CYT	157	127.454	32.778	0.053	1.00 70.20	Al6S	ATOM	22633	N2 GUA	160	117.631	18.069	0.038	1.00 83.80	Al6
ATOM	22581	P URI	158	125.947	32.308	-0.265	1.00 80.55	Al6S	ATOM	22634	N1 GUA	160	118.223	20.235	0.527	1.00 83.80	Al6
ATOM	22582	O1P URI	158	125.335	33.274	-1.218	1.00 74.06	Al6S	ATOM	22635	C6 GUA	160	118.713	21.510	0.278	1.00 83.80	Al6
ATOM	22583	O2P URI	158	125.258	31.995	1.026	1.00 74.06	Al6S	ATOM	22636	O6 GUA	160	118.740	22.342	1.183	1.00 83.80	Al6
ATOM	22584	O5' URI	158	126.137	30.944	-1.056	1.00 80.55	Al6S	ATOM	22637	C5 GUA	160	119.125	21.658	-1.066	1.00 83.80	Al6
ATOM	22585	C5' URI	158	126.864	30.909	-2.284	1.00 80.55	Al6S	ATOM	22638	N7 GUA	160	119.665	22.754	-1.724	1.00 83.80	Al6
ATOM	22586	C4' URI	158	127.020	29.489	-2.742	1.00 80.55	Al6S	ATOM	22639	C8 GUA	160	119.837	22.344	-2.951	1.00 83.80	Al6
ATOM	22587	O4' URI	158	127.681	28.726	-1.701	1.00 80.55	Al6S	ATOM	22640	O2' GUA	160	118.000	20.129	-4.933	1.00 71.91	Al6
ATOM	22588	C1' URI	158	127.173	27.405	-1.688	1.00 80.55	Al6S	ATOM	22641	O2' GUA	160	117.869	18.863	-5.546	1.00 71.91	Al6
ATOM	22589	N1 URI	158	126.606	27.115	-0.362	1.00 74.06	Al6S	ATOM	22642	C3' GUA	160	117.910	21.271	-5.933	1.00 71.91	Al6
ATOM	22590	C6 URI	158	126.247	28.109	0.520	1.00 74.06	Al6S	ATOM	22643	O3' GUA	160	116.911	21.060	-6.909	1.00 71.91	Al6
ATOM	22591	C2 URI	158	126.439	25.784	-0.033	1.00 74.06	Al6S	ATOM	22644	P GUA	161	115.414	21.561	-6.607	1.00 65.58	Al6
ATOM	22592	O2 URI	158	126.752	24.875	-0.782	1.00 74.06	Al6S	ATOM	22645	O1P GUA	161	114.573	21.254	-7.802	1.00 80.81	Al6
ATOM	22593	N3 URI	158	125.895	25.553	1.202	1.00 74.06	Al6S	ATOM	22646	O2P GUA	161	115.474	22.953	-6.094	1.00 80.81	Al6
ATOM	22594	C4 URI	158	125.516	26.491	2.125	1.00 74.06	Al6S	ATOM	22647	O5' GUA	161	114.966	20.637	-5.386	1.00 65.58	Al6
ATOM	22595	O4 URI	158	125.045	26.116	3.197	1.00 74.06	Al6S	ATOM	22648	C5' GUA	161	114.909	19.206	-5.528	1.00 65.58	Al6
ATOM	22596	C5 URI	158	125.724	27.850	1.719	1.00 74.06	Al6S	ATOM	22649	C4' GUA	161	114.297	18.573	-4.305	1.00 65.58	Al6

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Table 1 - 215/490

ATOM	22650	O4' GUA	161	115.226	18.623	-3.191	1.00 65.58	Al6S	ATOM	22703	C4	CYT	163	109.171	26.004	3.437	1.00 77.56	Al6
ATOM	22651	C1' GUA	161	114.500	18.748	-1.977	1.00 65.58	Al6S	ATOM	22704	N4	CYT	163	110.093	26.950	3.265	1.00 77.56	Al6
ATOM	22652	N4' GUA	161	114.918	19.973	-1.307	1.00 80.81	Al6S	ATOM	22705	C5	CYT	163	108.787	25.170	2.348	1.00 77.56	Al6
ATOM	22653	N4' GUA	161	114.603	20.338	-0.024	1.00 80.81	Al6S	ATOM	22706	C2'	CYT	163	104.771	23.780	3.758	1.00 64.85	Al6
ATOM	22654	N3 GUA	161	113.869	19.613	0.847	1.00 80.81	Al6S	ATOM	22707	O2'	CYT	163	103.910	23.440	4.826	1.00 64.85	Al6
ATOM	22655	C2 GUA	161	113.719	20.234	2.002	1.00 80.81	Al6S	ATOM	22708	C3'	CYT	163	104.368	23.072	2.469	1.00 64.85	Al6
ATOM	22656	N2 GUA	161	113.010	19.657	2.978	1.00 80.81	Al6S	ATOM	22709	O3'	CYT	163	102.958	22.986	2.383	1.00 64.85	Al6
ATOM	22657	N1 GUA	161	114.250	21.467	2.282	1.00 80.81	Al6S	ATOM	22710	P	URI	164	102.144	24.145	1.628	1.00 47.34	Al6
ATOM	22658	C6 GUA	161	115.009	22.230	1.397	1.00 80.81	Al6S	ATOM	22711	O1P	URI	164	100.698	23.791	1.691	1.00 54.48	Al6
ATOM	22659	O6 GUA	161	115.441	23.333	1.745	1.00 80.81	Al6S	ATOM	22712	O2P	URI	164	102.802	24.354	0.308	1.00 54.48	Al6
ATOM	22660	GUA	161	115.174	21.576	0.155	1.00 80.81	Al6S	ATOM	22713	O5'	URI	164	102.379	25.443	2.529	1.00 47.34	Al6
ATOM	22661	N7 GUA	161	115.846	21.980	-0.989	1.00 80.81	Al6S	ATOM	22714	C5'	URI	164	101.847	25.518	3.869	1.00 47.34	Al6
ATOM	22662	C8 GUA	161	115.672	20.996	-1.827	1.00 80.81	Al6S	ATOM	22715	C4'	URI	164	102.279	26.799	4.561	1.00 47.34	Al6
ATOM	22663	C2' GUA	161	113.007	18.792	-2.318	1.00 65.58	Al6S	ATOM	22716	O4'	URI	164	103.709	26.811	4.817	1.00 47.34	Al6
ATOM	22664	O2' GUA	161	112.411	17.527	-2.116	1.00 65.58	Al6S	ATOM	22717	C1'	URI	164	104.201	28.135	4.715	1.00 47.34	Al6
ATOM	22665	C3' GUA	161	113.035	19.232	-3.777	1.00 65.58	Al6S	ATOM	22718	N1	URI	164	105.219	28.172	3.649	1.00 54.48	Al6
ATOM	22666	O3' GUA	161	111.872	18.851	-4.486	1.00 65.58	Al6S	ATOM	22719	C6	URI	164	105.113	27.382	2.523	1.00 54.48	Al6
ATOM	22667	P	162	110.602	19.830	-4.489	1.00 55.95	Al6S	ATOM	22720	C2	URI	164	106.302	29.011	3.818	1.00 54.48	Al6
ATOM	22668	O1P GUA	162	109.555	19.247	-5.376	1.00 74.80	Al6S	ATOM	22721	O2	URI	164	106.418	29.759	4.774	1.00 54.48	Al6
ATOM	22669	O2P GUA	162	111.086	21.223	-4.741	1.00 74.80	Al6S	ATOM	22722	N3	URI	164	107.246	28.948	2.821	1.00 54.48	Al6
ATOM	22670	O5' GUA	162	110.092	19.763	-2.983	1.00 55.95	Al6S	ATOM	22723	C4	URI	164	107.212	28.162	1.691	1.00 54.48	Al6
ATOM	22671	C5' GUA	162	109.458	18.588	-2.483	1.00 55.95	Al6S	ATOM	22724	O4	URI	164	108.156	28.193	0.900	1.00 54.48	Al6
ATOM	22672	C4' GUA	162	109.017	18.789	-1.057	1.00 55.95	Al6S	ATOM	22725	C5	URI	164	106.046	27.349	1.569	1.00 54.48	Al6
ATOM	22673	O4' GUA	162	110.175	18.977	-0.202	1.00 55.95	Al6S	ATOM	22726	C2'	URI	164	103.006	29.055	4.467	1.00 47.34	Al6
ATOM	22674	C1' GUA	162	109.820	19.782	0.912	1.00 55.95	Al6S	ATOM	22727	O2'	URI	164	102.557	29.539	5.717	1.00 47.34	Al6
ATOM	22675	N9 GUA	162	110.670	20.974	0.927	1.00 74.80	Al6S	ATOM	22728	C3'	URI	164	102.002	28.099	3.831	1.00 47.34	Al6
ATOM	22676	C4 GUA	162	110.829	21.868	1.971	1.00 74.80	Al6S	ATOM	22729	O3'	URI	164	100.660	28.506	4.048	1.00 47.34	Al6
ATOM	22677	N3 GUA	162	110.264	21.778	3.197	1.00 74.80	Al6S	ATOM	22730	P	ADE	165	100.015	29.645	3.119	1.00 45.85	Al6
ATOM	22678	C2 GUA	162	110.595	22.804	3.972	1.00 74.80	Al6S	ATOM	22731	O1P	ADE	165	98.542	29.431	3.036	1.00 58.99	Al6
ATOM	22679	N2 GUA	162	110.144	22.865	5.233	1.00 74.80	Al6S	ATOM	22732	O2P	ADE	165	100.820	29.715	1.868	1.00 58.99	Al6
ATOM	22680	N1 GUA	162	111.398	23.840	3.570	1.00 74.80	Al6S	ATOM	22733	O5'	ADE	165	100.278	30.973	3.946	1.00 45.85	Al6
ATOM	22681	C6 GUA	162	111.981	23.956	2.315	1.00 74.80	Al6S	ATOM	22734	C5'	ADE	165	99.904	31.054	5.324	1.00 45.85	Al6
ATOM	22682	O6 GUA	162	112.676	24.937	2.051	1.00 74.80	Al6S	ATOM	22735	O4'	ADE	165	100.220	32.422	5.870	1.00 45.85	Al6
ATOM	22683	C5 GUA	162	111.655	22.856	1.481	1.00 74.80	Al6S	ATOM	22736	C4'	ADE	165	101.616	32.534	6.253	1.00 45.85	Al6
ATOM	22684	N7 GUA	162	112.036	22.577	0.175	1.00 74.80	Al6S	ATOM	22737	C1'	ADE	165	102.053	33.862	6.044	1.00 45.85	Al6
ATOM	22685	C8 GUA	162	111.437	21.453	-0.109	1.00 74.80	Al6S	ATOM	22738	N9	ADE	165	103.166	33.833	5.092	1.00 58.99	Al6
ATOM	22686	C2' GUA	162	108.342	20.147	0.748	1.00 55.95	Al6S	ATOM	22739	C4	ADE	165	104.350	34.534	5.175	1.00 58.99	Al6
ATOM	22687	O2' GUA	162	107.536	19.242	1.472	1.00 55.95	Al6S	ATOM	22740	N3	ADE	165	104.723	35.412	6.123	1.00 58.99	Al6
ATOM	22688	C3' GUA	162	108.141	19.984	-0.760	1.00 77.56	Al6S	ATOM	22741	C2	ADE	165	105.946	35.878	5.879	1.00 58.99	Al6
ATOM	22689	O3' GUA	162	106.779	19.754	-1.043	1.00 64.85	Al6S	ATOM	22742	N1	ADE	165	106.777	35.586	4.880	1.00 58.99	Al6
ATOM	22690	P	163	105.768	21.007	-1.399	1.00 77.56	Al6S	ATOM	22743	C6	ADE	165	106.377	34.698	3.950	1.00 58.99	Al6
ATOM	22691	O1P	163	104.398	20.497	-1.399	1.00 77.56	Al6S	ATOM	22744	N6	ADE	165	107.216	34.387	2.970	1.00 58.99	Al6
ATOM	22692	O2P	163	106.366	22.032	-2.024	1.00 77.56	Al6S	ATOM	22745	C5	ADE	165	105.097	34.143	4.080	1.00 58.99	Al6
ATOM	22693	O5' GUA	163	105.761	21.596	0.355	1.00 64.85	Al6S	ATOM	22746	N7	ADE	165	104.392	33.235	3.304	1.00 58.99	Al6
ATOM	22694	C5' GUA	163	105.180	20.851	1.423	1.00 64.85	Al6S	ATOM	22747	C8	ADE	165	103.257	33.089	3.943	1.00 58.99	Al6
ATOM	22695	C4' GUA	163	105.017	21.713	2.643	1.00 64.85	Al6S	ATOM	22748	O2'	ADE	165	100.846	34.665	5.553	1.00 45.85	Al6
ATOM	22696	O4' GUA	163	106.305	22.049	3.211	1.00 64.85	Al6S	ATOM	22749	C2'	ADE	165	100.181	35.214	6.675	1.00 45.85	Al6
ATOM	22697	C1' GUA	163	106.152	23.185	4.040	1.00 64.85	Al6S	ATOM	22750	C3'	ADE	165	99.990	33.582	4.925	1.00 45.85	Al6
ATOM	22698	N1 GUA	163	107.246	24.140	3.800	1.00 77.56	Al6S	ATOM	22751	O3'	ADE	165	98.628	33.944	4.863	1.00 45.85	Al6
ATOM	22699	C6 GUA	163	107.833	24.259	2.572	1.00 77.56	Al6S	ATOM	22752	P	ADE	166	98.069	34.669	3.544	1.00 58.53	Al6
ATOM	22700	C2 GUA	163	107.663	24.956	4.863	1.00 77.56	Al6S	ATOM	22753	O1P	ADE	166	96.588	34.728	3.618	1.00 49.64	Al6
ATOM	22701	O2 GUA	163	107.134	24.812	5.983	1.00 77.56	Al6S	ATOM	22754	O2P	ADE	166	98.711	34.059	2.339	1.00 49.64	Al6
ATOM	22702	N3 GUA	163	108.627	25.879	4.647	1.00 77.56	Al6S	ATOM	22755	O5'	ADE	166	98.611	36.150	3.729	1.00 58.53	Al6

ATOM	22756	C5' ADE	166	98.271	36.908	4.899	1.00	58.53	Al6S	ATOM	22809	C5	CYT	168	101.624	38.921	0.217	1.00	67.92	Al6
ATOM	22757	C4' ADE	166	99.105	38.160	4.965	1.00	58.53	Al6S	ATOM	22810	C2' CYT	168	105.113	40.368	-2.530	1.00	50.05	Al6	
ATOM	22758	C6' ADE	166	100.476	37.814	5.283	1.00	58.53	Al6S	ATOM	22811	O2' CYT	168	106.468	40.318	-2.930	1.00	50.05	Al6	
ATOM	22759	C1' ADE	166	101.355	38.690	4.604	1.00	58.53	Al6S	ATOM	22812	C3' CYT	168	104.605	41.791	-2.342	1.00	50.05	Al6	
ATOM	22760	N9 ADE	166	102.181	37.903	3.682	1.00	49.64	Al6S	ATOM	22813	O3' CYT	168	105.111	42.694	-3.312	1.00	50.05	Al6	
ATOM	22761	C4 ADE	166	103.529	38.060	3.441	1.00	49.64	Al6S	ATOM	22814	P	169	104.216	43.066	-4.592	1.00	59.94	Al6	
ATOM	22762	N3 ADE	166	104.383	38.907	4.048	1.00	49.64	Al6S	ATOM	22815	O1P CYT	169	104.994	44.057	-5.370	1.00	64.04	Al6	
ATOM	22763	C2 ADE	166	105.595	38.810	3.515	1.00	49.64	Al6S	ATOM	22816	O2P CYT	169	102.828	43.402	-4.156	1.00	64.04	Al6	
ATOM	22764	N1 ADE	166	106.015	38.036	2.517	1.00	49.64	Al6S	ATOM	22817	O5' CYT	169	104.175	41.712	-5.427	1.00	59.94	Al6	
ATOM	22765	C6 ADE	166	105.132	37.210	1.922	1.00	49.64	Al6S	ATOM	22818	C5' CYT	169	105.318	41.282	-6.177	1.00	59.94	Al6	
ATOM	22766	C6 ADE	166	105.540	36.470	0.900	1.00	49.64	Al6S	ATOM	22819	C4' CYT	169	104.950	40.119	-7.052	1.00	59.94	Al6	
ATOM	22767	C5 ADE	166	103.827	37.193	2.407	1.00	49.64	Al6S	ATOM	22820	O4' CYT	169	104.622	38.996	-6.199	1.00	59.94	Al6	
ATOM	22768	N7 ADE	166	102.710	36.459	2.040	1.00	49.64	Al6S	ATOM	22821	C1' CYT	169	103.565	38.247	-6.780	1.00	59.94	Al6	
ATOM	22769	C8 ADE	166	101.766	36.905	2.831	1.00	49.64	Al6S	ATOM	22822	N1	169	102.406	38.272	-5.869	1.00	64.04	Al6	
ATOM	22770	C2' ADE	166	100.497	39.716	3.849	1.00	58.53	Al6S	ATOM	22823	C6	169	102.333	39.180	-4.851	1.00	64.04	Al6	
ATOM	22771	O2' ADE	166	100.337	40.888	4.620	1.00	58.53	Al6S	ATOM	22824	C2	169	101.370	37.349	-6.067	1.00	64.04	Al6	
ATOM	22772	C3' ADE	166	99.191	38.958	3.674	1.00	58.53	Al6S	ATOM	22825	O2	169	101.456	36.528	-7.000	1.00	64.04	Al6	
ATOM	22773	O3' ADE	166	98.059	39.806	3.504	1.00	58.53	Al6S	ATOM	22826	N3	169	100.306	37.373	-5.240	1.00	64.04	Al6	
ATOM	22774	P	167	97.841	40.596	2.117	1.00	46.76	Al6S	ATOM	22827	C4	169	100.250	38.261	-4.248	1.00	64.04	Al6	
ATOM	22775	O1P URI	167	98.626	39.912	1.059	1.00	66.36	Al6S	ATOM	22828	N4	169	99.182	38.241	-3.451	1.00	64.04	Al6	
ATOM	22776	O2P URI	167	96.378	40.802	1.916	1.00	66.36	Al6S	ATOM	22829	C5	169	101.286	39.208	-4.026	1.00	64.04	Al6	
ATOM	22777	O5' URI	167	98.521	42.007	2.435	1.00	46.76	Al6S	ATOM	22830	C2' CYT	169	103.225	38.889	-8.123	1.00	59.94	Al6	
ATOM	22778	C5' URI	167	98.224	43.178	1.645	1.00	46.76	Al6S	ATOM	22831	O2' CYT	169	103.908	38.235	-9.174	1.00	59.94	Al6	
ATOM	22779	C4' URI	167	99.356	44.196	1.707	1.00	46.76	Al6S	ATOM	22832	C3' CYT	169	103.709	40.313	-7.907	1.00	59.94	Al6	
ATOM	22780	O4' URI	167	99.131	45.258	2.675	1.00	46.76	Al6S	ATOM	22833	O3' CYT	169	103.927	40.978	-9.140	1.00	59.94	Al6	
ATOM	22781	C1' URI	167	100.357	45.547	3.312	1.00	46.76	Al6S	ATOM	22834	P	170	102.691	41.730	-9.847	1.00	59.60	Al6	
ATOM	22782	N1 URI	167	100.109	46.181	4.615	1.00	66.36	Al6S	ATOM	22835	O1P CYT	170	103.209	42.471	-11.022	1.00	62.12	Al6	
ATOM	22783	C6 URI	167	99.008	45.880	5.375	1.00	66.36	Al6S	ATOM	22836	O2P CYT	170	101.913	42.466	-8.799	1.00	62.12	Al6	
ATOM	22784	C2 URI	167	101.032	47.120	5.044	1.00	66.36	Al6S	ATOM	22837	O5' CYT	170	101.778	40.541	-10.394	1.00	59.60	Al6	
ATOM	22785	O2 URI	167	102.029	47.416	4.406	1.00	66.36	Al6S	ATOM	22838	C5' CYT	170	102.271	39.634	-11.392	1.00	59.60	Al6	
ATOM	22786	N3 URI	167	100.746	47.706	6.244	1.00	66.36	Al6S	ATOM	22839	C4' CYT	170	101.269	38.535	-11.652	1.00	59.60	Al6	
ATOM	22787	C4 URI	167	99.659	47.461	7.044	1.00	66.36	Al6S	ATOM	22840	O4' CYT	170	100.998	37.823	-10.420	1.00	59.60	Al6	
ATOM	22788	O4 URI	167	99.556	48.062	8.115	1.00	66.36	Al6S	ATOM	22841	C1' CYT	170	99.676	37.320	-10.446	1.00	59.60	Al6	
ATOM	22789	C5 URI	167	98.754	46.475	6.540	1.00	66.36	Al6S	ATOM	22842	N1	170	98.934	37.831	-9.285	1.00	62.12	Al6	
ATOM	22790	C2' URI	167	101.134	44.231	3.307	1.00	46.76	Al6S	ATOM	22843	C6	170	99.478	38.752	-8.437	1.00	62.12	Al6	
ATOM	22791	O2' URI	167	102.519	44.461	3.497	1.00	46.76	Al6S	ATOM	22844	C2	170	97.640	37.354	-9.070	1.00	62.12	Al6	
ATOM	22792	C3' URI	167	100.789	43.707	1.912	1.00	46.76	Al6S	ATOM	22845	O2	170	97.172	36.509	-9.858	1.00	62.12	Al6	
ATOM	22793	O3' URI	167	101.594	44.388	0.976	1.00	46.76	Al6S	ATOM	22846	N3	170	96.931	37.820	-8.022	1.00	62.12	Al6	
ATOM	22794	P	168	101.665	43.858	-0.524	1.00	50.05	Al6S	ATOM	22847	C4	170	97.466	38.723	-7.207	1.00	62.12	Al6	
ATOM	22795	O1P CYT	168	102.122	44.961	-1.413	1.00	67.92	Al6S	ATOM	22848	N4	170	96.723	39.159	-6.195	1.00	62.12	Al6	
ATOM	22796	O2P CYT	168	100.384	43.178	-0.825	1.00	67.92	Al6S	ATOM	22849	C5	170	98.785	39.220	-7.395	1.00	62.12	Al6	
ATOM	22797	O5' CYT	168	102.816	42.767	-0.434	1.00	50.05	Al6S	ATOM	22850	C2' CYT	170	99.034	37.756	-11.758	1.00	59.60	Al6	
ATOM	22798	C5' CYT	168	104.195	43.146	-0.254	1.00	50.05	Al6S	ATOM	22851	O2' CYT	170	99.134	36.684	-12.665	1.00	59.60	Al6	
ATOM	22799	C4' CYT	168	105.082	42.144	-0.943	1.00	50.05	Al6S	ATOM	22852	C3' CYT	170	99.895	38.949	-12.141	1.00	59.60	Al6	
ATOM	22800	O4' CYT	168	105.039	40.895	-0.209	1.00	50.05	Al6S	ATOM	22853	O3' CYT	170	99.888	39.145	-13.535	1.00	59.60	Al6	
ATOM	22801	C1' CYT	168	104.971	39.799	-1.115	1.00	50.05	Al6S	ATOM	22854	P	171	98.749	40.056	-14.196	1.00	68.30	Al6	
ATOM	22802	N1	168	103.692	39.082	-0.892	1.00	67.92	Al6S	ATOM	22855	O1P CYT	171	99.125	40.244	-15.616	1.00	59.39	Al6	
ATOM	22803	C6	168	102.791	39.537	0.029	1.00	67.92	Al6S	ATOM	22856	O2P CYT	171	98.530	41.233	-13.326	1.00	59.39	Al6	
ATOM	22804	C2	168	103.404	37.936	-1.646	1.00	67.92	Al6S	ATOM	22857	O5' CYT	171	97.450	39.143	-14.153	1.00	68.30	Al6	
ATOM	22805	O2	168	104.233	37.528	-2.470	1.00	67.92	Al6S	ATOM	22858	C5' CYT	171	97.335	37.994	-15.011	1.00	68.30	Al6	
ATOM	22806	N3	168	102.228	37.305	-1.459	1.00	67.92	Al6S	ATOM	22859	C4' CYT	171	95.994	37.331	-14.821	1.00	68.30	Al6	
ATOM	22807	C4	168	101.356	37.771	-0.568	1.00	67.92	Al6S	ATOM	22860	O4' CYT	171	95.871	36.885	-13.444	1.00	68.30	Al6	
ATOM	22808	N4	168	100.206	37.124	-0.426	1.00	67.92	Al6S	ATOM	22861	C1' CYT	171	94.524	37.004	-13.022	1.00	68.30	Al6	

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ATOM	22862	N1	CYT	171	94.470	37.891	-11.850	1.00	59.39	Al6S	ATOM	22915	O3' ADE	173	83.906	43.975	-15.061	1.00	66.39	Al6
ATOM	22863	C6	CYT	171	95.554	38.632	-11.475	1.00	59.39	Al6S	ATOM	22916	P	174	83.708	45.418	-15.740	1.00	71.24	Al6
ATOM	22864	O2	CYT	171	93.273	37.969	-11.118	1.00	59.39	Al6S	ATOM	22917	O1P URI	174	82.365	45.427	-16.373	1.00	79.66	Al6
ATOM	22865	O2	CYT	171	92.294	37.283	-11.477	1.00	59.39	Al6S	ATOM	22918	O2P URI	174	84.907	45.693	-16.571	1.00	79.66	Al6
ATOM	22866	N3	CYT	171	93.211	38.788	-10.046	1.00	59.39	Al6S	ATOM	22919	O5' URI	174	83.686	46.436	-14.513	1.00	71.24	Al6
ATOM	22867	C4	CYT	171	94.275	39.509	-9.696	1.00	59.39	Al6S	ATOM	22920	C5' URI	174	82.515	46.559	-13.685	1.00	71.24	Al6
ATOM	22868	N4	CYT	171	94.164	40.304	-8.634	1.00	59.39	Al6S	ATOM	22921	C4' URI	174	82.740	47.566	-12.577	1.00	71.24	Al6
ATOM	22869	C5	CYT	171	95.499	39.447	-10.418	1.00	59.39	Al6S	ATOM	22922	O4' URI	174	83.759	47.085	-11.663	1.00	71.24	Al6
ATOM	22870	C2' CYT	171	93.709	37.543	-14.197	1.00	68.30	Al6S	ATOM	22923	C1' URI	174	84.513	48.179	-11.166	1.00	71.24	Al6	
ATOM	22871	O2' CYT	171	93.083	36.460	-14.847	1.00	68.30	Al6S	ATOM	22924	N1 URI	174	85.914	48.009	-11.579	1.00	79.66	Al6	
ATOM	22872	C3' CYT	171	94.785	38.224	-15.035	1.00	68.30	Al6S	ATOM	22925	C6 URI	174	86.257	47.219	-12.655	1.00	79.66	Al6	
ATOM	22873	O3' CYT	171	94.429	38.334	-16.403	1.00	68.30	Al6S	ATOM	22926	C2 URI	174	86.879	48.677	-10.855	1.00	79.66	Al6	
ATOM	22874	P	CYT	172	93.587	39.610	-16.889	1.00	80.00	Al6S	ATOM	22927	O2 URI	174	86.619	49.379	-9.891	1.00	79.66	Al6
ATOM	22875	O1P CYT	172	93.375	39.500	-18.358	1.00	77.75	Al6S	ATOM	22928	N3 URI	174	88.163	48.492	-11.299	1.00	79.66	Al6	
ATOM	22876	O2P CYT	172	94.235	40.820	-16.322	1.00	77.75	Al6S	ATOM	22929	C4 URI	174	88.574	47.718	-12.363	1.00	79.66	Al6	
ATOM	22877	O5' CYT	172	92.175	39.443	-16.169	1.00	80.00	Al6S	ATOM	22930	O4 URI	174	89.775	47.629	-12.619	1.00	79.66	Al6	
ATOM	22878	C5' CYT	172	91.274	38.386	-16.546	1.00	80.00	Al6S	ATOM	22931	C5 URI	174	87.517	47.056	-13.059	1.00	79.66	Al6	
ATOM	22879	C4' CYT	172	89.987	38.469	-15.757	1.00	80.00	Al6S	ATOM	22932	C2' URI	174	83.907	49.457	-11.738	1.00	71.24	Al6	
ATOM	22880	O4' CYT	172	90.231	38.183	-14.354	1.00	80.00	Al6S	ATOM	22933	O2' URI	174	83.006	50.014	-10.805	1.00	71.24	Al6	
ATOM	22881	C1' CYT	172	89.272	38.867	-13.560	1.00	80.00	Al6S	ATOM	22934	C3' URI	174	83.232	48.936	-12.999	1.00	71.24	Al6	
ATOM	22882	N1	CYT	172	89.953	39.722	-12.569	1.00	77.75	Al6S	ATOM	22935	O3' URI	174	82.183	49.776	-13.421	1.00	71.24	Al6
ATOM	22883	C6	CYT	172	91.216	40.200	-12.784	1.00	77.75	Al6S	ATOM	22936	P	175	82.396	50.692	-14.712	1.00	66.26	Al6
ATOM	22884	O2	CYT	172	89.266	40.052	-11.391	1.00	77.75	Al6S	ATOM	22937	O1P GUA	175	81.325	51.712	-14.709	1.00	66.26	Al6
ATOM	22885	O2	CYT	172	88.127	39.596	-11.212	1.00	77.75	Al6S	ATOM	22938	O2P GUA	175	82.569	49.800	-15.889	1.00	66.26	Al6
ATOM	22886	N3	CYT	172	89.859	40.857	-10.481	1.00	77.75	Al6S	ATOM	22939	O5' GUA	175	83.776	51.431	-14.420	1.00	84.23	Al6
ATOM	22887	C4	CYT	172	91.086	41.327	-10.706	1.00	77.75	Al6S	ATOM	22940	C5' GUA	175	83.882	52.393	-13.351	1.00	84.23	Al6
ATOM	22888	N4	CYT	172	91.627	42.128	-9.784	1.00	77.75	Al6S	ATOM	22941	C4' GUA	175	84.918	53.433	-13.688	1.00	84.23	Al6
ATOM	22889	C5	CYT	172	91.814	41.000	-11.888	1.00	77.75	Al6S	ATOM	22942	O4' GUA	175	86.255	52.890	-13.487	1.00	84.23	Al6
ATOM	22890	C2' CYT	172	88.384	39.685	-14.495	1.00	80.00	Al6S	ATOM	22943	C1' GUA	175	87.048	53.101	-14.643	1.00	84.23	Al6	
ATOM	22891	O2' CYT	172	87.189	38.967	-14.721	1.00	80.00	Al6S	ATOM	22944	N9	175	87.993	51.985	-14.767	1.00	66.26	Al6	
ATOM	22892	C3' CYT	172	89.262	39.806	-15.736	1.00	80.00	Al6S	ATOM	22945	C4 GUA	175	89.252	51.901	-14.192	1.00	66.26	Al6	
ATOM	22893	O3' CYT	172	88.488	40.027	-16.906	1.00	80.00	Al6S	ATOM	22946	N3 GUA	175	89.823	52.820	-13.386	1.00	66.26	Al6	
ATOM	22894	P	ADE	173	88.045	41.527	-17.291	1.00	66.39	Al6S	ATOM	22947	C2 GUA	175	91.038	52.460	-13.006	1.00	66.26	Al6
ATOM	22895	O1P ADE	173	87.086	41.415	-18.427	1.00	68.99	Al6S	ATOM	22948	N2 GUA	175	91.744	53.259	-12.197	1.00	66.26	Al6	
ATOM	22896	O2P ADE	173	89.261	42.366	-17.442	1.00	68.99	Al6S	ATOM	22949	N1 GUA	175	91.651	51.296	-13.388	1.00	66.26	Al6	
ATOM	22897	O5' ADE	173	87.248	42.041	-16.004	1.00	66.39	Al6S	ATOM	22950	C6 GUA	175	91.088	50.332	-14.210	1.00	66.26	Al6	
ATOM	22898	C5' ADE	173	85.942	41.523	-15.697	1.00	66.39	Al6S	ATOM	22951	O6 GUA	175	91.731	49.308	-14.485	1.00	66.26	Al6	
ATOM	22899	C4' ADE	173	85.396	42.152	-14.439	1.00	66.39	Al6S	ATOM	22952	C5 GUA	175	89.775	50.702	-14.626	1.00	66.26	Al6	
ATOM	22900	O4' ADE	173	86.336	41.980	-13.351	1.00	66.39	Al6S	ATOM	22953	N7 GUA	175	88.868	50.033	-15.435	1.00	66.26	Al6	
ATOM	22901	C1' ADE	173	86.076	42.956	-12.362	1.00	66.39	Al6S	ATOM	22954	C8 GUA	175	87.827	50.825	-15.485	1.00	66.26	Al6	
ATOM	22902	N9 ADE	173	87.333	43.521	-11.873	1.00	68.99	Al6S	ATOM	22955	C2' GUA	175	86.093	53.311	-15.828	1.00	84.23	Al6	
ATOM	22903	C4 ADE	173	87.442	44.414	-10.831	1.00	68.99	Al6S	ATOM	22956	O2' GUA	175	86.694	54.162	-16.786	1.00	84.23	Al6	
ATOM	22904	N3 ADE	173	86.443	44.943	-10.103	1.00	68.99	Al6S	ATOM	22957	C3' GUA	175	84.882	53.922	-15.124	1.00	84.23	Al6	
ATOM	22905	C2 ADE	173	86.923	45.754	-9.172	1.00	68.99	Al6S	ATOM	22958	O3' GUA	175	83.970	54.936	-15.585	1.00	84.23	Al6	
ATOM	22906	N1 ADE	173	88.189	46.070	-8.900	1.00	68.99	Al6S	ATOM	22959	P	176	84.386	56.496	-15.551	1.00	83.37	Al6	
ATOM	22907	C6 ADE	173	89.169	45.518	-9.646	1.00	68.99	Al6S	ATOM	22960	O1P URI	176	83.837	57.163	-16.766	1.00	107.80	Al6	
ATOM	22908	N6 ADE	173	90.437	45.821	-9.358	1.00	68.99	Al6S	ATOM	22961	O2P URI	176	85.830	56.591	-15.265	1.00	107.80	Al6	
ATOM	22909	C5 ADE	173	88.792	44.648	-10.675	1.00	68.99	Al6S	ATOM	22962	O5' URI	176	83.618	57.068	-14.279	1.00	83.37	Al6	
ATOM	22910	N7 ADE	173	89.525	43.935	-11.610	1.00	68.99	Al6S	ATOM	22963	C5' URI	176	84.058	56.740	-12.953	1.00	83.37	Al6	
ATOM	22911	C8 ADE	173	88.616	43.287	-12.298	1.00	68.99	Al6S	ATOM	22964	C4' URI	176	84.243	57.996	-12.128	1.00	83.37	Al6	
ATOM	22912	C2' ADE	173	85.112	43.984	-12.947	1.00	66.39	Al6S	ATOM	22965	O4' URI	176	84.992	57.633	-10.940	1.00	83.37	Al6	
ATOM	22913	O2' ADE	173	83.853	43.770	-12.343	1.00	66.39	Al6S	ATOM	22966	C1' URI	176	86.021	58.573	-10.705	1.00	83.37	Al6	
ATOM	22914	C3' ADE	173	85.146	43.651	-14.440	1.00	66.39	Al6S	ATOM	22967	N1 URI	176	87.305	57.862	-10.844	1.00	107.80	Al6	

ATOM	22968	C6	URI	176	87.506	56.946	-11.858	1.00107.80	A16S	ATOM	23021	C2' GUA	178	95.334	58.843	-17.501	1.00	63.09	A16	
ATOM	22969	C2' URI	176	88.300	58.118	-9.918	1.00107.80	A16S	ATOM	23022	O2' GUA	178	96.586	58.618	-16.883	1.00	63.09	A16		
ATOM	22970	O2' URI	176	88.186	58.943	-9.031	1.00107.80	A16S	ATOM	23023	C3' GUA	178	94.975	60.316	-17.610	1.00	63.09	A16		
ATOM	22971	N3	URI	89.444	57.373	-10.077	1.00107.80	A16S	ATOM	23024	O3' GUA	178	96.089	61.100	-17.983	1.00	63.09	A16		
ATOM	22972	C4	URI	89.698	56.433	-11.053	1.00107.80	A16S	ATOM	23025	P	ADE	179	96.373	61.371	-19.542	1.00	66.13	A16	
ATOM	22973	O4	URI	90.768	55.827	-11.046	1.00107.80	A16S	ATOM	23026	O1P ADE	179	97.343	62.487	-19.568	1.00	56.94	A16		
ATOM	22974	C5	URI	88.636	56.245	-11.988	1.00107.80	A16S	ATOM	23027	O2P ADE	179	95.086	61.502	-20.279	1.00	56.94	A16		
ATOM	22975	C2' URI	176	85.810	59.749	-11.664	1.00	83.37	A16S	ATOM	23028	O5' ADE	179	97.060	60.031	-20.067	1.00	66.13	A16	
ATOM	22976	O2' URI	176	85.062	60.754	-11.013	1.00	83.37	A16S	ATOM	23029	C5' ADE	179	98.278	59.542	-19.481	1.00	66.13	A16	
ATOM	22977	C3' URI	176	85.059	59.084	-12.815	1.00	83.37	A16S	ATOM	23030	C4' ADE	179	98.675	58.231	-20.113	1.00	66.13	A16	
ATOM	22978	O3' URI	176	84.173	59.986	-13.489	1.00	83.37	A16S	ATOM	23031	O4' ADE	179	97.743	57.198	-19.712	1.00	66.13	A16	
ATOM	22979	P	GUA	84.733	60.971	-14.634	1.00	80.32	A16S	ATOM	23032	C1' ADE	179	97.513	56.311	-20.796	1.00	66.13	A16	
ATOM	22980	O1P GUA	177	83.960	62.229	-14.509	1.00	70.40	A16S	ATOM	23033	N9 ADE	179	96.093	56.381	-21.149	1.00	56.94	A16	
ATOM	22981	O2P GUA	177	84.761	60.254	-15.951	1.00	70.40	A16S	ATOM	23034	C4 ADE	179	95.441	55.570	-22.046	1.00	56.94	A16	
ATOM	22982	O5' GUA	177	86.216	61.293	-14.145	1.00	80.32	A16S	ATOM	23035	N3 ADE	179	95.966	54.571	-22.770	1.00	56.94	A16	
ATOM	22983	C5' GUA	177	87.319	61.314	-15.062	1.00	80.32	A16S	ATOM	23036	C2 ADE	179	95.037	54.006	-23.536	1.00	56.94	A16	
ATOM	22984	C4' GUA	177	88.593	60.968	-14.337	1.00	80.32	A16S	ATOM	23037	N1 ADE	179	93.741	54.299	-23.647	1.00	56.94	A16	
ATOM	22985	O4' GUA	177	88.455	59.650	-13.748	1.00	80.32	A16S	ATOM	23038	C6 ADE	179	93.241	55.302	-22.898	1.00	56.94	A16	
ATOM	22986	C1' GUA	177	89.679	58.941	-13.861	1.00	80.32	A16S	ATOM	23039	N6 ADE	179	91.942	55.579	-22.996	1.00	56.94	A16	
ATOM	22987	N9	GUA	89.455	57.787	-14.733	1.00	70.40	A16S	ATOM	23040	C5 ADE	179	94.128	55.993	-22.052	1.00	56.94	A16	
ATOM	22988	C4	GUA	90.314	56.725	-14.948	1.00	70.40	A16S	ATOM	23041	N7 ADE	179	93.952	57.059	-21.180	1.00	56.94	A16	
ATOM	22989	N3	GUA	91.527	56.551	-14.377	1.00	70.40	A16S	ATOM	23042	C8 ADE	179	95.143	57.249	-20.671	1.00	56.94	A16	
ATOM	22990	C2	GUA	92.129	55.460	-14.824	1.00	70.40	A16S	ATOM	23043	O2' ADE	179	98.425	56.737	-21.946	1.00	66.13	A16	
ATOM	22991	N2	GUA	93.362	55.140	-14.374	1.00	70.40	A16S	ATOM	23044	C2' ADE	179	98.620	55.985	-21.906	1.00	66.13	A16	
ATOM	22992	N1	GUA	91.573	54.603	-15.746	1.00	70.40	A16S	ATOM	23045	O3' ADE	179	99.620	55.985	-21.906	1.00	66.13	A16	
ATOM	22993	C6	GUA	90.321	54.759	-16.330	1.00	70.40	A16S	ATOM	23046	C3' ADE	179	98.638	58.210	-21.628	1.00	66.13	A16	
ATOM	22994	O6	GUA	89.906	53.925	-17.132	1.00	70.40	A16S	ATOM	23047	P	CYT	180	99.745	59.539	-23.569	1.00	49.00	A16
ATOM	22995	C5	GUA	89.677	55.925	-15.877	1.00	70.40	A16S	ATOM	23048	O1P CYT	180	101.106	60.090	-23.807	1.00	55.27	A16	
ATOM	22996	N7	GUA	88.445	56.458	-16.229	1.00	70.40	A16S	ATOM	23049	O2P CYT	180	98.578	60.461	-23.488	1.00	55.27	A16	
ATOM	22997	C8	GUA	88.354	57.555	-15.525	1.00	70.40	A16S	ATOM	23050	O5' CYT	180	99.459	58.422	-24.665	1.00	49.00	A16	
ATOM	22998	C2' GUA	177	90.714	59.908	-14.443	1.00	80.32	A16S	ATOM	23051	C5' CYT	180	100.447	57.427	-24.930	1.00	49.00	A16	
ATOM	22999	O2' GUA	177	91.423	60.534	-13.391	1.00	80.32	A16S	ATOM	23052	C4' CYT	180	99.958	56.453	-25.962	1.00	49.00	A16	
ATOM	23000	C3' GUA	177	89.828	60.876	-15.218	1.00	80.32	A16S	ATOM	23053	O4' CYT	180	98.919	55.607	-25.414	1.00	49.00	A16	
ATOM	23001	O3' GUA	177	90.435	62.151	-15.399	1.00	80.32	A16S	ATOM	23054	C1' CYT	180	98.005	55.259	-26.443	1.00	49.00	A16	
ATOM	23002	P	GUA	91.071	62.543	-16.825	1.00	63.09	A16S	ATOM	23055	N1 CYT	180	96.681	55.793	-26.081	1.00	55.27	A16	
ATOM	23003	O1P GUA	178	91.476	63.965	-16.660	1.00	58.15	A16S	ATOM	23056	C6 CYT	180	96.564	56.807	-25.174	1.00	55.27	A16	
ATOM	23004	O2P GUA	178	90.160	62.159	-17.942	1.00	58.15	A16S	ATOM	23057	C2 CYT	180	95.538	55.253	-26.691	1.00	55.27	A16	
ATOM	23005	O5' GUA	178	92.363	61.617	-16.955	1.00	63.09	A16S	ATOM	23058	O2 CYT	180	95.664	54.312	-27.494	1.00	55.27	A16	
ATOM	23006	C5' GUA	178	93.508	61.807	-16.101	1.00	63.09	A16S	ATOM	23059	N3 CYT	180	94.327	55.770	-26.386	1.00	55.27	A16	
ATOM	23007	C4' GUA	178	94.454	60.633	-16.219	1.00	63.09	A16S	ATOM	23060	C4 CYT	180	94.231	56.770	-26.386	1.00	55.27	A16	
ATOM	23008	O4' GUA	178	93.752	59.423	-15.831	1.00	63.09	A16S	ATOM	23061	N4 CYT	180	93.023	57.258	-25.246	1.00	55.27	A16	
ATOM	23009	C1' GUA	178	94.217	58.327	-16.599	1.00	63.09	A16S	ATOM	23062	C5 CYT	180	95.373	57.319	-24.861	1.00	55.27	A16	
ATOM	23010	N9	GUA	93.112	57.796	-17.397	1.00	58.15	A16S	ATOM	23063	C2' CYT	180	98.526	55.871	-27.743	1.00	49.00	A16	
ATOM	23011	C4	GUA	93.116	56.595	-18.076	1.00	58.15	A16S	ATOM	23064	O2' CYT	180	99.346	54.931	-28.412	1.00	49.00	A16	
ATOM	23012	N3	GUA	94.122	55.692	-18.085	1.00	58.15	A16S	ATOM	23065	C3' CYT	180	99.338	57.041	-27.213	1.00	49.00	A16	
ATOM	23013	C2	GUA	93.855	54.652	-18.855	1.00	58.15	A16S	ATOM	23066	O3' CYT	180	100.319	57.465	-28.125	1.00	49.00	A16	
ATOM	23014	N2	GUA	94.754	53.666	-18.964	1.00	58.15	A16S	ATOM	23067	P	CYT	181	99.964	58.611	-29.185	1.00	59.36	A16
ATOM	23015	N1	GUA	92.693	54.507	-19.569	1.00	58.15	A16S	ATOM	23068	O1P CYT	181	101.280	58.977	-29.765	1.00	64.78	A16	
ATOM	23016	C6	GUA	91.638	55.416	-19.577	1.00	58.15	A16S	ATOM	23069	O2P CYT	181	99.125	59.656	-28.545	1.00	64.78	A16	
ATOM	23017	O6	GUA	90.634	55.182	-20.262	1.00	58.15	A16S	ATOM	23070	O5' CYT	181	99.103	57.839	-30.279	1.00	59.36	A16	
ATOM	23018	C5	GUA	91.911	56.545	-18.740	1.00	58.15	A16S	ATOM	23071	C5' CYT	181	99.675	56.726	-30.982	1.00	59.36	A16	
ATOM	23019	N7	GUA	91.150	57.675	-18.462	1.00	58.15	A16S	ATOM	23072	C4' CYT	181	98.657	56.096	-31.892	1.00	59.36	A16	
ATOM	23020	C8	GUA	91.897	58.383	-17.656	1.00	58.15	A16S	ATOM	23073	O4' CYT	181	97.658	55.395	-31.115	1.00	59.36	A16	

Table 1 - 218/490



Table 1 - 219/490

ATOM	23074	C1' CYT	181	96.403	55.485	-31.766	1.00	59.36	A16S	ATOM	23127	O2' GUA	183	88.491	64.242	-37.582	1.00	78.41	A16
ATOM	23075	N1' CYT	181	95.451	56.145	-30.857	1.00	64.78	A16S	ATOM	23128	C3' GUA	183	90.879	63.915	-37.786	1.00	78.41	A16
ATOM	23076	C6' CYT	181	95.887	56.901	-29.804	1.00	64.78	A16S	ATOM	23129	O3' GUA	183	90.799	64.744	-38.951	1.00	78.41	A16
ATOM	23077	C2' CYT	181	94.086	55.989	-31.092	1.00	64.78	A16S	ATOM	23130	P	184	91.376	66.254	-38.903	1.00	61.96	A16
ATOM	23078	O2' CYT	181	93.720	55.297	-32.056	1.00	64.78	A16S	ATOM	23131	O1P CYT	184	91.138	66.856	-40.242	1.00	70.73	A16
ATOM	23079	N3' CYT	181	93.197	56.596	-30.263	1.00	64.78	A16S	ATOM	23132	O2P CYT	184	92.754	66.226	-38.350	1.00	70.73	A16
ATOM	23080	C4' CYT	181	93.636	57.329	-29.234	1.00	64.78	A16S	ATOM	23133	O5' CYT	184	90.436	66.981	-37.838	1.00	61.96	A16
ATOM	23081	N4' CYT	181	92.730	57.899	-28.434	1.00	64.78	A16S	ATOM	23134	C5' CYT	184	89.037	67.183	-38.109	1.00	61.96	A16
ATOM	23082	C5' CYT	181	95.022	57.506	-28.977	1.00	64.78	A16S	ATOM	23135	C4' CYT	184	88.340	67.763	-36.902	1.00	61.96	A16
ATOM	23083	C2' CYT	181	96.609	56.253	-33.072	1.00	59.36	A16S	ATOM	23136	O4' CYT	184	88.328	66.799	-35.813	1.00	61.96	A16
ATOM	23084	C3' CYT	181	96.791	55.337	-34.136	1.00	59.36	A16S	ATOM	23137	C1' CYT	184	88.330	67.484	-34.569	1.00	61.96	A16
ATOM	23085	C3' CYT	181	97.868	57.053	-32.762	1.00	59.36	A16S	ATOM	23138	N1' CYT	184	89.492	67.044	-33.767	1.00	70.73	A16
ATOM	23086	O3' CYT	181	98.594	57.387	-33.929	1.00	59.36	A16S	ATOM	23139	C6' CYT	184	90.623	66.555	-34.365	1.00	70.73	A16
ATOM	23087	P	182	98.488	58.871	-34.534	1.00	66.26	A16S	ATOM	23140	C2' CYT	184	89.434	67.174	-32.363	1.00	70.73	A16
ATOM	23088	O1P CYT	182	99.441	58.905	-35.675	1.00	50.55	A16S	ATOM	23141	O2' CYT	184	88.380	67.565	-31.835	1.00	70.73	A16
ATOM	23089	O2P CYT	182	98.614	59.859	-33.434	1.00	50.55	A16S	ATOM	23142	N3' CYT	184	90.528	66.868	-31.623	1.00	70.73	A16
ATOM	23090	O5' CYT	182	97.002	58.951	-33.104	1.00	66.26	A16S	ATOM	23143	C4' CYT	184	91.638	66.434	-32.223	1.00	70.73	A16
ATOM	23091	C5' CYT	182	96.605	58.116	-36.204	1.00	66.26	A16S	ATOM	23144	N4' CYT	184	92.701	66.181	-31.457	1.00	70.73	A16
ATOM	23092	C4' CYT	182	95.116	58.194	-36.421	1.00	66.26	A16S	ATOM	23145	C5' CYT	184	91.709	66.246	-33.639	1.00	70.73	A16
ATOM	23093	O4' CYT	182	94.418	57.611	-35.293	1.00	66.26	A16S	ATOM	23146	C2' CYT	184	88.405	68.988	-34.865	1.00	61.96	A16
ATOM	23094	C1' CYT	182	93.184	58.277	-35.102	1.00	66.26	A16S	ATOM	23147	O2' CYT	184	87.139	69.613	-34.754	1.00	61.96	A16
ATOM	23095	N1' CYT	182	93.194	58.929	-33.781	1.00	50.55	A16S	ATOM	23148	C3' CYT	184	88.964	69.003	-36.284	1.00	61.96	A16
ATOM	23096	C6' CYT	182	94.365	59.143	-33.106	1.00	50.55	A16S	ATOM	23149	O3' CYT	184	88.648	70.208	-36.972	1.00	61.96	A16
ATOM	23097	C2' CYT	182	91.974	59.344	-33.223	1.00	50.55	A16S	ATOM	23150	P	185	89.615	71.487	-36.810	1.00	76.22	A16
ATOM	23098	O2' CYT	182	91.919	59.141	-33.850	1.00	50.55	A16S	ATOM	23151	O1P CYT	185	89.298	72.464	-37.896	1.00	61.58	A16
ATOM	23099	N3' CYT	182	91.974	59.961	-32.020	1.00	50.55	A16S	ATOM	23152	O2P CYT	185	91.020	71.005	-36.635	1.00	61.58	A16
ATOM	23100	C4' CYT	182	93.123	60.167	-31.375	1.00	50.55	A16S	ATOM	23153	O5' CYT	185	89.157	72.129	-35.432	1.00	76.22	A16
ATOM	23101	N4' CYT	182	93.070	60.779	-30.194	1.00	50.55	A16S	ATOM	23154	C5' CYT	185	87.856	72.683	-35.293	1.00	76.22	A16
ATOM	23102	C5' CYT	182	94.375	59.754	-31.914	1.00	50.55	A16S	ATOM	23155	C4' CYT	185	87.642	73.107	-33.875	1.00	76.22	A16
ATOM	23103	C2' CYT	182	93.052	59.314	-36.213	1.00	66.26	A16S	ATOM	23156	O4' CYT	185	87.746	71.937	-33.030	1.00	76.22	A16
ATOM	23104	O2' CYT	182	92.342	58.750	-37.298	1.00	66.26	A16S	ATOM	23157	C1' CYT	185	88.384	72.281	-31.810	1.00	76.22	A16
ATOM	23105	C3' CYT	182	94.510	59.576	-36.552	1.00	66.26	A16S	ATOM	23158	N1' CYT	185	89.634	71.497	-31.694	1.00	61.58	A16
ATOM	23106	O3' CYT	182	94.663	60.130	-37.848	1.00	66.26	A16S	ATOM	23159	C6' CYT	185	90.136	70.813	-32.765	1.00	61.58	A16
ATOM	23107	P	183	94.651	61.728	-38.028	1.00	78.41	A16S	ATOM	23160	C2' CYT	185	90.309	71.471	-30.464	1.00	61.58	A16
ATOM	23108	O1P GUA	183	94.903	61.971	-39.463	1.00	52.44	A16S	ATOM	23161	O2' CYT	185	89.825	72.079	-29.498	1.00	61.58	A16
ATOM	23109	O2P GUA	183	95.528	62.353	-37.017	1.00	52.44	A16S	ATOM	23162	N3' CYT	185	91.471	70.780	-30.361	1.00	61.58	A16
ATOM	23110	O5' GUA	183	93.153	62.140	-37.678	1.00	78.41	A16S	ATOM	23163	C4' CYT	185	91.956	70.131	-31.422	1.00	61.58	A16
ATOM	23111	C5' GUA	183	92.068	61.763	-38.544	1.00	78.41	A16S	ATOM	23164	N4' CYT	185	93.113	69.481	-31.286	1.00	61.58	A16
ATOM	23112	C4' GUA	183	90.788	62.431	-38.107	1.00	78.41	A16S	ATOM	23165	C5' CYT	185	91.281	70.124	-32.674	1.00	61.58	A16
ATOM	23113	O4' GUA	183	90.311	61.818	-36.883	1.00	78.41	A16S	ATOM	23166	C2' CYT	185	88.636	73.790	-31.835	1.00	76.22	A16
ATOM	23114	C1' GUA	183	89.667	62.794	-36.086	1.00	78.41	A16S	ATOM	23167	O2' CYT	185	87.574	74.465	-31.180	1.00	76.22	A16
ATOM	23115	N9 GUA	183	90.368	62.889	-34.810	1.00	52.44	A16S	ATOM	23168	C3' CYT	185	88.694	74.056	-33.333	1.00	76.22	A16
ATOM	23116	C4 GUA	183	89.813	63.234	-33.604	1.00	52.44	A16S	ATOM	23169	O3' CYT	185	88.446	75.407	-33.694	1.00	76.22	A16
ATOM	23117	N3 GUA	183	88.520	63.535	-33.387	1.00	52.44	A16S	ATOM	23170	P	186	89.686	76.384	-34.014	1.00	71.92	A16
ATOM	23118	C2 GUA	183	88.286	63.830	-32.117	1.00	52.44	A16S	ATOM	23171	O1P CYT	186	89.116	77.599	-34.647	1.00	71.92	A16
ATOM	23119	N2 GUA	183	87.046	64.143	-31.720	1.00	52.44	A16S	ATOM	23172	O2P CYT	186	90.742	75.620	-34.720	1.00	71.92	A16
ATOM	23120	N1 GUA	183	89.244	63.835	-31.138	1.00	52.44	A16S	ATOM	23173	O5' CYT	186	90.220	76.791	-32.572	1.00	71.92	A16
ATOM	23121	C6 GUA	183	90.580	63.524	-31.331	1.00	52.44	A16S	ATOM	23174	C5' CYT	186	89.326	77.406	-31.633	1.00	71.92	A16
ATOM	23122	O6 GUA	183	91.359	63.547	-30.367	1.00	52.44	A16S	ATOM	23175	C4' CYT	186	89.930	77.424	-30.255	1.00	71.92	A16
ATOM	23123	C5 GUA	183	90.851	63.203	-32.700	1.00	52.44	A16S	ATOM	23176	O4' CYT	186	90.105	76.068	-29.773	1.00	71.92	A16
ATOM	23124	N7 GUA	183	92.037	62.842	-33.325	1.00	52.44	A16S	ATOM	23177	C1' CYT	186	91.274	75.993	-28.977	1.00	71.92	A16
ATOM	23125	C8 GUA	183	91.703	62.665	-34.574	1.00	52.44	A16S	ATOM	23178	N1' CYT	186	92.214	75.039	-29.605	1.00	71.92	A16
ATOM	23126	C2' GUA	183	89.692	64.115	-36.855	1.00	78.41	A16S	ATOM	23179	C6' CYT	186	92.124	74.726	-30.936	1.00	71.92	A16

ATOM	23180	C2	CYT	186	93.216	74.464	-28.811	1.00	71.98	Al6S	ATOM	23233	O5' URI	189	104.879	76.175	-29.793	1.00	67.87	Al1	
ATOM	23181	O2	CYT	186	93.267	74.755	-27.602	1.00	71.98	Al6S	ATOM	23234	C5' URI	189	104.709	74.812	-29.427	1.00	67.87	Al1	
ATOM	23182	W3	CYT	186	94.100	73.609	-29.379	1.00	71.98	Al6S	ATOM	23235	C4' URI	189	105.236	73.917	-30.507	1.00	67.87	Al6	
ATOM	23183	C4	CYT	186	94.008	73.321	-30.679	1.00	71.98	Al6S	ATOM	23236	O4' URI	189	106.505	74.435	-30.970	1.00	67.87	Al6	
ATOM	23184	N4	CYT	186	94.909	72.481	-31.197	1.00	71.98	Al6S	ATOM	23237	C1' URI	189	107.523	73.476	-30.758	1.00	67.87	Al6	
ATOM	23185	C5	CYT	186	92.991	73.882	-31.507	1.00	71.98	Al6S	ATOM	23238	N1	URI	189	108.704	74.176	-30.226	1.00	53.40	Al6
ATOM	23186	C2' CYT	186	91.854	77.405	-28.879	1.00	71.92	Al6S	ATOM	23239	C6	URI	189	108.574	75.113	-29.232	1.00	53.40	Al6	
ATOM	23187	O2' CYT	186	91.378	78.022	-27.699	1.00	71.92	Al6S	ATOM	23240	C2	URI	189	109.946	73.860	-30.746	1.00	53.40	Al6	
ATOM	23188	C3' CYT	186	91.304	78.050	-30.146	1.00	71.92	Al6S	ATOM	23241	O2	URI	189	110.110	73.050	-31.646	1.00	53.40	Al6	
ATOM	23189	O3' CYT	186	91.215	79.463	-30.063	1.00	71.92	Al6S	ATOM	23242	N3	URI	189	110.994	74.535	-30.176	1.00	53.40	Al6	
ATOM	23190	W4	CYT	187	92.483	80.362	-30.475	1.00	83.11	Al6S	ATOM	23243	C4	URI	189	110.923	75.476	-29.170	1.00	53.40	Al6
ATOM	23191	O1P	CYT	187	92.024	81.775	-30.541	1.00	83.11	Al6S	ATOM	23244	O4	URI	189	111.954	75.995	-28.749	1.00	53.40	Al6
ATOM	23192	O2P	CYT	187	93.155	79.748	-31.665	1.00	70.49	Al6S	ATOM	23245	C5	URI	189	109.608	75.751	-28.703	1.00	53.40	Al6
ATOM	23193	O5' CYT	187	93.412	80.243	-29.192	1.00	83.11	Al6S	ATOM	23246	C2' URI	189	106.973	72.458	-29.758	1.00	67.87	Al6		
ATOM	23194	C5' CYT	187	94.823	80.192	-29.319	1.00	83.11	Al6S	ATOM	23247	O2' URI	189	107.556	71.185	-29.946	1.00	67.87	Al6		
ATOM	23195	C4' CYT	187	95.387	79.200	-28.341	1.00	83.11	Al6S	ATOM	23248	C3' URI	189	105.477	72.493	-30.036	1.00	67.87	Al6		
ATOM	23196	O4' CYT	187	94.893	77.869	-28.627	1.00	83.11	Al6S	ATOM	23249	O3' URI	189	105.136	71.575	-31.052	1.00	67.87	Al6		
ATOM	23197	C1' CYT	187	95.946	76.927	-28.495	1.00	83.11	Al6S	ATOM	23250	P	GUA	190	103.893	70.593	-30.828	1.00	50.60	Al6	
ATOM	23198	N1	CYT	187	96.184	76.335	-29.827	1.00	70.49	Al6S	ATOM	23251	O1P	GUA	190	104.185	69.328	-31.555	1.00	61.95	Al6
ATOM	23199	C6	CYT	187	95.488	76.776	-30.916	1.00	70.49	Al6S	ATOM	23252	O2P	GUA	190	102.647	71.356	-31.142	1.00	61.95	Al6
ATOM	23200	C2	CYT	187	97.130	75.306	-29.966	1.00	70.49	Al6S	ATOM	23253	O5' GUA	190	103.914	70.305	-29.260	1.00	50.60	Al6	
ATOM	23201	O2	CYT	187	97.771	74.929	-28.974	1.00	70.49	Al6S	ATOM	23254	C5' GUA	190	102.802	69.649	-28.625	1.00	50.60	Al6	
ATOM	23202	N3	CYT	187	97.326	74.751	-31.183	1.00	70.49	Al6S	ATOM	23255	C4' GUA	190	103.289	68.713	-27.545	1.00	50.60	Al6	
ATOM	23203	C4	CYT	187	96.632	75.189	-32.236	1.00	70.49	Al6S	ATOM	23256	O4' GUA	190	104.290	67.823	-28.105	1.00	50.60	Al6	
ATOM	23204	N4	CYT	187	96.858	74.609	-33.417	1.00	70.49	Al6S	ATOM	23257	C1' GUA	190	105.430	67.835	-27.277	1.00	50.60	Al6	
ATOM	23205	C5	CYT	187	95.676	76.238	-32.125	1.00	70.49	Al6S	ATOM	23258	N9	GUA	190	106.607	67.432	-28.047	1.00	61.95	Al6
ATOM	23206	C2' CYT	187	97.162	77.675	-27.945	1.00	83.11	Al6S	ATOM	23259	C4	GUA	190	107.622	66.633	-27.579	1.00	61.95	Al6	
ATOM	23207	O2' CYT	187	97.199	77.610	-26.529	1.00	83.11	Al6S	ATOM	23260	N3	GUA	190	107.721	66.139	-26.325	1.00	61.95	Al6	
ATOM	23208	C3' CYT	187	96.887	79.080	-28.448	1.00	83.11	Al6S	ATOM	23261	C2	GUA	190	108.774	65.358	-26.185	1.00	61.95	Al6	
ATOM	23209	O3' CYT	187	97.482	80.093	-27.683	1.00	83.11	Al6S	ATOM	23262	N2	GUA	190	109.008	64.775	-25.004	1.00	61.95	Al6	
ATOM	23210	P	URI	188	98.397	81.178	-28.413	1.00	70.37	Al6S	ATOM	23263	N1	GUA	190	109.671	65.089	-27.193	1.00	61.95	Al6
ATOM	23211	O1P	URI	188	98.044	82.478	-27.791	1.00	60.81	Al6S	ATOM	23264	C6	GUA	190	109.593	65.587	-28.491	1.00	61.95	Al6
ATOM	23212	O2P	URI	188	98.289	81.009	-29.905	1.00	60.81	Al6S	ATOM	23265	O6	GUA	190	110.453	65.269	-29.324	1.00	61.95	Al6
ATOM	23213	O5' URI	188	99.853	80.766	-27.918	1.00	70.37	Al6S	ATOM	23266	C5	GUA	190	108.457	66.429	-28.658	1.00	61.95	Al6	
ATOM	23214	C5' URI	188	100.912	80.466	-28.845	1.00	70.37	Al6S	ATOM	23267	N7	GUA	190	107.997	67.115	-29.773	1.00	61.95	Al6	
ATOM	23215	C4' URI	188	101.249	78.997	-28.788	1.00	70.37	Al6S	ATOM	23268	C8	GUA	190	106.905	67.705	-29.362	1.00	61.95	Al6	
ATOM	23216	O4' URI	188	100.234	78.255	-29.512	1.00	70.37	Al6S	ATOM	23269	C2' GUA	190	105.423	69.185	-26.570	1.00	50.60	Al6		
ATOM	23217	C1' URI	188	100.835	77.508	-30.546	1.00	70.37	Al6S	ATOM	23270	O2' GUA	190	106.155	69.098	-25.369	1.00	50.60	Al6		
ATOM	23218	N1	URI	188	99.944	77.506	-31.711	1.00	60.81	Al6S	ATOM	23271	C3' GUA	190	103.928	69.365	-26.318	1.00	50.60	Al6	
ATOM	23219	C6	URI	188	98.947	78.441	-31.863	1.00	60.81	Al6S	ATOM	23272	O3' GUA	190	103.611	68.592	-25.162	1.00	50.60	Al6	
ATOM	23220	O2	URI	188	100.140	76.516	-32.652	1.00	60.81	Al6S	ATOM	23273	P	GUA	191	102.125	68.609	-24.549	1.00	53.87	Al6
ATOM	23221	O2	URI	188	101.028	75.688	-32.562	1.00	60.81	Al6S	ATOM	23274	O1P	GUA	191	102.233	67.893	-23.250	1.00	52.21	Al6
ATOM	23222	N3	URI	188	99.262	76.532	-33.706	1.00	60.81	Al6S	ATOM	23275	O2P	GUA	191	101.176	68.107	-25.586	1.00	52.21	Al6
ATOM	23223	C4	URI	188	98.237	77.430	-33.915	1.00	60.81	Al6S	ATOM	23276	O5' GUA	191	101.823	70.146	-24.255	1.00	53.87	Al6	
ATOM	23224	O4	URI	188	97.511	77.297	-34.899	1.00	60.81	Al6S	ATOM	23277	C5' GUA	191	102.291	70.775	-23.044	1.00	53.87	Al6	
ATOM	23225	C5	URI	188	98.110	78.438	-32.905	1.00	60.81	Al6S	ATOM	23278	C4' GUA	191	101.392	71.934	-22.674	1.00	53.87	Al6	
ATOM	23226	C2' URI	188	102.182	78.159	-30.824	1.00	70.37	Al6S	ATOM	23279	O4' GUA	191	101.376	72.878	-23.772	1.00	53.87	Al6		
ATOM	23227	O2' URI	188	103.075	77.239	-31.420	1.00	70.37	Al6S	ATOM	23280	C1' GUA	191	100.060	73.357	-23.991	1.00	53.87	Al6		
ATOM	23228	C3' URI	188	102.578	78.630	-29.429	1.00	70.37	Al6S	ATOM	23281	N9	GUA	191	99.612	72.811	-25.268	1.00	52.21	Al6	
ATOM	23229	O3' URI	188	103.142	77.575	-28.663	1.00	70.37	Al6S	ATOM	23282	C4	GUA	191	98.393	73.008	-25.867	1.00	52.21	Al6	
ATOM	23230	P	URI	189	104.721	77.321	-28.705	1.00	67.87	Al6S	ATOM	23283	N3	GUA	191	97.382	73.747	-25.373	1.00	52.21	Al6
ATOM	23231	O1P	URI	189	105.119	76.787	-27.381	1.00	53.40	Al6S	ATOM	23284	C2	GUA	191	96.330	73.739	-26.173	1.00	52.21	Al6
ATOM	23232	O2P	URI	189	105.383	78.539	-29.230	1.00	53.40	Al6S	ATOM	23285	N2	GUA	191	95.225	74.420	-25.820	1.00	52.21	Al6

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ATOM	23286	N1	GUA	191	96.282	73.060	-27.370	1.00	52.21	A16S	ATOM	23339	O2'	GUA	193	87.138	70.119	-24.081	1.00	73.34	A1'
ATOM	23287	C6'	GUA	191	97.310	72.288	-27.892	1.00	52.21	A16S	ATOM	23340	C3'	GUA	193	88.835	69.058	-22.673	1.00	73.34	A1'
ATOM	23288	O6'	GUA	191	97.159	71.709	-28.967	1.00	52.21	A16S	ATOM	23341	O3'	GUA	193	87.745	68.693	-21.838	1.00	73.34	A1'
ATOM	23289	C5'	GUA	191	98.441	72.289	-27.043	1.00	52.21	A16S	ATOM	23342	P	URI	194	87.291	67.148	-21.759	1.00	72.15	A1'
ATOM	23290	N7	GUA	191	99.668	71.654	-27.183	1.00	52.21	A16S	ATOM	23343	O1P	URI	194	86.129	67.111	-20.828	1.00	78.43	A1'
ATOM	23291	C8	GUA	191	100.329	71.990	-26.110	1.00	52.21	A16S	ATOM	23344	O2P	URI	194	88.485	66.302	-21.474	1.00	78.43	A1'
ATOM	23292	C2'	GUA	191	99.211	72.865	-22.827	1.00	53.87	A16S	ATOM	23345	O5'	URI	194	86.807	66.810	-23.244	1.00	72.15	A1'
ATOM	23293	O2'	GUA	191	99.231	73.819	-21.782	1.00	53.87	A16S	ATOM	23346	C5'	URI	194	85.695	67.506	-23.830	1.00	72.15	A1'
ATOM	23294	C3'	GUA	191	99.934	71.577	-22.467	1.00	53.87	A16S	ATOM	23347	C4'	URI	194	85.457	67.034	-25.247	1.00	72.15	A1'
ATOM	23295	O3'	GUA	191	99.673	71.157	-21.145	1.00	53.87	A16S	ATOM	23348	O4'	URI	194	86.571	67.412	-26.093	1.00	72.15	A1'
ATOM	23296	P	GUA	192	98.634	69.962	-20.898	1.00	77.42	A16S	ATOM	23349	C1'	URI	194	86.752	66.438	-27.111	1.00	72.15	A1'
ATOM	23297	O1P	GUA	192	98.724	69.690	-19.439	1.00	61.79	A16S	ATOM	23350	N1	URI	194	88.100	65.864	-26.982	1.00	78.43	A1'
ATOM	23298	O2P	GUA	192	98.913	68.869	-21.875	1.00	61.79	A16S	ATOM	23351	C6	URI	194	88.792	65.915	-25.792	1.00	78.43	A1'
ATOM	23299	O5'	GUA	192	97.212	70.585	-21.274	1.00	77.42	A16S	ATOM	23352	C2	URI	194	88.651	65.261	-28.103	1.00	78.43	A1'
ATOM	23300	C5'	GUA	192	96.593	71.565	-20.424	1.00	77.42	A16S	ATOM	23353	O2	URI	194	88.076	65.195	-29.174	1.00	78.43	A1'
ATOM	23301	C4'	GUA	192	95.477	72.673	-22.272	1.00	77.42	A16S	ATOM	23354	N3	URI	194	89.903	64.737	-27.919	1.00	78.43	A1'
ATOM	23302	C1'	GUA	192	94.334	72.494	-23.091	1.00	77.42	A16S	ATOM	23355	C4	URI	194	90.648	64.755	-26.759	1.00	78.43	A1'
ATOM	23303	N9	GUA	192	94.718	71.734	-24.273	1.00	61.79	A16S	ATOM	23356	O4	URI	194	91.779	64.268	-26.763	1.00	78.43	A1'
ATOM	23304	C9	GUA	192	93.976	71.604	-25.421	1.00	61.79	A16S	ATOM	23357	C5	URI	194	90.011	65.395	-25.646	1.00	78.43	A1'
ATOM	23305	C4	GUA	192	92.773	72.168	-25.655	1.00	61.79	A16S	ATOM	23358	C2'	URI	194	85.673	65.373	-26.935	1.00	72.15	A1'
ATOM	23306	N3	GUA	192	92.304	71.848	-26.850	1.00	61.79	A16S	ATOM	23359	O2'	URI	194	84.594	65.631	-27.812	1.00	72.15	A1'
ATOM	23307	C2	GUA	192	91.117	72.314	-27.238	1.00	61.79	A16S	ATOM	23360	C3'	URI	194	85.323	65.536	-25.460	1.00	72.15	A1'
ATOM	23308	N2	GUA	192	92.964	71.047	-27.750	1.00	61.79	A16S	ATOM	23361	O3'	URI	194	84.028	65.052	-25.166	1.00	72.15	A1'
ATOM	23309	N1	GUA	192	94.205	70.462	-27.533	1.00	61.79	A16S	ATOM	23362	P	GUA	195	83.842	63.523	-24.710	1.00	71.83	A1'
ATOM	23310	C6	GUA	192	94.719	69.764	-28.412	1.00	61.79	A16S	ATOM	23363	O1P	GUA	195	82.529	63.475	-24.014	1.00	63.00	A1'
ATOM	23311	O6	GUA	192	94.719	70.786	-26.246	1.00	61.79	A16S	ATOM	23364	O2P	GUA	195	85.068	63.070	-23.997	1.00	63.00	A1'
ATOM	23312	C5	GUA	192	95.905	70.410	-25.628	1.00	61.79	A16S	ATOM	23365	O5'	GUA	195	83.724	62.724	-26.085	1.00	71.83	A1'
ATOM	23313	N7	GUA	192	95.862	70.996	-24.462	1.00	61.79	A16S	ATOM	23366	C5'	GUA	195	82.594	62.932	-26.945	1.00	71.83	A1'
ATOM	23314	C8	GUA	192	93.310	71.701	-22.286	1.00	77.42	A16S	ATOM	23367	O4'	GUA	195	82.761	62.176	-28.237	1.00	71.83	A1'
ATOM	23315	C2'	GUA	192	92.403	72.586	-21.657	1.00	77.42	A16S	ATOM	23368	C4'	GUA	195	83.828	62.765	-29.025	1.00	71.83	A1'
ATOM	23316	O2'	GUA	192	94.204	70.972	-21.295	1.00	77.42	A16S	ATOM	23369	C1'	GUA	195	84.499	61.749	-29.757	1.00	71.83	A1'
ATOM	23317	O3'	GUA	192	93.456	70.542	-20.167	1.00	77.42	A16S	ATOM	23370	N9	GUA	195	85.878	61.682	-29.282	1.00	63.00	A1'
ATOM	23318	C3'	GUA	192	92.679	69.135	-20.235	1.00	73.34	A16S	ATOM	23371	C4	GUA	195	86.984	61.263	-29.996	1.00	63.00	A1'
ATOM	23319	P	GUA	193	92.044	68.933	-18.903	1.00	66.12	A16S	ATOM	23372	N3	GUA	195	86.995	60.855	-31.286	1.00	63.00	A1'
ATOM	23320	O1P	GUA	193	93.621	68.112	-20.756	1.00	66.12	A16S	ATOM	23373	C2	GUA	195	88.213	60.519	-31.583	1.00	63.00	A1'
ATOM	23321	O2P	GUA	193	91.550	69.371	-21.343	1.00	73.34	A16S	ATOM	23374	N2	GUA	195	88.413	60.092	-32.933	1.00	63.00	A1'
ATOM	23322	O5'	GUA	193	90.505	70.333	-21.119	1.00	73.34	A16S	ATOM	23375	N1	GUA	195	89.327	60.576	-30.882	1.00	63.00	A1'
ATOM	23323	C5'	GUA	193	89.513	70.354	-22.263	1.00	73.34	A16S	ATOM	23376	C6	GUA	195	89.340	60.992	-29.555	1.00	63.00	A1'
ATOM	23324	C4'	GUA	193	90.153	70.809	-23.480	1.00	73.34	A16S	ATOM	23377	O6	GUA	195	90.401	61.010	-28.923	1.00	63.00	A1'
ATOM	23325	O4'	GUA	193	89.482	70.260	-24.601	1.00	73.34	A16S	ATOM	23378	C5	GUA	195	88.044	61.355	-29.113	1.00	63.00	A1'
ATOM	23326	C1'	GUA	193	90.419	69.434	-25.349	1.00	66.12	A16S	ATOM	23379	N7	GUA	195	87.617	61.823	-27.875	1.00	63.00	A1'
ATOM	23327	N9	GUA	193	90.286	69.038	-26.661	1.00	66.12	A16S	ATOM	23380	C8	GUA	195	86.332	62.006	-28.022	1.00	63.00	A1'
ATOM	23328	C4	GUA	193	89.274	69.370	-27.493	1.00	66.12	A16S	ATOM	23381	C2'	GUA	195	83.771	60.435	-29.481	1.00	71.83	A1'
ATOM	23329	N3	GUA	193	89.405	68.799	-28.682	1.00	66.12	A16S	ATOM	23382	O2'	GUA	195	82.811	60.204	-30.493	1.00	71.83	A1'
ATOM	23330	C2	GUA	193	88.476	69.004	-29.624	1.00	66.12	A16S	ATOM	23383	C3'	GUA	195	83.150	60.716	-28.118	1.00	71.83	A1'
ATOM	23331	N2	GUA	193	90.451	67.981	-29.032	1.00	66.12	A16S	ATOM	23384	O3'	GUA	195	82.064	59.859	-27.807	1.00	71.83	A1'
ATOM	23332	N1	GUA	193	91.504	67.627	-28.194	1.00	66.12	A16S	ATOM	23385	P	URI	196	82.344	58.510	-26.974	1.00	64.12	A1'
ATOM	23333	C6	GUA	193	92.392	66.871	-28.606	1.00	66.12	A16S	ATOM	23386	O1P	URI	196	81.025	57.985	-26.538	1.00	72.93	A1'
ATOM	23334	O6	GUA	193	91.373	68.226	-26.910	1.00	66.12	A16S	ATOM	23387	O2P	URI	196	83.395	58.781	-25.953	1.00	72.93	A1'
ATOM	23335	C5	GUA	193	92.182	68.128	-25.784	1.00	66.12	A16S	ATOM	23388	O5'	URI	196	82.943	57.518	-28.070	1.00	64.12	A1'
ATOM	23336	N7	GUA	193	91.582	68.866	-24.888	1.00	66.12	A16S	ATOM	23389	C5'	URI	196	82.143	57.129	-29.189	1.00	64.12	A1'
ATOM	23337	C8	GUA	193	88.347	69.386	-24.078	1.00	73.34	A16S	ATOM	23390	C4'	URI	196	82.932	56.287	-30.158	1.00	64.12	A1'
ATOM	23338	C2'	GUA	193							ATOM	23391	O4'	URI	196	83.921	57.091	-30.848	1.00	64.12	A1'

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ATOM	23392	C1' URI	196	85.020	56.273	-31.224	1.00	64.12	A16S	ATOM	23445	O2' URI	198	93.516	47.941	-26.431	1.00	66.37	A16
ATOM	23393	N1' URI	196	86.245	56.762	-30.566	1.00	72.93	A16S	ATOM	23446	C3' URI	198	91.099	47.769	-26.064	1.00	66.37	A16
ATOM	23394	O1' URI	196	86.204	57.546	-29.426	1.00	72.93	A16S	ATOM	23447	O3' URI	198	91.311	46.409	-25.721	1.00	66.37	A16
ATOM	23395	C2' URI	196	87.459	56.377	-31.118	1.00	72.93	A16S	ATOM	23448	P	199	91.182	45.951	-24.181	1.00	66.90	A16
ATOM	23396	O2' URI	196	87.546	55.718	-32.150	1.00	72.93	A16S	ATOM	23449	O1P CYT	199	91.573	44.517	-24.140	1.00	55.03	A16
ATOM	23397	N3 URI	196	88.569	56.793	-30.420	1.00	72.93	A16S	ATOM	23450	O2P CYT	199	89.866	46.377	-23.640	1.00	55.03	A16
ATOM	23398	C4 URI	196	88.597	57.550	-29.265	1.00	72.93	A16S	ATOM	23451	O5' CYT	199	92.301	46.799	-23.429	1.00	66.90	A16
ATOM	23399	O4 URI	196	89.683	57.793	-28.728	1.00	72.93	A16S	ATOM	23452	C5' CYT	199	93.690	46.676	-23.804	1.00	66.90	A16
ATOM	23400	C5 URI	196	87.306	57.939	-28.777	1.00	72.93	A16S	ATOM	23453	C4' CYT	199	94.540	47.649	-23.027	1.00	66.90	A16
ATOM	23401	C2' URI	196	84.708	54.856	-30.751	1.00	64.12	A16S	ATOM	23454	O4' CYT	199	94.252	49.011	-23.427	1.00	66.90	A16
ATOM	23402	O3' URI	196	84.119	54.129	-31.810	1.00	64.12	A16S	ATOM	23455	C1' CYT	199	94.421	49.872	-22.316	1.00	66.90	A16
ATOM	23403	C3' URI	196	83.735	55.124	-29.613	1.00	64.12	A16S	ATOM	23456	N1 CYT	199	93.160	50.573	-22.044	1.00	55.03	A16
ATOM	23404	O3' URI	196	82.963	53.984	-29.319	1.00	64.12	A16S	ATOM	23457	C6 CYT	199	91.966	50.083	-22.482	1.00	55.03	A16
ATOM	23405	P	197	83.497	52.944	-28.221	1.00	69.48	A16S	ATOM	23458	C2' CYT	199	93.206	51.765	-22.314	1.00	55.03	A16
ATOM	23406	O1P GUA	197	82.525	51.825	-28.178	1.00	64.07	A16S	ATOM	23459	O2' CYT	199	94.302	52.186	-20.917	1.00	55.03	A16
ATOM	23407	O2P GUA	197	83.792	53.698	-26.990	1.00	64.07	A16S	ATOM	23460	N3 CYT	199	92.063	52.426	-21.053	1.00	55.03	A16
ATOM	23408	O5' GUA	197	84.871	52.407	-28.826	1.00	69.48	A16S	ATOM	23461	C4 CYT	199	90.904	51.942	-21.484	1.00	55.03	A16
ATOM	23409	C5' GUA	197	84.878	51.556	-29.989	1.00	69.48	A16S	ATOM	23462	N4 CYT	199	89.802	52.635	-21.202	1.00	55.03	A16
ATOM	23410	C4' GUA	197	86.277	51.079	-30.291	1.00	69.48	A16S	ATOM	23463	C5' CYT	199	90.822	50.729	-22.225	1.00	55.03	A16
ATOM	23411	O4' GUA	197	88.427	52.044	-30.265	1.00	69.48	A16S	ATOM	23464	O2' CYT	199	94.846	49.023	-21.124	1.00	66.90	A16
ATOM	23412	C1' GUA	197	88.707	53.125	-29.318	1.00	64.07	A16S	ATOM	23465	C2' CYT	199	96.252	49.061	-21.026	1.00	66.90	A16
ATOM	23413	N9 GUA	197	89.938	53.511	-28.833	1.00	64.07	A16S	ATOM	23466	C3' CYT	199	94.318	47.656	-21.528	1.00	66.90	A16
ATOM	23414	C4 GUA	197	91.125	52.959	-29.146	1.00	64.07	A16S	ATOM	23467	O3' CYT	199	94.987	46.598	-20.880	1.00	66.90	A16
ATOM	23415	N3 GUA	197	92.125	53.544	-28.507	1.00	64.07	A16S	ATOM	23468	P	200	94.386	46.020	-19.513	1.00	54.29	A16
ATOM	23416	C2 GUA	197	93.373	53.112	-28.686	1.00	64.07	A16S	ATOM	23469	O1P CYT	200	95.107	44.756	-19.228	1.00	54.24	A16
ATOM	23417	N2 GUA	197	91.978	54.592	-27.646	1.00	64.07	A16S	ATOM	23470	O2P CYT	200	92.899	46.029	-19.580	1.00	54.24	A16
ATOM	23418	N1 GUA	197	90.772	55.188	-27.319	1.00	64.07	A16S	ATOM	23471	O5' CYT	200	94.809	47.089	-18.415	1.00	54.29	A16
ATOM	23419	C6 GUA	197	90.753	56.154	-26.548	1.00	64.07	A16S	ATOM	23472	C5' CYT	200	96.147	47.121	-17.912	1.00	54.29	A16
ATOM	23420	O6 GUA	197	89.682	54.559	-27.976	1.00	64.07	A16S	ATOM	23473	C4' CYT	200	96.315	48.282	-16.979	1.00	54.29	A16
ATOM	23421	C5 GUA	197	88.320	54.823	-27.910	1.00	64.07	A16S	ATOM	23474	O4' CYT	200	95.935	49.494	-17.676	1.00	54.29	A16
ATOM	23422	N7 GUA	197	87.784	53.956	-28.723	1.00	64.07	A16S	ATOM	23475	C1' CYT	200	95.322	50.396	-16.774	1.00	54.29	A16
ATOM	23423	C8 GUA	197	88.498	50.678	-29.585	1.00	69.48	A16S	ATOM	23476	N1 CYT	200	93.956	50.669	-17.251	1.00	54.24	A16
ATOM	23424	O2' GUA	197	88.854	49.701	-30.542	1.00	69.48	A16S	ATOM	23477	C6 CYT	200	93.390	49.887	-18.221	1.00	54.24	A16
ATOM	23425	C2' GUA	197	87.059	50.499	-29.125	1.00	69.48	A16S	ATOM	23478	C2 CYT	200	93.230	51.740	-16.687	1.00	54.24	A16
ATOM	23426	C3' GUA	197	86.747	49.145	-28.830	1.00	69.48	A16S	ATOM	23479	O2 CYT	200	93.775	52.461	-15.827	1.00	54.24	A16
ATOM	23427	O3' GUA	197	86.879	48.623	-27.310	1.00	66.37	A16S	ATOM	23480	N3 CYT	200	91.960	51.957	-17.103	1.00	54.24	A16
ATOM	23428	P	198	86.329	47.242	-27.263	1.00	66.37	A16S	ATOM	23481	C4 CYT	200	91.420	51.174	-18.043	1.00	54.24	A16
ATOM	23429	O1P URI	198	86.344	49.667	-26.389	1.00	66.45	A16S	ATOM	23482	N4 CYT	200	90.167	51.412	-18.418	1.00	54.24	A16
ATOM	23430	O2P URI	198	88.448	48.545	-27.054	1.00	66.37	A16S	ATOM	23483	C5 CYT	200	92.142	50.104	-18.642	1.00	54.24	A16
ATOM	23431	O5' URI	198	89.291	47.735	-27.884	1.00	66.37	A16S	ATOM	23484	C2' CYT	200	95.349	49.751	-15.389	1.00	54.29	A16
ATOM	23432	C5' URI	198	90.736	47.958	-27.526	1.00	66.37	A16S	ATOM	23485	O2' CYT	200	96.483	50.262	-14.719	1.00	54.29	A16
ATOM	23433	O4' URI	198	91.089	49.340	-27.796	1.00	66.37	A16S	ATOM	23486	C3' CYT	200	95.442	48.265	-15.739	1.00	54.29	A16
ATOM	23434	O4' URI	198	92.048	49.779	-26.852	1.00	66.37	A16S	ATOM	23487	O3' CYT	200	96.046	47.467	-14.716	1.00	54.29	A16
ATOM	23435	C1' URI	198	91.487	50.905	-26.094	1.00	66.45	A16S	ATOM	23488	P	201	95.245	46.216	-14.079	1.00	56.47	A16
ATOM	23436	N1 URI	198	90.138	51.138	-26.055	1.00	66.45	A16S	ATOM	23489	O1P ADE	201	96.227	45.120	-13.840	1.00	63.31	A16
ATOM	23437	C6 URI	198	92.371	51.727	-25.412	1.00	66.45	A16S	ATOM	23490	O2P ADE	201	94.027	45.946	-14.882	1.00	63.31	A16
ATOM	23438	C2 URI	198	93.579	51.549	-25.402	1.00	66.45	A16S	ATOM	23491	O5' ADE	201	94.767	46.749	-12.655	1.00	56.47	A16
ATOM	23439	O2 URI	198	91.786	52.763	-24.733	1.00	66.45	A16S	ATOM	23492	C5' ADE	201	93.961	47.936	-12.540	1.00	56.47	A16
ATOM	23440	N3 URI	198	90.443	53.054	-24.659	1.00	66.45	A16S	ATOM	23493	C4' ADE	201	94.496	48.827	-11.440	1.00	56.47	A16
ATOM	23441	O4 URI	198	90.070	54.045	-24.025	1.00	66.45	A16S	ATOM	23494	O4' ADE	201	93.776	50.076	-11.463	1.00	56.47	A16
ATOM	23442	C4 URI	198	89.599	52.152	-25.379	1.00	66.45	A16S	ATOM	23495	C1' ADE	201	93.542	50.515	-10.141	1.00	56.47	A16
ATOM	23443	C5 URI	198	92.367	48.602	-25.938	1.00	66.37	A16S	ATOM	23496	N9 ADE	201	92.096	50.631	-9.978	1.00	63.31	A16
ATOM	23444	C2' URI	198							ATOM	23497	C4 ADE	201	91.433	51.625	-9.309	1.00	63.31	A16



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ATOM	23498	N3	ADE	201	91.976	52.642	-8.623	1.00	63.31	A16S	ATOM	23551	O2' ADE	203	93.546	46.308	2.130	1.00	77.24	A16
ATOM	23499	C2' ADE	201	91.027	53.440	-8.140	1.00	63.31	A16S	ATOM	23552	C3' ADE	203	94.242	45.251	0.011	1.00	77.24	A16	
ATOM	23500	N4' ADE	201	89.699	53.344	-8.257	1.00	63.31	A16S	ATOM	23553	O3' ADE	203	92.962	44.569	-0.010	1.00	77.24	A16	
ATOM	23501	C6 ADE	201	89.188	52.304	-8.954	1.00	63.31	A16S	ATOM	23554	P	GUA	204	92.365	43.820	1.320	1.00	62.58	A16
ATOM	23502	N6 ADE	201	87.859	52.209	-9.075	1.00	63.31	A16S	ATOM	23555	O1P GUA	204	91.823	42.530	0.820	1.00	62.58	A16	
ATOM	23503	C5 ADE	201	90.093	51.385	-9.513	1.00	63.31	A16S	ATOM	23556	O2P GUA	204	91.473	44.736	2.086	1.00	51.25	A16	
ATOM	23504	N7 ADE	201	89.911	50.236	-10.265	1.00	63.31	A16S	ATOM	23557	O5' GUA	204	93.611	43.428	2.236	1.00	62.58	A16	
ATOM	23505	C8 ADE	201	91.125	49.820	-10.501	1.00	63.31	A16S	ATOM	23558	C5' GUA	204	93.440	43.156	3.639	1.00	62.58	A16	
ATOM	23506	C2' ADE	201	94.240	49.555	-9.175	1.00	56.47	A16S	ATOM	23559	C4' GUA	204	94.666	43.595	4.388	1.00	62.58	A16	
ATOM	23507	O2' ADE	201	95.481	50.105	-8.773	1.00	56.47	A16S	ATOM	23560	O4' GUA	204	95.006	44.926	3.940	1.00	62.58	A16	
ATOM	23508	O3' ADE	201	94.357	48.289	-10.022	1.00	56.47	A16S	ATOM	23561	C1' GUA	204	95.493	45.693	5.025	1.00	62.58	A16	
ATOM	23509	O3' ADE	201	95.523	47.542	-9.678	1.00	56.47	A16S	ATOM	23562	N9 GUA	204	94.529	46.758	5.304	1.00	51.25	A16	
ATOM	23510	P	ADE	202	95.388	46.148	-8.890	1.00	59.34	A16S	ATOM	23563	C4 GUA	204	94.731	47.853	6.113	1.00	51.25	A16
ATOM	23511	O1P ADE	202	96.690	45.452	-9.035	1.00	55.50	A16S	ATOM	23564	N3 GUA	204	95.864	48.143	6.786	1.00	51.25	A16	
ATOM	23512	O2P ADE	202	94.135	45.469	-9.330	1.00	55.50	A16S	ATOM	23565	C2 GUA	204	95.757	49.270	7.474	1.00	51.25	A16	
ATOM	23513	C5' ADE	202	95.242	46.576	-7.366	1.00	59.34	A16S	ATOM	23566	N2 GUA	204	96.798	49.707	8.190	1.00	51.25	A16	
ATOM	23514	C5' ADE	202	96.382	47.038	-6.618	1.00	59.34	A16S	ATOM	23567	N1 GUA	204	94.626	50.044	7.505	1.00	51.25	A16	
ATOM	23515	C4' ADE	202	95.918	47.769	-5.388	1.00	59.34	A16S	ATOM	23568	C6 GUA	204	93.445	49.758	6.829	1.00	51.25	A16	
ATOM	23516	O4' ADE	202	94.967	48.762	-5.823	1.00	59.34	A16S	ATOM	23569	O6 GUA	204	92.475	50.513	6.940	1.00	51.25	A16	
ATOM	23517	C1' ADE	202	93.899	48.837	-4.911	1.00	59.34	A16S	ATOM	23570	C5 GUA	204	93.550	48.559	6.077	1.00	51.25	A16	
ATOM	23518	N9 ADE	202	92.668	48.579	-5.651	1.00	55.50	A16S	ATOM	23571	N7 GUA	204	92.622	47.926	5.262	1.00	51.25	A16	
ATOM	23519	C4 ADE	202	91.600	49.434	-5.761	1.00	55.50	A16S	ATOM	23572	C8 GUA	204	93.243	46.864	4.829	1.00	51.25	A16	
ATOM	23520	N3 ADE	202	91.476	50.655	-5.213	1.00	55.50	A16S	ATOM	23573	C2' GUA	204	95.625	44.742	6.208	1.00	62.58	A16	
ATOM	23521	C2 ADE	202	90.308	51.196	-5.539	1.00	55.50	A16S	ATOM	23574	O2' GUA	204	96.898	44.125	6.168	1.00	62.58	A16	
ATOM	23522	N1 ADE	202	89.321	50.688	-6.283	1.00	55.50	A16S	ATOM	23575	C3' GUA	204	94.536	43.735	5.894	1.00	62.58	A16	
ATOM	23523	C6 ADE	202	89.472	49.451	-6.809	1.00	55.50	A16S	ATOM	23576	O3' GUA	204	94.751	42.532	6.599	1.00	62.58	A16	
ATOM	23524	N6 ADE	202	88.470	48.928	-7.528	1.00	55.50	A16S	ATOM	23577	P	GUA	205	93.993	42.289	7.995	1.00	55.90	A16
ATOM	23525	C5 ADE	202	90.676	48.782	-6.553	1.00	55.50	A16S	ATOM	23578	O1P GUA	205	94.344	40.906	8.418	1.00	49.20	A16	
ATOM	23526	N7 ADE	202	91.153	47.540	-6.945	1.00	55.50	A16S	ATOM	23579	O2P GUA	205	92.563	42.668	7.795	1.00	49.20	A16	
ATOM	23527	C8 ADE	202	92.335	47.466	-6.382	1.00	55.50	A16S	ATOM	23580	O5' GUA	205	94.683	43.298	9.019	1.00	55.90	A16	
ATOM	23528	C2' ADE	202	94.180	47.877	-3.755	1.00	59.34	A16S	ATOM	23581	C5' GUA	205	96.034	43.076	9.448	1.00	55.90	A16	
ATOM	23529	O3' ADE	202	94.735	48.606	-2.678	1.00	59.34	A16S	ATOM	23582	C4' GUA	205	96.576	44.293	10.154	1.00	55.90	A16	
ATOM	23530	C3' ADE	202	95.171	46.904	-4.385	1.00	59.34	A16S	ATOM	23583	O4' GUA	205	96.397	45.466	9.318	1.00	55.90	A16	
ATOM	23531	O3' ADE	202	96.088	46.403	-3.402	1.00	59.34	A16S	ATOM	23584	C1' GUA	205	96.225	46.611	10.137	1.00	55.90	A16	
ATOM	23532	P	ADE	203	96.275	44.818	-3.201	1.00	77.24	A16S	ATOM	23585	N9 GUA	205	94.921	47.207	9.874	1.00	49.20	A16
ATOM	23533	O1P ADE	203	94.958	44.193	-3.476	1.00	65.29	A16S	ATOM	23586	C4 GUA	205	94.478	48.388	10.415	1.00	49.20	A16	
ATOM	23534	O2P ADE	203	97.473	44.398	-3.982	1.00	65.29	A16S	ATOM	23587	N3 GUA	205	95.184	49.188	11.242	1.00	49.20	A16	
ATOM	23535	O5' ADE	203	96.605	44.657	-1.650	1.00	77.24	A16S	ATOM	23588	C2 GUA	205	94.503	50.261	11.592	1.00	49.20	A16	
ATOM	23536	C5' ADE	203	95.988	43.624	-0.858	1.00	77.24	A16S	ATOM	23589	N2 GUA	205	95.076	51.182	12.392	1.00	49.20	A16	
ATOM	23537	C4' ADE	203	95.319	44.235	0.347	1.00	77.24	A16S	ATOM	23590	N1 GUA	205	93.218	50.515	11.181	1.00	49.20	A16	
ATOM	23538	O4' ADE	203	96.321	44.931	1.097	1.00	77.24	A16S	ATOM	23591	C6 GUA	205	92.467	49.699	10.339	1.00	49.20	A16	
ATOM	23539	C1' ADE	203	95.840	46.180	1.516	1.00	77.24	A16S	ATOM	23592	O6 GUA	205	91.307	50.019	10.042	1.00	49.20	A16	
ATOM	23540	N9 ADE	203	96.918	47.131	1.292	1.00	65.29	A16S	ATOM	23593	C5 GUA	205	93.199	48.554	9.935	1.00	49.20	A16	
ATOM	23541	C4 ADE	203	97.493	47.912	2.260	1.00	65.29	A16S	ATOM	23594	N7 GUA	205	92.847	47.506	9.090	1.00	49.20	A16	
ATOM	23542	N3 ADE	203	97.066	48.091	3.519	1.00	65.29	A16S	ATOM	23595	C8 GUA	205	93.899	46.730	9.085	1.00	49.20	A16	
ATOM	23543	C2 ADE	203	97.935	48.817	4.206	1.00	65.29	A16S	ATOM	23596	O2' GUA	205	96.277	46.159	11.588	1.00	55.90	A16	
ATOM	23544	N1 ADE	203	99.098	49.338	3.809	1.00	65.29	A16S	ATOM	23597	C2' GUA	205	97.570	46.416	12.105	1.00	55.90	A16	
ATOM	23545	C6 ADE	203	99.494	49.140	2.533	1.00	65.29	A16S	ATOM	23598	C3' GUA	205	95.901	44.687	11.453	1.00	55.90	A16	
ATOM	23546	N6 ADE	203	100.667	49.637	2.142	1.00	65.29	A16S	ATOM	23599	O3' GUA	205	96.342	43.912	12.550	1.00	55.90	A16	
ATOM	23547	C5 ADE	203	98.651	48.405	1.699	1.00	65.29	A16S	ATOM	23600	P	GUA	206	95.331	43.624	13.762	1.00	68.80	A16
ATOM	23548	N7 ADE	203	98.744	48.041	0.366	1.00	65.29	A16S	ATOM	23601	O1P GUA	206	95.992	42.635	14.649	1.00	47.13	A16	
ATOM	23549	C8 ADE	203	97.672	47.317	0.164	1.00	65.29	A16S	ATOM	23602	O2P GUA	206	93.997	43.335	13.185	1.00	47.13	A16	
ATOM	23550	C2' ADE	203	94.409	46.388	1.022	1.00	77.24	A16S	ATOM	23603	O5' GUA	206	95.245	45.010	14.533	1.00	68.80	A16	

ATOM	23604	C5' GUA	206	96.435	45.641	15.016	1.00	68.80	A16S	ATOM	23657	O4	URI	208	92.299	56.629	24.822	1.00117.34	A16
ATOM	23605	C4' GUA	206	96.108	46.979	15.623	1.00	68.80	A16S	ATOM	23658	C5	URI	208	91.300	54.537	25.348	1.00117.34	A16
ATOM	23606	O4' GUA	206	95.605	47.873	14.602	1.00	68.80	A16S	ATOM	23659	C2' URI	208	87.754	52.706	22.580	1.00164.10	A16	
ATOM	23607	C1' GUA	206	94.628	48.729	15.160	1.00	68.80	A16S	ATOM	23660	O2' URI	208	86.424	53.078	22.294	1.00164.10	A16	
ATOM	23608	N9 GUA	206	93.386	48.564	14.413	1.00	47.13	A16S	ATOM	23661	C3' URI	208	88.016	51.199	22.632	1.00164.10	A16	
ATOM	23609	C4 GUA	206	92.371	49.480	14.320	1.00	47.13	A16S	ATOM	23662	O3' URI	208	87.160	50.402	21.796	1.00164.10	A16	
ATOM	23610	N3 GUA	206	92.328	50.678	14.940	1.00	47.13	A16S	ATOM	23663	P	URI	209	85.655	50.048	22.273	1.00105.26	A16
ATOM	23611	C2 GUA	206	91.235	51.356	14.631	1.00	47.13	A16S	ATOM	23664	O1P URI	209	84.970	51.275	22.743	1.00106.46	A16	
ATOM	23612	N2 GUA	206	91.044	52.580	15.151	1.00	47.13	A16S	ATOM	23665	O2P URI	209	85.749	48.871	23.177	1.00106.46	A16	
ATOM	23613	N1 GUA	206	90.254	50.886	13.786	1.00	47.13	A16S	ATOM	23666	O5' URI	209	84.909	49.579	20.949	1.00105.26	A16	
ATOM	23614	O6 GUA	206	90.279	49.649	13.140	1.00	47.13	A16S	ATOM	23667	C5' URI	209	84.882	50.415	19.793	1.00105.26	A16	
ATOM	23615	O6 GUA	206	89.343	49.314	12.394	1.00	47.13	A16S	ATOM	23668	C4' URI	209	85.050	49.577	18.559	1.00105.26	A16	
ATOM	23616	C5 GUA	206	91.449	48.921	13.460	1.00	47.13	A16S	ATOM	23669	O4' URI	209	86.257	48.798	18.678	1.00105.26	A16	
ATOM	23617	N7 GUA	206	91.863	47.667	13.042	1.00	47.13	A16S	ATOM	23670	C1' URI	209	86.176	47.743	17.754	1.00105.26	A16	
ATOM	23618	C8 GUA	206	93.011	47.492	13.641	1.00	47.13	A16S	ATOM	23671	N1	URI	209	87.114	46.660	18.105	1.00106.46	A16
ATOM	23619	C2' GUA	206	94.513	48.403	16.645	1.00	68.80	A16S	ATOM	23672	C6	URI	209	87.997	46.780	19.169	1.00106.46	A16
ATOM	23620	O2' GUA	206	95.338	49.315	17.344	1.00	68.80	A16S	ATOM	23673	C2	URI	209	87.136	45.525	17.291	1.00106.46	A16
ATOM	23621	C3' GUA	206	95.025	46.967	16.682	1.00	68.80	A16S	ATOM	23674	O2	URI	209	86.322	45.324	16.396	1.00106.46	A16
ATOM	23622	O3' GUA	206	95.544	46.567	17.944	1.00	68.80	A16S	ATOM	23675	N3	URI	209	88.144	44.631	17.570	1.00106.46	A16
ATOM	23623	P	CYT	94.574	45.849	19.006	1.00	103.06	A16S	ATOM	23676	C4	URI	209	89.095	44.726	18.572	1.00106.46	A16
ATOM	23624	O1P CYT	207	95.351	44.831	19.740	1.00	43.71	A16S	ATOM	23677	O4	URI	209	90.029	43.920	18.591	1.00106.46	A16
ATOM	23625	O2P CYT	207	93.305	45.448	18.319	1.00	43.71	A16S	ATOM	23678	C5	URI	209	88.958	45.877	19.421	1.00106.46	A16
ATOM	23626	O5' CYT	207	94.318	47.016	20.055	1.00	103.06	A16S	ATOM	23679	C2' URI	209	84.696	47.451	17.485	1.00105.26	A16	
ATOM	23627	C5' CYT	207	93.036	47.231	20.645	1.00	103.06	A16S	ATOM	23680	O2' URI	209	84.497	47.583	16.089	1.00105.26	A16	
ATOM	23628	C4' CYT	207	92.600	48.647	20.390	1.00	103.06	A16S	ATOM	23681	C3' URI	209	83.978	48.526	18.325	1.00105.26	A16	
ATOM	23629	O4' CYT	207	92.506	48.845	18.967	1.00	103.06	A16S	ATOM	23682	O3' URI	209	82.940	49.127	17.557	1.00105.26	A16	
ATOM	23630	C1' CYT	207	91.430	49.706	18.683	1.00	103.06	A16S	ATOM	23683	P	URI	210	81.651	49.752	18.280	1.00124.51	A16
ATOM	23631	N1	CYT	90.552	49.057	17.706	1.00	43.71	A16S	ATOM	23684	O1P URI	210	82.073	50.347	19.574	1.00174.88	A16	
ATOM	23632	C6	CYT	90.770	47.768	17.298	1.00	43.71	A16S	ATOM	23685	O2P URI	210	80.589	48.713	18.260	1.00174.88	A16	
ATOM	23633	C2	CYT	89.493	49.804	17.166	1.00	43.71	A16S	ATOM	23686	O5' URI	210	81.221	50.934	17.296	1.00124.51	A16	
ATOM	23634	O2	CYT	89.296	50.956	17.590	1.00	43.71	A16S	ATOM	23687	C5' URI	210	79.830	51.230	17.046	1.00124.51	A16	
ATOM	23635	N3	CYT	88.718	49.255	16.204	1.00	43.71	A16S	ATOM	23688	C4' URI	210	79.576	51.342	15.559	1.00124.51	A16	
ATOM	23636	C4	CYT	88.965	48.010	15.780	1.00	43.71	A16S	ATOM	23689	O4' URI	210	80.230	50.234	14.892	1.00124.51	A16	
ATOM	23637	N4	CYT	88.206	47.524	14.790	1.00	43.71	A16S	ATOM	23690	C1' URI	210	79.428	49.788	13.816	1.00124.51	A16	
ATOM	23638	C5	CYT	90.013	47.210	16.344	1.00	43.71	A16S	ATOM	23691	N1	URI	210	79.189	48.342	13.965	1.00174.88	A16
ATOM	23639	C2' CYT	207	90.757	50.105	19.995	1.00	103.06	A16S	ATOM	23692	C6	URI	210	79.484	47.680	15.138	1.00174.88	A16
ATOM	23640	O2' CYT	207	91.196	51.405	20.331	1.00	103.06	A16S	ATOM	23693	C2	URI	210	78.664	47.657	12.875	1.00174.88	A16
ATOM	23641	C3' CYT	207	91.236	49.007	20.940	1.00	103.06	A16S	ATOM	23694	O2	URI	210	78.370	48.201	11.819	1.00174.88	A16
ATOM	23642	O3' CYT	207	91.402	49.494	22.263	1.00	103.06	A16S	ATOM	23695	N3	URI	210	78.494	46.309	13.068	1.00174.88	A16
ATOM	23643	P	URI	90.808	48.667	23.498	1.00	164.10	A16S	ATOM	23696	C4	URI	210	78.784	45.588	14.208	1.00174.88	A16
ATOM	23644	O1P URI	208	91.965	48.249	24.334	1.00	117.34	A16S	ATOM	23697	O4	URI	210	78.637	44.366	14.202	1.00174.88	A16
ATOM	23645	O2P URI	208	89.870	47.633	22.961	1.00	117.34	A16S	ATOM	23698	C5	URI	210	79.305	46.366	15.291	1.00174.88	A16
ATOM	23646	O5' URI	208	90.003	49.775	24.313	1.00	164.10	A16S	ATOM	23699	C2' URI	210	78.162	50.651	13.755	1.00124.51	A16	
ATOM	23647	C5' URI	208	88.599	49.627	24.585	1.00	164.10	A16S	ATOM	23700	O2' URI	210	78.290	51.599	12.713	1.00124.51	A16	
ATOM	23648	C4' URI	208	87.838	50.839	24.099	1.00	164.10	A16S	ATOM	23701	C3' URI	210	78.104	51.257	15.159	1.00124.51	A16	
ATOM	23649	O4' URI	208	88.267	52.013	24.823	1.00	164.10	A16S	ATOM	23702	O3' URI	210	77.391	52.515	15.109	1.00124.51	A16	
ATOM	23650	C1' URI	208	88.113	53.155	24.003	1.00	164.10	A16S	ATOM	23703	P	GUA	211	78.189	53.922	15.075	1.00152.12	A16
ATOM	23651	N1	URI	89.276	54.040	24.187	1.00	117.34	A16S	ATOM	23704	O1P GUA	211	78.853	54.101	16.388	1.00 69.86	A16	
ATOM	23652	C6	URI	90.262	53.732	25.102	1.00	117.34	A16S	ATOM	23705	O2P GUA	211	77.291	54.991	14.573	1.00 69.86	A16	
ATOM	23653	C2	URI	89.342	55.212	23.440	1.00	117.34	A16S	ATOM	23706	O5' GUA	211	79.288	53.677	13.948	1.00152.12	A16	
ATOM	23654	O2	URI	88.515	55.513	22.592	1.00	117.34	A16S	ATOM	23707	C5' GUA	211	79.909	54.767	13.246	1.00152.12	A16	
ATOM	23655	N3	URI	90.419	56.017	23.722	1.00	117.34	A16S	ATOM	23708	C4' GUA	211	81.149	55.189	13.979	1.00152.12	A16	
ATOM	23656	C4	URI	91.422	55.777	24.643	1.00	117.34	A16S	ATOM	23709	O4' GUA	211	81.724	54.031	14.627	1.00152.12	A16	

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Table 1 - 225/490

ATOM	23710	C1' GUA	211	83.129	54.152	14.644	1.00152.12	A16S	ATOM	23763	O2' CYT	213	94.930	56.283	14.084	1.00 80.21	Alc
ATOM	23711	N9' GUA	211	83.709	52.970	14.011	1.00 69.86	A16S	ATOM	23764	C3' CYT	213	93.330	57.632	12.863	1.00 80.21	Alc
ATOM	23712	N4' GUA	211	84.731	52.220	14.532	1.00 69.86	A16S	ATOM	23765	O3' CYT	213	94.346	58.613	12.812	1.00 80.21	Alc
ATOM	23713	N3' GUA	211	85.396	52.487	15.675	1.00 69.86	A16S	ATOM	23766	P CYT	214	94.951	59.047	11.391	1.00 79.54	Alc
ATOM	23714	C2' GUA	211	86.304	51.575	15.943	1.00 69.86	A16S	ATOM	23767	O1P CYT	214	95.757	60.256	11.704	1.00 39.42	Alc
ATOM	23715	N2' GUA	211	87.056	51.713	17.039	1.00 69.86	A16S	ATOM	23768	O2P CYT	214	93.862	59.107	10.364	1.00 39.42	Alc
ATOM	23716	N1' GUA	211	86.540	50.470	15.156	1.00 69.86	A16S	ATOM	23769	O5' CYT	214	95.921	57.843	10.999	1.00 79.54	Alc
ATOM	23717	C6' GUA	211	85.868	50.173	13.974	1.00 69.86	A16S	ATOM	23770	C5' CYT	214	97.091	57.560	11.788	1.00 79.54	Alc
ATOM	23718	O6' GUA	211	86.148	49.147	13.351	1.00 69.86	A16S	ATOM	23771	C4' CYT	214	97.679	56.214	11.428	1.00 79.54	Alc
ATOM	23719	C5' GUA	211	84.895	51.164	13.663	1.00 69.86	A16S	ATOM	23772	O4' CYT	214	96.749	55.154	11.771	1.00 79.54	Alc
ATOM	23720	N5' GUA	211	84.022	51.272	12.587	1.00 69.86	A16S	ATOM	23773	C1' CYT	214	96.898	54.073	10.864	1.00 79.54	Alc
ATOM	23721	C8' GUA	211	83.342	52.363	12.830	1.00 69.86	A16S	ATOM	23774	N1' CYT	214	95.644	53.909	10.100	1.00 39.42	Alc
ATOM	23722	C2' GUA	211	83.499	55.487	14.003	1.00152.12	A16S	ATOM	23775	C6' CYT	214	94.659	54.856	10.136	1.00 39.42	Alc
ATOM	23723	O2' GUA	211	83.639	56.454	15.026	1.00152.12	A16S	ATOM	23776	C2' CYT	214	95.481	52.754	9.317	1.00 39.42	Alc
ATOM	23724	C3' GUA	211	82.276	55.769	13.143	1.00152.12	A16S	ATOM	23777	O2' CYT	214	96.384	51.911	9.297	1.00 39.42	Alc
ATOM	23725	O3' GUA	211	82.136	57.162	12.932	1.00152.12	A16S	ATOM	23778	N3' CYT	214	94.348	52.592	8.596	1.00 39.42	Alc
ATOM	23726	P CYT	212	83.073	57.892	11.850	1.00127.37	A16S	ATOM	23779	C4' CYT	214	93.402	53.530	8.625	1.00 39.42	Alc
ATOM	23727	O1P CYT	212	82.643	59.316	11.825	1.00 73.29	A16S	ATOM	23780	N4' CYT	214	92.319	53.342	7.868	1.00 39.42	Alc
ATOM	23728	O2P CYT	212	83.021	57.082	10.595	1.00 73.29	A16S	ATOM	23781	C5' CYT	214	93.532	54.709	9.422	1.00 39.42	Alc
ATOM	23729	O5' CYT	212	84.552	57.807	12.463	1.00127.37	A16S	ATOM	23782	C2' CYT	214	98.046	54.431	9.928	1.00 79.54	Alc
ATOM	23730	C5' CYT	212	85.012	58.788	13.426	1.00127.37	A16S	ATOM	23783	O2' CYT	214	99.250	53.898	10.453	1.00 79.54	Alc
ATOM	23731	C4' CYT	212	86.278	58.331	14.142	1.00127.37	A16S	ATOM	23784	C3' CYT	214	97.987	55.950	9.968	1.00 79.54	Alc
ATOM	23732	O4' CYT	212	86.103	56.994	14.680	1.00127.37	A16S	ATOM	23785	O3' CYT	214	99.172	56.565	9.513	1.00 79.54	Alc
ATOM	23733	C1' CYT	212	87.365	56.359	14.799	1.00127.37	A16S	ATOM	23786	P GUA	215	99.140	57.382	8.130	1.00 75.39	Alc
ATOM	23734	N1' CYT	212	87.396	55.147	13.961	1.00 73.29	A16S	ATOM	23787	O1P GUA	215	100.496	57.962	7.979	1.00 60.81	Alc
ATOM	23735	C6' CYT	212	86.641	55.042	12.826	1.00 73.29	A16S	ATOM	23788	O2P GUA	215	97.963	58.277	8.163	1.00 60.81	Alc
ATOM	23736	C2' CYT	212	88.242	54.099	14.343	1.00 73.29	A16S	ATOM	23789	O5' GUA	215	98.874	56.273	7.005	1.00 75.39	Alc
ATOM	23737	O2' CYT	212	88.916	54.219	15.381	1.00 73.29	A16S	ATOM	23790	C5' GUA	215	99.803	55.184	6.836	1.00 75.39	Alc
ATOM	23738	N3' CYT	212	88.309	52.990	13.577	1.00 73.29	A16S	ATOM	23791	C4' GUA	215	99.205	54.034	6.045	1.00 75.39	Alc
ATOM	23739	C4' CYT	212	87.571	52.899	12.473	1.00 73.29	A16S	ATOM	23792	O4' GUA	215	98.009	53.512	6.680	1.00 75.39	Alc
ATOM	23740	N4' CYT	212	87.665	51.780	11.754	1.00 73.29	A16S	ATOM	23793	C1' GUA	215	97.287	52.740	5.734	1.00 75.39	Alc
ATOM	23741	C5' CYT	212	86.700	53.948	12.058	1.00 73.29	A16S	ATOM	23794	N9' GUA	215	95.905	53.197	5.643	1.00 60.81	Alc
ATOM	23742	C2' CYT	212	88.417	57.342	14.311	1.00127.37	A16S	ATOM	23795	C4' GUA	215	94.918	52.584	4.907	1.00 60.81	Alc
ATOM	23743	O2' CYT	212	88.931	58.042	15.424	1.00127.37	A16S	ATOM	23796	N3' GUA	215	95.047	51.433	4.213	1.00 60.81	Alc
ATOM	23744	C3' CYT	212	87.597	58.232	13.387	1.00127.37	A16S	ATOM	23797	C2' GUA	215	93.941	51.122	3.560	1.00 60.81	Alc
ATOM	23745	O3' CYT	212	88.259	59.474	13.223	1.00127.37	A16S	ATOM	23798	N2' GUA	215	93.890	50.006	2.830	1.00 60.81	Alc
ATOM	23746	P CYT	213	89.458	59.599	12.153	1.00 80.21	A16S	ATOM	23799	N1' GUA	215	92.803	51.879	3.575	1.00 60.81	Alc
ATOM	23747	O1P CYT	213	90.008	60.965	12.331	1.00 52.93	A16S	ATOM	23800	C6' GUA	215	92.640	53.063	4.283	1.00 60.81	Alc
ATOM	23748	O2P CYT	213	88.971	59.161	10.816	1.00 52.93	A16S	ATOM	23801	O6' GUA	215	91.562	53.668	4.225	1.00 60.81	Alc
ATOM	23749	O5' CYT	213	90.567	58.572	12.659	1.00 80.21	A16S	ATOM	23802	C5' GUA	215	93.822	53.409	5.003	1.00 60.81	Alc
ATOM	23750	C5' CYT	213	91.298	58.830	13.874	1.00 80.21	A16S	ATOM	23803	N7' GUA	215	94.095	54.495	5.823	1.00 60.81	Alc
ATOM	23751	C4' CYT	213	92.410	57.826	14.053	1.00 80.21	A16S	ATOM	23804	C8' GUA	215	95.338	54.321	6.190	1.00 60.81	Alc
ATOM	23752	O4' CYT	213	91.858	56.509	14.295	1.00 80.21	A16S	ATOM	23805	C2' GUA	215	97.950	52.956	4.376	1.00 75.39	Alc
ATOM	23753	C1' CYT	213	92.690	55.526	13.703	1.00 80.21	A16S	ATOM	23806	O2' GUA	215	98.781	51.852	4.107	1.00 75.39	Alc
ATOM	23754	N1' CYT	213	91.915	54.822	12.663	1.00 52.93	A16S	ATOM	23807	C3' GUA	215	98.764	54.225	4.603	1.00 75.39	Alc
ATOM	23755	C6' CYT	213	90.842	55.420	12.063	1.00 52.93	A16S	ATOM	23808	O3' GUA	215	99.841	54.231	3.674	1.00 75.39	Alc
ATOM	23756	C2' CYT	213	92.293	53.525	12.295	1.00 52.93	A16S	ATOM	23809	P CYT	216	99.582	54.695	2.147	1.00 50.17	Alc
ATOM	23757	O2' CYT	213	93.290	53.013	12.831	1.00 52.93	A16S	ATOM	23810	O1P CYT	216	100.919	54.723	1.506	1.00 56.61	Alc
ATOM	23758	N3' CYT	213	91.567	52.866	11.356	1.00 52.93	A16S	ATOM	23811	O2P CYT	216	98.719	55.902	2.109	1.00 56.61	Alc
ATOM	23759	C4' CYT	213	90.517	53.462	10.783	1.00 52.93	A16S	ATOM	23812	O5' CYT	216	98.728	53.530	1.489	1.00 50.17	Alc
ATOM	23760	N4' CYT	213	89.829	52.783	9.862	1.00 52.93	A16S	ATOM	23813	C5' CYT	216	99.299	52.249	1.254	1.00 50.17	Alc
ATOM	23761	C5' CYT	213	90.124	54.783	11.127	1.00 52.93	A16S	ATOM	23814	C4' CYT	216	98.372	51.433	0.412	1.00 50.17	Alc
ATOM	23762	C2' CYT	213	93.900	56.248	13.119	1.00 80.21	A16S	ATOM	23815	O4' CYT	216	97.105	51.289	1.103	1.00 50.17	Alc

ATOM	23816	C1' CYT	216	96.037	51.340	0.171	1.00	50.17	Al6S	ATOM	23869	P	CYT	219	97.444	57.725	-12.099	1.00	68.04	Al6
ATOM	23817	N1' CYT	216	95.151	52.480	0.508	1.00	56.61	Al6S	ATOM	23870	O1P	CYT	219	98.185	57.494	-13.374	1.00	44.94	Al6
ATOM	23818	O6' CYT	216	95.506	53.412	1.451	1.00	56.61	Al6S	ATOM	23871	O2P	CYT	219	98.199	57.809	-10.814	1.00	44.94	Al6
ATOM	23819	C2	216	93.923	52.598	-0.173	1.00	56.61	Al6S	ATOM	23872	O5'	CYT	219	96.545	59.037	-12.212	1.00	68.04	Al6
ATOM	23820	O2	216	93.612	51.732	-0.107	1.00	56.61	Al6S	ATOM	23873	C5'	CYT	219	95.535	59.133	-13.232	1.00	68.04	Al6
ATOM	23821	N3	216	93.110	53.647	0.103	1.00	56.61	Al6S	ATOM	23874	C4'	CYT	219	94.588	60.280	-12.954	1.00	68.04	Al6
ATOM	23822	C4	216	93.474	54.553	1.014	1.00	56.61	Al6S	ATOM	23875	O4'	CYT	219	93.777	60.011	-11.784	1.00	68.04	Al6
ATOM	23823	N4	216	92.642	55.574	1.236	1.00	56.61	Al6S	ATOM	23876	C1'	CYT	219	93.390	61.235	-11.191	1.00	68.04	Al6
ATOM	23824	C5	216	94.707	54.452	1.734	1.00	56.61	Al6S	ATOM	23877	N1	CYT	219	93.854	61.264	-9.801	1.00	44.94	Al6
ATOM	23825	C2'	216	96.655	51.455	-1.222	1.00	50.17	Al6S	ATOM	23878	C6	CYT	219	94.811	60.397	-9.353	1.00	44.94	Al6
ATOM	23826	O6' CYT	216	96.765	50.159	-1.772	1.00	50.17	Al6S	ATOM	23879	C2	CYT	219	93.310	62.223	-8.934	1.00	44.94	Al6
ATOM	23827	C3'	216	98.006	52.079	-0.904	1.00	50.17	Al6S	ATOM	23880	O2	CYT	219	92.419	62.981	-9.354	1.00	44.94	Al6
ATOM	23828	O3'	216	98.997	51.828	-1.881	1.00	50.17	Al6S	ATOM	23881	N3	CYT	219	93.764	62.302	-7.666	1.00	44.94	Al6
ATOM	23829	P	217	99.247	52.906	-3.046	1.00	55.36	Al6S	ATOM	23882	C4	CYT	219	94.721	61.475	-7.249	1.00	44.94	Al6
ATOM	23830	O1P	217	100.412	52.446	-3.845	1.00	55.53	Al6S	ATOM	23883	N4	CYT	219	95.169	61.625	-6.006	1.00	44.94	Al6
ATOM	23831	O2P	217	99.252	54.277	-2.433	1.00	55.53	Al6S	ATOM	23884	C5	CYT	219	95.270	60.467	-8.094	1.00	44.94	Al6
ATOM	23832	O5'	217	97.958	52.769	-3.965	1.00	55.36	Al6S	ATOM	23885	C2'	CYT	219	94.020	62.366	-12.000	1.00	68.04	Al6
ATOM	23833	C5'	217	97.664	51.535	-4.603	1.00	55.36	Al6S	ATOM	23886	O2'	CYT	219	93.061	62.863	-12.912	1.00	68.04	Al6
ATOM	23834	C4'	217	96.471	51.696	-5.492	1.00	55.36	Al6S	ATOM	23887	C3'	CYT	219	95.180	61.651	-12.683	1.00	68.04	Al6
ATOM	23835	O1'	217	95.280	51.881	-4.694	1.00	55.36	Al6S	ATOM	23888	O3'	CYT	219	95.585	62.310	-13.875	1.00	68.04	Al6
ATOM	23836	C1'	217	94.406	52.785	-5.346	1.00	55.36	Al6S	ATOM	23889	P	CYT	220	96.784	63.386	-13.822	1.00	66.85	Al6
ATOM	23837	N1	217	94.197	53.938	-4.455	1.00	55.53	Al6S	ATOM	23890	O1P	CYT	220	97.172	63.634	-15.246	1.00	61.88	Al6
ATOM	23838	C6	217	95.085	54.222	-3.439	1.00	55.53	Al6S	ATOM	23891	O2P	CYT	220	97.807	62.937	-12.851	1.00	61.88	Al6
ATOM	23839	O2	217	93.071	54.724	-4.654	1.00	55.53	Al6S	ATOM	23892	O5'	CYT	220	96.116	64.693	-13.191	1.00	66.85	Al6
ATOM	23840	O2	217	92.270	54.529	-5.553	1.00	55.53	Al6S	ATOM	23893	C5'	CYT	220	95.076	65.403	-13.888	1.00	66.85	Al6
ATOM	23841	N3	217	92.921	55.752	-3.762	1.00	55.53	Al6S	ATOM	23894	C4'	CYT	220	94.477	66.472	-13.006	1.00	66.85	Al6
ATOM	23842	C4	217	93.762	56.078	-2.721	1.00	55.53	Al6S	ATOM	23895	O4'	CYT	220	93.858	65.862	-11.845	1.00	66.85	Al6
ATOM	23843	O4	217	93.486	57.041	-1.999	1.00	55.53	Al6S	ATOM	23896	C1'	CYT	220	93.968	66.733	-10.733	1.00	66.85	Al6
ATOM	23844	C5	217	94.910	55.233	-2.592	1.00	55.53	Al6S	ATOM	23897	N1	CYT	220	94.727	66.059	-9.664	1.00	61.88	Al6
ATOM	23845	C2'	217	95.036	53.143	-6.691	1.00	55.36	Al6S	ATOM	23898	C6	CYT	220	95.442	64.918	-9.911	1.00	61.88	Al6
ATOM	23846	O2'	217	94.528	52.257	-7.670	1.00	55.36	Al6S	ATOM	23899	C2	CYT	220	94.713	66.618	-8.379	1.00	61.88	Al6
ATOM	23847	C3'	217	96.513	52.909	-6.398	1.00	55.36	Al6S	ATOM	23900	O2	CYT	220	94.054	67.654	-8.180	1.00	61.88	Al6
ATOM	23848	O3'	217	97.307	52.647	-7.541	1.00	55.36	Al6S	ATOM	23901	N3	CYT	220	95.418	66.019	-7.391	1.00	61.88	Al6
ATOM	23849	P	218	98.194	53.823	-8.182	1.00	59.67	Al6S	ATOM	23902	C4	CYT	220	96.115	64.909	-7.645	1.00	61.88	Al6
ATOM	23850	O1P	218	99.122	53.140	-9.124	1.00	49.36	Al6S	ATOM	23903	N4	CYT	220	96.802	64.356	-6.638	1.00	61.88	Al6
ATOM	23851	O2P	218	98.737	54.687	-7.110	1.00	49.36	Al6S	ATOM	23904	C5	CYT	220	96.143	64.317	-8.941	1.00	61.88	Al6
ATOM	23852	O5'	218	97.138	54.653	-9.027	1.00	59.67	Al6S	ATOM	23905	C2'	CYT	220	94.676	67.998	-11.203	1.00	66.85	Al6
ATOM	23853	C5'	218	96.419	54.006	-10.083	1.00	59.67	Al6S	ATOM	23906	O2'	CYT	220	93.705	68.970	-11.524	1.00	66.85	Al6
ATOM	23854	C4'	218	95.302	54.879	-10.583	1.00	59.67	Al6S	ATOM	23907	C3'	CYT	220	95.438	67.487	-12.418	1.00	66.85	Al6
ATOM	23855	O4'	218	94.207	54.909	-9.635	1.00	59.67	Al6S	ATOM	23908	O3'	CYT	220	95.754	68.528	-13.328	1.00	66.85	Al6
ATOM	23856	C1'	218	93.574	56.175	-9.682	1.00	59.67	Al6S	ATOM	23909	P	GUA	221	97.235	69.164	-13.314	1.00	74.46	Al6
ATOM	23857	N1	218	93.702	56.816	-8.363	1.00	49.36	Al6S	ATOM	23910	O1P	GUA	221	97.289	70.108	-14.475	1.00	54.01	Al6
ATOM	23858	C6	218	94.724	56.486	-7.507	1.00	49.36	Al6S	ATOM	23911	O2P	GUA	221	98.208	68.047	-13.238	1.00	74.46	Al6
ATOM	23859	C2	218	92.775	57.784	-8.014	1.00	49.36	Al6S	ATOM	23912	O5'	GUA	221	97.307	69.965	-11.935	1.00	74.46	Al6
ATOM	23860	O2	218	91.830	58.080	-8.717	1.00	49.36	Al6S	ATOM	23913	C5'	GUA	221	96.501	71.126	-11.748	1.00	74.46	Al6
ATOM	23861	N3	218	92.992	58.390	-6.805	1.00	49.36	Al6S	ATOM	23914	C4'	GUA	221	96.496	71.571	-10.306	1.00	74.46	Al6
ATOM	23862	C4	218	94.007	58.121	-5.915	1.00	49.36	Al6S	ATOM	23915	O4'	GUA	221	96.370	70.768	-8.110	1.00	74.46	Al6
ATOM	23863	O4	218	94.089	58.773	-4.872	1.00	49.36	Al6S	ATOM	23916	C1'	GUA	221	95.918	70.558	-9.441	1.00	74.46	Al6
ATOM	23864	C5	218	94.901	57.087	-6.329	1.00	49.36	Al6S	ATOM	23917	N9	GUA	221	97.056	69.577	-7.623	1.00	54.01	Al6
ATOM	23865	O2'	218	94.272	56.985	-10.776	1.00	59.67	Al6S	ATOM	23918	C4	GUA	221	97.492	69.384	-6.332	1.00	54.01	Al6
ATOM	23866	C2'	218	93.604	56.773	-12.006	1.00	59.67	Al6S	ATOM	23919	N3	GUA	221	97.320	70.238	-5.302	1.00	54.01	Al6
ATOM	23867	C3'	218	95.646	56.337	-10.800	1.00	59.67	Al6S	ATOM	23920	C2	GUA	221	97.856	69.785	-4.186	1.00	54.01	Al6
ATOM	23868	O3'	218	96.348	56.549	-12.017	1.00	59.67	Al6S	ATOM	23921	N2	GUA	221	97.757	70.499	-3.077	1.00	54.01	Al6

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ATOM	23922	N1	GUA	221	98.522	68.596	-4.081	1.00	54.01	Al6S	ATOM	23975	C3' ADE	223	105.591	74.802	-2.455	1.00	57.90	Al1	
ATOM	23923	C6' GUA	221	98.717	67.698	-5.124	1.00	54.01	Al6S	ATOM	23976	O3' ADE	223	106.430	75.829	-1.971	1.00	57.90	Al1		
ATOM	23924	C6' GUA	221	99.335	66.649	-4.920	1.00	54.01	Al6S	ATOM	23977	P	URI	224	107.769	76.192	-2.780	1.00	57.86	Al1	
ATOM	23925	C5	GUA	221	98.132	68.167	-6.337	1.00	54.01	Al6S	ATOM	23978	O1P	URI	224	108.282	77.411	-2.107	1.00	29.42	Al1
ATOM	23926	N7	GUA	221	98.083	67.591	-7.601	1.00	54.01	Al6S	ATOM	23979	O2P	URI	224	107.502	76.191	-4.255	1.00	29.42	Al1
ATOM	23927	C8	GUA	221	97.430	68.460	-8.329	1.00	54.01	Al6S	ATOM	23980	O5'	URI	224	108.773	75.005	-2.451	1.00	57.86	Al1
ATOM	23928	C2'	GUA	221	97.375	71.914	-8.152	1.00	74.46	Al6S	ATOM	23981	C5'	URI	224	109.093	74.705	-1.087	1.00	57.86	Al1
ATOM	23929	O2'	GUA	221	96.724	73.119	-7.795	1.00	74.46	Al6S	ATOM	23982	C4'	URI	224	109.773	73.366	-0.981	1.00	57.86	Al1
ATOM	23930	C3'	GUA	221	97.808	71.887	-9.612	1.00	74.46	Al6S	ATOM	23983	O4'	URI	224	108.856	72.292	-1.308	1.00	57.86	Al1
ATOM	23931	O3'	GUA	221	98.385	73.121	-9.979	1.00	74.46	Al6S	ATOM	23984	C1'	URI	224	109.563	71.242	-1.941	1.00	57.86	Al1
ATOM	23932	O1P	GUA	222	99.946	73.375	-9.682	1.00	58.51	Al6S	ATOM	23985	N1	URI	224	109.079	71.106	-3.322	1.00	29.42	Al1
ATOM	23933	O2P	GUA	222	100.239	74.671	-10.329	1.00	51.60	Al6S	ATOM	23986	C6	URI	224	108.501	72.156	-3.997	1.00	29.42	Al1
ATOM	23934	O2P	GUA	222	100.753	72.173	-10.033	1.00	51.60	Al6S	ATOM	23987	C2	URI	224	109.252	69.873	-3.947	1.00	29.42	Al1
ATOM	23935	O5'	GUA	222	100.028	73.591	-8.108	1.00	58.51	Al6S	ATOM	23988	O2	URI	224	109.726	68.901	-3.371	1.00	29.42	Al1
ATOM	23936	C5'	GUA	222	99.344	74.681	-7.493	1.00	58.51	Al6S	ATOM	23989	N3	URI	224	108.853	69.820	-5.267	1.00	29.42	Al1
ATOM	23937	C4'	GUA	222	99.496	74.602	-6.007	1.00	58.51	Al6S	ATOM	23990	C4	URI	224	108.304	70.844	-6.006	1.00	29.42	Al1
ATOM	23938	O4'	GUA	222	99.057	73.293	-5.566	1.00	58.51	Al6S	ATOM	23991	O4	URI	224	108.094	70.679	-7.206	1.00	29.42	Al1
ATOM	23939	C1'	GUA	222	99.842	72.873	-4.461	1.00	58.51	Al6S	ATOM	23992	C5	URI	224	108.119	72.069	-5.283	1.00	29.42	Al1
ATOM	23940	N9	GUA	222	100.477	71.592	-4.761	1.00	51.60	Al6S	ATOM	23993	C2'	URI	224	111.035	71.632	-1.950	1.00	57.86	Al1
ATOM	23941	C4	GUA	222	101.124	70.794	-3.849	1.00	51.60	Al6S	ATOM	23994	O2'	URI	224	111.641	71.125	-0.782	1.00	57.86	Al1
ATOM	23942	N3	GUA	222	101.304	71.075	-2.539	1.00	51.60	Al6S	ATOM	23995	C3'	URI	224	110.938	73.148	-1.922	1.00	57.86	Al1
ATOM	23943	C2	GUA	222	101.937	70.102	-1.913	1.00	51.60	Al6S	ATOM	23996	O3'	URI	224	112.119	73.784	-1.471	1.00	57.86	Al1
ATOM	23944	N2	GUA	222	102.190	70.209	-0.614	1.00	51.60	Al6S	ATOM	23997	P	GUA	225	113.213	74.253	-2.546	1.00	58.19	Al1
ATOM	23945	N1	GUA	222	102.364	68.947	-2.520	1.00	51.60	Al6S	ATOM	23998	O1P	GUA	225	114.229	74.982	-1.752	1.00	37.85	Al1
ATOM	23946	C6	GUA	222	102.187	68.639	-3.863	1.00	51.60	Al6S	ATOM	23999	O2P	GUA	225	112.545	74.924	-3.701	1.00	37.85	Al1
ATOM	23947	O6	GUA	222	102.591	67.565	-4.302	1.00	51.60	Al6S	ATOM	24000	O5'	GUA	225	113.827	72.881	-3.070	1.00	58.19	Al1
ATOM	23948	N7	GUA	222	101.514	69.676	-4.553	1.00	51.60	Al6S	ATOM	24001	C5'	GUA	225	114.497	71.993	-2.163	1.00	58.19	Al1
ATOM	23949	C5	GUA	222	101.150	69.781	-5.888	1.00	51.60	Al6S	ATOM	24002	C4'	GUA	225	114.765	70.667	-2.824	1.00	58.19	Al1
ATOM	23950	C8	GUA	222	100.541	70.933	-5.968	1.00	51.60	Al6S	ATOM	24003	O4'	GUA	225	113.510	69.994	-3.111	1.00	58.19	Al1
ATOM	23951	C2'	GUA	222	100.859	73.966	-4.170	1.00	58.51	Al6S	ATOM	24004	C1'	GUA	225	113.635	69.242	-4.309	1.00	58.19	Al1
ATOM	23952	O2'	GUA	222	100.340	74.749	-3.121	1.00	58.51	Al6S	ATOM	24005	N9	GUA	225	112.748	69.811	-5.320	1.00	37.85	Al1
ATOM	23953	C3'	GUA	222	100.922	74.689	-5.509	1.00	58.51	Al6S	ATOM	24006	C4	GUA	225	112.405	69.224	-6.513	1.00	37.85	Al1
ATOM	23954	O3'	GUA	222	101.344	76.029	-5.385	1.00	58.51	Al6S	ATOM	24007	N3	GUA	225	112.758	67.989	-6.916	1.00	37.85	Al1
ATOM	23955	P	ADE	223	102.882	76.393	-5.651	1.00	57.90	Al6S	ATOM	24008	C2	GUA	225	112.294	67.711	-8.121	1.00	37.85	Al1
ATOM	23956	O1P	ADE	223	103.045	77.856	-5.407	1.00	47.23	Al6S	ATOM	24009	N2	GUA	225	112.499	66.503	-8.652	1.00	37.85	Al1
ATOM	23957	O2P	ADE	223	103.269	75.817	-6.965	1.00	47.23	Al6S	ATOM	24010	N1	GUA	225	111.584	68.591	-8.887	1.00	37.85	Al1
ATOM	23958	O5'	ADE	223	103.649	75.628	-4.489	1.00	57.90	Al6S	ATOM	24011	C6	GUA	225	111.227	69.876	-8.500	1.00	37.85	Al1
ATOM	23959	C5'	ADE	223	103.459	76.035	-3.131	1.00	57.90	Al6S	ATOM	24012	O6	GUA	225	110.610	70.606	-9.285	1.00	37.85	Al1
ATOM	23960	C4'	ADE	223	104.128	75.072	-2.194	1.00	57.90	Al6S	ATOM	24013	C5	GUA	225	111.673	70.169	-7.187	1.00	37.85	Al1
ATOM	23961	O4'	ADE	223	103.515	73.762	-2.311	1.00	57.90	Al6S	ATOM	24014	N7	GUA	225	111.507	71.308	-6.413	1.00	37.85	Al1
ATOM	23962	C1'	ADE	223	104.489	72.754	-2.098	1.00	57.90	Al6S	ATOM	24015	C8	GUA	225	112.153	71.049	-5.311	1.00	37.85	Al1
ATOM	23963	N9	ADE	223	104.618	71.964	-3.325	1.00	47.23	Al6S	ATOM	24016	C2'	GUA	225	115.075	69.402	-4.795	1.00	58.19	Al1
ATOM	23964	C4	ADE	223	105.075	70.669	-3.416	1.00	47.23	Al6S	ATOM	24017	O2'	GUA	225	115.868	68.342	-4.320	1.00	58.19	Al1
ATOM	23965	N3	ADE	223	105.498	69.879	-2.416	1.00	47.23	Al6S	ATOM	24018	C3'	GUA	225	115.457	70.732	-4.171	1.00	58.19	Al1
ATOM	23966	C2	ADE	223	105.849	68.685	-2.879	1.00	47.23	Al6S	ATOM	24019	O3'	GUA	225	116.855	70.909	-4.080	1.00	58.19	Al1
ATOM	23967	N1	ADE	223	105.829	68.223	-4.133	1.00	47.23	Al6S	ATOM	24020	P	GUA	226	117.604	71.798	-5.192	1.00	40.79	Al1
ATOM	23968	C6	ADE	223	105.406	69.043	-5.117	1.00	47.23	Al6S	ATOM	24021	O1P	GUA	226	118.986	71.978	-4.673	1.00	44.91	Al1
ATOM	23969	N6	ADE	223	105.389	68.586	-6.372	1.00	47.23	Al6S	ATOM	24022	O2P	GUA	226	116.783	72.991	-5.496	1.00	44.91	Al1
ATOM	23970	C5	ADE	223	105.006	70.339	-4.759	1.00	47.23	Al6S	ATOM	24023	O5'	GUA	226	117.599	70.879	-6.501	1.00	40.79	Al1
ATOM	23971	N7	ADE	223	104.530	71.409	-5.508	1.00	47.23	Al6S	ATOM	24024	C5'	GUA	226	118.236	69.590	-6.471	1.00	40.79	Al1
ATOM	23972	C8	ADE	223	104.317	72.346	-4.614	1.00	47.23	Al6S	ATOM	24025	C4'	GUA	226	117.726	68.676	-7.566	1.00	40.79	Al1
ATOM	23973	C2'	ADE	223	105.791	73.466	-1.751	1.00	57.90	Al6S	ATOM	24026	O4'	GUA	226	116.273	68.674	-7.600	1.00	40.79	Al1
ATOM	23974	O2'	ADE	223	105.873	73.590	-0.337	1.00	57.90	Al6S	ATOM	24027	C1'	GUA	226	115.833	68.272	-8.887	1.00	40.79	Al1

ATOM	24028	N9	GUA	226	114.979	69.305	-9.469	1.00	44.91	A16S	ATOM	24081	C5	CYT	228	118.583	71.440	-16.008	1.00	41.67	A16
ATOM	24029	C4	GUA	226	114.382	69.230	-10.699	1.00	44.91	A16S	ATOM	24082	C2'	CYT	228	119.219	70.075	-20.282	1.00	41.27	A16
ATOM	24030	N3	GUA	226	114.430	68.174	-11.528	1.00	44.91	A16S	ATOM	24083	O2'	CYT	228	118.893	69.431	-21.495	1.00	41.27	A16
ATOM	24031	C2	GUA	226	113.802	68.405	-12.655	1.00	44.91	A16S	ATOM	24084	C3'	CYT	228	120.529	69.556	-19.706	1.00	41.27	A16
ATOM	24032	N2	GUA	226	113.746	67.455	-13.585	1.00	44.91	A16S	ATOM	24085	O3'	CYT	228	121.565	69.457	-20.661	1.00	41.27	A16
ATOM	24033	N1	GUA	226	113.181	69.584	-12.958	1.00	44.91	A16S	ATOM	24086	P	CYT	229	122.611	70.667	-20.807	1.00	42.40	A16
ATOM	24034	C6	GUA	226	113.127	70.696	-12.128	1.00	44.91	A16S	ATOM	24087	O1P	CYT	229	123.637	70.177	-21.744	1.00	34.91	A16
ATOM	24035	O6	GUA	226	112.567	71.735	-12.521	1.00	44.91	A16S	ATOM	24088	O2P	CYT	229	123.010	71.197	-19.477	1.00	34.91	A16
ATOM	24036	C5	GUA	226	113.782	70.451	-10.893	1.00	44.91	A16S	ATOM	24089	O5'	CYT	229	121.786	71.773	-21.586	1.00	42.40	A16
ATOM	24037	N7	GUA	226	113.349	71.266	-9.781	1.00	44.91	A16S	ATOM	24090	C5'	CYT	229	121.274	71.474	-22.890	1.00	42.40	A16
ATOM	24038	C8	GUA	226	114.657	70.541	-8.957	1.00	44.91	A16S	ATOM	24091	C4'	CYT	229	120.437	72.611	-23.401	1.00	42.40	A16
ATOM	24039	O2'	GUA	226	117.080	68.099	-9.752	1.00	40.79	A16S	ATOM	24092	O4'	CYT	229	119.267	72.783	-22.566	1.00	42.40	A16
ATOM	24040	O2'	GUA	226	117.458	66.740	-9.780	1.00	40.79	A16S	ATOM	24093	C1'	CYT	229	118.943	74.158	-22.481	1.00	42.40	A16
ATOM	24041	C3'	GUA	226	118.097	68.952	-9.011	1.00	40.79	A16S	ATOM	24094	N1	CYT	229	119.123	74.573	-21.085	1.00	34.91	A16
ATOM	24042	O3'	GUA	226	119.416	68.549	-9.355	1.00	40.79	A16S	ATOM	24095	C6	CYT	229	119.696	73.726	-20.180	1.00	34.91	A16
ATOM	24043	P	GUA	227	120.162	69.244	-10.617	1.00	42.69	A16S	ATOM	24096	C2	CYT	229	118.716	75.861	-20.694	1.00	34.91	A16
ATOM	24044	O1P	GUA	227	121.503	68.901	-10.453	1.00	44.37	A16S	ATOM	24097	O2	CYT	229	118.165	76.601	-21.522	1.00	34.91	A16
ATOM	24045	O2P	GUA	227	119.771	70.678	-10.749	1.00	44.37	A16S	ATOM	24098	N3	CYT	229	118.931	76.263	-19.424	1.00	34.91	A16
ATOM	24046	O5'	GUA	227	119.559	68.488	-11.889	1.00	42.69	A16S	ATOM	24099	C4	CYT	229	119.522	75.437	-18.556	1.00	34.91	A16
ATOM	24047	C5'	GUA	227	119.752	67.078	-12.083	1.00	42.69	A16S	ATOM	24100	N4	CYT	229	119.760	75.890	-17.318	1.00	34.91	A16
ATOM	24048	C4'	GUA	227	119.213	66.655	-13.430	1.00	42.69	A16S	ATOM	24101	C5	CYT	229	119.910	74.110	-18.919	1.00	34.91	A16
ATOM	24049	O4'	GUA	227	117.771	66.812	-13.462	1.00	42.69	A16S	ATOM	24102	C2'	CYT	229	119.902	74.903	-23.405	1.00	42.40	A16
ATOM	24050	C1'	GUA	227	117.357	67.215	-14.755	1.00	42.69	A16S	ATOM	24103	O2'	CYT	229	119.331	74.988	-23.405	1.00	42.40	A16
ATOM	24051	N9	GUA	227	116.759	68.536	-14.636	1.00	44.37	A16S	ATOM	24104	C3'	CYT	229	121.100	73.973	-23.384	1.00	42.40	A16
ATOM	24052	C4	GUA	227	115.936	69.160	-15.539	1.00	44.37	A16S	ATOM	24105	O3'	CYT	229	121.972	74.141	-24.483	1.00	42.40	A16
ATOM	24053	N3	GUA	227	115.515	68.651	-16.715	1.00	44.37	A16S	ATOM	24106	P	CYT	230	123.358	74.912	-24.269	1.00	43.57	A16
ATOM	24054	C2	GUA	227	114.737	69.500	-17.371	1.00	44.37	A16S	ATOM	24107	O1P	CYT	230	124.183	74.517	-25.443	1.00	40.90	A16
ATOM	24055	N2	GUA	227	114.235	69.160	-18.568	1.00	44.37	A16S	ATOM	24108	O2P	CYT	230	123.876	74.666	-22.880	1.00	40.90	A16
ATOM	24056	N1	GUA	227	114.390	70.749	-16.908	1.00	44.37	A16S	ATOM	24109	O5'	CYT	230	122.932	76.447	-24.392	1.00	43.57	A16
ATOM	24057	C6	GUA	227	114.803	71.294	-15.697	1.00	44.37	A16S	ATOM	24110	C5'	CYT	230	122.272	76.929	-25.576	1.00	43.57	A16
ATOM	24058	O6	GUA	227	114.417	72.437	-15.359	1.00	44.37	A16S	ATOM	24111	C4'	CYT	230	122.272	76.929	-25.576	1.00	43.57	A16
ATOM	24059	C5	GUA	227	115.653	70.389	-14.984	1.00	44.37	A16S	ATOM	24112	O4'	CYT	230	121.630	78.273	-25.328	1.00	43.57	A16
ATOM	24060	N7	GUA	227	116.283	70.530	-13.756	1.00	44.37	A16S	ATOM	24113	C1'	CYT	230	120.630	78.159	-24.292	1.00	43.57	A16
ATOM	24061	C8	GUA	227	116.923	69.409	-13.593	1.00	44.37	A16S	ATOM	24114	N1	CYT	230	120.572	79.359	-23.544	1.00	43.57	A16
ATOM	24062	C2'	GUA	227	118.597	67.240	-15.643	1.00	42.69	A16S	ATOM	24115	C6	CYT	230	120.949	79.074	-22.152	1.00	40.90	A16
ATOM	24063	O2'	GUA	227	118.728	65.995	-16.288	1.00	42.69	A16S	ATOM	24116	C2	CYT	230	121.513	77.882	-22.152	1.00	40.90	A16
ATOM	24064	C3'	GUA	227	119.701	67.457	-14.622	1.00	42.69	A16S	ATOM	24117	O2	CYT	230	120.720	80.059	-21.192	1.00	40.90	A16
ATOM	24065	O3'	GUA	227	120.955	67.005	-15.101	1.00	42.69	A16S	ATOM	24118	N3	CYT	230	120.217	81.139	-21.550	1.00	40.90	A16
ATOM	24066	P	CYT	228	121.973	68.060	-15.745	1.00	41.27	A16S	ATOM	24119	C4	CYT	230	121.590	79.819	-19.906	1.00	40.90	A16
ATOM	24067	O1P	CYT	228	123.185	67.327	-16.156	1.00	41.27	A16S	ATOM	24120	N4	CYT	230	121.891	78.449	-18.283	1.00	40.90	A16
ATOM	24068	O2P	CYT	228	122.078	69.193	-14.795	1.00	41.27	A16S	ATOM	24121	C5	CYT	230	121.843	77.631	-20.528	1.00	40.90	A16
ATOM	24069	O5'	CYT	228	122.078	69.193	-14.795	1.00	41.27	A16S	ATOM	24122	C2'	CYT	230	121.560	80.336	-24.164	1.00	43.57	A16
ATOM	24070	C5'	CYT	228	122.078	69.193	-14.795	1.00	41.27	A16S	ATOM	24123	O2'	CYT	230	120.868	81.190	-25.056	1.00	43.57	A16
ATOM	24071	O4'	CYT	228	120.108	68.209	-19.164	1.00	41.27	A16S	ATOM	24124	C3'	CYT	230	120.868	81.190	-25.056	1.00	43.57	A16
ATOM	24072	C4'	CYT	228	118.783	68.455	-18.622	1.00	41.27	A16S	ATOM	24125	O3'	CYT	230	122.534	79.383	-24.836	1.00	43.57	A16
ATOM	24073	C1'	CYT	228	118.229	69.619	-19.216	1.00	41.27	A16S	ATOM	24126	P	GUA	231	123.208	80.013	-25.890	1.00	43.57	A16
ATOM	24074	N1	CYT	228	118.099	70.656	-18.173	1.00	41.67	A16S	ATOM	24127	O1P	GUA	231	124.617	80.715	-25.610	1.00	44.10	A16
ATOM	24075	C6	CYT	228	118.661	70.485	-16.938	1.00	41.67	A16S	ATOM	24128	O2P	GUA	231	125.279	80.782	-26.956	1.00	32.94	A16
ATOM	24076	C2	CYT	228	117.408	71.838	-18.473	1.00	41.67	A16S	ATOM	24129	O5'	GUA	231	125.302	80.012	-24.496	1.00	32.94	A16
ATOM	24077	O2	CYT	228	116.894	71.969	-19.596	1.00	41.67	A16S	ATOM	24130	C5'	GUA	231	124.223	82.169	-25.083	1.00	44.10	A16
ATOM	24078	N3	CYT	228	117.321	72.806	-17.536	1.00	41.67	A16S	ATOM	24131	C4'	GUA	231	123.603	83.139	-25.948	1.00	44.10	A16
ATOM	24079	C4	CYT	228	117.889	72.633	-16.346	1.00	41.67	A16S	ATOM	24132	O4'	GUA	231	123.513	84.475	-25.248	1.00	44.10	A16
ATOM	24080	N4	CYT	228	117.795	73.621	-15.465	1.00	41.67	A16S	ATOM	24133	C1'	GUA	231	122.573	84.407	-24.146	1.00	44.10	A16
ATOM	24080	N4	CYT	228	117.795	73.621	-15.465	1.00	41.67	A16S	ATOM	24133	C1'	GUA	231	123.051	85.165	-23.046	1.00	44.10	A16

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ATOM	24134	N9	GUA	231	123.303	84.241	-21.941	1.00	32.94	A16S	ATOM	24187	C8	GUA	233	130.602	85.134	-18.824	1.00	34.58	A16
ATOM	24135	C4	GUA	231	123.440	84.546	-20.612	1.00	32.94	A16S	ATOM	24188	C2'	GUA	233	132.972	86.863	-16.975	1.00	37.61	A16
ATOM	24136	N8	GUA	231	123.382	85.774	-20.070	1.00	32.94	A16S	ATOM	24189	O2'	GUA	233	133.349	87.745	-15.933	1.00	37.61	A16
ATOM	24137	C2	GUA	231	123.550	85.746	-18.752	1.00	32.94	A16S	ATOM	24190	C3'	GUA	233	133.357	87.434	-18.334	1.00	37.61	A16
ATOM	24138	N2	GUA	231	123.523	86.888	-18.043	1.00	32.94	A16S	ATOM	24191	O3'	GUA	233	134.635	88.048	-18.332	1.00	37.61	A16
ATOM	24139	N1	GUA	231	123.754	84.601	-18.025	1.00	32.94	A16S	ATOM	24192	P	URI	234	135.900	87.222	-18.879	1.00	55.87	A16
ATOM	24140	C6	GUA	231	123.810	83.318	-18.556	1.00	32.94	A16S	ATOM	24193	O1P	URI	234	137.097	88.109	-18.796	1.00	42.94	A16
ATOM	24141	O5	GUA	231	123.974	82.327	-17.796	1.00	32.94	A16S	ATOM	24194	O2P	URI	234	135.528	86.598	-20.184	1.00	42.94	A16
ATOM	24142	C5	GUA	231	123.646	83.338	-19.979	1.00	32.94	A16S	ATOM	24195	O5'	URI	234	136.077	86.071	-17.796	1.00	55.87	A16
ATOM	24143	N7	GUA	231	123.660	82.297	-20.896	1.00	32.94	A16S	ATOM	24196	C5'	URI	234	136.571	86.369	-16.484	1.00	55.87	A16
ATOM	24144	C3	GUA	231	123.451	82.877	-22.040	1.00	32.94	A16S	ATOM	24197	C4'	URI	234	136.760	85.096	-15.701	1.00	55.87	A16
ATOM	24145	C2'	GUA	231	124.317	85.877	-23.518	1.00	44.10	A16S	ATOM	24198	O4'	URI	234	135.473	84.464	-15.488	1.00	55.87	A16
ATOM	24146	O2'	GUA	231	123.966	87.147	-24.032	1.00	44.10	A16S	ATOM	24199	C1'	URI	234	135.627	83.059	-15.486	1.00	55.87	A16
ATOM	24147	C3'	GUA	231	124.802	84.940	-24.610	1.00	44.10	A16S	ATOM	24200	N1	URI	234	134.757	82.482	-16.521	1.00	42.94	A16
ATOM	24148	O3'	GUA	231	125.621	85.592	-25.552	1.00	44.10	A16S	ATOM	24201	C6	URI	234	134.663	83.033	-17.774	1.00	42.94	A16
ATOM	24149	P	CYT	232	127.207	85.375	-25.496	1.00	42.78	A16S	ATOM	24202	C2	URI	234	134.041	81.354	-16.194	1.00	42.94	A16
ATOM	24150	O1P	CYT	232	127.729	86.043	-26.729	1.00	30.80	A16S	ATOM	24203	O2	URI	234	134.078	80.847	-15.087	1.00	42.94	A16
ATOM	24151	O2P	CYT	232	127.462	83.930	-25.285	1.00	30.80	A16S	ATOM	24204	N3	URI	234	133.273	80.836	-17.207	1.00	42.94	A16
ATOM	24152	O5'	CYT	232	127.652	86.145	-24.171	1.00	42.78	A16S	ATOM	24205	C4	URI	234	133.140	81.328	-18.484	1.00	42.94	A16
ATOM	24153	C5'	CYT	232	127.593	88.014	-22.661	1.00	42.78	A16S	ATOM	24206	O4	URI	234	132.378	80.762	-19.286	1.00	42.94	A16
ATOM	24154	O4'	CYT	232	127.456	87.555	-24.066	1.00	42.78	A16S	ATOM	24207	C5	URI	234	133.902	82.509	-18.739	1.00	42.94	A16
ATOM	24155	O4'	CYT	232	126.544	87.440	-21.825	1.00	42.78	A16S	ATOM	24208	C2'	URI	234	137.108	82.748	-15.705	1.00	55.87	A16
ATOM	24156	C1'	CYT	232	127.018	87.255	-20.496	1.00	42.78	A16S	ATOM	24209	O2'	URI	234	137.720	82.544	-14.453	1.00	55.87	A16
ATOM	24157	N1	CYT	232	126.974	85.822	-20.148	1.00	30.80	A16S	ATOM	24210	C3'	URI	234	137.602	84.025	-16.373	1.00	55.87	A16
ATOM	24158	C6	CYT	232	126.921	84.852	-21.113	1.00	30.80	A16S	ATOM	24211	O3'	URI	234	138.995	84.229	-16.149	1.00	54.99	A16
ATOM	24159	C2	CYT	232	127.012	85.470	-18.804	1.00	30.80	A16S	ATOM	24212	P	CYT	235	140.026	84.136	-17.386	1.00	36.37	A16
ATOM	24160	O2	CYT	232	127.054	86.366	-17.956	1.00	30.80	A16S	ATOM	24213	O1P	CYT	235	139.650	82.988	-18.261	1.00	36.37	A16
ATOM	24161	N3	CYT	232	127.012	84.167	-18.462	1.00	30.80	A16S	ATOM	24214	O2P	CYT	235	141.416	83.826	-16.684	1.00	54.99	A16
ATOM	24162	C4	CYT	232	126.984	83.230	-19.407	1.00	30.80	A16S	ATOM	24215	O5'	CYT	235	141.900	84.679	-15.643	1.00	54.99	A16
ATOM	24163	N4	CYT	232	127.019	81.965	-19.024	1.00	30.80	A16S	ATOM	24216	C5'	CYT	235	143.263	84.231	-15.197	1.00	54.99	A16
ATOM	24164	C5	CYT	232	126.927	83.556	-20.787	1.00	30.80	A16S	ATOM	24217	C4'	CYT	235	143.161	82.889	-14.672	1.00	54.99	A16
ATOM	24165	C2'	CYT	232	128.457	87.751	-20.452	1.00	42.78	A16S	ATOM	24218	O4'	CYT	235	144.322	82.156	-15.013	1.00	54.99	A16
ATOM	24166	O2'	CYT	232	128.441	89.063	-19.943	1.00	42.78	A16S	ATOM	24219	C1'	CYT	235	143.928	81.059	-15.905	1.00	36.37	A16
ATOM	24167	C3'	CYT	232	128.862	87.623	-21.917	1.00	42.78	A16S	ATOM	24220	N1	CYT	235	142.821	81.157	-16.697	1.00	36.37	A16
ATOM	24168	O3'	CYT	232	129.960	88.422	-22.275	1.00	42.78	A16S	ATOM	24221	C6	CYT	235	144.708	79.918	-15.931	1.00	36.37	A16
ATOM	24169	P	GUA	233	131.413	87.751	-22.356	1.00	37.61	A16S	ATOM	24222	C2	CYT	235	145.718	79.875	-15.200	1.00	36.37	A16
ATOM	24170	O1P	GUA	233	132.297	88.751	-22.997	1.00	34.58	A16S	ATOM	24223	O2	CYT	235	144.351	78.890	-16.752	1.00	36.37	A16
ATOM	24171	O2P	GUA	233	131.282	86.402	-22.958	1.00	34.58	A16S	ATOM	24224	N3	CYT	235	143.263	78.999	-17.521	1.00	36.37	A16
ATOM	24172	O5'	GUA	233	131.841	87.608	-20.831	1.00	37.61	A16S	ATOM	24225	C4	CYT	235	142.938	77.980	-18.317	1.00	36.37	A16
ATOM	24173	C5'	GUA	233	132.009	88.781	-20.033	1.00	37.61	A16S	ATOM	24226	N4	CYT	235	142.457	80.161	-17.511	1.00	36.37	A16
ATOM	24174	O4'	GUA	233	132.238	88.419	-18.596	1.00	37.61	A16S	ATOM	24227	C5	CYT	235	145.275	83.108	-15.720	1.00	54.99	A16
ATOM	24175	C4'	GUA	233	131.060	87.769	-18.057	1.00	37.61	A16S	ATOM	24228	C2'	CYT	235	146.122	83.709	-14.771	1.00	54.99	A16
ATOM	24176	C1'	GUA	233	131.445	86.798	-17.092	1.00	37.61	A16S	ATOM	24229	O2'	CYT	235	144.306	84.118	-16.290	1.00	54.99	A16
ATOM	24177	N9	GUA	233	130.984	85.486	-17.548	1.00	34.58	A16S	ATOM	24230	C3'	CYT	235	144.957	85.332	-16.558	1.00	54.99	A16
ATOM	24178	C4	GUA	233	130.874	84.346	-16.786	1.00	34.58	A16S	ATOM	24231	O3'	CYT	235	145.585	85.561	-18.010	1.00	50.08	A16
ATOM	24179	N3	GUA	233	131.136	84.244	-15.467	1.00	34.58	A16S	ATOM	24232	P	CYT	236	145.967	86.989	-18.098	1.00	40.32	A16
ATOM	24180	C2	GUA	233	130.922	83.017	-15.011	1.00	34.58	A16S	ATOM	24233	O1P	CYT	236	144.625	84.982	-19.003	1.00	40.32	A16
ATOM	24181	N2	GUA	233	131.106	82.752	-13.711	1.00	34.58	A16S	ATOM	24234	O2P	CYT	236	146.910	84.674	-18.006	1.00	50.08	A16
ATOM	24182	N1	GUA	233	130.509	81.970	-15.792	1.00	34.58	A16S	ATOM	24235	O5'	CYT	236	147.985	84.963	-17.102	1.00	50.08	A16
ATOM	24183	C6	GUA	233	130.251	82.048	-17.157	1.00	34.58	A16S	ATOM	24236	C5'	CYT	236	149.097	83.957	-17.269	1.00	50.08	A16
ATOM	24184	O6	GUA	233	129.908	81.035	-17.779	1.00	34.58	A16S	ATOM	24237	C4'	CYT	236	148.634	82.644	-16.869	1.00	50.08	A16
ATOM	24185	C5	GUA	233	130.449	83.364	-17.655	1.00	34.58	A16S	ATOM	24238	O4'	CYT	236	149.214	81.655	-17.697	1.00	50.08	A16
ATOM	24186	N7	GUA	233	130.281	83.875	-18.936	1.00	34.58	A16S	ATOM	24239	C1'	CYT	236						

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ATOM	24240	N1	CYT	236	148.131	80.963	-18.412	1.00	40.32	A16S	ATOM	24293	O3' ADE	238	154.947	83.674	-29.330	1.00	39.32	A16S
ATOM	24241	C6	CYT	236	146.880	81.506	-18.470	1.00	40.32	A16S	ATOM	24294	P	239	155.757	82.988	-30.548	1.00	46.54	A16S
ATOM	24242	C2	CYT	236	148.392	79.741	-19.023	1.00	40.32	A16S	ATOM	24295	O1P URI	239	157.044	83.709	-30.632	1.00	50.06	A16S
ATOM	24243	O2	CYT	236	149.539	79.290	-18.985	1.00	40.32	A16S	ATOM	24296	O2P URI	239	154.930	82.836	-31.765	1.00	50.06	A16S
ATOM	24244	N3	CYT	236	147.389	79.086	-19.648	1.00	40.32	A16S	ATOM	24297	O5' URI	239	156.081	81.531	-30.034	1.00	46.54	A16S
ATOM	24245	C4	CYT	236	146.170	79.623	-19.689	1.00	40.32	A16S	ATOM	24298	C5' URI	239	156.387	81.311	-28.680	1.00	46.54	A16S
ATOM	24246	N4	CYT	236	145.203	78.952	-20.312	1.00	40.32	A16S	ATOM	24299	C4' URI	239	156.832	79.902	-28.492	1.00	46.54	A16S
ATOM	24247	C5	CYT	236	145.882	80.876	-19.093	1.00	40.32	A16S	ATOM	24300	O4' URI	239	158.143	79.770	-29.083	1.00	46.54	A16S
ATOM	24248	C2' CYT	236	150.192	82.355	-18.633	1.00	50.08	A16S	ATOM	24301	C1' URI	239	159.071	79.394	-28.095	1.00	46.54	A16S	
ATOM	24249	O2' CYT	236	151.463	82.299	-18.026	1.00	50.08	A16S	ATOM	24302	N1	239	160.313	80.144	-28.313	1.00	50.06	A16S	
ATOM	24250	O3' CYT	236	149.614	83.765	-18.682	1.00	50.08	A16S	ATOM	24303	C6	239	160.297	81.434	-28.791	1.00	50.06	A16S	
ATOM	24251	O3' CYT	236	150.583	84.750	-19.013	1.00	50.08	A16S	ATOM	24304	C2	239	161.508	79.516	-28.007	1.00	50.06	A16S	
ATOM	24252	P	CYT	237	150.672	85.294	-20.523	1.00	52.21	A16S	ATOM	24305	O2	239	161.574	78.378	-27.563	1.00	50.06	A16S
ATOM	24253	O1P CYT	237	151.551	86.479	-20.505	1.00	46.34	A16S	ATOM	24306	N3	239	162.626	80.273	-28.227	1.00	50.06	A16S	
ATOM	24254	O2P CYT	237	149.310	85.405	-21.100	1.00	46.34	A16S	ATOM	24307	C4	239	162.673	81.564	-28.689	1.00	50.06	A16S	
ATOM	24255	O5' CYT	237	151.421	84.120	-21.283	1.00	52.21	A16S	ATOM	24308	O4	239	163.758	82.107	-28.818	1.00	50.06	A16S	
ATOM	24256	C5' CYT	237	152.731	83.734	-20.886	1.00	52.21	A16S	ATOM	24309	C5	239	161.408	82.147	-28.977	1.00	50.06	A16S	
ATOM	24257	C4' CYT	237	153.183	82.565	-21.697	1.00	52.21	A16S	ATOM	24310	C2' URI	239	158.441	79.733	-26.747	1.00	46.54	A16S	
ATOM	24258	O4' CYT	237	152.471	81.381	-21.280	1.00	52.21	A16S	ATOM	24311	O2' URI	239	158.933	78.900	-25.714	1.00	46.54	A16S	
ATOM	24259	C1' CYT	237	152.277	80.528	-22.397	1.00	52.21	A16S	ATOM	24312	C3' URI	239	156.962	79.527	-27.031	1.00	46.54	A16S	
ATOM	24260	N1	CYT	237	150.835	80.271	-22.562	1.00	46.34	A16S	ATOM	24313	O3' URI	239	156.569	78.179	-26.854	1.00	46.54	A16S
ATOM	24261	C6	CYT	237	149.909	81.213	-22.219	1.00	46.34	A16S	ATOM	24314	P	240	155.034	77.849	-26.524	1.00	47.84	A16S
ATOM	24262	C2	CYT	237	150.428	79.049	-23.089	1.00	46.34	A16S	ATOM	24315	O1P CYT	240	154.443	79.064	-25.900	1.00	44.91	A16S
ATOM	24263	O2	CYT	237	151.285	78.216	-23.386	1.00	46.34	A16S	ATOM	24316	O2P CYT	240	154.978	76.543	-25.793	1.00	44.91	A16S
ATOM	24264	N3	CYT	237	149.109	78.808	-23.268	1.00	46.34	A16S	ATOM	24317	O5' CYT	240	154.382	77.663	-27.970	1.00	47.84	A16S
ATOM	24265	C4	CYT	237	148.215	79.744	-22.952	1.00	46.34	A16S	ATOM	24318	C5' CYT	240	154.774	76.565	-28.803	1.00	47.84	A16S
ATOM	24266	N4	CYT	237	146.931	79.490	-23.179	1.00	46.34	A16S	ATOM	24319	C4' CYT	240	153.561	75.832	-29.305	1.00	47.84	A16S
ATOM	24267	C5	CYT	237	148.600	80.993	-22.398	1.00	46.34	A16S	ATOM	24320	O4' CYT	240	152.612	75.705	-28.215	1.00	47.84	A16S
ATOM	24268	C2' CYT	237	152.893	81.214	-23.618	1.00	52.21	A16S	ATOM	24321	C1' CYT	240	151.293	75.784	-28.722	1.00	47.84	A16S	
ATOM	24269	O3' CYT	237	154.206	80.733	-23.835	1.00	52.21	A16S	ATOM	24322	N1	240	150.592	76.925	-28.096	1.00	44.91	A16S	
ATOM	24270	C3' CYT	237	152.895	82.669	-23.180	1.00	52.21	A16S	ATOM	24323	C6	240	151.259	77.853	-27.347	1.00	44.91	A16S	
ATOM	24271	O3' CYT	237	153.862	83.434	-23.867	1.00	52.21	A16S	ATOM	24324	C2	240	149.213	77.051	-28.305	1.00	44.91	A16S	
ATOM	24272	P	ADE	238	153.415	84.288	-25.143	1.00	39.32	A16S	ATOM	24325	O2	240	148.625	76.183	-28.972	1.00	44.91	A16S
ATOM	24273	O1P ADE	238	154.646	84.861	-25.724	1.00	41.30	A16S	ATOM	24326	N3	240	148.556	78.110	-27.783	1.00	44.91	A16S	
ATOM	24274	O2P ADE	238	152.292	85.176	-24.769	1.00	41.30	A16S	ATOM	24327	C4	240	149.218	79.019	-27.074	1.00	44.91	A16S	
ATOM	24275	O5' ADE	238	152.865	83.194	-26.145	1.00	39.32	A16S	ATOM	24328	N4	240	148.530	80.057	-26.603	1.00	44.91	A16S	
ATOM	24276	C5' ADE	238	153.726	82.160	-26.589	1.00	39.32	A16S	ATOM	24329	C5	240	150.616	78.907	-26.822	1.00	44.91	A16S	
ATOM	24277	C4' ADE	238	153.555	81.951	-28.059	1.00	39.32	A16S	ATOM	24330	C2' CYT	240	151.383	75.942	-30.240	1.00	47.84	A16S	
ATOM	24278	O4' ADE	238	152.249	81.382	-28.301	1.00	39.32	A16S	ATOM	24331	O2' CYT	240	151.215	74.680	-30.837	1.00	47.84	A16S	
ATOM	24279	C1' ADE	238	151.700	81.937	-29.472	1.00	39.32	A16S	ATOM	24332	C3' CYT	240	152.782	76.515	-30.414	1.00	47.84	A16S	
ATOM	24280	N9	ADE	238	150.245	81.857	-29.359	1.00	41.30	A16S	ATOM	24333	O3' CYT	240	153.322	76.185	-31.684	1.00	47.84	A16S
ATOM	24281	C4	ADE	238	149.485	80.826	-29.853	1.00	41.30	A16S	ATOM	24334	P	241	153.275	77.258	-32.876	1.00	53.27	A16S
ATOM	24282	N3	ADE	238	149.920	79.734	-30.505	1.00	41.30	A16S	ATOM	24335	O1P ADE	241	154.137	76.716	-32.949	1.00	38.86	A16S
ATOM	24283	C2	ADE	238	148.901	78.962	-30.847	1.00	41.30	A16S	ATOM	24336	O2P ADE	241	153.519	78.621	-32.354	1.00	38.86	A16S
ATOM	24284	N1	ADE	238	147.598	79.142	-30.633	1.00	41.30	A16S	ATOM	24337	O5' ADE	241	151.766	77.250	-33.371	1.00	53.27	A16S
ATOM	24285	C6	ADE	238	147.201	80.247	-29.982	1.00	41.30	A16S	ATOM	24338	C5' ADE	241	151.142	76.040	-33.786	1.00	53.27	A16S
ATOM	24286	N6	ADE	238	145.910	80.427	-29.785	1.00	41.30	A16S	ATOM	24339	C4' ADE	241	150.160	76.313	-34.895	1.00	53.27	A16S
ATOM	24287	C5	ADE	238	148.181	81.143	-29.557	1.00	41.30	A16S	ATOM	24340	O4' ADE	241	149.004	77.027	-34.388	1.00	53.27	A16S
ATOM	24288	N7	ADE	238	148.113	82.346	-28.871	1.00	41.30	A16S	ATOM	24341	C1' ADE	241	148.705	78.080	-35.266	1.00	53.27	A16S
ATOM	24289	C8	ADE	238	149.363	82.727	-28.779	1.00	41.30	A16S	ATOM	24342	N9	241	147.994	79.128	-34.549	1.00	38.86	A16S
ATOM	24290	C2' ADE	238	152.286	83.339	-29.645	1.00	39.32	A16S	ATOM	24343	C4	241	146.635	79.281	-34.560	1.00	38.86	A16S	
ATOM	24291	O2' ADE	238	152.297	83.556	-31.041	1.00	39.32	A16S	ATOM	24344	N3	241	145.741	78.505	-35.189	1.00	38.86	A16S	
ATOM	24292	C3' ADE	238	153.646	83.191	-28.934	1.00	39.32	A16S	ATOM	24345	C2	241	144.517	78.965	-35.002	1.00	38.86	A16S	

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ATOM	24346	N1	ADE	241	144.113	80.029	-34.303	1.00	38.86	Al6S	ATOM	24399	P	URI	244	143.402	67.231	-35.083	1.00	58.94	Al
ATOM	24347	C6	ADE	241	145.039	80.785	-33.679	1.00	38.86	Al6S	ATOM	24400	O1P	URI	244	143.735	66.133	-34.149	1.00	43.01	Al
ATOM	24348	A16	ADE	241	144.633	81.850	-32.981	1.00	38.86	Al6S	ATOM	24401	O2P	URI	244	144.011	67.258	-36.439	1.00	43.01	Al
ATOM	24349	N5	ADE	241	146.377	80.404	-33.807	1.00	38.86	Al6S	ATOM	24402	O5	URI	244	141.824	67.261	-35.284	1.00	58.94	Al
ATOM	24350	C7	ADE	241	147.555	80.946	-33.315	1.00	38.86	Al6S	ATOM	24403	C5	URI	244	140.955	67.339	-34.148	1.00	58.94	Al
ATOM	24351	C8	ADE	241	148.482	80.147	-33.777	1.00	38.86	Al6S	ATOM	24404	C4	URI	244	139.516	67.277	-34.577	1.00	58.94	Al
ATOM	24352	C2	ADE	241	150.035	78.481	-35.085	1.00	53.27	Al6S	ATOM	24405	O4	URI	244	139.151	68.483	-35.282	1.00	58.94	Al
ATOM	24353	O2	ADE	241	149.765	79.158	-37.094	1.00	53.27	Al6S	ATOM	24406	C1	URI	244	138.167	68.179	-36.252	1.00	58.94	Al
ATOM	24354	C3	ADE	241	150.667	77.113	-36.090	1.00	53.27	Al6S	ATOM	24407	N1	URI	244	138.668	68.559	-37.579	1.00	43.01	Al
ATOM	24355	O3	ADE	241	150.033	76.571	-37.222	1.00	53.27	Al6S	ATOM	24408	C6	URI	244	140.020	68.645	-37.857	1.00	43.01	Al
ATOM	24356	GUA	GUA	242	150.903	75.997	-38.427	1.00	49.65	Al6S	ATOM	24409	C2	URI	244	137.720	68.803	-38.562	1.00	43.01	Al
ATOM	24357	O1P	GUA	242	151.484	74.713	-37.933	1.00	43.01	Al6S	ATOM	24410	O2	URI	244	136.513	68.774	-38.346	1.00	43.01	Al
ATOM	24358	O2P	GUA	242	151.797	77.073	-38.900	1.00	43.01	Al6S	ATOM	24411	N3	URI	244	138.237	69.078	-39.806	1.00	43.01	Al
ATOM	24359	O5	GUA	242	149.786	75.699	-39.533	1.00	49.65	Al6S	ATOM	24412	C4	URI	244	139.571	69.140	-40.157	1.00	43.01	Al
ATOM	24360	C5	GUA	242	148.886	74.560	-39.395	1.00	49.65	Al6S	ATOM	24413	O4	URI	244	139.867	69.259	-41.338	1.00	43.01	Al
ATOM	24361	C4	GUA	242	148.119	74.648	-38.087	1.00	49.65	Al6S	ATOM	24414	C5	URI	244	140.489	68.922	-39.080	1.00	43.01	Al
ATOM	24362	O4	GUA	242	147.309	75.852	-38.093	1.00	49.65	Al6S	ATOM	24415	O2	URI	244	137.875	66.680	-36.177	1.00	58.94	Al
ATOM	24363	C1	GUA	242	146.098	75.615	-37.403	1.00	49.65	Al6S	ATOM	24416	C2	URI	244	136.712	66.473	-35.397	1.00	58.94	Al
ATOM	24364	N9	GUA	242	144.999	75.688	-38.362	1.00	43.01	Al6S	ATOM	24417	C3	URI	244	139.150	66.155	-35.528	1.00	58.94	Al
ATOM	24365	C4	GUA	242	143.659	75.642	-38.061	1.00	43.01	Al6S	ATOM	24418	O3	URI	244	138.959	64.935	-34.828	1.00	58.94	Al
ATOM	24366	N3	GUA	242	143.132	75.529	-36.827	1.00	43.01	Al6S	ATOM	24419	P	ADE	245	139.229	63.545	-35.577	1.00	73.34	Al
ATOM	24367	C2	GUA	242	141.816	75.515	-36.853	1.00	43.01	Al6S	ATOM	24420	O1P	ADE	245	139.492	62.526	-34.521	1.00	92.65	Al
ATOM	24368	N2	GUA	242	141.138	75.422	-35.709	1.00	43.01	Al6S	ATOM	24421	O2P	ADE	245	140.225	63.768	-36.656	1.00	92.65	Al
ATOM	24369	N1	GUA	242	141.070	75.597	-37.998	1.00	43.01	Al6S	ATOM	24422	O5	ADE	245	137.837	63.239	-36.278	1.00	73.34	Al
ATOM	24370	C6	GUA	242	141.584	75.718	-39.279	1.00	43.01	Al6S	ATOM	24423	C5	ADE	245	136.720	62.732	-35.527	1.00	73.34	Al
ATOM	24371	O6	GUA	242	140.813	75.799	-40.244	1.00	43.01	Al6S	ATOM	24424	C4	ADE	245	135.853	61.890	-36.424	1.00	73.34	Al
ATOM	24372	C5	GUA	242	143.005	75.737	-39.270	1.00	43.01	Al6S	ATOM	24425	O4	ADE	245	135.231	62.740	-37.410	1.00	73.34	Al
ATOM	24373	N7	GUA	242	143.914	75.841	-40.314	1.00	43.01	Al6S	ATOM	24426	C1	ADE	245	135.312	62.147	-38.689	1.00	73.34	Al
ATOM	24374	C8	GUA	242	145.082	75.806	-39.730	1.00	43.01	Al6S	ATOM	24427	N9	ADE	245	135.943	63.137	-39.559	1.00	92.65	Al
ATOM	24375	C2	GUA	242	146.197	74.223	-36.793	1.00	49.65	Al6S	ATOM	24428	C4	ADE	245	135.547	63.502	-40.826	1.00	92.65	Al
ATOM	24376	O2	GUA	242	146.796	74.319	-35.521	1.00	49.65	Al6S	ATOM	24429	N3	ADE	245	134.569	62.951	-41.569	1.00	92.65	Al
ATOM	24377	C3	GUA	242	147.126	73.537	-37.776	1.00	49.65	Al6S	ATOM	24430	C2	ADE	245	134.432	63.608	-42.727	1.00	92.65	Al
ATOM	24378	O3	GUA	242	147.722	72.390	-37.187	1.00	49.65	Al6S	ATOM	24431	N1	ADE	245	135.109	64.678	-43.189	1.00	92.65	Al
ATOM	24379	P	CYT	243	146.993	70.954	-37.320	1.00	54.23	Al6S	ATOM	24432	C6	ADE	245	136.086	65.208	-42.417	1.00	92.65	Al
ATOM	24380	O1P	CYT	243	147.860	69.973	-36.605	1.00	50.95	Al6S	ATOM	24433	N6	ADE	245	136.748	66.280	-42.867	1.00	92.65	Al
ATOM	24381	O2P	CYT	243	146.629	70.721	-38.744	1.00	50.95	Al6S	ATOM	24434	C5	ADE	245	136.339	64.594	-41.168	1.00	92.65	Al
ATOM	24382	O5	CYT	243	145.652	71.095	-36.476	1.00	54.23	Al6S	ATOM	24435	N7	ADE	245	137.256	64.869	-40.161	1.00	92.65	Al
ATOM	24383	C5	CYT	243	145.704	71.094	-35.050	1.00	54.23	Al6S	ATOM	24436	C8	ADE	245	136.994	63.969	-39.241	1.00	92.65	Al
ATOM	24384	C4	CYT	243	144.321	70.995	-34.467	1.00	54.23	Al6S	ATOM	24437	C2	ADE	245	135.920	60.746	-38.552	1.00	73.34	Al
ATOM	24385	O4	CYT	243	143.557	72.173	-34.833	1.00	54.23	Al6S	ATOM	24438	O2	ADE	245	134.890	59.780	-38.635	1.00	73.34	Al
ATOM	24386	C1	CYT	243	142.189	71.831	-34.958	1.00	54.23	Al6S	ATOM	24439	C3	ADE	245	136.631	60.839	-37.197	1.00	73.34	Al
ATOM	24387	N1	CYT	243	141.758	72.067	-36.348	1.00	50.95	Al6S	ATOM	24440	O3	ADE	245	136.825	59.640	-36.399	1.00	73.34	Al
ATOM	24388	C6	CYT	243	142.665	72.244	-37.349	1.00	50.95	Al6S	ATOM	24441	P	GUA	246	135.568	58.887	-35.680	1.00	84.17	Al
ATOM	24389	C2	CYT	243	140.395	72.085	-36.630	1.00	50.95	Al6S	ATOM	24442	O1P	GUA	246	136.078	58.224	-34.438	1.00	64.05	Al
ATOM	24390	O2	CYT	243	139.593	71.964	-35.700	1.00	50.95	Al6S	ATOM	24443	O2P	GUA	246	134.832	58.081	-36.699	1.00	64.05	Al
ATOM	24391	N3	CYT	243	139.983	72.241	-37.906	1.00	50.95	Al6S	ATOM	24444	O5	GUA	246	134.592	60.044	-35.183	1.00	84.17	Al
ATOM	24392	C4	CYT	243	140.878	72.399	-38.876	1.00	50.95	Al6S	ATOM	24445	C5	GUA	246	133.845	59.905	-33.967	1.00	84.17	Al
ATOM	24393	N4	CYT	243	140.432	72.543	-40.121	1.00	50.95	Al6S	ATOM	24446	C4	GUA	246	132.764	60.954	-33.894	1.00	84.17	Al
ATOM	24394	C5	CYT	243	142.272	72.415	-38.614	1.00	50.95	Al6S	ATOM	24447	O4	GUA	246	131.880	60.819	-35.013	1.00	84.17	Al
ATOM	24395	O2	CYT	243	142.062	70.355	-34.595	1.00	54.23	Al6S	ATOM	24448	C1	GUA	246	130.615	61.324	-34.655	1.00	84.17	Al
ATOM	24396	C2	CYT	243	141.812	70.226	-33.210	1.00	54.23	Al6S	ATOM	24449	N9	GUA	246	129.634	60.726	-35.552	1.00	64.05	Al
ATOM	24397	C3	CYT	243	143.449	69.844	-34.933	1.00	54.23	Al6S	ATOM	24450	C4	GUA	246	128.697	61.414	-36.292	1.00	64.05	Al
ATOM	24398	O3	CYT	243	143.716	68.603	-34.294	1.00	54.23	Al6S	ATOM	24451	N3	GUA	246	128.399	62.727	-36.175	1.00	64.05	Al

ATOM	24452	C2	GUA	246	127.540	63.126	-37.093	1.00	64.05	Al6S	ATOM	24505	O1P	GUA	249	125.067	70.497	-34.405	1.00	47.04	Al6
ATOM	24453	N2	GUA	246	127.107	64.392	-37.099	1.00	64.05	Al6S	ATOM	24506	O2P	GUA	249	126.102	68.202	-34.896	1.00	47.04	Al6
ATOM	24454	N1	GUA	246	127.037	62.313	-38.069	1.00	64.05	Al6S	ATOM	24507	O5	GUA	249	125.026	69.566	-36.680	1.00	45.30	Al6
ATOM	24455	C6	GUA	246	127.335	60.963	-38.221	1.00	64.05	Al6S	ATOM	24508	C5	GUA	249	124.384	70.758	-37.135	1.00	45.30	Al6
ATOM	24456	O6	GUA	246	126.857	60.330	-39.178	1.00	64.05	Al6S	ATOM	24509	C4	GUA	249	123.845	70.561	-38.509	1.00	45.30	Al6
ATOM	24457	C5	GUA	246	128.221	60.504	-37.206	1.00	64.05	Al6S	ATOM	24510	O4	GUA	249	124.924	70.087	-39.344	1.00	45.30	Al6
ATOM	24458	N7	GUA	246	128.745	59.238	-36.961	1.00	64.05	Al6S	ATOM	24511	C1	GUA	249	124.424	69.171	-40.290	1.00	45.30	Al6
ATOM	24459	C8	GUA	246	129.553	59.413	-35.950	1.00	64.05	Al6S	ATOM	24512	N9	GUA	249	124.971	67.858	-39.984	1.00	47.04	Al6
ATOM	24460	C2	GUA	246	130.460	61.260	-33.135	1.00	84.17	Al6S	ATOM	24513	C4	GUA	249	124.837	66.740	-40.764	1.00	47.04	Al6
ATOM	24461	O2	GUA	246	130.042	62.500	-32.603	1.00	84.17	Al6S	ATOM	24514	N3	GUA	249	124.262	66.694	-41.982	1.00	47.04	Al6
ATOM	24462	C3	GUA	246	131.858	60.821	-32.685	1.00	84.17	Al6S	ATOM	24515	C2	GUA	249	124.231	65.472	-42.463	1.00	47.04	Al6
ATOM	24463	O3	GUA	246	132.419	61.451	-31.525	1.00	84.17	Al6S	ATOM	24516	N2	GUA	249	123.730	65.253	-43.677	1.00	47.04	Al6
ATOM	24464	P	URI	247	132.978	62.983	-31.550	1.00	56.56	Al6S	ATOM	24517	N1	GUA	249	124.697	64.375	-41.794	1.00	47.04	Al6
ATOM	24465	O1P	URI	247	134.380	62.824	-31.102	1.00	50.40	Al6S	ATOM	24518	C6	GUA	249	125.282	64.394	-40.536	1.00	47.04	Al6
ATOM	24466	O2P	URI	247	132.070	63.875	-30.778	1.00	50.40	Al6S	ATOM	24519	O6	GUA	249	125.643	63.338	-40.011	1.00	47.04	Al6
ATOM	24467	O5	URI	247	133.051	63.547	-33.046	1.00	56.56	Al6S	ATOM	24520	C5	GUA	249	125.360	65.710	-40.019	1.00	47.04	Al6
ATOM	24468	C5	URI	247	134.096	64.499	-33.335	1.00	56.56	Al6S	ATOM	24521	N7	GUA	249	125.882	66.184	-38.819	1.00	47.04	Al6
ATOM	24469	C4	URI	247	133.826	65.365	-34.552	1.00	56.56	Al6S	ATOM	24522	C8	GUA	249	125.639	67.466	-38.848	1.00	47.04	Al6
ATOM	24470	O4	URI	247	134.131	64.671	-35.774	1.00	50.40	Al6S	ATOM	24523	O2	GUA	249	122.906	69.111	-40.109	1.00	45.30	Al6
ATOM	24471	C1	URI	247	133.604	65.410	-36.850	1.00	56.56	Al6S	ATOM	24524	C2	GUA	249	122.275	70.018	-40.995	1.00	45.30	Al6
ATOM	24472	N1	URI	247	132.925	64.499	-37.782	1.00	50.40	Al6S	ATOM	24525	C3	GUA	249	122.763	69.507	-38.647	1.00	45.30	Al6
ATOM	24473	C6	URI	247	132.424	63.286	-37.371	1.00	50.40	Al6S	ATOM	24526	O3	GUA	249	121.464	70.008	-38.328	1.00	45.30	Al6
ATOM	24474	O2	URI	247	133.245	65.973	-39.507	1.00	50.40	Al6S	ATOM	24527	P	GUA	250	120.312	68.987	-37.855	1.00	49.96	Al6
ATOM	24475	O2	URI	247	132.159	64.022	-39.924	1.00	50.40	Al6S	ATOM	24528	O1P	GUA	250	119.142	69.792	-37.432	1.00	59.19	Al6
ATOM	24476	N3	URI	247	131.637	62.797	-39.578	1.00	50.40	Al6S	ATOM	24529	O2P	GUA	250	120.895	67.985	-36.922	1.00	59.19	Al6
ATOM	24477	C4	URI	247	131.062	62.124	-40.429	1.00	50.40	Al6S	ATOM	24530	O5	GUA	250	119.902	68.219	-39.183	1.00	49.96	Al6
ATOM	24478	O4	URI	247	131.806	62.444	-38.203	1.00	50.40	Al6S	ATOM	24531	C5	GUA	250	119.471	68.940	-40.341	1.00	49.96	Al6
ATOM	24479	C5	URI	247	132.726	66.531	-36.283	1.00	56.56	Al6S	ATOM	24532	C4	GUA	250	119.260	67.988	-41.488	1.00	49.96	Al6
ATOM	24480	C2	URI	247	133.480	67.723	-36.400	1.00	56.56	Al6S	ATOM	24533	O4	GUA	250	120.506	67.320	-41.789	1.00	49.96	Al6
ATOM	24481	O2	URI	247	132.420	67.285	-34.014	1.00	56.56	Al6S	ATOM	24534	C1	GUA	250	120.242	66.003	-42.223	1.00	49.96	Al6
ATOM	24482	C3	URI	247	130.975	67.873	-33.584	1.00	44.06	Al6S	ATOM	24535	N9	GUA	250	120.971	65.068	-41.378	1.00	59.19	Al6
ATOM	24483	O3	URI	247	131.269	69.000	-32.653	1.00	42.52	Al6S	ATOM	24536	C4	GUA	250	121.195	63.746	-41.664	1.00	59.19	Al6
ATOM	24484	P	URI	248	130.091	66.769	-33.139	1.00	42.52	Al6S	ATOM	24537	N3	GUA	250	120.756	63.090	-42.757	1.00	59.19	Al6
ATOM	24485	O1P	URI	248	130.366	68.494	-34.914	1.00	44.06	Al6S	ATOM	24538	C2	GUA	250	121.140	61.826	-42.758	1.00	59.19	Al6
ATOM	24486	O2P	URI	248	130.342	69.909	-35.077	1.00	44.06	Al6S	ATOM	24539	N2	GUA	250	120.781	61.015	-43.761	1.00	59.19	Al6
ATOM	24487	O5	URI	248	129.550	70.295	-36.290	1.00	44.06	Al6S	ATOM	24540	N1	GUA	250	121.901	61.260	-41.778	1.00	59.19	Al6
ATOM	24488	C5	URI	248	129.296	69.592	-37.487	1.00	44.06	Al6S	ATOM	24541	C6	GUA	250	122.368	61.917	-40.649	1.00	59.19	Al6
ATOM	24489	C4	URI	248	129.312	68.159	-38.813	1.00	42.52	Al6S	ATOM	24542	O6	GUA	250	123.057	61.311	-39.837	1.00	59.19	Al6
ATOM	24490	O4	URI	248	129.701	67.214	-37.886	1.00	42.52	Al6S	ATOM	24543	C5	GUA	250	121.951	63.269	-40.621	1.00	59.19	Al6
ATOM	24491	C1	URI	248	128.880	67.792	-40.060	1.00	42.52	Al6S	ATOM	24544	N7	GUA	250	122.181	64.264	-39.682	1.00	59.19	Al6
ATOM	24492	N1	URI	248	128.564	68.602	-40.905	1.00	42.52	Al6S	ATOM	24545	C8	GUA	250	121.578	65.313	-40.170	1.00	59.19	Al6
ATOM	24493	C6	URI	248	128.825	66.444	-40.283	1.00	42.52	Al6S	ATOM	24546	C2	GUA	250	118.735	65.779	-42.184	1.00	49.96	Al6
ATOM	24494	C2	URI	248	129.163	65.443	-39.399	1.00	42.52	Al6S	ATOM	24547	O2	GUA	250	118.206	65.969	-43.477	1.00	49.96	Al6
ATOM	24495	O3	URI	248	128.976	64.265	-39.723	1.00	42.52	Al6S	ATOM	24548	C3	GUA	250	118.291	66.854	-41.209	1.00	49.96	Al6
ATOM	24496	N2	URI	248	129.641	65.905	-38.127	1.00	42.52	Al6S	ATOM	24549	O3	GUA	250	116.946	67.244	-41.426	1.00	49.96	Al6
ATOM	24497	C4	URI	248	127.927	69.937	-37.941	1.00	44.06	Al6S	ATOM	24550	P	URI	251	115.794	66.632	-40.490	1.00	62.37	Al6
ATOM	24498	O4	URI	248	127.660	71.290	-38.259	1.00	44.06	Al6S	ATOM	24551	O1P	URI	251	114.552	67.402	-40.773	1.00	68.79	Al6
ATOM	24499	C5	URI	248	128.158	69.717	-36.454	1.00	44.06	Al6S	ATOM	24552	O2P	URI	251	116.327	66.580	-39.103	1.00	68.79	Al6
ATOM	24500	C2	URI	248	127.184	70.364	-35.665	1.00	44.06	Al6S	ATOM	24553	O5	URI	251	115.619	65.143	-41.033	1.00	62.37	Al6
ATOM	24501	O2	URI	248	125.821	69.595	-35.307	1.00	45.30	Al6S	ATOM	24554	C5	URI	251	114.951	64.900	-42.287	1.00	62.37	Al6
ATOM	24502	C3	URI	248							ATOM	24555	C4	URI	251	114.949	63.427	-42.615	1.00	62.37	Al6
ATOM	24503	O3	URI	248							ATOM	24556	O4	URI	251	116.308	62.986	-42.855	1.00	62.37	Al6
ATOM	24504	P	GUA	249							ATOM	24557	C1	URI	251	116.458	61.646	-42.421	1.00	62.37	Al6

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ATOM	24558	N1	URI	251	117.464	61.611	-41.350	1.00	68.79	Al6S	ATOM	24611	C8	GUA	253	115.300	57.439	-34.850	1.00	64.78	Al
ATOM	24559	C6	URI	251	117.733	62.724	-40.578	1.00	68.79	Al6S	ATOM	24612	C2	GUA	253	114.914	54.203	-33.861	1.00	74.74	Al
ATOM	24560	O2	URI	251	118.123	60.418	-41.127	1.00	68.79	Al6S	ATOM	24613	O2	GUA	253	115.286	52.841	-33.852	1.00	74.74	Al
ATOM	24561	O2	URI	251	117.936	59.418	-41.807	1.00	68.79	Al6S	ATOM	24614	C3	GUA	253	113.437	54.395	-34.184	1.00	74.74	Al
ATOM	24562	N3	URI	251	119.015	60.437	-40.081	1.00	68.79	Al6S	ATOM	24615	O3	GUA	253	112.699	53.381	-33.509	1.00	74.74	Al
ATOM	24563	C4	URI	251	119.320	61.509	-39.261	1.00	68.79	Al6S	ATOM	24616	P	GUA	254	112.347	53.571	-31.943	1.00	75.65	Al
ATOM	24564	O4	URI	251	120.132	61.362	-38.346	1.00	68.79	Al6S	ATOM	24617	O1P	GUA	254	111.343	52.536	-31.565	1.00	60.38	Al
ATOM	24565	C5	URI	251	118.614	62.712	-39.571	1.00	68.79	Al6S	ATOM	24618	O2P	GUA	254	112.043	55.005	-31.707	1.00	60.38	Al
ATOM	24566	C2	URI	251	115.098	61.171	-41.913	1.00	62.37	Al6S	ATOM	24619	O5	GUA	254	113.711	53.259	-31.179	1.00	75.65	Al
ATOM	24567	O2	URI	251	114.393	60.506	-42.942	1.00	62.37	Al6S	ATOM	24620	C5	GUA	254	114.306	51.951	-31.209	1.00	75.65	Al
ATOM	24568	O3	URI	251	114.439	62.487	-41.538	1.00	62.37	Al6S	ATOM	24621	C4	GUA	254	115.597	51.952	-30.426	1.00	75.65	Al
ATOM	24569	O3	URI	251	113.028	62.368	-41.510	1.00	62.37	Al6S	ATOM	24622	C1	GUA	254	116.492	52.945	-30.990	1.00	75.65	Al
ATOM	24570	P	GUA	252	112.302	61.980	-40.129	1.00	77.09	Al6S	ATOM	24623	O1	GUA	254	117.220	53.587	-29.955	1.00	75.65	Al
ATOM	24571	O1P	GUA	252	110.840	62.122	-40.354	1.00	65.66	Al6S	ATOM	24624	N9	GUA	254	116.939	55.021	-30.023	1.00	60.38	Al
ATOM	24572	O2P	GUA	252	112.950	62.743	-39.028	1.00	65.66	Al6S	ATOM	24625	C4	GUA	254	117.637	56.040	-29.411	1.00	60.38	Al
ATOM	24573	O5	GUA	252	112.669	60.438	-39.918	1.00	77.09	Al6S	ATOM	24626	N3	GUA	254	118.709	55.900	-28.611	1.00	60.38	Al
ATOM	24574	C5	GUA	252	112.168	59.416	-40.816	1.00	77.09	Al6S	ATOM	24627	C2	GUA	254	119.162	57.067	-28.183	1.00	60.38	Al
ATOM	24575	C4	GUA	252	112.806	58.072	-40.515	1.00	77.09	Al6S	ATOM	24628	N2	GUA	254	120.223	57.110	-27.375	1.00	60.38	Al
ATOM	24576	O4	GUA	252	114.239	58.162	-40.728	1.00	77.09	Al6S	ATOM	24629	N1	GUA	254	118.609	58.276	-28.513	1.00	60.38	Al
ATOM	24577	C1	GUA	252	114.918	57.341	-39.788	1.00	77.09	Al6S	ATOM	24630	C6	GUA	254	117.503	58.446	-29.333	1.00	60.38	Al
ATOM	24578	N9	GUA	252	115.742	58.185	-38.925	1.00	65.66	Al6S	ATOM	24631	O6	GUA	254	117.076	59.586	-29.569	1.00	60.38	Al
ATOM	24579	C4	GUA	252	116.735	57.750	-38.077	1.00	65.66	Al6S	ATOM	24632	C5	GUA	254	117.004	57.201	-29.799	1.00	60.38	Al
ATOM	24580	N3	GUA	252	117.134	56.469	-37.911	1.00	65.66	Al6S	ATOM	24633	N7	GUA	254	115.927	56.921	-30.625	1.00	60.38	Al
ATOM	24581	C2	GUA	252	118.111	56.364	-37.025	1.00	65.66	Al6S	ATOM	24634	C8	GUA	254	115.925	55.622	-30.728	1.00	60.38	Al
ATOM	24582	N1	GUA	252	118.622	55.159	-36.737	1.00	65.66	Al6S	ATOM	24635	O2	GUA	254	116.829	52.923	-28.632	1.00	75.65	Al
ATOM	24583	O6	GUA	252	118.655	57.432	-36.355	1.00	65.66	Al6S	ATOM	24636	C2	GUA	254	117.769	51.918	-28.309	1.00	75.65	Al
ATOM	24584	C6	GUA	252	118.255	58.756	-36.503	1.00	65.66	Al6S	ATOM	24637	O3	GUA	254	115.462	52.341	-28.965	1.00	75.65	Al
ATOM	24585	O6	GUA	252	118.801	59.638	-35.840	1.00	65.66	Al6S	ATOM	24638	O3	GUA	254	115.175	51.208	-28.167	1.00	75.65	Al
ATOM	24586	C5	GUA	252	117.207	58.884	-37.453	1.00	65.66	Al6S	ATOM	24639	P	GUA	255	114.303	51.383	-26.834	1.00	56.72	Al
ATOM	24587	N7	GUA	252	116.530	60.011	-37.901	1.00	65.66	Al6S	ATOM	24640	O1P	GUA	255	114.178	50.040	-26.204	1.00	75.90	Al
ATOM	24588	C8	GUA	252	115.675	59.552	-38.773	1.00	65.66	Al6S	ATOM	24641	O2P	GUA	255	113.076	52.137	-27.199	1.00	75.90	Al
ATOM	24589	O2	GUA	252	113.863	56.618	-38.958	1.00	77.09	Al6S	ATOM	24642	O5	GUA	255	115.184	52.328	-25.896	1.00	56.72	Al
ATOM	24590	O2	GUA	252	113.611	55.334	-39.487	1.00	77.09	Al6S	ATOM	24643	C5	GUA	255	116.457	51.894	-25.387	1.00	56.72	Al
ATOM	24591	C3	GUA	252	112.678	57.561	-39.088	1.00	77.09	Al6S	ATOM	24644	C4	GUA	255	117.137	53.014	-24.630	1.00	56.72	Al
ATOM	24592	O3	GUA	252	111.470	56.880	-38.823	1.00	77.09	Al6S	ATOM	24645	O4	GUA	255	117.645	54.021	-25.543	1.00	56.72	Al
ATOM	24593	P	GUA	253	110.883	56.882	-37.328	1.00	74.74	Al6S	ATOM	24646	C1	GUA	255	117.561	55.304	-24.937	1.00	56.72	Al
ATOM	24594	O1P	GUA	253	109.674	56.024	-37.420	1.00	64.78	Al6S	ATOM	24647	N9	GUA	255	116.705	56.147	-25.767	1.00	75.90	Al
ATOM	24595	O2P	GUA	253	110.745	58.294	-36.894	1.00	64.78	Al6S	ATOM	24648	C4	GUA	255	116.667	57.525	-25.794	1.00	75.90	Al
ATOM	24596	O5	GUA	253	112.008	56.178	-36.426	1.00	74.74	Al6S	ATOM	24649	N3	GUA	255	117.440	58.360	-25.067	1.00	75.90	Al
ATOM	24597	C5	GUA	253	112.239	54.757	-36.534	1.00	74.74	Al6S	ATOM	24650	C2	GUA	255	117.151	59.632	-25.305	1.00	75.90	Al
ATOM	24598	C4	GUA	253	113.434	54.292	-35.706	1.00	74.74	Al6S	ATOM	24651	N2	GUA	255	117.806	60.608	-24.660	1.00	75.90	Al
ATOM	24599	O4	GUA	253	114.650	54.988	-36.094	1.00	74.74	Al6S	ATOM	24652	N1	GUA	255	116.190	60.047	-26.189	1.00	75.90	Al
ATOM	24600	C1	GUA	253	115.590	54.917	-35.029	1.00	74.74	Al6S	ATOM	24653	C6	GUA	255	115.382	59.207	-26.945	1.00	75.90	Al
ATOM	24601	N9	GUA	253	115.970	56.264	-34.613	1.00	64.78	Al6S	ATOM	24654	O6	GUA	255	114.534	59.687	-27.710	1.00	75.90	Al
ATOM	24602	C4	GUA	253	117.073	56.594	-33.860	1.00	64.78	Al6S	ATOM	24655	C5	GUA	255	115.676	57.844	-26.700	1.00	75.90	Al
ATOM	24603	N3	GUA	253	118.013	55.737	-33.417	1.00	64.78	Al6S	ATOM	24656	N7	GUA	255	115.114	56.698	-27.242	1.00	75.90	Al
ATOM	24604	C2	GUA	253	118.945	56.350	-32.719	1.00	64.78	Al6S	ATOM	24657	C8	GUA	255	115.755	55.719	-26.665	1.00	75.90	Al
ATOM	24605	N2	GUA	253	119.956	55.648	-32.220	1.00	64.78	Al6S	ATOM	24658	C2	GUA	255	116.981	55.115	-23.532	1.00	56.72	Al
ATOM	24606	N1	GUA	253	118.955	57.696	-32.465	1.00	64.78	Al6S	ATOM	24659	O2	GUA	255	117.991	55.045	-22.548	1.00	56.72	Al
ATOM	24607	C6	GUA	253	117.998	58.600	-32.911	1.00	64.78	Al6S	ATOM	24660	C3	GUA	255	116.256	53.787	-23.669	1.00	56.72	Al
ATOM	24608	O6	GUA	253	118.100	59.801	-32.629	1.00	64.78	Al6S	ATOM	24661	O3	GUA	255	116.133	53.154	-22.413	1.00	56.72	Al
ATOM	24609	C5	GUA	253	116.993	57.955	-33.667	1.00	64.78	Al6S	ATOM	24662	P	URI	256	114.828	53.434	-21.521	1.00	63.63	Al
ATOM	24610	N7	GUA	253	115.873	58.476	-34.298	1.00	64.78	Al6S	ATOM	24663	O1P	URI	256	113.635	53.369	-22.428	1.00	52.45	Al

ATOM	24664	O2P	URI	256	114.902	52.555	-20.319	1.00	52.45	A16s	ATOM	24717	C6	ADE	258	117.145	63.782	-18.551	1.00	46.27	A16s
ATOM	24665	O5' URI	256	115.003	54.942	-21.048	1.00	63.63	A16s	ATOM	24718	N6	ADE	258	117.977	62.828	-18.134	1.00	46.27	A16s	
ATOM	24666	O5' URI	256	116.078	55.310	-20.178	1.00	63.63	A16s	ATOM	24719	C5	ADE	258	115.916	63.527	-19.168	1.00	46.27	A16s	
ATOM	24667	C4' URI	256	116.025	56.786	-19.877	1.00	63.63	A16s	ATOM	24720	N7	ADE	258	115.255	62.351	-19.468	1.00	46.27	A16s	
ATOM	24668	O4' URI	256	116.319	57.536	-21.079	1.00	63.63	A16s	ATOM	24721	C8	ADE	258	114.172	62.749	-20.080	1.00	46.27	A16s	
ATOM	24669	C1' URI	256	115.597	58.749	-21.067	1.00	63.63	A16s	ATOM	24722	C2' ADE	258	113.187	64.930	-22.397	1.00	39.53	A16s		
ATOM	24670	N1	URI	256	114.756	58.798	-22.271	1.00	52.45	A16s	ATOM	24723	O2' ADE	258	112.720	66.176	-22.877	1.00	39.53	A16s	
ATOM	24671	C6	URI	256	114.264	57.652	-22.848	1.00	52.45	A16s	ATOM	24724	C3' ADE	258	112.271	63.809	-22.856	1.00	39.53	A16s	
ATOM	24672	C2	URI	256	114.459	60.038	-22.801	1.00	52.45	A16s	ATOM	24725	O3' ADE	258	111.759	64.049	-22.148	1.00	39.53	A16s	
ATOM	24673	O2	URI	256	114.912	61.079	-22.357	1.00	52.45	A16s	ATOM	24726	P	URI	259	112.621	63.658	-25.428	1.00	45.90	A16s
ATOM	24674	N4	URI	256	113.623	60.017	-23.884	1.00	52.45	A16s	ATOM	24727	O1P	URI	259	111.692	63.404	-26.546	1.00	57.75	A16s
ATOM	24675	C4	URI	256	113.087	58.914	-24.498	1.00	52.45	A16s	ATOM	24728	O2P	URI	259	113.586	62.625	-25.039	1.00	57.75	A16s
ATOM	24676	O4	URI	256	112.359	59.063	-25.479	1.00	52.45	A16s	ATOM	24729	O5' URI	259	113.451	64.978	-25.723	1.00	45.90	A16s	
ATOM	24677	C5	URI	256	113.466	57.668	-23.916	1.00	52.45	A16s	ATOM	24730	C5' URI	259	112.798	66.218	-26.077	1.00	45.90	A16s	
ATOM	24678	C2' URI	256	114.795	58.805	-19.766	1.00	63.63	A16s	ATOM	24731	C4' URI	259	113.829	67.285	-26.386	1.00	45.90	A16s		
ATOM	24679	O2' URI	256	115.532	59.528	-18.805	1.00	63.63	A16s	ATOM	24732	O4' URI	259	114.475	67.734	-25.165	1.00	45.90	A16s		
ATOM	24680	C3' URI	256	114.692	57.331	-19.400	1.00	63.63	A16s	ATOM	24733	C1' URI	259	115.845	68.007	-25.417	1.00	45.90	A16s		
ATOM	24681	O3' URI	256	114.515	57.129	-18.002	1.00	63.63	A16s	ATOM	24734	N1	URI	259	116.668	67.143	-24.552	1.00	57.75	A16s	
ATOM	24682	P	ADE	257	113.050	56.782	-17.427	1.00	49.86	A16s	ATOM	24735	C6	URI	259	116.220	65.912	-24.132	1.00	57.75	A16s
ATOM	24683	O1P	ADE	257	112.368	55.888	-18.407	1.00	59.59	A16s	ATOM	24736	C2	URI	259	117.913	67.606	-24.171	1.00	57.75	A16s
ATOM	24684	O2P	ADE	257	113.201	56.351	-16.014	1.00	59.59	A16s	ATOM	24737	O2	URI	259	118.355	68.679	-24.525	1.00	57.75	A16s
ATOM	24685	O5' ADE	257	112.297	58.184	-17.437	1.00	49.86	A16s	ATOM	24738	N3	URI	259	118.626	66.759	-23.357	1.00	57.75	A16s	
ATOM	24686	C5' ADE	257	110.861	58.261	-17.369	1.00	49.86	A16s	ATOM	24739	C4	URI	259	118.230	65.517	-22.896	1.00	57.75	A16s	
ATOM	24687	O4' ADE	257	110.420	59.697	-17.511	1.00	49.86	A16s	ATOM	24740	O4	URI	259	118.963	64.889	-22.125	1.00	57.75	A16s	
ATOM	24688	C4' ADE	257	110.911	60.466	-16.392	1.00	49.86	A16s	ATOM	24741	C5	URI	259	116.938	65.106	-23.342	1.00	57.75	A16s	
ATOM	24689	C1' ADE	257	111.411	61.703	-16.841	1.00	49.86	A16s	ATOM	24742	C2' URI	259	116.091	67.787	-26.912	1.00	45.90	A16s		
ATOM	24690	N9	ADE	257	112.823	61.763	-16.451	1.00	59.59	A16s	ATOM	24743	O2' URI	259	115.974	69.026	-27.588	1.00	45.90	A16s	
ATOM	24691	C4	ADE	257	113.626	62.878	-16.364	1.00	59.59	A16s	ATOM	24744	C3' URI	259	114.970	66.824	-27.273	1.00	45.90	A16s	
ATOM	24692	N3	ADE	257	113.308	64.144	-16.681	1.00	59.59	A16s	ATOM	24745	O3' URI	259	114.609	66.899	-28.635	1.00	45.90	A16s	
ATOM	24693	C2	ADE	257	114.317	64.962	-16.418	1.00	59.59	A16s	ATOM	24746	P	GUA	260	115.148	65.785	-29.654	1.00	44.54	A16s
ATOM	24694	N1	ADE	257	115.518	64.687	-15.907	1.00	59.59	A16s	ATOM	24747	O1P	GUA	260	114.690	66.181	-31.015	1.00	72.02	A16s
ATOM	24695	C6	ADE	257	115.812	63.408	-15.596	1.00	59.59	A16s	ATOM	24748	O2P	GUA	260	114.779	64.444	-29.114	1.00	72.02	A16s
ATOM	24696	N6	ADE	257	117.010	63.139	-15.066	1.00	59.59	A16s	ATOM	24749	O5' GUA	260	116.729	65.965	-29.579	1.00	44.54	A16s	
ATOM	24697	C5	ADE	257	114.827	62.437	-15.842	1.00	59.59	A16s	ATOM	24750	C5' GUA	260	117.354	67.142	-30.113	1.00	44.54	A16s	
ATOM	24698	N7	ADE	257	114.803	61.064	-15.648	1.00	59.59	A16s	ATOM	24751	C4' GUA	260	118.814	67.181	-29.737	1.00	44.54	A16s	
ATOM	24699	C8	ADE	257	113.601	60.712	-16.035	1.00	59.59	A16s	ATOM	24752	O4' GUA	260	118.928	67.277	-28.295	1.00	44.54	A16s	
ATOM	24700	C2' ADE	257	111.103	61.819	-18.337	1.00	49.86	A16s	ATOM	24753	C1' GUA	260	120.120	66.643	-27.868	1.00	44.54	A16s		
ATOM	24701	O2' ADE	257	109.883	62.506	-18.522	1.00	49.86	A16s	ATOM	24754	N9	GUA	260	119.789	65.556	-26.955	1.00	72.02	A16s	
ATOM	24702	C3' ADE	257	110.990	60.360	-18.741	1.00	49.86	A16s	ATOM	24755	C4	GUA	260	120.621	65.035	-25.999	1.00	72.02	A16s	
ATOM	24703	O3' ADE	257	110.093	60.165	-19.808	1.00	49.86	A16s	ATOM	24756	N3	GUA	260	121.867	65.467	-25.718	1.00	72.02	A16s	
ATOM	24704	P	ADE	258	110.660	60.045	-21.292	1.00	39.53	A16s	ATOM	24757	C2	GUA	260	122.433	64.745	-24.772	1.00	72.02	A16s
ATOM	24705	O1P	ADE	258	109.512	59.850	-22.224	1.00	46.27	A16s	ATOM	24758	N2	GUA	260	123.678	65.031	-24.374	1.00	72.02	A16s
ATOM	24706	O2P	ADE	258	111.764	59.057	-21.273	1.00	46.27	A16s	ATOM	24759	N1	GUA	260	121.822	63.688	-24.149	1.00	72.02	A16s
ATOM	24707	O5' ADE	258	111.247	61.496	-21.548	1.00	39.53	A16s	ATOM	24760	C6	GUA	260	120.538	63.234	-24.421	1.00	72.02	A16s	
ATOM	24708	C5' ADE	258	110.362	62.612	-21.664	1.00	39.53	A16s	ATOM	24761	O6	GUA	260	120.078	62.275	-23.796	1.00	72.02	A16s	
ATOM	24709	C4' ADE	258	111.147	63.872	-21.841	1.00	39.53	A16s	ATOM	24762	C5	GUA	260	119.923	63.994	-25.434	1.00	72.02	A16s	
ATOM	24710	O4' ADE	258	111.784	64.234	-20.598	1.00	39.53	A16s	ATOM	24763	N7	GUA	260	118.667	63.876	-26.006	1.00	72.02	A16s	
ATOM	24711	C1' ADE	258	113.021	64.867	-20.874	1.00	39.53	A16s	ATOM	24764	C8	GUA	260	118.628	64.828	-26.898	1.00	72.02	A16s	
ATOM	24712	N9	ADE	258	114.076	64.107	-20.207	1.00	46.27	A16s	ATOM	24765	C2' GUA	260	120.824	66.089	-29.106	1.00	44.54	A16s	
ATOM	24713	C4	ADE	258	115.189	64.618	-19.593	1.00	46.27	A16s	ATOM	24766	O2' GUA	260	121.857	66.979	-29.482	1.00	44.54	A16s	
ATOM	24714	N3	ADE	258	115.519	65.909	-19.451	1.00	46.27	A16s	ATOM	24767	C3' GUA	260	119.668	65.971	-30.095	1.00	44.54	A16s	
ATOM	24715	C2	ADE	258	116.689	66.025	-18.834	1.00	46.27	A16s	ATOM	24768	O3' GUA	260	120.098	65.958	-31.454	1.00	44.54	A16s	
ATOM	24716	N1	ADE	258	117.507	65.069	-18.388	1.00	46.27	A16s	ATOM	24769	P	GUA	261	120.266	64.550	-32.227	1.00	58.36	A16s

Table 1 - 234/490



Table 1 - 235/490

ATOM	24770	O1P GUA	261	120.641	64.876	-33.622	1.00	78.05	Al6S	ATOM	24823	O2	CYT	263	121.589	56.096	-30.319	1.00	57.30	Al6
ATOM	24771	O2P GUA	261	119.093	63.681	-31.969	1.00	78.05	Al6S	ATOM	24824	N3	CYT	263	121.392	58.261	-30.979	1.00	57.30	Al6
ATOM	24772	O5' GUA	261	121.546	63.908	-31.544	1.00	58.36	Al6S	ATOM	24825	C4	CYT	263	121.899	59.495	-30.956	1.00	57.30	Al6
ATOM	24773	C5' GUA	261	122.732	64.693	-31.462	1.00	58.36	Al6S	ATOM	24826	N4	CYT	263	121.256	60.449	-31.634	1.00	57.30	Al6
ATOM	24774	C4' GUA	261	123.868	63.948	-30.808	1.00	58.36	Al6S	ATOM	24827	C5	CYT	263	123.094	59.802	-30.240	1.00	57.30	Al6
ATOM	24775	O4' GUA	261	124.123	62.702	-31.495	1.00	58.36	Al6S	ATOM	24828	C2'	CYT	263	124.703	55.585	-29.997	1.00	57.36	Al6
ATOM	24776	C1' GUA	261	125.384	62.740	-32.122	1.00	58.36	Al6S	ATOM	24829	O2'	CYT	263	124.566	54.208	-29.722	1.00	57.36	Al6
ATOM	24777	N9 GUA	261	125.080	62.780	-33.544	1.00	78.05	Al6S	ATOM	24830	C3'	CYT	263	126.106	56.132	-29.777	1.00	57.36	Al6
ATOM	24778	C4 GUA	261	125.134	61.721	-34.399	1.00	78.05	Al6S	ATOM	24831	O3'	CYT	263	127.094	55.189	-30.128	1.00	57.36	Al6
ATOM	24779	N3 GUA	261	125.606	60.499	-34.106	1.00	78.05	Al6S	ATOM	24832	P	CYT	264	127.620	55.132	-31.640	1.00	56.92	Al6
ATOM	24780	O5' GUA	261	125.456	59.665	-35.114	1.00	78.05	Al6S	ATOM	24833	O1P	CYT	264	128.732	54.148	-31.673	1.00	56.92	Al6
ATOM	24781	N2 GUA	261	125.884	58.393	-35.004	1.00	78.05	Al6S	ATOM	24834	O2P	CYT	264	127.851	56.526	-32.106	1.00	56.39	Al6
ATOM	24782	N1 GUA	261	124.877	60.012	-36.309	1.00	78.05	Al6S	ATOM	24835	O5'	CYT	264	126.409	54.516	-32.467	1.00	56.39	Al6
ATOM	24783	C6 GUA	261	124.386	61.272	-36.620	1.00	78.05	Al6S	ATOM	24836	C5'	CYT	264	126.103	53.122	-32.376	1.00	56.92	Al6
ATOM	24784	O6 GUA	261	123.873	61.478	-37.707	1.00	78.05	Al6S	ATOM	24837	C4'	CYT	264	124.931	52.787	-33.256	1.00	56.92	Al6
ATOM	24785	C7 GUA	261	124.556	62.165	-35.566	1.00	78.05	Al6S	ATOM	24838	O4'	CYT	264	123.788	53.574	-32.842	1.00	56.92	Al6
ATOM	24786	N5 GUA	261	124.215	63.502	-35.472	1.00	78.05	Al6S	ATOM	24839	C1'	CYT	264	122.945	53.792	-33.956	1.00	56.92	Al6
ATOM	24787	C8 GUA	261	124.567	63.834	-34.261	1.00	78.05	Al6S	ATOM	24840	N1	CYT	264	122.640	55.225	-34.089	1.00	56.39	Al6
ATOM	24788	C2' GUA	261	126.203	63.870	-31.481	1.00	58.36	Al6S	ATOM	24841	C6	CYT	264	123.380	56.182	-33.454	1.00	56.39	Al6
ATOM	24789	O2' GUA	261	127.072	63.336	-30.505	1.00	58.36	Al6S	ATOM	24842	C2	CYT	264	121.563	55.592	-34.903	1.00	56.39	Al6
ATOM	24790	C3' GUA	261	125.102	64.805	-30.977	1.00	58.36	Al6S	ATOM	24843	O2	CYT	264	120.899	54.698	-35.461	1.00	56.39	Al6
ATOM	24791	O3' GUA	261	125.196	65.687	-29.850	1.00	58.36	Al6S	ATOM	24844	N3	CYT	264	121.271	56.902	-35.065	1.00	56.39	Al6
ATOM	24792	P	262	126.097	65.338	-28.561	1.00	52.36	Al6S	ATOM	24845	C4	CYT	264	122.002	57.827	-34.448	1.00	56.39	Al6
ATOM	24793	O1P	262	125.824	66.480	-27.650	1.00	61.70	Al6S	ATOM	24846	N4	CYT	264	121.676	59.106	-34.644	1.00	56.39	Al6
ATOM	24794	O2P	262	127.503	65.007	-28.914	1.00	61.70	Al6S	ATOM	24847	C5	CYT	264	123.099	57.481	-33.604	1.00	56.39	Al6
ATOM	24795	O5' CYT	262	125.466	64.063	-27.843	1.00	52.36	Al6S	ATOM	24848	C2'	CYT	264	123.624	53.213	-35.196	1.00	56.92	Al6
ATOM	24796	C5' CYT	262	125.978	63.679	-26.540	1.00	52.36	Al6S	ATOM	24849	O2'	CYT	264	123.028	51.971	-35.503	1.00	56.92	Al6
ATOM	24797	O4' CYT	262	125.496	62.309	-26.123	1.00	52.36	Al6S	ATOM	24850	C3'	CYT	264	125.074	53.093	-34.739	1.00	56.92	Al6
ATOM	24798	C4' CYT	262	124.097	62.340	-25.761	1.00	52.36	Al6S	ATOM	24851	O3'	CYT	264	125.752	52.053	-35.443	1.00	56.92	Al6
ATOM	24799	C1' CYT	262	123.522	61.077	-26.032	1.00	52.36	Al6S	ATOM	24852	P	ADE	265	126.511	52.386	-36.826	1.00	67.28	Al6
ATOM	24800	N1 CYT	262	122.392	61.252	-26.954	1.00	61.70	Al6S	ATOM	24853	O1P	ADE	265	127.460	51.262	-37.060	1.00	69.15	Al6
ATOM	24801	C6 CYT	262	122.335	62.311	-27.815	1.00	61.70	Al6S	ATOM	24854	O2P	ADE	265	127.031	53.785	-36.766	1.00	69.15	Al6
ATOM	24802	C2 CYT	262	121.375	60.304	-26.939	1.00	61.70	Al6S	ATOM	24855	O5'	ADE	265	125.359	52.330	-37.929	1.00	67.28	Al6
ATOM	24803	O2 CYT	262	121.451	59.358	-26.140	1.00	61.70	Al6S	ATOM	24856	C5'	ADE	265	124.819	51.071	-38.366	1.00	67.28	Al6
ATOM	24804	N3 CYT	262	120.336	60.435	-27.789	1.00	61.70	Al6S	ATOM	24857	C4'	ADE	265	123.710	51.292	-39.363	1.00	67.28	Al6
ATOM	24805	C4 CYT	262	119.256	61.466	-28.628	1.00	61.70	Al6S	ATOM	24858	O4'	ADE	265	122.611	51.960	-38.702	1.00	67.28	Al6
ATOM	24806	N4 CYT	262	121.313	61.550	-29.451	1.00	61.70	Al6S	ATOM	24859	C1'	ADE	265	122.002	52.885	-39.589	1.00	67.28	Al6
ATOM	24807	C5 CYT	262	121.607	60.163	-26.606	1.00	52.36	Al6S	ATOM	24860	N9	ADE	265	122.165	54.231	-39.027	1.00	69.15	Al6
ATOM	24808	C2' CYT	262	124.607	60.163	-26.606	1.00	52.36	Al6S	ATOM	24861	C4	ADE	265	121.374	55.327	-39.282	1.00	69.15	Al6
ATOM	24809	O3' CYT	262	125.117	59.362	-25.564	1.00	52.36	Al6S	ATOM	24862	N3	ADE	265	120.312	55.393	-40.099	1.00	69.15	Al6
ATOM	24810	C3' CYT	262	125.633	61.167	-27.118	1.00	52.36	Al6S	ATOM	24863	C2	ADE	265	119.772	56.613	-40.071	1.00	69.15	Al6
ATOM	24811	O3' CYT	262	126.943	60.616	-27.061	1.00	52.36	Al6S	ATOM	24864	N1	ADE	265	120.148	57.693	-39.375	1.00	69.15	Al6
ATOM	24812	P	263	127.648	60.063	-28.398	1.00	57.36	Al6S	ATOM	24865	C6	ADE	265	121.226	57.596	-38.569	1.00	69.15	Al6
ATOM	24813	O1P	263	129.035	59.740	-27.987	1.00	57.30	Al6S	ATOM	24866	N6	ADE	265	121.607	58.677	-37.881	1.00	69.15	Al6
ATOM	24814	O2P	263	127.421	60.994	-29.525	1.00	57.30	Al6S	ATOM	24867	C5	ADE	265	121.887	56.352	-38.506	1.00	69.15	Al6
ATOM	24815	O5' CYT	263	126.884	58.702	-28.711	1.00	57.36	Al6S	ATOM	24868	N7	ADE	265	122.994	55.920	-37.789	1.00	69.15	Al6
ATOM	24816	C5' CYT	263	127.090	57.537	-27.895	1.00	57.36	Al6S	ATOM	24869	C8	ADE	265	123.120	54.662	-38.134	1.00	69.15	Al6
ATOM	24817	C4' CYT	263	126.126	56.454	-28.294	1.00	57.36	Al6S	ATOM	24870	C2'	ADE	265	122.681	52.729	-40.949	1.00	67.28	Al6
ATOM	24818	O4' CYT	263	124.778	56.892	-28.003	1.00	57.36	Al6S	ATOM	24871	O2'	ADE	265	121.952	51.822	-41.755	1.00	67.28	Al6
ATOM	24819	C1' CYT	263	123.893	56.398	-28.992	1.00	57.36	Al6S	ATOM	24872	C3'	ADE	265	124.045	52.190	-40.542	1.00	67.28	Al6
ATOM	24820	N1 CYT	263	123.208	57.523	-29.644	1.00	57.30	Al6S	ATOM	24873	O3'	ADE	265	124.685	51.509	-41.609	1.00	67.28	Al6
ATOM	24821	C6 CYT	263	123.710	58.795	-29.604	1.00	57.30	Al6S	ATOM	24874	P	CYT	266	125.734	52.306	-42.532	1.00	69.54	Al6
ATOM	24822	C2 CYT	263	122.027	57.255	-30.327	1.00	57.30	Al6S	ATOM	24875	O1P	CYT	266	126.407	51.316	-43.422	1.00	75.18	Al6

ATOM	24876	O2P	CYT	266	126.556	53.156	-41.631	1.00	75.18	Al6S	ATOM	24929	C5	ADE	268	127.375	63.898	-44.393	1.00	52.65	Al6
ATOM	24877	O5P	CYT	266	124.822	53.271	-43.418	1.00	69.54	Al6S	ATOM	24930	N7	ADE	268	127.294	62.799	-45.238	1.00	52.65	Al6
ATOM	24878	O5P	CYT	266	123.858	52.735	-44.338	1.00	69.54	Al6S	ATOM	24931	C8	ADE	268	126.611	63.240	-46.270	1.00	52.65	Al6
ATOM	24879	C4P	CYT	266	122.982	53.836	-44.878	1.00	69.54	Al6S	ATOM	24932	C2P	ADE	268	126.252	66.244	-47.993	1.00	86.17	Al6
ATOM	24880	O4P	CYT	266	122.160	54.368	-43.807	1.00	69.54	Al6S	ATOM	24933	O2P	ADE	268	125.504	67.408	-48.273	1.00	86.17	Al6
ATOM	24881	C1P	CYT	266	121.969	55.764	-43.995	1.00	69.54	Al6S	ATOM	24934	C3P	ADE	268	126.430	65.377	-49.229	1.00	86.17	Al6
ATOM	24882	N1	CYT	266	122.575	56.483	-42.857	1.00	75.18	Al6S	ATOM	24935	O3P	ADE	268	126.700	66.166	-50.371	1.00	86.17	Al6
ATOM	24883	C6	CYT	266	123.632	55.945	-42.174	1.00	75.18	Al6S	ATOM	24936	P	ADE	269	128.220	66.355	-50.861	1.00	64.82	Al6
ATOM	24884	C2	CYT	266	122.072	57.748	-42.498	1.00	75.18	Al6S	ATOM	24937	O1P	ADE	269	128.143	67.241	-52.056	1.00	62.51	Al6
ATOM	24885	O2P	CYT	266	121.081	58.205	-43.103	1.00	75.18	Al6S	ATOM	24938	O2P	ADE	269	128.896	65.035	-50.959	1.00	62.51	Al6
ATOM	24886	O5P	CYT	266	122.675	58.434	-41.499	1.00	75.18	Al6S	ATOM	24939	O5P	ADE	269	128.936	67.139	-49.675	1.00	64.82	Al6
ATOM	24887	C4	CYT	266	123.719	57.903	-40.858	1.00	75.18	Al6S	ATOM	24940	C5P	ADE	269	128.454	68.416	-49.236	1.00	64.82	Al6
ATOM	24888	N4	CYT	266	124.290	58.617	-39.887	1.00	75.18	Al6S	ATOM	24941	C4P	ADE	269	129.277	68.899	-48.073	1.00	64.82	Al6
ATOM	24889	C5	CYT	266	124.227	56.614	-41.182	1.00	75.18	Al6S	ATOM	24942	O4P	ADE	269	129.167	67.942	-46.983	1.00	64.82	Al6
ATOM	24890	C2P	CYT	266	122.660	56.148	-45.302	1.00	69.54	Al6S	ATOM	24943	C1P	ADE	269	130.456	67.614	-46.538	1.00	64.82	Al6
ATOM	24891	O2P	CYT	266	121.739	56.117	-46.369	1.00	69.54	Al6S	ATOM	24944	N9	ADE	269	130.466	66.277	-45.952	1.00	62.51	Al6
ATOM	24892	C3P	CYT	266	123.707	55.054	-45.425	1.00	69.54	Al6S	ATOM	24945	C4	ADE	269	130.792	66.015	-44.645	1.00	62.51	Al6
ATOM	24893	O3P	CYT	266	124.146	54.907	-46.761	1.00	69.54	Al6S	ATOM	24946	N3	ADE	269	131.063	66.909	-43.681	1.00	62.51	Al6
ATOM	24894	P	CYT	267	125.343	55.835	-47.293	1.00	77.45	Al6S	ATOM	24947	C2	ADE	269	131.373	66.291	-42.550	1.00	62.51	Al6
ATOM	24895	O1P	CYT	267	126.669	55.410	-48.684	1.00	60.61	Al6S	ATOM	24948	N1	ADE	269	131.455	64.983	-42.296	1.00	62.51	Al6
ATOM	24896	O2P	CYT	267	126.405	55.808	-46.247	1.00	60.61	Al6S	ATOM	24949	C6	ADE	269	131.191	64.115	-43.290	1.00	62.51	Al6
ATOM	24897	O5P	CYT	267	124.696	57.294	-47.348	1.00	77.45	Al6S	ATOM	24950	N6	ADE	269	131.321	62.816	-43.049	1.00	62.51	Al6
ATOM	24898	C5P	CYT	267	123.611	57.572	-48.253	1.00	77.45	Al6S	ATOM	24951	C5	ADE	269	130.814	64.639	-44.529	1.00	62.51	Al6
ATOM	24899	O4P	CYT	267	123.181	59.023	-48.169	1.00	77.45	Al6S	ATOM	24952	N7	ADE	269	130.440	64.039	-45.723	1.00	62.51	Al6
ATOM	24900	C4P	CYT	267	122.606	59.303	-46.868	1.00	77.45	Al6S	ATOM	24953	C8	ADE	269	130.234	65.053	-46.532	1.00	62.51	Al6
ATOM	24901	C1P	CYT	267	122.832	60.663	-46.528	1.00	77.45	Al6S	ATOM	24954	C2P	ADE	269	131.364	67.801	-47.747	1.00	64.82	Al6
ATOM	24902	N1	CYT	267	123.624	60.731	-45.284	1.00	60.61	Al6S	ATOM	24955	O2P	ADE	269	132.698	67.959	-47.324	1.00	64.82	Al6
ATOM	24903	C6	CYT	267	124.262	59.627	-44.786	1.00	60.61	Al6S	ATOM	24956	C3P	ADE	269	130.770	69.062	-48.357	1.00	64.82	Al6
ATOM	24904	C2	CYT	267	123.733	61.970	-44.621	1.00	60.61	Al6S	ATOM	24957	O3P	ADE	269	131.282	70.182	-47.628	1.00	64.82	Al6
ATOM	24905	O2	CYT	267	123.116	62.953	-45.075	1.00	60.61	Al6S	ATOM	24958	P	GUA	270	130.865	71.677	-48.050	1.00	51.83	Al6
ATOM	24906	N3	CYT	267	124.502	62.060	-43.506	1.00	60.61	Al6S	ATOM	24959	O1P	GUA	270	130.029	71.586	-49.279	1.00	49.57	Al6
ATOM	24907	C4	CYT	267	125.135	60.977	-43.043	1.00	60.61	Al6S	ATOM	24960	O2P	GUA	270	132.081	72.540	-48.047	1.00	49.57	Al6
ATOM	24908	N4	CYT	267	125.900	61.111	-41.955	1.00	60.61	Al6S	ATOM	24961	O5P	GUA	270	129.889	72.139	-46.879	1.00	51.83	Al6
ATOM	24909	C5	CYT	267	125.019	59.705	-43.680	1.00	60.61	Al6S	ATOM	24962	C5P	GUA	270	130.396	72.655	-45.642	1.00	51.83	Al6
ATOM	24910	C2P	CYT	267	123.598	61.306	-47.681	1.00	77.45	Al6S	ATOM	24963	C4P	GUA	270	129.726	71.969	-44.472	1.00	51.83	Al6
ATOM	24911	O2P	CYT	267	122.711	61.998	-48.536	1.00	77.45	Al6S	ATOM	24964	O4P	GUA	270	130.140	70.578	-44.437	1.00	51.83	Al6
ATOM	24912	C3P	CYT	267	124.249	60.091	-48.329	1.00	77.45	Al6S	ATOM	24965	C1P	GUA	270	130.474	70.204	-43.113	1.00	51.83	Al6
ATOM	24913	O3P	CYT	267	124.616	60.356	-49.672	1.00	77.45	Al6S	ATOM	24966	N9	GUA	270	131.922	69.991	-43.087	1.00	49.57	Al6
ATOM	24914	P	ADE	268	126.089	60.924	-49.979	1.00	86.17	Al6S	ATOM	24967	C4	GUA	270	132.715	69.720	-41.988	1.00	49.57	Al6
ATOM	24915	O1P	ADE	268	126.301	60.909	-51.454	1.00	52.65	Al6S	ATOM	24968	N3	GUA	270	132.293	69.587	-40.713	1.00	49.57	Al6
ATOM	24916	O2P	ADE	268	127.030	60.174	-49.082	1.00	52.65	Al6S	ATOM	24969	C2	GUA	270	133.293	69.324	-39.888	1.00	49.57	Al6
ATOM	24917	O5P	ADE	268	126.029	62.445	-49.504	1.00	86.17	Al6S	ATOM	24970	N2	GUA	270	133.060	69.158	-38.580	1.00	49.57	Al6
ATOM	24918	C5P	ADE	268	125.079	63.359	-50.078	1.00	86.17	Al6S	ATOM	24971	N1	GUA	270	134.601	69.203	-40.283	1.00	49.57	Al6
ATOM	24919	C4P	ADE	268	125.090	64.669	-49.327	1.00	86.17	Al6S	ATOM	24972	C6	GUA	270	135.061	69.341	-41.588	1.00	49.57	Al6
ATOM	24920	O4P	ADE	268	124.711	64.439	-47.946	1.00	86.17	Al6S	ATOM	24973	O6	GUA	270	136.269	69.216	-41.834	1.00	49.57	Al6
ATOM	24921	C1P	ADE	268	125.415	65.334	-47.101	1.00	86.17	Al6S	ATOM	24974	C5	GUA	270	134.003	69.622	-42.484	1.00	49.57	Al6
ATOM	24922	N9	ADE	268	126.226	64.554	-46.161	1.00	52.65	Al6S	ATOM	24975	N7	GUA	270	134.023	69.823	-43.857	1.00	49.57	Al6
ATOM	24923	C4	ADE	268	126.742	64.996	-44.958	1.00	52.65	Al6S	ATOM	24976	C8	GUA	270	132.773	70.035	-44.172	1.00	49.57	Al6
ATOM	24924	N3	ADE	268	126.645	66.232	-44.420	1.00	52.65	Al6S	ATOM	24977	C2P	GUA	270	130.016	71.342	-42.195	1.00	51.83	Al6
ATOM	24925	C2	ADE	268	127.254	66.279	-43.232	1.00	52.65	Al6S	ATOM	24978	O2P	GUA	270	128.688	71.131	-41.767	1.00	51.83	Al6
ATOM	24926	N1	ADE	268	127.886	65.305	-42.563	1.00	52.65	Al6S	ATOM	24979	C3P	GUA	270	130.131	72.540	-43.123	1.00	51.83	Al6
ATOM	24927	C6	ADE	268	127.956	64.076	-43.120	1.00	52.65	Al6S	ATOM	24980	O3P	GUA	270	129.308	73.646	-42.754	1.00	51.83	Al6
ATOM	24928	N6	ADE	268	128.549	63.100	-42.434	1.00	52.65	Al6S	ATOM	24981	P	GUA	271	129.995	74.969	-42.152	1.00	51.13	Al6

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ATOM	24982	O1P	GUA	271	129.003	76.078	-41.968	1.00	44.81	A16S	ATOM	25035	C2	GUA	273	142.563	78.959	-38.969	1.00	48.21	A16
ATOM	24983	O2P	GUA	271	131.209	75.203	-42.983	1.00	44.81	A16S	ATOM	25036	N2	GUA	273	143.895	78.990	-39.110	1.00	48.21	A16
ATOM	24984	O5'	GUA	271	130.424	74.503	-40.693	1.00	51.13	A16S	ATOM	25037	N1	GUA	273	141.837	78.833	-40.126	1.00	48.21	A16
ATOM	24985	C5'	GUA	271	129.424	74.069	-39.760	1.00	51.13	A16S	ATOM	25038	C6	GUA	273	140.445	78.782	-40.198	1.00	48.21	A16
ATOM	24986	C4'	GUA	271	130.062	73.670	-38.464	1.00	51.13	A16S	ATOM	25039	O6	GUA	273	139.889	78.671	-41.293	1.00	48.21	A16
ATOM	24987	O4'	GUA	271	130.819	72.459	-38.666	1.00	51.13	A16S	ATOM	25040	C5	GUA	273	139.852	78.874	-38.917	1.00	48.21	A16
ATOM	24988	C1'	GUA	271	132.008	72.507	-37.905	1.00	51.13	A16S	ATOM	25041	N7	GUA	273	138.516	78.853	-38.544	1.00	48.21	A16
ATOM	24989	N9	GUA	271	133.131	72.519	-38.835	1.00	44.81	A16S	ATOM	25042	C8	GUA	273	138.544	78.976	-37.245	1.00	48.21	A16
ATOM	24990	C4	GUA	271	134.459	72.391	-38.513	1.00	44.81	A16S	ATOM	25043	C2'	GUA	273	140.555	80.723	-35.031	1.00	47.07	A16
ATOM	24991	N3	GUA	271	134.960	72.223	-37.277	1.00	44.81	A16S	ATOM	25044	O2'	GUA	273	141.558	80.699	-34.044	1.00	47.07	A16
ATOM	24992	O2'	GUA	271	136.281	72.144	-37.283	1.00	44.81	A16S	ATOM	25045	C3'	GUA	273	139.240	81.241	-34.465	1.00	47.07	A16
ATOM	24993	N2	GUA	271	136.938	71.988	-36.134	1.00	44.81	A16S	ATOM	25046	O3'	GUA	273	139.417	82.337	-33.591	1.00	47.07	A16
ATOM	24994	N1	GUA	271	137.054	72.214	-38.413	1.00	44.81	A16S	ATOM	25047	P	ADE	274	139.291	83.827	-34.161	1.00	52.10	A16
ATOM	24995	C6	GUA	271	136.564	72.379	-39.702	1.00	44.81	A16S	ATOM	25048	O1P	ADE	274	138.412	84.559	-33.243	1.00	46.60	A16
ATOM	24996	O6	GUA	271	137.350	72.419	-40.659	1.00	44.81	A16S	ATOM	25049	O2P	ADE	274	138.906	83.714	-35.572	1.00	46.60	A16
ATOM	24997	C5	GUA	271	135.137	72.479	-39.711	1.00	44.81	A16S	ATOM	25050	O5'	ADE	274	140.785	84.395	-34.063	1.00	52.10	A16
ATOM	24998	N7	GUA	271	134.250	72.658	-40.768	1.00	44.81	A16S	ATOM	25051	C5'	ADE	274	141.196	85.271	-32.975	1.00	52.10	A16
ATOM	24999	C8	GUA	271	133.075	72.672	-40.203	1.00	51.13	A16S	ATOM	25052	C4'	ADE	274	142.450	86.043	-33.352	1.00	52.10	A16
ATOM	25000	O2'	GUA	271	131.956	73.777	-37.058	1.00	51.13	A16S	ATOM	25053	O4'	ADE	274	143.547	85.108	-33.438	1.00	52.10	A16
ATOM	25001	C2'	GUA	271	131.378	73.478	-35.802	1.00	51.13	A16S	ATOM	25054	C1'	ADE	274	144.396	85.471	-34.504	1.00	52.10	A16
ATOM	25002	C3'	GUA	271	131.060	74.665	-37.905	1.00	51.13	A16S	ATOM	25055	N9	ADE	274	144.586	84.301	-35.346	1.00	46.60	A16
ATOM	25003	O3'	GUA	271	130.435	75.702	-37.152	1.00	51.13	A16S	ATOM	25056	C4	ADE	274	145.800	83.752	-35.618	1.00	46.60	A16
ATOM	25004	P	CYT	272	131.070	77.177	-37.164	1.00	51.72	A16S	ATOM	25057	N3	ADE	274	146.988	84.210	-35.209	1.00	46.60	A16
ATOM	25005	O1P	CYT	272	130.273	78.055	-36.268	1.00	38.27	A16S	ATOM	25058	C2	ADE	274	147.954	83.410	-35.638	1.00	46.60	A16
ATOM	25006	O2P	CYT	272	131.247	77.554	-38.598	1.00	38.27	A16S	ATOM	25059	N1	ADE	274	147.864	82.282	-36.373	1.00	46.60	A16
ATOM	25007	O5'	CYT	272	132.479	76.958	-36.450	1.00	51.72	A16S	ATOM	25060	C6	ADE	274	146.641	81.854	-36.759	1.00	46.60	A16
ATOM	25008	C5'	CYT	272	132.517	76.444	-35.108	1.00	51.72	A16S	ATOM	25061	N6	ADE	274	146.549	80.733	-37.476	1.00	46.60	A16
ATOM	25009	C4'	CYT	272	133.925	76.388	-34.582	1.00	51.72	A16S	ATOM	25062	C5	ADE	274	145.544	82.618	-36.377	1.00	46.60	A16
ATOM	25010	O4'	CYT	272	134.638	75.260	-35.133	1.00	51.72	A16S	ATOM	25063	N7	ADE	274	144.187	82.473	-36.606	1.00	46.60	A16
ATOM	25011	C1'	CYT	272	136.023	75.556	-35.188	1.00	51.72	A16S	ATOM	25064	C8	ADE	274	143.659	83.501	-35.983	1.00	46.60	A16
ATOM	25012	N1	CYT	272	136.472	75.506	-36.583	1.00	38.27	A16S	ATOM	25065	C2'	ADE	274	143.829	86.701	-35.208	1.00	52.10	A16
ATOM	25013	C6	CYT	272	135.585	75.601	-37.617	1.00	38.27	A16S	ATOM	25066	O2'	ADE	274	144.580	87.830	-34.838	1.00	52.10	A16
ATOM	25014	C2	CYT	272	137.840	75.379	-36.836	1.00	38.27	A16S	ATOM	25067	C3'	ADE	274	142.385	86.738	-34.712	1.00	52.10	A16
ATOM	25015	O2	CYT	272	138.619	75.286	-35.879	1.00	38.27	A16S	ATOM	25068	O3'	ADE	274	141.914	88.117	-34.715	1.00	52.10	A16
ATOM	25016	N3	CYT	272	138.279	75.367	-38.111	1.00	38.27	A16S	ATOM	25069	P	CYT	275	141.975	89.041	-33.382	1.00	45.34	A16
ATOM	25017	C4	CYT	272	137.410	75.476	-39.113	1.00	38.27	A16S	ATOM	25070	O1P	CYT	275	141.439	90.376	-33.760	1.00	68.49	A16
ATOM	25018	N4	CYT	272	137.889	75.477	-40.355	1.00	38.27	A16S	ATOM	25071	O2P	CYT	275	143.310	88.941	-32.754	1.00	68.49	A16
ATOM	25019	C5	CYT	272	136.008	75.594	-38.886	1.00	38.27	A16S	ATOM	25072	O5'	CYT	275	140.928	88.406	-32.377	1.00	45.34	A16
ATOM	25020	C2'	CYT	272	136.211	76.970	-34.657	1.00	51.72	A16S	ATOM	25073	C5'	CYT	275	140.859	88.857	-31.015	1.00	45.34	A16
ATOM	25021	O2'	CYT	272	136.588	76.919	-33.257	1.00	51.72	A16S	ATOM	25074	C4'	CYT	275	139.551	88.435	-30.403	1.00	45.34	A16
ATOM	25022	C3'	CYT	272	134.830	77.556	-34.892	1.00	51.72	A16S	ATOM	25075	O4'	CYT	275	138.473	89.285	-30.879	1.00	45.34	A16
ATOM	25023	O3'	CYT	272	134.593	78.686	-34.100	1.00	51.72	A16S	ATOM	25076	C1'	CYT	275	137.450	88.485	-31.415	1.00	45.34	A16
ATOM	25024	P	GUA	273	134.948	80.121	-34.698	1.00	47.07	A16S	ATOM	25077	N1	CYT	275	136.813	89.189	-32.538	1.00	68.49	A16
ATOM	25025	O1P	GUA	273	134.473	81.135	-33.720	1.00	48.21	A16S	ATOM	25078	C6	CYT	275	137.537	89.983	-33.383	1.00	68.49	A16
ATOM	25026	O2P	GUA	273	134.484	80.167	-36.106	1.00	48.21	A16S	ATOM	25079	C2	CYT	275	135.433	89.024	-32.732	1.00	68.49	A16
ATOM	25027	O5'	GUA	273	136.534	80.127	-34.695	1.00	47.07	A16S	ATOM	25080	O2	CYT	275	134.792	88.302	-31.946	1.00	68.49	A16
ATOM	25028	C5'	GUA	273	137.244	80.007	-33.462	1.00	47.07	A16S	ATOM	25081	N3	CYT	275	134.831	89.650	-33.766	1.00	68.49	A16
ATOM	25029	C4'	GUA	273	138.726	80.040	-33.706	1.00	47.07	A16S	ATOM	25082	C4	CYT	275	135.545	90.414	-34.590	1.00	68.49	A16
ATOM	25030	O4'	GUA	273	139.120	78.908	-34.521	1.00	47.07	A16S	ATOM	25083	N4	CYT	275	134.904	90.998	-35.603	1.00	68.49	A16
ATOM	25031	C1'	GUA	273	140.207	79.273	-35.349	1.00	47.07	A16S	ATOM	25084	C5	CYT	275	136.950	90.609	-34.414	1.00	68.49	A16
ATOM	25032	N9	GUA	273	139.817	79.084	-36.741	1.00	48.21	A16S	ATOM	25085	O2'	CYT	275	138.105	87.167	-31.809	1.00	45.34	A16
ATOM	25033	C4	GUA	273	140.668	79.001	-37.814	1.00	48.21	A16S	ATOM	25086	C2'	CYT	275	137.135	86.142	-31.799	1.00	45.34	A16
ATOM	25034	N3	GUA	273	142.021	79.049	-37.763	1.00	48.21	A16S	ATOM	25087	C3'	CYT	275	139.150	87.002	-30.713	1.00	45.34	A16

ATOM	25088	O3' CYT	275	138.549	86.447	-29.566	1.00	45.34	Al6S	ATOM	25141	C1' CYT	278	144.251	73.083	-30.896	1.00	52.27	Al6
ATOM	25089	P O1P GUA	276	139.425	85.550	-28.579	1.00	52.63	Al6S	ATOM	25142	N1 CYT	278	144.585	74.325	-30.174	1.00	53.58	Al6
ATOM	25090	O1P GUA	276	138.494	84.788	-27.712	1.00	48.16	Al6S	ATOM	25143	C6 CYT	278	143.601	75.192	-29.785	1.00	53.58	Al6
ATOM	25091	O2P GUA	276	140.435	86.442	-27.955	1.00	48.16	Al6S	ATOM	25144	C2 CYT	278	145.921	74.596	-29.859	1.00	53.58	Al6
ATOM	25092	O5' GUA	276	140.150	84.521	-29.555	1.00	52.63	Al6S	ATOM	25145	O2 CYT	278	146.802	73.817	-30.245	1.00	53.58	Al6
ATOM	25093	C5' GUA	276	139.732	83.144	-29.641	1.00	52.63	Al6S	ATOM	25146	N3 CYT	278	146.219	75.698	-29.139	1.00	53.58	Al6
ATOM	25094	C4' GUA	276	140.941	82.257	-29.741	1.00	52.63	Al6S	ATOM	25147	C4 CYT	278	145.248	76.518	-28.739	1.00	53.58	Al6
ATOM	25095	O4' GUA	276	141.816	82.922	-30.675	1.00	52.63	Al6S	ATOM	25148	N4 CYT	278	145.586	77.574	-28.003	1.00	53.58	Al6
ATOM	25096	C1' GUA	276	143.151	82.779	-30.260	1.00	52.63	Al6S	ATOM	25149	C5 CYT	278	143.885	76.287	-29.069	1.00	53.58	Al6
ATOM	25097	N9 GUA	276	143.777	84.094	-30.206	1.00	48.16	Al6S	ATOM	25150	C2' CYT	278	144.499	71.847	-30.031	1.00	52.27	Al6
ATOM	25098	GUA	276	145.041	84.406	-30.652	1.00	48.16	Al6S	ATOM	25151	O2' CYT	278	144.827	70.757	-30.861	1.00	52.27	Al6
ATOM	25099	N3 GUA	276	145.920	83.547	-31.221	1.00	48.16	Al6S	ATOM	25152	C3' CYT	278	143.140	71.649	-29.383	1.00	52.27	Al6
ATOM	25100	C2 GUA	276	147.074	84.133	-31.510	1.00	48.16	Al6S	ATOM	25153	O3' CYT	278	142.942	70.312	-28.959	1.00	52.27	Al6
ATOM	25101	N2 GUA	276	148.070	83.423	-32.057	1.00	48.16	Al6S	ATOM	25154	P GUA	279	143.116	69.948	-27.406	1.00	45.01	Al6
ATOM	25102	N1 GUA	276	147.335	85.457	-31.276	1.00	48.16	Al6S	ATOM	25155	O1P GUA	279	142.815	68.509	-27.247	1.00	55.16	Al6
ATOM	25103	C6 GUA	276	146.441	86.362	-30.708	1.00	48.16	Al6S	ATOM	25156	O2P GUA	279	142.356	70.948	-26.617	1.00	55.16	Al6
ATOM	25104	O6 GUA	276	146.776	87.541	-30.554	1.00	48.16	Al6S	ATOM	25157	O5' GUA	279	144.673	70.177	-27.142	1.00	45.01	Al6
ATOM	25105	C5 GUA	276	145.205	85.744	-30.379	1.00	48.16	Al6S	ATOM	25158	C5' GUA	279	145.659	69.415	-27.862	1.00	45.01	Al6
ATOM	25106	N7 GUA	276	144.062	86.271	-29.793	1.00	48.16	Al6S	ATOM	25159	C4' GUA	279	147.058	69.929	-27.583	1.00	45.01	Al6
ATOM	25107	C8 GUA	276	143.244	85.258	-29.710	1.00	48.16	Al6S	ATOM	25160	O4' GUA	279	147.243	71.250	-28.158	1.00	45.01	Al6
ATOM	25108	C2' GUA	276	143.190	81.931	-28.988	1.00	52.63	Al6S	ATOM	25161	C1' GUA	279	148.139	71.996	-27.356	1.00	45.01	Al6
ATOM	25109	O2' GUA	276	143.461	80.620	-29.406	1.00	52.63	Al6S	ATOM	25162	N9 GUA	279	147.424	73.159	-26.844	1.00	55.16	Al6
ATOM	25110	C3' GUA	276	141.769	82.068	-28.467	1.00	52.63	Al6S	ATOM	25163	C4 GUA	279	147.964	74.237	-26.176	1.00	55.16	Al6
ATOM	25111	O3' GUA	276	141.222	80.990	-27.634	1.00	41.77	Al6S	ATOM	25164	N3 GUA	279	149.268	74.426	-25.891	1.00	55.16	Al6
ATOM	25112	P ADE	277	141.909	79.502	-27.537	1.00	54.59	Al6S	ATOM	25165	C2 GUA	279	149.473	75.552	-25.222	1.00	55.16	Al6
ATOM	25113	O1P ADE	277	141.247	78.845	-26.382	1.00	54.59	Al6S	ATOM	25166	N2 GUA	279	150.707	75.888	-24.852	1.00	55.16	Al6
ATOM	25114	O2P ADE	277	143.391	79.521	-27.576	1.00	41.77	Al6S	ATOM	25167	N1 GUA	279	148.483	76.428	-24.866	1.00	55.16	Al6
ATOM	25115	O5' ADE	277	141.337	78.712	-28.799	1.00	41.77	Al6S	ATOM	25168	C6 GUA	279	147.132	76.260	-25.150	1.00	55.16	Al6
ATOM	25116	C5' ADE	277	139.922	78.391	-28.862	1.00	41.77	Al6S	ATOM	25169	O6 GUA	279	146.312	77.117	-24.784	1.00	55.16	Al6
ATOM	25117	C4' ADE	277	139.599	77.601	-30.105	1.00	41.77	Al6S	ATOM	25170	C5 GUA	279	146.894	75.048	-25.866	1.00	55.16	Al6
ATOM	25118	O4' ADE	277	140.204	78.288	-31.224	1.00	41.77	Al6S	ATOM	25171	N7 GUA	279	145.709	74.500	-26.337	1.00	55.16	Al6
ATOM	25119	C1' ADE	277	140.770	77.351	-32.118	1.00	41.77	Al6S	ATOM	25172	C8 GUA	279	146.072	73.386	-26.911	1.00	55.16	Al6
ATOM	25120	N9 ADE	277	142.229	77.525	-32.074	1.00	54.59	Al6S	ATOM	25173	O2' GUA	279	148.611	71.084	-26.223	1.00	45.01	Al6
ATOM	25121	C4 ADE	277	143.183	76.723	-32.660	1.00	54.59	Al6S	ATOM	25174	C2' GUA	279	149.831	70.479	-26.596	1.00	45.01	Al6
ATOM	25122	N3 ADE	277	142.982	75.630	-33.408	1.00	54.59	Al6S	ATOM	25175	C3' GUA	279	147.465	70.083	-26.129	1.00	45.01	Al6
ATOM	25123	C2 ADE	277	144.134	75.092	-33.768	1.00	54.59	Al6S	ATOM	25176	O3' GUA	279	147.873	68.846	-25.557	1.00	45.01	Al6
ATOM	25124	N1 ADE	277	145.372	75.491	-33.495	1.00	54.59	Al6S	ATOM	25177	P GUA	280	147.722	68.611	-23.973	1.00	54.70	Al6
ATOM	25125	C6 ADE	277	145.544	76.599	-32.756	1.00	54.59	Al6S	ATOM	25178	O1P GUA	280	148.056	67.189	-23.712	1.00	54.70	Al6
ATOM	25126	N6 ADE	277	146.784	77.004	-32.500	1.00	54.59	Al6S	ATOM	25179	O2P GUA	280	146.411	69.138	-23.532	1.00	51.38	Al6
ATOM	25127	C5 ADE	277	144.401	77.263	-32.302	1.00	54.59	Al6S	ATOM	25180	O5' GUA	280	148.857	69.537	-23.341	1.00	54.70	Al6
ATOM	25128	N7 ADE	277	144.227	78.399	-31.525	1.00	54.59	Al6S	ATOM	25181	C5' GUA	280	150.245	69.298	-23.625	1.00	54.70	Al6
ATOM	25129	C8 ADE	277	142.927	78.514	-31.422	1.00	54.59	Al6S	ATOM	25182	C4' GUA	280	151.118	70.343	-22.966	1.00	54.70	Al6
ATOM	25130	C2' ADE	277	140.299	75.969	-31.664	1.00	41.77	Al6S	ATOM	25183	O4' GUA	280	150.945	71.636	-23.606	1.00	54.70	Al6
ATOM	25131	O2' ADE	277	139.068	75.702	-32.302	1.00	41.77	Al6S	ATOM	25184	C1' GUA	280	151.122	72.671	-22.647	1.00	54.70	Al6
ATOM	25132	C3' ADE	277	140.137	76.178	-30.166	1.00	41.77	Al6S	ATOM	25185	N9 GUA	280	149.870	73.403	-22.520	1.00	51.38	Al6
ATOM	25133	O3' ADE	277	139.210	75.244	-29.609	1.00	41.77	Al6S	ATOM	25186	C4 GUA	280	149.691	74.582	-21.845	1.00	51.38	Al6
ATOM	25134	P CYT	278	139.666	74.245	-28.422	1.00	52.27	Al6S	ATOM	25187	N3 GUA	280	150.652	75.288	-21.223	1.00	51.38	Al6
ATOM	25135	O1P CYT	278	138.596	73.240	-28.241	1.00	53.58	Al6S	ATOM	25188	C2 GUA	280	150.169	76.377	-20.646	1.00	51.38	Al6
ATOM	25136	O2P CYT	278	140.113	75.062	-27.257	1.00	53.58	Al6S	ATOM	25189	N2 GUA	280	150.996	77.211	-20.003	1.00	51.38	Al6
ATOM	25137	O5' CYT	278	140.939	73.473	-28.997	1.00	52.27	Al6S	ATOM	25190	N1 GUA	280	148.847	76.733	-20.663	1.00	51.38	Al6
ATOM	25138	C5' CYT	278	140.816	72.500	-30.050	1.00	52.27	Al6S	ATOM	25191	C6 GUA	280	147.838	76.016	-21.291	1.00	51.38	Al6
ATOM	25139	C4' CYT	278	142.187	72.039	-30.497	1.00	52.27	Al6S	ATOM	25192	O6 GUA	280	146.669	76.418	-21.234	1.00	51.38	Al6
ATOM	25140	O4' CYT	278	142.869	73.110	-31.199	1.00	52.27	Al6S	ATOM	25193	C5 GUA	280	148.345	74.854	-21.934	1.00	51.38	Al6

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ATOM	25194	N7	GUA	280	147.693	73.876	-22.674	1.00	51.38	Al6S	ATOM	25247	C5'	ADE	283	146.512	75.312	-8.773	1.00	49.17	Al6
ATOM	25195	C8	GUA	280	148.637	73.041	-23.006	1.00	51.38	Al6S	ATOM	25248	C4'	ADE	283	145.108	75.819	-8.834	1.00	49.17	Al6
ATOM	25196	G2	GUA	280	151.443	72.010	-21.307	1.00	54.70	Al6S	ATOM	25249	O4'	ADE	283	144.787	76.130	-10.209	1.00	49.17	Al6
ATOM	25197	O2'	GUA	280	152.832	71.973	-21.076	1.00	54.70	Al6S	ATOM	25250	C1'	ADE	283	143.438	75.816	-10.460	1.00	49.17	Al6
ATOM	25198	C3'	GUA	280	150.846	70.627	-21.501	1.00	54.70	Al6S	ATOM	25251	N9	ADE	283	143.399	74.779	-11.485	1.00	45.45	Al6
ATOM	25199	O3'	GUA	280	151.413	69.687	-20.617	1.00	54.70	Al6S	ATOM	25252	C4	ADE	283	142.324	74.508	-12.290	1.00	45.45	Al6
ATOM	25200	P	GUA	281	150.644	69.356	-19.249	1.00	44.11	Al6S	ATOM	25253	N3	ADE	283	141.150	75.158	-12.318	1.00	45.45	Al6
ATOM	25201	O1P	GUA	281	151.339	68.224	-18.594	1.00	51.11	Al6S	ATOM	25254	C2	ADE	283	140.330	74.594	-13.200	1.00	45.45	Al6
ATOM	25202	O2P	GUA	281	149.205	69.236	-19.599	1.00	51.11	Al6S	ATOM	25255	N1	ADE	283	140.532	73.534	-13.992	1.00	45.45	Al6
ATOM	25203	O5	GUA	281	150.861	70.655	-18.355	1.00	44.11	Al6S	ATOM	25256	C6	ADE	283	141.724	72.908	-13.940	1.00	45.45	Al6
ATOM	25204	G3	GUA	281	152.182	71.154	-18.133	1.00	44.11	Al6S	ATOM	25257	N6	ADE	283	141.922	71.853	-14.731	1.00	45.45	Al6
ATOM	25205	C4'	GUA	281	152.144	72.473	-17.400	1.00	44.11	Al6S	ATOM	25258	C5	ADE	283	142.687	73.410	-13.050	1.00	45.45	Al6
ATOM	25206	O4'	GUA	281	151.650	73.534	-18.257	1.00	44.11	Al6S	ATOM	25259	N7	ADE	283	143.983	73.012	-12.751	1.00	45.45	Al6
ATOM	25207	C1'	GUA	281	150.966	74.496	-17.475	1.00	44.11	Al6S	ATOM	25260	C8	ADE	283	144.365	73.860	-11.827	1.00	45.45	Al6
ATOM	25208	N9	GUA	281	149.570	74.526	-17.898	1.00	51.11	Al6S	ATOM	25261	C2'	ADE	283	142.827	75.340	-9.141	1.00	49.17	Al6
ATOM	25209	C4	GUA	281	148.656	75.498	-17.599	1.00	51.11	Al6S	ATOM	25262	O2'	ADE	283	142.287	76.453	-8.463	1.00	49.17	Al6
ATOM	25210	N3	GUA	281	148.898	76.610	-16.882	1.00	51.11	Al6S	ATOM	25263	C3'	ADE	283	144.052	74.815	-8.414	1.00	49.17	Al6
ATOM	25211	C2	GUA	281	147.817	77.349	-16.744	1.00	51.11	Al6S	ATOM	25264	O3'	ADE	283	143.910	74.747	-6.994	1.00	49.17	Al6
ATOM	25212	N2	GUA	281	147.890	78.493	-16.057	1.00	51.11	Al6S	ATOM	25265	P	GUA	284	143.013	73.580	-6.338	1.00	46.74	Al6
ATOM	25213	N1	GUA	281	146.591	77.020	-17.270	1.00	51.11	Al6S	ATOM	25266	O1P	GUA	284	143.394	73.419	-4.911	1.00	38.32	Al6
ATOM	25214	C6	GUA	281	146.326	75.879	-18.017	1.00	51.11	Al6S	ATOM	25267	O2P	GUA	284	143.052	72.399	-7.244	1.00	38.32	Al6
ATOM	25215	O6	GUA	281	145.193	75.678	-18.456	1.00	51.11	Al6S	ATOM	25268	O5'	GUA	284	141.556	74.225	-6.385	1.00	46.74	Al6
ATOM	25216	C5	GUA	281	147.475	75.081	-18.167	1.00	51.11	Al6S	ATOM	25269	C5'	GUA	284	140.383	73.418	-6.336	1.00	46.74	Al6
ATOM	25217	N7	GUA	281	147.645	73.875	-18.825	1.00	51.11	Al6S	ATOM	25270	C4'	GUA	284	139.469	73.744	-7.497	1.00	46.74	Al6
ATOM	25218	C8	GUA	281	151.904	73.586	-18.645	1.00	51.11	Al6S	ATOM	25271	O4'	GUA	284	138.439	72.734	-7.498	1.00	46.74	Al6
ATOM	25219	C2	GUA	281	151.074	74.046	-16.021	1.00	44.11	Al6S	ATOM	25272	C1'	GUA	284	137.174	73.331	-7.671	1.00	46.74	Al6
ATOM	25220	O2'	GUA	281	152.224	74.609	-15.431	1.00	44.11	Al6S	ATOM	25273	N9	GUA	284	136.507	73.338	-6.369	1.00	38.32	Al6
ATOM	25221	C3'	GUA	281	151.252	72.549	-16.181	1.00	44.11	Al6S	ATOM	25274	C4	GUA	284	135.172	73.526	-6.155	1.00	38.32	Al6
ATOM	25222	O3	GUA	281	151.843	71.983	-15.037	1.00	44.11	Al6S	ATOM	25275	N3	GUA	284	134.252	73.767	-7.108	1.00	38.32	Al6
ATOM	25223	P	GUA	282	150.897	71.425	-13.870	1.00	47.90	Al6S	ATOM	25276	C2	GUA	284	133.038	73.888	-6.603	1.00	38.32	Al6
ATOM	25224	O1P	URI	282	151.765	70.859	-12.801	1.00	46.26	Al6S	ATOM	25277	N2	GUA	284	132.001	74.130	-7.426	1.00	38.32	Al6
ATOM	25225	O2P	URI	282	149.849	70.575	-14.508	1.00	46.26	Al6S	ATOM	25278	N1	GUA	284	132.753	73.781	-5.261	1.00	38.32	Al6
ATOM	25226	O5'	URI	282	150.192	72.731	-13.293	1.00	47.90	Al6S	ATOM	25279	C6	GUA	284	133.691	73.538	-4.261	1.00	38.32	Al6
ATOM	25227	C5'	URI	282	150.949	73.746	-12.625	1.00	47.90	Al6S	ATOM	25280	O6	GUA	284	133.331	73.468	-3.085	1.00	38.32	Al6
ATOM	25228	C4'	URI	282	150.036	74.855	-12.177	1.00	47.90	Al6S	ATOM	25281	C5	GUA	284	134.996	73.406	-4.792	1.00	38.32	Al6
ATOM	25229	O4'	URI	282	149.519	75.555	-13.339	1.00	47.90	Al6S	ATOM	25282	N7	GUA	284	136.204	73.167	-4.156	1.00	38.32	Al6
ATOM	25230	C1'	URI	282	148.187	75.972	-13.097	1.00	47.90	Al6S	ATOM	25283	C8	GUA	284	137.075	73.141	-5.125	1.00	38.32	Al6
ATOM	25231	N1	URI	282	147.295	75.270	-14.032	1.00	46.26	Al6S	ATOM	25284	O2'	GUA	284	137.436	74.731	-8.204	1.00	46.74	Al6
ATOM	25232	C6	URI	282	147.661	74.091	-14.618	1.00	46.26	Al6S	ATOM	25285	O2'	GUA	284	137.595	74.672	-9.610	1.00	46.74	Al6
ATOM	25233	C2	URI	282	146.062	75.823	-14.275	1.00	46.26	Al6S	ATOM	25286	C3'	GUA	284	138.721	75.071	-7.472	1.00	46.74	Al6
ATOM	25234	O2	URI	282	145.704	76.876	-13.797	1.00	46.26	Al6S	ATOM	25287	O3'	GUA	284	139.395	76.155	-8.097	1.00	46.74	Al6
ATOM	25235	N3	URI	282	145.255	75.092	-15.097	1.00	46.26	Al6S	ATOM	25288	P	CYT	285	139.092	77.663	-7.605	1.00	34.72	Al6
ATOM	25236	C4	URI	282	145.548	73.892	-15.689	1.00	46.26	Al6S	ATOM	25289	O1P	CYT	285	139.958	78.600	-8.347	1.00	32.99	Al6
ATOM	25237	O4	URI	282	144.679	73.313	-16.345	1.00	46.26	Al6S	ATOM	25290	O2P	CYT	285	139.134	77.648	-6.125	1.00	32.99	Al6
ATOM	25238	C5	URI	282	146.853	73.402	-15.413	1.00	46.26	Al6S	ATOM	25291	O5'	CYT	285	137.588	77.951	-8.045	1.00	34.72	Al6
ATOM	25239	C2'	URI	282	147.844	75.580	-11.664	1.00	47.90	Al6S	ATOM	25292	C5'	CYT	285	137.269	78.364	-9.387	1.00	34.72	Al6
ATOM	25240	O2'	URI	282	148.119	76.644	-10.780	1.00	47.90	Al6S	ATOM	25293	C4'	CYT	285	135.819	78.788	-9.476	1.00	34.72	Al6
ATOM	25241	C3'	URI	282	148.784	74.412	-11.441	1.00	47.90	Al6S	ATOM	25294	O4'	CYT	285	134.987	77.650	-9.140	1.00	34.72	Al6
ATOM	25242	O3'	URI	282	148.973	74.146	-10.069	1.00	47.90	Al6S	ATOM	25295	C1'	CYT	285	133.848	78.081	-8.408	1.00	34.72	Al6
ATOM	25243	P	ADE	283	147.923	73.196	-9.311	1.00	49.17	Al6S	ATOM	25296	N1	CYT	285	133.946	77.579	-7.018	1.00	32.99	Al6
ATOM	25244	O1P	ADE	283	148.338	73.118	-7.882	1.00	45.45	Al6S	ATOM	25297	C6	CYT	285	135.157	77.278	-6.451	1.00	32.99	Al6
ATOM	25245	O2P	ADE	283	147.681	71.945	-10.080	1.00	45.45	Al6S	ATOM	25298	C2	CYT	285	132.778	77.466	-6.269	1.00	32.99	Al6
ATOM	25246	O5'	ADE	283	146.586	74.034	-9.395	1.00	49.17	Al6S	ATOM	25299	O2	CYT	285	131.690	77.665	-6.833	1.00	32.99	Al6

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ATOM	25300	N3	CYT	285	132.860	77.138	-4.957	1.00	32.99	Al6S	ATOM	25353	O2P	GUA	288	130.713	89.712	-1.862	1.00	52.81	Al6S
ATOM	25301	N4	CYT	285	134.050	76.905	-4.402	1.00	32.99	Al6S	ATOM	25354	O5	GUA	288	129.774	89.007	0.356	1.00	42.03	Al6S
ATOM	25302	N5	CYT	285	134.094	76.652	-3.101	1.00	32.99	Al6S	ATOM	25355	C5	GUA	288	130.981	89.391	1.006	1.00	42.03	Al6S
ATOM	25303	C5	CYT	285	135.254	76.941	-5.159	1.00	32.99	Al6S	ATOM	25356	C4	GUA	288	131.611	88.191	1.665	1.00	42.03	Al6S
ATOM	25304	C2	CYT	285	133.876	79.607	-8.396	1.00	34.72	Al6S	ATOM	25357	O4	GUA	288	131.823	87.149	0.676	1.00	42.03	Al6S
ATOM	25305	O2	CYT	285	133.157	80.114	-9.501	1.00	34.72	Al6S	ATOM	25358	C1	GUA	288	133.098	86.560	0.861	1.00	42.03	Al6S
ATOM	25306	C3	CYT	285	135.366	79.877	-8.511	1.00	34.72	Al6S	ATOM	25359	N9	GUA	288	133.922	86.885	-0.306	1.00	52.81	Al6S
ATOM	25307	O3	CYT	285	135.628	81.197	-8.955	1.00	34.72	Al6S	ATOM	25360	C4	GUA	288	135.232	86.520	-0.516	1.00	52.81	Al6S
ATOM	25308	P	CYT	286	135.817	82.369	-7.877	1.00	45.63	Al6S	ATOM	25361	N3	GUA	288	135.992	85.789	0.318	1.00	52.81	Al6S
ATOM	25309	O1P	CYT	286	136.121	83.580	-8.653	1.00	39.45	Al6S	ATOM	25362	C2	GUA	288	137.202	85.599	-0.163	1.00	52.81	Al6S
ATOM	25310	O2	CYT	286	136.736	81.940	-6.797	1.00	39.45	Al6S	ATOM	25363	N2	GUA	288	138.091	84.884	0.539	1.00	52.81	Al6S
ATOM	25311	O5	CYT	286	134.365	82.557	-7.263	1.00	45.63	Al6S	ATOM	25364	N1	GUA	288	137.633	86.089	-1.365	1.00	52.81	Al6S
ATOM	25312	C5	CYT	286	133.300	83.067	-8.078	1.00	45.63	Al6S	ATOM	25365	C6	GUA	288	136.869	86.839	-2.242	1.00	52.81	Al6S
ATOM	25313	C4	CYT	286	131.996	83.032	-7.329	1.00	45.63	Al6S	ATOM	25366	O6	GUA	288	137.356	87.219	-3.308	1.00	52.81	Al6S
ATOM	25314	O4	CYT	286	131.733	81.670	-6.905	1.00	45.63	Al6S	ATOM	25367	C5	GUA	288	135.570	87.054	-1.741	1.00	52.81	Al6S
ATOM	25315	C1	CYT	286	131.034	81.689	-5.677	1.00	45.63	Al6S	ATOM	25368	N7	GUA	288	134.499	87.739	-2.294	1.00	52.81	Al6S
ATOM	25316	N1	CYT	286	131.851	81.061	-4.633	1.00	39.45	Al6S	ATOM	25369	C8	GUA	288	133.546	87.614	-1.411	1.00	52.81	Al6S
ATOM	25317	C6	CYT	286	133.199	80.884	-4.772	1.00	39.45	Al6S	ATOM	25370	C2	GUA	288	133.677	87.120	2.163	1.00	42.03	Al6S
ATOM	25318	C2	CYT	286	131.210	80.692	-3.454	1.00	39.45	Al6S	ATOM	25371	O2	GUA	288	133.365	86.241	3.227	1.00	42.03	Al6S
ATOM	25319	O2	CYT	286	129.975	80.803	-3.389	1.00	39.45	Al6S	ATOM	25372	C3	GUA	288	132.980	88.474	2.250	1.00	42.03	Al6S
ATOM	25320	N3	CYT	286	131.938	80.224	-2.418	1.00	39.45	Al6S	ATOM	25373	O3	GUA	288	132.883	89.002	3.564	1.00	42.03	Al6S
ATOM	25321	C4	CYT	286	133.254	80.104	-2.536	1.00	39.45	Al6S	ATOM	25374	P	URI	289	133.804	90.244	3.977	1.00	45.19	Al6S
ATOM	25322	N4	CYT	286	133.928	79.699	-1.463	1.00	39.45	Al6S	ATOM	25375	O1P	URI	289	133.467	90.713	5.335	1.00	46.68	Al6S
ATOM	25323	C5	CYT	286	133.935	80.415	-3.756	1.00	39.45	Al6S	ATOM	25376	O2P	URI	289	133.761	91.201	2.844	1.00	46.68	Al6S
ATOM	25324	C2	CYT	286	130.811	83.148	-5.287	1.00	45.63	Al6S	ATOM	25377	O5	URI	289	135.244	89.590	4.079	1.00	45.19	Al6S
ATOM	25325	O2	CYT	286	129.523	83.564	-5.689	1.00	45.63	Al6S	ATOM	25378	C5	URI	289	135.452	88.477	4.944	1.00	45.19	Al6S
ATOM	25326	C3	CYT	286	131.936	83.836	-6.042	1.00	45.63	Al6S	ATOM	25379	C4	URI	289	136.843	87.938	4.780	1.00	45.19	Al6S
ATOM	25327	O3	CYT	286	131.662	85.209	-6.248	1.00	45.63	Al6S	ATOM	25380	O4	URI	289	136.985	87.285	3.494	1.00	45.19	Al6S
ATOM	25328	P	GUA	287	132.045	86.270	-5.104	1.00	40.29	Al6S	ATOM	25381	C1	URI	289	138.299	87.487	2.998	1.00	46.68	Al6S
ATOM	25329	O1P	GUA	287	131.824	87.610	-5.707	1.00	43.15	Al6S	ATOM	25382	N1	URI	289	138.195	88.188	1.710	1.00	46.68	Al6S
ATOM	25330	O2P	GUA	287	133.360	85.937	-4.523	1.00	43.15	Al6S	ATOM	25383	C6	URI	289	137.017	88.775	1.324	1.00	46.68	Al6S
ATOM	25331	O5	GUA	287	130.958	86.036	-3.970	1.00	40.29	Al6S	ATOM	25384	C2	URI	289	139.311	88.228	0.892	1.00	46.68	Al6S
ATOM	25332	C5	GUA	287	129.575	86.294	-4.225	1.00	40.29	Al6S	ATOM	25385	O2	URI	289	140.391	87.747	1.206	1.00	46.68	Al6S
ATOM	25333	C4	GUA	287	128.780	86.140	-2.957	1.00	40.29	Al6S	ATOM	25386	N3	URI	289	139.117	88.861	-0.307	1.00	46.68	Al6S
ATOM	25334	O4	GUA	287	128.893	84.771	-2.500	1.00	40.29	Al6S	ATOM	25387	C4	URI	289	137.956	89.455	-0.754	1.00	46.68	Al6S
ATOM	25335	C1	GUA	287	128.917	84.743	-1.090	1.00	40.29	Al6S	ATOM	25388	O4	URI	289	137.932	89.980	-1.865	1.00	46.68	Al6S
ATOM	25336	N9	GUA	287	130.182	84.164	-0.666	1.00	43.15	Al6S	ATOM	25389	C5	URI	289	136.865	89.388	0.156	1.00	46.68	Al6S
ATOM	25337	C4	GUA	287	130.409	83.489	0.505	1.00	43.15	Al6S	ATOM	25390	C2	URI	289	139.070	88.276	4.055	1.00	45.19	Al6S
ATOM	25338	N3	GUA	287	129.483	83.197	1.442	1.00	43.15	Al6S	ATOM	25391	O2	URI	289	139.766	87.384	4.900	1.00	45.19	Al6S
ATOM	25339	C2	GUA	287	130.009	82.586	2.474	1.00	43.15	Al6S	ATOM	25392	C3	URI	289	137.940	88.974	4.792	1.00	45.19	Al6S
ATOM	25340	N2	GUA	287	129.237	82.264	3.502	1.00	43.15	Al6S	ATOM	25393	O3	URI	289	138.302	89.338	6.095	1.00	45.19	Al6S
ATOM	25341	N1	GUA	287	131.340	82.261	2.576	1.00	43.15	Al6S	ATOM	25394	P	CYT	290	138.812	90.829	6.361	1.00	42.18	Al6S
ATOM	25342	C6	GUA	287	132.313	82.553	1.623	1.00	43.15	Al6S	ATOM	25395	O1P	CYT	290	138.926	90.996	7.850	1.00	34.15	Al6S
ATOM	25343	O6	GUA	287	133.492	82.237	1.818	1.00	43.15	Al6S	ATOM	25396	O2P	CYT	290	137.918	91.725	5.575	1.00	34.15	Al6S
ATOM	25344	C5	GUA	287	131.760	83.220	0.514	1.00	43.15	Al6S	ATOM	25397	O5	CYT	290	140.266	90.875	5.696	1.00	42.18	Al6S
ATOM	25345	N7	GUA	287	132.363	83.686	-0.645	1.00	43.15	Al6S	ATOM	25398	C5	CYT	290	141.387	90.254	6.352	1.00	42.18	Al6S
ATOM	25346	C8	GUA	287	131.388	84.225	-1.321	1.00	43.15	Al6S	ATOM	25399	C4	CYT	290	142.639	90.410	5.534	1.00	42.18	Al6S
ATOM	25347	C2	GUA	287	128.785	86.181	-0.581	1.00	40.29	Al6S	ATOM	25400	O4	CYT	290	142.462	89.751	4.259	1.00	42.18	Al6S
ATOM	25348	O2	GUA	287	127.445	86.450	-0.242	1.00	40.29	Al6S	ATOM	25401	C1	CYT	290	143.185	90.447	3.257	1.00	42.18	Al6S
ATOM	25349	C3	GUA	287	129.250	86.988	-1.785	1.00	40.29	Al6S	ATOM	25402	N1	CYT	290	142.239	90.945	2.252	1.00	34.15	Al6S
ATOM	25350	O3	GUA	287	128.659	88.288	-1.795	1.00	40.29	Al6S	ATOM	25403	C6	CYT	290	140.905	91.029	2.521	1.00	34.15	Al6S
ATOM	25351	P	GUA	288	129.438	89.523	-1.111	1.00	42.03	Al6S	ATOM	25404	C2	CYT	290	142.727	91.338	1.017	1.00	34.15	Al6S
ATOM	25352	O1P	GUA	288	128.479	90.655	-0.986	1.00	52.81	Al6S	ATOM	25405	O2	CYT	290	143.940	91.248	0.795	1.00	34.15	Al6S

ATOM	25406	N3	CYT	290	141.873	91.803	0.085	1.00	34.15	Al6S	ATOM	25459	O2P	ADE	293	145.092	102.821	3.036	1.00	42.93	Al
ATOM	25407	C4	CYT	290	140.572	91.870	0.352	1.00	34.15	Al6S	ATOM	25460	O5	ADE	293	143.871	104.003	1.159	1.00	38.03	Al
ATOM	25408	M1	CYT	290	139.766	92.309	-0.607	1.00	34.15	Al6S	ATOM	25461	C5	ADE	293	142.851	104.595	1.991	1.00	38.03	Al
ATOM	25409	C5	CYT	290	140.045	91.482	1.608	1.00	34.15	Al6S	ATOM	25462	C4	ADE	293	141.919	105.430	1.158	1.00	38.03	Al
ATOM	25410	C2	CYT	290	143.905	91.601	3.938	1.00	42.18	Al6S	ATOM	25463	O1	ADE	293	142.674	106.514	0.589	1.00	38.03	Al
ATOM	25411	O2	CYT	290	145.196	91.187	4.326	1.00	42.18	Al6S	ATOM	25464	C4	ADE	293	142.269	106.730	-0.748	1.00	38.03	Al
ATOM	25412	C3	CYT	290	143.023	91.821	5.145	1.00	42.18	Al6S	ATOM	25465	N9	ADE	293	143.438	106.559	-1.609	1.00	42.93	Al
ATOM	25413	O3	CYT	290	143.708	92.513	6.144	1.00	42.18	Al6S	ATOM	25466	C4	ADE	293	143.586	107.059	-2.879	1.00	42.93	Al
ATOM	25414	P	URI	291	143.407	94.074	6.340	1.00	36.53	Al6S	ATOM	25467	N3	ADE	293	142.687	107.756	-3.591	1.00	42.93	Al
ATOM	25415	O1P	URI	291	143.885	94.447	7.701	1.00	41.01	Al6S	ATOM	25468	C2	ADE	293	143.195	108.115	-4.769	1.00	42.93	Al
ATOM	25416	O2P	URI	291	141.982	94.296	5.974	1.00	41.01	Al6S	ATOM	25469	N1	ADE	293	144.406	107.872	-5.281	1.00	42.93	Al
ATOM	25417	O5	URI	291	144.275	94.783	5.212	1.00	36.53	Al6S	ATOM	25470	C6	ADE	293	145.284	107.158	-4.546	1.00	42.93	Al
ATOM	25418	C5	URI	291	145.656	94.455	5.019	1.00	36.53	Al6S	ATOM	25471	N6	ADE	293	146.492	106.912	-5.059	1.00	42.93	Al
ATOM	25419	C4	URI	291	146.087	94.852	3.629	1.00	36.53	Al6S	ATOM	25472	C5	ADE	293	144.866	106.717	-3.271	1.00	42.93	Al
ATOM	25420	O4	URI	291	145.363	94.075	2.640	1.00	36.53	Al6S	ATOM	25473	N7	ADE	293	145.500	105.980	-2.281	1.00	42.93	Al
ATOM	25421	C1	URI	291	145.195	94.839	1.465	1.00	36.53	Al6S	ATOM	25474	C8	ADE	293	144.610	105.911	-1.323	1.00	42.93	Al
ATOM	25422	N1	URI	291	143.769	94.931	1.131	1.00	41.01	Al6S	ATOM	25475	C2	ADE	293	141.117	105.780	-1.062	1.00	38.03	Al
ATOM	25423	C6	URI	291	142.774	94.720	2.054	1.00	41.01	Al6S	ATOM	25476	O2	ADE	293	139.894	106.444	-0.884	1.00	38.03	Al
ATOM	25424	C2	URI	291	143.464	95.255	-0.180	1.00	41.01	Al6S	ATOM	25477	C3	ADE	293	141.326	104.689	-0.025	1.00	38.03	Al
ATOM	25425	O2	URI	291	144.319	95.468	-1.025	1.00	41.01	Al6S	ATOM	25478	O3	ADE	293	140.104	104.065	0.330	1.00	38.03	Al
ATOM	25426	N3	URI	291	142.130	95.331	-0.466	1.00	41.01	Al6S	ATOM	25479	P	GUA	294	139.872	102.521	-0.030	1.00	36.04	Al
ATOM	25427	C4	URI	291	141.094	95.134	0.398	1.00	41.01	Al6S	ATOM	25480	O1P	GUA	294	138.709	102.027	0.767	1.00	48.38	Al
ATOM	25428	O4	URI	291	139.944	95.228	-0.026	1.00	41.01	Al6S	ATOM	25481	O2P	GUA	294	141.209	101.884	0.130	1.00	48.38	Al
ATOM	25429	C5	URI	291	141.481	94.812	1.742	1.00	41.01	Al6S	ATOM	25482	O5	GUA	294	139.471	102.522	-1.573	1.00	36.04	Al
ATOM	25430	C2	URI	291	145.800	96.214	1.710	1.00	36.53	Al6S	ATOM	25483	C5	GUA	294	138.223	103.087	-2.005	1.00	36.04	Al
ATOM	25431	O2	URI	291	147.097	96.201	1.164	1.00	36.53	Al6S	ATOM	25484	C4	GUA	294	138.385	103.728	-3.356	1.00	36.04	Al
ATOM	25432	C3	URI	291	145.799	96.284	3.230	1.00	36.53	Al6S	ATOM	25485	O4	GUA	294	139.621	104.480	-3.332	1.00	36.04	Al
ATOM	25433	O3	URI	291	146.778	97.170	3.714	1.00	36.53	Al6S	ATOM	25486	C1	GUA	294	140.255	104.392	-4.595	1.00	36.04	Al
ATOM	25434	P	GUA	292	146.376	98.685	3.991	1.00	33.99	Al6S	ATOM	25487	N9	GUA	294	141.610	103.880	-4.399	1.00	48.38	Al
ATOM	25435	O1P	GUA	292	147.580	99.382	4.498	1.00	38.52	Al6S	ATOM	25488	N3	GUA	294	142.694	104.105	-5.221	1.00	48.38	Al
ATOM	25436	O2P	GUA	292	145.132	98.700	4.784	1.00	38.52	Al6S	ATOM	25489	C4	GUA	294	142.684	104.808	-6.373	1.00	48.38	Al
ATOM	25437	O5	GUA	292	145.965	99.227	2.562	1.00	33.99	Al6S	ATOM	25490	C2	GUA	294	143.889	104.906	-6.902	1.00	48.38	Al
ATOM	25438	C5	GUA	292	146.943	99.602	1.613	1.00	33.99	Al6S	ATOM	25491	N2	GUA	294	144.062	105.592	-8.034	1.00	48.38	Al
ATOM	25439	C4	GUA	292	146.263	100.128	0.388	1.00	33.99	Al6S	ATOM	25492	N1	GUA	294	145.010	104.347	-6.361	1.00	48.38	Al
ATOM	25440	O4	GUA	292	145.479	99.063	-0.211	1.00	33.99	Al6S	ATOM	25493	C6	GUA	294	145.048	103.605	-5.193	1.00	48.38	Al
ATOM	25441	C1	GUA	292	144.370	99.623	-0.893	1.00	33.99	Al6S	ATOM	25494	O6	GUA	294	146.122	103.133	-4.808	1.00	48.38	Al
ATOM	25442	N9	GUA	292	143.149	99.040	-0.363	1.00	38.52	Al6S	ATOM	25495	C5	GUA	294	143.760	103.502	-4.596	1.00	48.38	Al
ATOM	25443	C4	GUA	292	141.939	99.036	-0.987	1.00	38.52	Al6S	ATOM	25496	N7	GUA	294	143.352	102.880	-3.424	1.00	48.38	Al
ATOM	25444	N3	GUA	292	141.706	99.450	-2.244	1.00	38.52	Al6S	ATOM	25497	C8	GUA	294	142.072	103.121	-3.553	1.00	48.38	Al
ATOM	25445	C2	GUA	292	140.425	99.398	-2.546	1.00	38.52	Al6S	ATOM	25498	C2	GUA	294	139.362	103.566	-5.523	1.00	36.04	Al
ATOM	25446	N2	GUA	292	140.016	99.747	-3.775	1.00	38.52	Al6S	ATOM	25499	O2	GUA	294	138.542	104.429	-6.279	1.00	36.04	Al
ATOM	25447	C6	GUA	292	139.447	98.994	-1.665	1.00	38.52	Al6S	ATOM	25500	C3	GUA	294	138.524	102.772	-4.534	1.00	36.04	Al
ATOM	25448	C6	GUA	292	139.671	98.573	-0.359	1.00	38.52	Al6S	ATOM	25501	O3	GUA	294	137.254	102.505	-5.113	1.00	36.04	Al
ATOM	25449	O6	GUA	292	138.713	98.265	0.368	1.00	38.52	Al6S	ATOM	25502	P	ADE	295	136.908	101.027	-5.638	1.00	45.01	Al
ATOM	25450	C5	GUA	292	141.043	98.586	-0.045	1.00	38.52	Al6S	ATOM	25503	O1P	ADE	295	135.459	100.972	-5.946	1.00	38.86	Al
ATOM	25451	N7	GUA	292	141.698	98.218	1.116	1.00	38.52	Al6S	ATOM	25504	O2P	ADE	295	137.483	100.060	-4.673	1.00	38.86	Al
ATOM	25452	C8	GUA	292	142.952	98.487	0.874	1.00	38.52	Al6S	ATOM	25505	O5	ADE	295	137.702	100.895	-7.011	1.00	45.01	Al
ATOM	25453	C2	GUA	292	144.371	101.133	-0.622	1.00	33.99	Al6S	ATOM	25506	C5	ADE	295	137.288	101.607	-8.189	1.00	45.01	Al
ATOM	25454	O2	GUA	292	144.969	101.832	-1.685	1.00	33.99	Al6S	ATOM	25507	C4	ADE	295	138.390	101.585	-9.228	1.00	45.01	Al
ATOM	25455	C3	GUA	292	145.242	101.230	0.617	1.00	33.99	Al6S	ATOM	25508	O4	ADE	295	139.521	102.368	-8.760	1.00	45.01	Al
ATOM	25456	O3	GUA	292	145.844	102.503	0.700	1.00	33.99	Al6S	ATOM	25509	C1	ADE	295	140.730	101.748	-9.158	1.00	45.01	Al
ATOM	25457	P	ADE	293	145.285	103.569	1.760	1.00	38.03	Al6S	ATOM	25510	N9	ADE	295	141.392	101.258	-7.953	1.00	38.86	Al
ATOM	25458	O1P	ADE	293	146.186	104.751	1.735	1.00	42.93	Al6S	ATOM	25511	C4	ADE	295	142.740	101.184	-7.729	1.00	38.86	Al

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ATOM	25512	N3	ADE	295	143.723	101.527	-8.574	1.00	38.86	Al6S	ATOM	25565	C8	GUA	297	143.338	93.533	-6.611	1.00	36.86	Al6
ATOM	25513	C2	ADE	295	144.909	101.343	-8.002	1.00	38.86	Al6S	ATOM	25566	C2	GUA	297	146.590	92.228	-6.774	1.00	45.49	Al6
ATOM	25514	N1	ADE	295	145.201	100.897	-6.767	1.00	38.86	Al6S	ATOM	25567	O2	GUA	297	147.987	92.435	-6.663	1.00	45.49	Al6
ATOM	25515	C6	ADE	295	144.185	100.565	-5.944	1.00	38.86	Al6S	ATOM	25568	C3	GUA	297	146.190	91.965	-8.213	1.00	45.49	Al6
ATOM	25516	N6	ADE	295	144.475	100.144	-4.710	1.00	38.86	Al6S	ATOM	25569	O3	GUA	297	147.053	91.070	-8.860	1.00	45.49	Al6
ATOM	25517	C5	ADE	295	142.880	100.698	-6.441	1.00	38.86	Al6S	ATOM	25570	P	ADE	298	146.538	89.593	-9.169	1.00	52.70	Al6
ATOM	25518	N7	ADE	295	141.645	100.446	-5.878	1.00	38.86	Al6S	ATOM	25571	O1P	ADE	298	147.592	89.031	-10.038	1.00	41.52	Al6
ATOM	25519	C8	ADE	295	140.801	100.789	-6.812	1.00	38.86	Al6S	ATOM	25572	O2P	ADE	298	145.136	89.646	-9.650	1.00	41.52	Al6
ATOM	25520	C2	ADE	295	140.357	100.594	-10.079	1.00	45.01	Al6S	ATOM	25573	O5	ADE	298	146.538	88.874	-7.744	1.00	52.70	Al6
ATOM	25521	O2	ADE	295	140.242	101.060	-11.409	1.00	45.01	Al6S	ATOM	25574	C5	ADE	298	147.769	88.646	-7.043	1.00	52.70	Al6
ATOM	25522	O3	ADE	295	138.986	100.224	-9.555	1.00	45.01	Al6S	ATOM	25575	C4	ADE	298	147.508	88.286	-5.599	1.00	52.70	Al6
ATOM	25523	O3	ADE	295	138.275	99.520	-10.551	1.00	45.01	Al6S	ATOM	25576	O4	ADE	298	146.868	89.400	-4.919	1.00	52.70	Al6
ATOM	25524	P	GUA	296	138.110	97.930	-10.418	1.00	46.31	Al6S	ATOM	25577	C1	ADE	298	146.064	88.909	-3.853	1.00	52.70	Al6
ATOM	25525	O1P	GUA	296	137.597	97.464	-11.738	1.00	47.30	Al6S	ATOM	25578	N9	ADE	298	144.668	89.270	-4.099	1.00	41.52	Al6
ATOM	25526	O2P	GUA	296	137.323	97.667	-9.185	1.00	47.30	Al6S	ATOM	25579	C4	ADE	298	143.657	89.241	-3.168	1.00	41.52	Al6
ATOM	25527	O5	GUA	296	139.579	97.365	-10.134	1.00	46.31	Al6S	ATOM	25580	N3	ADE	298	143.761	88.962	-1.857	1.00	41.52	Al6
ATOM	25528	C5	GUA	296	140.604	97.384	-11.147	1.00	46.31	Al6S	ATOM	25581	C2	ADE	298	142.562	88.984	-1.280	1.00	41.52	Al6
ATOM	25529	C4	GUA	296	141.982	97.299	-10.518	1.00	46.31	Al6S	ATOM	25582	N1	ADE	298	141.364	89.230	-1.826	1.00	41.52	Al6
ATOM	25530	O4	GUA	296	142.012	98.143	-9.334	1.00	46.31	Al6S	ATOM	25583	C6	ADE	298	141.301	89.506	-3.145	1.00	41.52	Al6
ATOM	25531	C1	GUA	296	142.915	97.603	-8.383	1.00	47.30	Al6S	ATOM	25584	N6	ADE	298	140.116	89.733	-3.697	1.00	41.52	Al6
ATOM	25532	N9	GUA	296	142.215	97.326	-7.130	1.00	47.30	Al6S	ATOM	25585	C5	ADE	298	142.498	89.527	-3.864	1.00	41.52	Al6
ATOM	25533	C4	GUA	296	142.818	96.977	-5.946	1.00	47.30	Al6S	ATOM	25586	N7	ADE	298	142.774	89.783	-5.197	1.00	41.52	Al6
ATOM	25534	N3	GUA	296	144.145	96.839	-5.749	1.00	47.30	Al6S	ATOM	25587	C8	ADE	298	144.074	89.633	-5.282	1.00	41.52	Al6
ATOM	25535	C2	GUA	296	144.421	96.488	-4.140	1.00	47.30	Al6S	ATOM	25588	C2	ADE	298	146.192	87.383	-3.852	1.00	52.70	Al6
ATOM	25536	N2	GUA	296	145.695	96.312	-4.512	1.00	47.30	Al6S	ATOM	25589	O2	ADE	298	147.175	86.967	-2.918	1.00	52.70	Al6
ATOM	25537	N1	GUA	296	143.471	96.283	-3.546	1.00	47.30	Al6S	ATOM	25590	C3	ADE	298	146.596	87.106	-5.295	1.00	52.70	Al6
ATOM	25538	C6	GUA	296	142.100	96.412	-3.728	1.00	47.30	Al6S	ATOM	25591	O3	ADE	298	147.234	85.844	-5.385	1.00	52.70	Al6
ATOM	25539	O5	GUA	296	141.327	96.186	-2.790	1.00	47.30	Al6S	ATOM	25592	P	URI	299	146.371	84.551	-5.796	1.00	43.54	Al6
ATOM	25540	C5	GUA	296	141.788	96.798	-5.047	1.00	47.30	Al6S	ATOM	25593	O1P	URI	299	147.322	83.421	-5.939	1.00	50.12	Al6
ATOM	25541	N7	GUA	296	140.559	97.035	-5.648	1.00	47.30	Al6S	ATOM	25594	O2P	URI	299	145.493	84.931	-6.938	1.00	50.12	Al6
ATOM	25542	C8	GUA	296	140.860	97.343	-6.883	1.00	47.30	Al6S	ATOM	25595	O5	URI	299	145.430	84.264	-4.547	1.00	43.54	Al6
ATOM	25543	O2	GUA	296	143.510	96.333	-8.981	1.00	46.31	Al6S	ATOM	25596	C5	URI	299	145.957	83.784	-3.307	1.00	43.54	Al6
ATOM	25544	C2	GUA	296	144.750	96.675	-9.558	1.00	46.31	Al6S	ATOM	25597	C4	URI	299	144.881	83.812	-2.249	1.00	43.54	Al6
ATOM	25545	C3	GUA	296	142.451	95.945	-10.006	1.00	46.31	Al6S	ATOM	25598	O4	URI	299	144.330	85.153	-2.202	1.00	43.54	Al6
ATOM	25546	O3	GUA	296	143.003	95.132	-11.036	1.00	46.31	Al6S	ATOM	25599	C1	URI	299	142.953	85.092	-1.870	1.00	43.54	Al6
ATOM	25547	P	GUA	297	142.930	93.520	-10.905	1.00	45.49	Al6S	ATOM	25600	N1	URI	299	142.154	85.705	-2.950	1.00	50.12	Al6
ATOM	25548	O1P	GUA	297	143.368	92.995	-12.234	1.00	36.86	Al6S	ATOM	25601	C6	URI	299	142.694	85.991	-4.182	1.00	50.12	Al6
ATOM	25549	O2P	GUA	297	141.663	93.069	-10.309	1.00	36.86	Al6S	ATOM	25602	C2	URI	299	140.817	85.977	-2.687	1.00	50.12	Al6
ATOM	25550	O5	GUA	297	144.083	93.169	-9.844	1.00	45.49	Al6S	ATOM	25603	O2	URI	299	140.291	85.764	-1.612	1.00	50.12	Al6
ATOM	25551	C5	GUA	297	145.446	93.539	-10.076	1.00	45.49	Al6S	ATOM	25604	N3	URI	299	140.117	86.511	-3.734	1.00	50.12	Al6
ATOM	25552	C4	GUA	297	146.253	93.346	-8.821	1.00	45.49	Al6S	ATOM	25605	C4	URI	299	140.593	86.801	-4.983	1.00	50.12	Al6
ATOM	25553	O4	GUA	297	145.749	94.200	-7.763	1.00	45.49	Al6S	ATOM	25606	O4	URI	299	139.817	87.241	-5.831	1.00	50.12	Al6
ATOM	25554	C1	GUA	297	145.875	93.546	-6.511	1.00	45.49	Al6S	ATOM	25607	C5	URI	299	141.978	86.514	-5.177	1.00	50.12	Al6
ATOM	25555	N9	GUA	297	144.535	93.369	-5.952	1.00	36.86	Al6S	ATOM	25608	C2	URI	299	142.602	83.624	-1.630	1.00	43.54	Al6
ATOM	25556	C4	GUA	297	144.215	93.030	-4.652	1.00	36.86	Al6S	ATOM	25609	O2	URI	299	142.753	83.364	-0.247	1.00	43.54	Al6
ATOM	25557	N3	GUA	297	145.088	92.766	-3.657	1.00	36.86	Al6S	ATOM	25610	C3	URI	299	143.662	82.912	-2.457	1.00	43.54	Al6
ATOM	25558	C2	GUA	297	144.465	92.505	-2.514	1.00	36.86	Al6S	ATOM	25611	O3	URI	299	143.877	81.598	-1.947	1.00	43.54	Al6
ATOM	25559	N2	GUA	297	145.167	92.233	-1.412	1.00	36.86	Al6S	ATOM	25612	P	GUA	300	143.417	80.308	-2.794	1.00	67.71	Al6
ATOM	25560	C1	GUA	297	143.104	92.499	-2.363	1.00	36.86	Al6S	ATOM	25613	O1P	GUA	300	144.369	79.233	-2.445	1.00	53.11	Al6
ATOM	25561	N6	GUA	297	142.191	92.774	-3.368	1.00	36.86	Al6S	ATOM	25614	O2P	GUA	300	143.176	80.648	-4.226	1.00	53.11	Al6
ATOM	25562	O6	GUA	297	140.988	92.772	-3.116	1.00	36.86	Al6S	ATOM	25615	O5	GUA	300	142.035	79.886	-2.144	1.00	67.71	Al6
ATOM	25563	C5	GUA	297	142.834	93.047	-4.599	1.00	36.86	Al6S	ATOM	25616	C5	GUA	300	141.833	79.957	-0.733	1.00	67.71	Al6
ATOM	25564	N7	GUA	297	142.297	93.356	-5.841	1.00	36.86	Al6S	ATOM	25617	C4	GUA	300	140.459	80.485	-0.465	1.00	67.71	Al6

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ATOM	25618	O4' GUA	300	140.316	81.675	-1.249	1.00 67.71	Al6S	ATOM	25671	C4	CYT	302	135.493	81.622	6.286	1.00 85.21	Al6
ATOM	25619	C1' GUA	300	138.955	81.876	-1.515	1.00 67.71	Al6S	ATOM	25672	N4	CYT	302	135.065	82.521	5.399	1.00 85.21	Al6
ATOM	25620	N3	300	138.806	82.522	-2.808	1.00 53.11	Al6S	ATOM	25673	C5	CYT	302	136.175	80.450	5.850	1.00 85.21	Al6
ATOM	25621	C4 GUA	300	137.680	83.156	-3.250	1.00 53.11	Al6S	ATOM	25674	C2'	CYT	302	135.398	78.004	9.624	1.00 64.24	Al6
ATOM	25622	N3	300	136.512	83.243	-2.581	1.00 53.11	Al6S	ATOM	25675	O2'	CYT	302	135.485	77.783	11.016	1.00 64.24	Al6
ATOM	25623	C2 GUA	300	135.617	83.920	-3.255	1.00 53.11	Al6S	ATOM	25676	C3'	CYT	302	135.515	76.716	8.817	1.00 64.24	Al6
ATOM	25624	N2 GUA	300	134.390	84.076	-2.750	1.00 53.11	Al6S	ATOM	25677	O3'	CYT	302	134.858	75.625	9.431	1.00 64.24	Al6
ATOM	25625	N1 GUA	300	135.856	84.489	-4.479	1.00 53.11	Al6S	ATOM	25678	P	CYT	303	133.595	74.967	8.697	1.00 57.06	Al6
ATOM	25626	C6 GUA	300	137.056	84.416	-5.179	1.00 53.11	Al6S	ATOM	25679	O1P	CYT	303	133.048	73.895	9.558	1.00 46.00	Al6
ATOM	25627	O6 GUA	300	137.173	84.974	-6.276	1.00 53.11	Al6S	ATOM	25680	O2P	CYT	303	134.007	74.655	7.307	1.00 46.00	Al6
ATOM	25628	C5	300	138.011	83.674	-4.480	1.00 53.11	Al6S	ATOM	25681	O5'	CYT	303	132.530	76.150	8.623	1.00 57.06	Al6
ATOM	25629	N7 GUA	300	139.317	83.350	-4.817	1.00 53.11	Al6S	ATOM	25682	C5'	CYT	303	131.787	76.564	9.789	1.00 57.06	Al6
ATOM	25630	C8 GUA	300	139.749	82.661	-3.798	1.00 53.11	Al6S	ATOM	25683	C4'	CYT	303	130.806	77.662	9.434	1.00 57.06	Al6
ATOM	25631	C2' GUA	300	138.198	80.566	-1.296	1.00 67.71	Al6S	ATOM	25684	O1'	CYT	303	131.529	78.874	9.102	1.00 57.06	Al6
ATOM	25632	O2' GUA	300	137.246	80.766	-0.265	1.00 67.71	Al6S	ATOM	25685	C4'	CYT	303	130.839	79.572	8.076	1.00 57.06	Al6
ATOM	25633	C3' GUA	300	139.314	79.590	-0.919	1.00 67.71	Al6S	ATOM	25686	N1	CYT	303	131.699	79.606	6.878	1.00 46.00	Al6
ATOM	25634	O3' GUA	300	138.904	78.904	0.252	1.00 67.71	Al6S	ATOM	25687	C6	CYT	303	132.744	78.735	6.754	1.00 46.00	Al6
ATOM	25635	P	301	138.543	77.345	0.205	1.00 71.49	Al6S	ATOM	25688	O2	CYT	303	131.423	80.537	5.850	1.00 46.00	Al6
ATOM	25636	O1P	301	139.497	76.675	-0.726	1.00109.50	Al6S	ATOM	25689	C2	CYT	303	130.466	81.318	5.969	1.00 46.00	Al6
ATOM	25637	O2P	301	137.074	77.194	-0.013	1.00109.50	Al6S	ATOM	25690	N3	CYT	303	132.206	80.548	4.752	1.00 46.00	Al6
ATOM	25638	O5' GUA	301	138.882	76.909	1.702	1.00 71.49	Al6S	ATOM	25691	C4	CYT	303	133.212	79.678	4.641	1.00 46.00	Al6
ATOM	25639	C5' GUA	301	140.181	76.387	2.047	1.00 71.49	Al6S	ATOM	25692	N4	CYT	303	133.945	79.708	3.531	1.00 46.00	Al6
ATOM	25640	C4' GUA	301	140.486	76.625	3.510	1.00 71.49	Al6S	ATOM	25693	C5	CYT	303	133.511	78.731	5.664	1.00 46.00	Al6
ATOM	25641	O4' GUA	301	141.171	77.888	3.692	1.00 71.49	Al6S	ATOM	25694	C2'	CYT	303	129.541	78.815	7.797	1.00 57.06	Al6
ATOM	25642	C1' GUA	301	140.864	78.406	4.973	1.00 71.49	Al6S	ATOM	25695	O2'	CYT	303	128.504	79.343	8.594	1.00 57.06	Al6
ATOM	25643	N9 GUA	301	140.322	79.754	4.827	1.00109.50	Al6S	ATOM	25696	C3'	CYT	303	129.917	77.410	8.226	1.00 57.06	Al6
ATOM	25644	C4 GUA	301	139.979	80.596	5.858	1.00109.50	Al6S	ATOM	25697	O3'	CYT	303	128.775	76.629	8.514	1.00 57.06	Al6
ATOM	25645	N3	301	140.091	80.318	7.178	1.00109.50	Al6S	ATOM	25698	P	GUA	304	128.289	75.523	7.451	1.00 48.88	Al6
ATOM	25646	C2 GUA	301	139.664	81.317	7.935	1.00109.50	Al6S	ATOM	25699	O1P	GUA	304	127.306	74.656	8.178	1.00 47.18	Al6
ATOM	25647	N2 GUA	301	139.697	81.201	9.274	1.00109.50	Al6S	ATOM	25700	O2P	GUA	304	129.479	74.898	6.792	1.00 47.18	Al6
ATOM	25648	N1 GUA	301	139.170	82.500	7.435	1.00109.50	Al6S	ATOM	25701	O5'	GUA	304	127.517	76.366	6.339	1.00 48.88	Al6
ATOM	25649	C6 GUA	301	139.041	82.809	6.080	1.00109.50	Al6S	ATOM	25702	C5'	GUA	304	126.292	77.036	6.657	1.00 48.88	Al6
ATOM	25650	O6 GUA	301	138.573	83.906	5.738	1.00109.50	Al6S	ATOM	25703	C4'	GUA	304	125.859	77.911	5.512	1.00 48.88	Al6
ATOM	25651	C5 GUA	301	139.497	81.739	5.254	1.00109.50	Al6S	ATOM	25704	O4'	GUA	304	126.839	78.956	5.315	1.00 48.88	Al6
ATOM	25652	N7 GUA	301	139.544	81.624	3.869	1.00109.50	Al6S	ATOM	25705	C1'	GUA	304	126.938	79.264	3.936	1.00 47.18	Al6
ATOM	25653	C8 GUA	301	140.042	80.434	3.662	1.00109.50	Al6S	ATOM	25706	N9	GUA	304	128.311	79.014	3.509	1.00 47.18	Al6
ATOM	25654	C2' GUA	301	139.892	77.440	5.659	1.00 71.49	Al6S	ATOM	25707	C4	GUA	304	128.878	79.378	2.307	1.00 47.18	Al6
ATOM	25655	O2' GUA	301	140.602	76.620	6.562	1.00 71.49	Al6S	ATOM	25708	N3	GUA	304	128.260	80.031	1.304	1.00 47.18	Al6
ATOM	25656	C3' GUA	301	139.313	76.674	4.474	1.00 71.49	Al6S	ATOM	25709	C2	GUA	304	129.073	80.269	0.292	1.00 47.18	Al6
ATOM	25657	O3' GUA	301	138.844	75.378	4.833	1.00 71.49	Al6S	ATOM	25710	N2	GUA	304	128.615	80.917	-0.788	1.00 47.18	Al6
ATOM	25658	P	302	137.263	75.130	5.037	1.00 64.24	Al6S	ATOM	25711	N1	GUA	304	130.390	79.890	0.266	1.00 47.18	Al6
ATOM	25659	O1P	302	136.528	75.728	3.887	1.00 85.21	Al6S	ATOM	25712	C6	GUA	304	131.045	79.209	1.288	1.00 47.18	Al6
ATOM	25660	O2P	302	137.076	73.690	5.348	1.00 85.21	Al6S	ATOM	25713	O6	GUA	304	132.235	78.910	1.168	1.00 47.18	Al6
ATOM	25661	O5' GUA	302	136.920	75.974	6.347	1.00 64.24	Al6S	ATOM	25714	C5	GUA	304	130.184	78.954	2.376	1.00 47.18	Al6
ATOM	25662	C5' GUA	302	137.520	75.625	7.611	1.00 64.24	Al6S	ATOM	25715	N7	GUA	304	130.434	78.327	3.587	1.00 47.18	Al6
ATOM	25663	C4' GUA	302	137.014	76.515	8.725	1.00 64.24	Al6S	ATOM	25716	C8	GUA	304	129.297	78.383	4.225	1.00 47.18	Al6
ATOM	25664	O4' GUA	302	137.550	77.861	8.604	1.00 64.24	Al6S	ATOM	25717	C2'	GUA	304	125.935	78.389	3.192	1.00 48.88	Al6
ATOM	25665	C1' GUA	302	136.622	78.789	9.141	1.00 64.24	Al6S	ATOM	25718	O2'	GUA	304	124.730	79.090	2.976	1.00 48.88	Al6
ATOM	25666	N1	302	136.274	79.783	8.108	1.00 85.21	Al6S	ATOM	25719	C3'	GUA	304	125.769	77.234	4.162	1.00 48.88	Al6
ATOM	25667	C6	302	136.542	79.564	6.786	1.00 85.21	Al6S	ATOM	25720	O3'	GUA	304	124.561	76.539	3.936	1.00 48.88	Al6
ATOM	25668	C2	302	135.638	80.959	8.508	1.00 85.21	Al6S	ATOM	25721	P	GUA	305	124.549	75.364	2.850	1.00 39.89	Al6
ATOM	25669	O2	302	135.446	81.153	9.718	1.00 85.21	Al6S	ATOM	25722	O1P	GUA	305	123.243	74.642	2.843	1.00 46.36	Al6
ATOM	25670	N3	302	135.252	81.857	7.574	1.00 85.21	Al6S	ATOM	25723	O2P	GUA	305	125.810	74.608	3.071	1.00 46.36	Al6

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ATOM	25724	O5' GUA	305	124.696	76.134	1.468	1.00	39.89	Al6S	ATOM	25777	C4	CYT	307	130.750	70.568	-4.150	1.00	28.81	Al6
ATOM	25725	C5' GUA	305	123.609	76.895	0.952	1.00	39.89	Al6S	ATOM	25778	N4	CYT	307	130.960	70.337	-2.858	1.00	28.81	Al6
ATOM	25726	04' GUA	305	123.869	77.275	-0.476	1.00	39.89	Al6S	ATOM	25779	C5	CYT	307	129.442	70.878	-4.619	1.00	28.81	Al6
ATOM	25727	01' GUA	305	124.980	78.198	-0.530	1.00	39.89	Al6S	ATOM	25780	C2'	CYT	307	130.352	69.818	-8.977	1.00	43.68	Al6
ATOM	25728	C1' GUA	305	125.699	78.002	-1.740	1.00	39.89	Al6S	ATOM	25781	O2'	CYT	307	130.917	70.099	-10.250	1.00	43.68	Al6
ATOM	25729	N9 GUA	305	127.089	77.660	-1.421	1.00	46.36	Al6S	ATOM	25782	C3'	CYT	307	128.919	69.318	-9.060	1.00	43.68	Al6
ATOM	25730	C4 GUA	305	128.141	77.604	-2.313	1.00	46.36	Al6S	ATOM	25783	O3'	CYT	307	128.718	68.395	-10.113	1.00	43.68	Al6
ATOM	25731	N3 GUA	305	128.074	77.864	-3.639	1.00	46.36	Al6S	ATOM	25784	P	ADE	308	128.672	66.826	-9.781	1.00	45.97	Al6
ATOM	25732	C2 GUA	305	129.240	77.706	-4.241	1.00	46.36	Al6S	ATOM	25785	O1P ADE	308	128.087	66.074	-10.940	1.00	25.01	Al6	
ATOM	25733	N2 GUA	305	129.337	77.921	-5.568	1.00	46.36	Al6S	ATOM	25786	O2P ADE	308	128.058	66.698	-8.439	1.00	25.01	Al6	
ATOM	25734	06' GUA	305	130.387	77.324	-3.590	1.00	46.36	Al6S	ATOM	25787	O5' ADE	308	130.195	66.424	-9.563	1.00	45.97	Al6	
ATOM	25735	C6 GUA	305	130.482	77.050	-2.226	1.00	46.36	Al6S	ATOM	25788	C5' ADE	308	131.177	66.647	-10.569	1.00	45.97	Al6	
ATOM	25736	O6 GUA	305	131.570	76.703	-1.738	1.00	46.36	Al6S	ATOM	25789	C4' ADE	308	132.540	66.386	-9.999	1.00	45.97	Al6	
ATOM	25737	C5 GUA	305	129.230	77.219	-1.570	1.00	46.36	Al6S	ATOM	25790	O4' ADE	308	132.858	67.407	-9.024	1.00	45.97	Al6	
ATOM	25738	N7 GUA	305	128.881	77.045	-0.237	1.00	46.36	Al6S	ATOM	25791	C1' ADE	308	133.565	66.838	-7.936	1.00	45.97	Al6	
ATOM	25739	C8 GUA	305	127.607	77.319	-0.196	1.00	46.36	Al6S	ATOM	25792	N9 ADE	308	132.741	66.989	-6.738	1.00	25.01	Al6	
ATOM	25740	C2' GUA	305	124.988	76.889	-2.516	1.00	39.89	Al6S	ATOM	25793	C4 ADE	308	133.157	66.889	-5.431	1.00	25.01	Al6	
ATOM	25741	O2' GUA	305	124.029	77.395	-3.425	1.00	39.89	Al6S	ATOM	25794	N3 ADE	308	134.405	66.667	-4.984	1.00	25.01	Al6	
ATOM	25742	C3' GUA	305	124.295	76.150	-1.395	1.00	39.89	Al6S	ATOM	25795	C2 ADE	308	134.430	66.646	-3.649	1.00	25.01	Al6	
ATOM	25743	O3' GUA	305	123.249	75.344	-1.876	1.00	39.89	Al6S	ATOM	25796	N1 ADE	308	133.420	66.793	-2.780	1.00	25.01	Al6	
ATOM	25744	P	CYT	306	123.493	73.763	-1.997	1.00	43.27	Al6S	ATOM	25797	C6 ADE	308	132.174	66.993	-3.268	1.00	25.01	Al6
ATOM	25745	O1P CYT	306	122.148	73.102	-2.161	1.00	35.39	Al6S	ATOM	25798	N6 ADE	308	131.158	67.099	-2.412	1.00	25.01	Al6	
ATOM	25746	O2P CYT	306	124.386	73.384	-0.858	1.00	35.39	Al6S	ATOM	25799	C5 ADE	308	132.019	67.064	-4.661	1.00	25.01	Al6	
ATOM	25747	O5' CYT	306	124.308	73.605	-3.357	1.00	43.27	Al6S	ATOM	25800	N7 ADE	308	130.908	67.288	-5.463	1.00	25.01	Al6	
ATOM	25748	C5' CYT	306	123.709	74.013	-4.594	1.00	43.27	Al6S	ATOM	25801	C8 ADE	308	131.386	67.238	-6.682	1.00	25.01	Al6	
ATOM	25749	C4' CYT	306	124.750	74.256	-5.661	1.00	43.27	Al6S	ATOM	25802	C2' ADE	308	133.802	65.371	-8.275	1.00	45.97	Al6	
ATOM	25750	O4' CYT	306	125.715	75.255	-5.237	1.00	43.27	Al6S	ATOM	25803	O2' ADE	308	135.052	65.269	-8.915	1.00	45.97	Al6	
ATOM	25751	C1' CYT	306	126.963	74.994	-4.815	1.00	35.39	Al6S	ATOM	25804	C3' ADE	308	132.649	65.089	-9.226	1.00	45.97	Al6	
ATOM	25752	N1 CYT	306	127.950	74.633	-4.151	1.00	35.39	Al6S	ATOM	25805	O3' ADE	308	132.870	63.987	-10.091	1.00	45.97	Al6	
ATOM	25753	C6 CYT	306	127.582	74.399	-3.519	1.00	35.39	Al6S	ATOM	25806	P	CYT	309	132.246	62.551	-9.714	1.00	40.62	Al6
ATOM	25754	C2 CYT	306	129.284	74.526	-5.193	1.00	35.39	Al6S	ATOM	25807	O1P CYT	309	132.235	61.716	-10.950	1.00	34.42	Al6	
ATOM	25755	O2 CYT	306	129.581	74.731	-6.382	1.00	35.39	Al6S	ATOM	25808	O2P CYT	309	130.969	62.771	-8.964	1.00	34.42	Al6	
ATOM	25756	N3 CYT	306	130.216	74.201	-4.265	1.00	35.39	Al6S	ATOM	25809	O5' CYT	309	133.298	61.953	-8.676	1.00	40.62	Al6	
ATOM	25757	C4 CYT	306	129.849	73.991	-3.003	1.00	35.39	Al6S	ATOM	25810	C5' CYT	309	134.673	61.820	-9.023	1.00	40.62	Al6	
ATOM	25758	N4 CYT	306	130.799	73.709	-2.117	1.00	35.39	Al6S	ATOM	25811	C4' CYT	309	135.509	61.730	-7.781	1.00	40.62	Al6	
ATOM	25759	C5 CYT	306	128.490	74.075	-2.591	1.00	35.39	Al6S	ATOM	25812	O4' CYT	309	135.342	62.940	-7.007	1.00	40.62	Al6	
ATOM	25760	O2' CYT	306	126.755	73.807	-6.777	1.00	43.27	Al6S	ATOM	25813	C1' CYT	309	135.486	62.653	-5.629	1.00	40.62	Al6	
ATOM	25761	O2' CYT	306	126.333	74.284	-8.040	1.00	43.27	Al6S	ATOM	25814	N1 CYT	309	134.252	63.039	-4.923	1.00	34.42	Al6	
ATOM	25762	C3' CYT	306	125.620	73.094	-6.077	1.00	43.27	Al6S	ATOM	25815	C6 CYT	309	133.072	63.191	-5.595	1.00	34.42	Al6	
ATOM	25763	O3' CYT	306	124.967	72.216	-6.951	1.00	43.27	Al6S	ATOM	25816	C2 CYT	309	134.299	63.225	-3.534	1.00	34.42	Al6	
ATOM	25764	P	CYT	307	125.201	70.645	-6.779	1.00	43.68	Al6S	ATOM	25817	O2 CYT	309	135.381	63.122	-2.950	1.00	34.42	Al6
ATOM	25765	O1P CYT	307	124.119	69.948	-7.544	1.00	28.81	Al6S	ATOM	25818	N3 CYT	309	133.169	63.516	-2.866	1.00	34.42	Al6	
ATOM	25766	O2P CYT	307	125.381	70.393	-5.320	1.00	28.81	Al6S	ATOM	25819	C4 CYT	309	132.020	63.641	-3.527	1.00	34.42	Al6	
ATOM	25767	O5' CYT	307	126.587	70.381	-7.500	1.00	43.68	Al6S	ATOM	25820	N4 CYT	309	130.925	63.916	-2.820	1.00	34.42	Al6	
ATOM	25768	C5' CYT	307	126.708	70.582	-8.904	1.00	43.68	Al6S	ATOM	25821	C5 CYT	309	131.943	63.487	-4.944	1.00	40.62	Al6	
ATOM	25769	C4' CYT	307	128.152	70.600	-9.294	1.00	43.68	Al6S	ATOM	25822	C2' CYT	309	135.766	61.156	-5.502	1.00	40.62	Al6	
ATOM	25770	O4' CYT	307	128.847	71.579	-8.480	1.00	43.68	Al6S	ATOM	25823	O2' CYT	309	137.165	60.947	-5.400	1.00	40.62	Al6	
ATOM	25771	C1' CYT	307	130.167	71.140	-8.234	1.00	43.68	Al6S	ATOM	25824	C3' CYT	309	135.174	59.376	-7.174	1.00	40.62	Al6	
ATOM	25772	N1 CYT	307	130.343	70.968	-6.785	1.00	28.81	Al6S	ATOM	25825	O3' CYT	309	135.748	58.009	-6.768	1.00	52.75	Al6	
ATOM	25773	C6 CYT	307	129.285	71.073	-5.927	1.00	28.81	Al6S	ATOM	25826	P	ADE	310	135.015	58.009	-6.768	1.00	52.75	Al6
ATOM	25774	C2 CYT	307	131.624	70.673	-6.297	1.00	28.81	Al6S	ATOM	25827	O1P ADE	310	135.656	56.930	-7.577	1.00	39.96	Al6	
ATOM	25775	O2 CYT	307	132.572	70.576	-7.102	1.00	28.81	Al6S	ATOM	25828	O2P ADE	310	133.543	58.196	-6.832	1.00	39.96	Al6	
ATOM	25776	N3 CYT	307	131.794	70.488	-4.971	1.00	28.81	Al6S	ATOM	25829	O5' ADE	310	135.407	57.815	-5.243	1.00	52.75	Al6	

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ATOM	25830	C5' ADE	310	136.773	57.899	-4.824	1.00	52.75	A16S	ATOM	25883	N2 GUA	312	141.643	49.231	-11.950	1.00	49.71	A1'
ATOM	25831	C4' ADE	310	136.865	57.652	-3.345	1.00	52.75	A16S	ATOM	25884	N1 GUA	312	140.460	49.256	-9.990	1.00	49.71	A1'
ATOM	25832	C4' ADE	310	136.089	58.673	-2.665	1.00	52.75	A16S	ATOM	25885	C6 GUA	312	140.023	49.753	-8.772	1.00	49.71	A1'
ATOM	25833	C1' ADE	310	135.114	58.064	-1.857	1.00	52.75	A16S	ATOM	25886	C5 GUA	312	139.169	49.141	-8.128	1.00	49.71	A1'
ATOM	25834	N9 ADE	310	133.924	58.915	-1.828	1.00	39.96	A16S	ATOM	25887	O6 GUA	312	140.654	50.966	-8.450	1.00	49.71	A1'
ATOM	25835	C4 ADE	310	133.511	59.674	-0.761	1.00	39.96	A16S	ATOM	25888	N7 GUA	312	140.512	51.776	-7.335	1.00	49.71	A1'
ATOM	25836	N3 ADE	310	134.133	59.831	0.419	1.00	39.96	A16S	ATOM	25889	C8 GUA	312	141.320	52.774	-7.556	1.00	49.71	A1'
ATOM	25837	C2 ADE	310	133.412	60.606	1.226	1.00	39.96	A16S	ATOM	25890	C2' GUA	312	142.220	54.507	-10.392	1.00	50.46	A1'
ATOM	25838	N1 ADE	310	132.228	61.196	1.001	1.00	39.96	A16S	ATOM	25891	O2' GUA	312	143.157	54.891	-11.366	1.00	50.46	A1'
ATOM	25839	C6 ADE	310	131.637	61.015	-0.198	1.00	39.96	A16S	ATOM	25892	C3' GUA	312	141.747	55.699	-9.579	1.00	50.46	A1'
ATOM	25840	C5 ADE	310	130.456	61.582	-0.425	1.00	39.96	A16S	ATOM	25893	O3' GUA	312	141.564	56.842	-10.380	1.00	50.46	A1'
ATOM	25841	C5 ADE	310	132.302	60.227	-1.140	1.00	39.96	A16S	ATOM	25894	P GUA	313	140.150	57.074	-11.105	1.00	54.04	A1'
ATOM	25842	N7 ADE	310	131.979	59.864	-2.436	1.00	39.96	A16S	ATOM	25895	O1P GUA	313	140.290	58.325	-11.913	1.00	58.88	A1'
ATOM	25843	C8 ADE	310	132.977	59.097	-2.803	1.00	39.96	A16S	ATOM	25896	O2P GUA	313	139.063	56.972	-10.077	1.00	58.88	A1'
ATOM	25844	C2' ADE	310	134.898	56.665	-2.438	1.00	52.75	A16S	ATOM	25897	O5' GUA	313	140.021	55.840	-12.109	1.00	54.04	A1'
ATOM	25845	O2' ADE	310	134.390	55.765	-1.475	1.00	52.75	A16S	ATOM	25898	C5' GUA	313	140.825	55.781	-13.292	1.00	54.04	A1'
ATOM	25846	C3' ADE	310	136.308	56.306	-2.890	1.00	52.75	A16S	ATOM	25899	C4' GUA	313	140.431	54.608	-14.143	1.00	54.04	A1'
ATOM	25847	O3' ADE	310	137.076	55.815	-1.773	1.00	52.75	A16S	ATOM	25900	O4' GUA	313	140.767	53.373	-13.462	1.00	54.04	A1'
ATOM	25848	P GUA	311	137.465	54.251	-1.673	1.00	61.67	A16S	ATOM	25901	C1' GUA	313	139.885	52.347	-13.887	1.00	54.04	A1'
ATOM	25849	O1P GUA	311	136.663	53.515	-2.688	1.00	55.26	A16S	ATOM	25902	N9 GUA	313	139.176	51.807	-12.731	1.00	58.88	A1'
ATOM	25850	C2' GUA	311	137.395	53.846	-0.248	1.00	55.26	A16S	ATOM	25903	C4 GUA	313	138.448	50.637	-12.708	1.00	58.88	A1'
ATOM	25851	O5' GUA	311	138.996	54.194	-2.119	1.00	61.67	A16S	ATOM	25904	N3 GUA	313	138.292	49.781	-13.739	1.00	58.88	A1'
ATOM	25852	C5' GUA	311	139.988	55.059	-1.523	1.00	61.67	A16S	ATOM	25905	C2 GUA	313	137.531	48.754	-13.419	1.00	58.88	A1'
ATOM	25853	C4' GUA	311	141.334	54.849	-2.190	1.00	61.67	A16S	ATOM	25906	N2 GUA	313	137.285	47.810	-14.332	1.00	58.88	A1'
ATOM	25854	O4' GUA	311	141.869	53.559	-1.801	1.00	61.67	A16S	ATOM	25907	N1 GUA	313	136.961	48.575	-12.185	1.00	58.88	A1'
ATOM	25855	C1' GUA	311	142.557	52.970	-2.898	1.00	61.67	A16S	ATOM	25908	C6 GUA	313	137.104	49.437	-11.108	1.00	58.88	A1'
ATOM	25856	N9 GUA	311	141.845	51.749	-3.274	1.00	55.26	A16S	ATOM	25909	O6 GUA	313	136.548	49.177	-10.037	1.00	58.88	A1'
ATOM	25857	C4 GUA	311	142.100	50.941	-4.359	1.00	55.26	A16S	ATOM	25910	C5 GUA	313	137.927	50.554	-11.439	1.00	58.88	A1'
ATOM	25858	N3 GUA	311	143.097	51.103	-5.252	1.00	55.26	A16S	ATOM	25911	N7 GUA	313	138.325	51.643	-10.673	1.00	58.88	A1'
ATOM	25859	C2 GUA	311	143.082	50.163	-6.184	1.00	55.26	A16S	ATOM	25912	C8 GUA	313	139.067	52.354	-11.478	1.00	58.88	A1'
ATOM	25860	N2 GUA	311	144.029	50.155	-7.134	1.00	55.26	A16S	ATOM	25913	C2' GUA	313	138.899	52.968	-14.874	1.00	54.04	A1'
ATOM	25861	N1 GUA	311	142.144	49.160	-6.245	1.00	55.26	A16S	ATOM	25914	O2' GUA	313	139.356	52.767	-16.196	1.00	54.04	A1'
ATOM	25862	C6 GUA	311	141.103	48.984	-5.337	1.00	55.26	A16S	ATOM	25915	C3' GUA	313	138.960	54.433	-14.478	1.00	54.04	A1'
ATOM	25863	O6 GUA	311	140.299	48.053	-5.484	1.00	55.26	A16S	ATOM	25916	O3' GUA	313	138.494	55.253	-15.533	1.00	54.04	A1'
ATOM	25864	C5 GUA	311	141.126	49.966	-4.326	1.00	55.26	A16S	ATOM	25917	P GUA	314	136.954	55.720	-15.537	1.00	54.04	A1'
ATOM	25865	N7 GUA	311	140.297	50.136	-3.230	1.00	55.26	A16S	ATOM	25918	O1P GUA	314	136.776	56.710	-16.636	1.00	59.45	A1'
ATOM	25866	C8 GUA	311	140.763	51.197	-2.632	1.00	55.26	A16S	ATOM	25919	O2P GUA	314	136.625	56.101	-14.137	1.00	59.45	A1'
ATOM	25867	C2' GUA	311	142.573	53.995	-4.035	1.00	61.67	A16S	ATOM	25920	O5' GUA	314	136.124	54.412	-15.914	1.00	64.00	A1'
ATOM	25868	O2' GUA	311	143.782	54.732	-3.982	1.00	61.67	A16S	ATOM	25921	C5' GUA	314	136.151	53.915	-17.251	1.00	64.00	A1'
ATOM	25869	C3' GUA	311	141.336	54.827	-3.715	1.00	61.67	A16S	ATOM	25922	C4' GUA	314	135.510	52.553	-17.338	1.00	64.00	A1'
ATOM	25870	O3' GUA	311	141.411	56.132	-4.268	1.00	61.67	A16S	ATOM	25923	O4' GUA	314	136.093	51.656	-16.356	1.00	64.00	A1'
ATOM	25871	P GUA	312	140.487	56.523	-5.523	1.00	50.46	A16S	ATOM	25924	C1' GUA	314	135.152	50.651	-16.008	1.00	64.00	A1'
ATOM	25872	O1P GUA	312	140.503	58.007	-5.611	1.00	49.71	A16S	ATOM	25925	N9 GUA	314	134.875	50.722	-14.576	1.00	59.45	A1'
ATOM	25873	O2P GUA	312	139.189	55.809	-5.432	1.00	49.71	A16S	ATOM	25926	C4 GUA	314	134.204	49.776	-13.837	1.00	59.45	A1'
ATOM	25874	O5' GUA	312	141.255	55.928	-6.782	1.00	50.46	A16S	ATOM	25927	N3 GUA	314	133.739	48.596	-14.295	1.00	59.45	A1'
ATOM	25875	C5' GUA	312	142.438	56.560	-7.297	1.00	50.46	A16S	ATOM	25928	C2 GUA	314	133.124	47.908	-13.351	1.00	59.45	A1'
ATOM	25876	C4' GUA	312	142.865	55.884	-8.574	1.00	50.46	A16S	ATOM	25929	N2 GUA	314	132.628	46.697	-13.625	1.00	59.45	A1'
ATOM	25877	O4' GUA	312	143.322	54.533	-8.290	1.00	50.46	A16S	ATOM	25930	N1 GUA	314	132.957	48.352	-12.067	1.00	59.45	A1'
ATOM	25878	C1' GUA	312	142.907	53.654	-9.326	1.00	50.46	A16S	ATOM	25931	C6 GUA	314	133.416	49.566	-11.576	1.00	59.45	A1'
ATOM	25879	N9 GUA	312	141.980	52.678	-8.758	1.00	49.71	A16S	ATOM	25932	O6 GUA	314	133.195	49.877	-10.402	1.00	59.45	A1'
ATOM	25880	C4 GUA	312	141.566	51.499	-9.332	1.00	49.71	A16S	ATOM	25933	C5 GUA	314	134.102	50.306	-12.572	1.00	59.45	A1'
ATOM	25881	N3 GUA	312	141.971	51.007	-10.517	1.00	49.71	A16S	ATOM	25934	N7 GUA	314	134.724	51.544	-12.504	1.00	59.45	A1'
ATOM	25882	C2 GUA	312	141.373	49.863	-10.803	1.00	49.71	A16S	ATOM	25935	C8 GUA	314	135.175	51.746	-13.712	1.00	59.45	A1'

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ATOM	25936	C2' GUA	314	133.875	50.950	-16.789	1.00	64.00	Al6S	ATOM	25989	Cl' CYT	317	121.138	46.588	-10.604	1.00	47.17	Al6
ATOM	25937	O2' GUA	314	133.856	50.179	-17.976	1.00	64.00	Al6S	ATOM	25990	N1 CYT	317	121.606	47.940	-10.267	1.00	44.63	Al6
ATOM	25938	O3' GUA	314	134.026	52.439	-17.064	1.00	64.00	Al6S	ATOM	25991	C6 CYT	317	121.756	48.886	-11.242	1.00	44.63	Al6
ATOM	25939	O3' GUA	314	133.219	52.849	-18.152	1.00	64.00	Al6S	ATOM	25992	C2 CYT	317	121.904	48.251	-8.917	1.00	44.63	Al6
ATOM	25940	P CYT	315	131.725	53.375	-17.860	1.00	53.18	Al6S	ATOM	25993	O2 CYT	317	121.752	47.379	-8.036	1.00	44.63	Al6
ATOM	25941	O1P CYT	315	131.110	53.730	-19.164	1.00	42.59	Al6S	ATOM	25994	N3 CYT	317	122.342	49.496	-8.613	1.00	44.63	Al6
ATOM	25942	O2P CYT	315	131.754	54.389	-16.745	1.00	42.59	Al6S	ATOM	25995	C4 CYT	317	122.475	50.412	-9.577	1.00	44.63	Al6
ATOM	25943	O5' CYT	315	130.974	52.073	-17.320	1.00	53.18	Al6S	ATOM	25996	N4 CYT	317	122.887	51.635	-9.227	1.00	44.63	Al6
ATOM	25944	C5' CYT	315	130.918	50.874	-18.110	1.00	53.18	Al6S	ATOM	25997	C5 CYT	317	122.184	50.119	-10.946	1.00	44.63	Al6
ATOM	25945	C4' CYT	315	130.156	49.794	-17.380	1.00	53.18	Al6S	ATOM	25998	C2' CYT	317	119.626	46.414	-10.463	1.00	47.17	Al6
ATOM	25946	O1' CYT	315	130.849	49.418	-16.175	1.00	53.18	Al6S	ATOM	25999	O2' CYT	317	119.378	45.142	-9.916	1.00	47.17	Al6
ATOM	25947	C1' CYT	315	129.912	48.927	-15.237	1.00	53.18	Al6S	ATOM	26000	C3' CYT	317	119.159	46.561	-11.905	1.00	47.17	Al6
ATOM	25948	N1 CYT	315	130.042	49.667	-13.982	1.00	42.59	Al6S	ATOM	26001	O3' CYT	317	117.954	45.850	-12.187	1.00	47.17	Al6
ATOM	25949	C6 CYT	315	130.438	50.972	-13.963	1.00	42.59	Al6S	ATOM	26002	P URI	318	116.556	46.637	-12.237	1.00	38.54	Al6
ATOM	25950	C2 CYT	315	129.716	49.016	-12.805	1.00	42.59	Al6S	ATOM	26003	O1P URI	318	115.518	45.662	-12.679	1.00	57.60	Al6
ATOM	25951	O2 CYT	315	129.390	47.824	-12.857	1.00	42.59	Al6S	ATOM	26004	O2P URI	318	116.756	47.894	-13.001	1.00	57.60	Al6
ATOM	25952	N3 CYT	315	129.757	49.693	-11.644	1.00	42.59	Al6S	ATOM	26005	O5' URI	318	116.326	47.022	-10.711	1.00	38.54	Al6
ATOM	25953	C4 CYT	315	130.108	50.975	-11.637	1.00	42.59	Al6S	ATOM	26006	C5' URI	318	116.306	45.991	-9.727	1.00	38.54	Al6
ATOM	25954	N4 CYT	315	130.095	51.616	-10.478	1.00	42.59	Al6S	ATOM	26007	C4' URI	318	116.284	46.573	-8.350	1.00	38.54	Al6
ATOM	25955	C5 CYT	315	130.478	51.658	-12.822	1.00	42.59	Al6S	ATOM	26008	O4' URI	318	117.579	47.107	-8.007	1.00	38.54	Al6
ATOM	25956	C2' CYT	315	128.511	49.123	-15.806	1.00	53.18	Al6S	ATOM	26009	C1' URI	318	117.419	48.229	-7.155	1.00	38.54	Al6
ATOM	25957	O2' CYT	315	127.996	47.904	-16.289	1.00	53.18	Al6S	ATOM	26010	N1 URI	318	118.038	49.390	-7.818	1.00	57.60	Al6
ATOM	25958	C3' CYT	315	128.763	50.145	-16.897	1.00	53.18	Al6S	ATOM	26011	C6 URI	318	118.173	49.433	-9.185	1.00	57.60	Al6
ATOM	25959	O3' CYT	315	127.806	50.003	-17.916	1.00	53.18	Al6S	ATOM	26012	C2 URI	318	118.482	50.440	-7.033	1.00	57.60	Al6
ATOM	25960	P ADE	316	126.688	51.122	-18.086	1.00	52.23	Al6S	ATOM	26013	O2 URI	318	118.394	50.442	-5.825	1.00	57.60	Al6
ATOM	25961	O1P ADE	316	126.176	51.025	-19.486	1.00	53.27	Al6S	ATOM	26014	N3 URI	318	119.039	51.488	-7.722	1.00	57.60	Al6
ATOM	25962	O2P ADE	316	127.268	52.399	-17.597	1.00	53.27	Al6S	ATOM	26015	C4 URI	318	119.204	51.589	-9.084	1.00	57.60	Al6
ATOM	25963	O5' ADE	316	125.563	50.701	-17.042	1.00	52.23	Al6S	ATOM	26016	O4 URI	318	119.771	52.574	-9.561	1.00	57.60	Al6
ATOM	25964	C5' ADE	316	124.519	49.789	-17.407	1.00	52.23	Al6S	ATOM	26017	C5 URI	318	118.724	50.466	-9.823	1.00	57.60	Al6
ATOM	25965	C4' ADE	316	124.325	48.762	-16.324	1.00	52.23	Al6S	ATOM	26018	C2' URI	318	115.915	48.394	-6.908	1.00	38.54	Al6
ATOM	25966	O4' ADE	316	125.468	48.778	-15.430	1.00	52.23	Al6S	ATOM	26019	O2' URI	318	115.565	47.678	-5.747	1.00	38.54	Al6
ATOM	25967	C1' ADE	316	125.056	48.407	-14.134	1.00	52.23	Al6S	ATOM	26020	C3' URI	318	115.331	47.723	-8.137	1.00	38.54	Al6
ATOM	25968	N9 ADE	316	125.484	49.425	-13.173	1.00	53.27	Al6S	ATOM	26021	O3' URI	318	114.029	47.243	-7.942	1.00	38.54	Al6
ATOM	25969	C4 ADE	316	125.474	49.261	-11.808	1.00	53.27	Al6S	ATOM	26022	P GUA	319	112.796	48.084	-8.500	1.00	40.24	Al6
ATOM	25970	N3 ADE	316	125.071	48.177	-11.123	1.00	53.27	Al6S	ATOM	26023	O1P GUA	319	111.644	47.168	-8.724	1.00	61.48	Al6
ATOM	25971	C2 ADE	316	125.200	48.371	-9.816	1.00	53.27	Al6S	ATOM	26024	O2P GUA	319	113.274	48.943	-9.611	1.00	61.48	Al6
ATOM	25972	N1 ADE	316	125.653	49.438	-9.163	1.00	53.27	Al6S	ATOM	26025	O5' GUA	319	112.459	48.988	-7.250	1.00	40.24	Al6
ATOM	25973	C6 ADE	316	126.047	50.513	-9.874	1.00	53.27	Al6S	ATOM	26026	C5' GUA	319	111.987	50.314	-7.413	1.00	40.24	Al6
ATOM	25974	N6 ADE	316	126.493	51.575	-9.208	1.00	53.27	Al6S	ATOM	26027	C4' GUA	319	112.652	51.211	-6.408	1.00	40.24	Al6
ATOM	25975	C5 ADE	316	125.959	50.438	-11.279	1.00	53.27	Al6S	ATOM	26028	O4' GUA	319	114.086	51.052	-6.501	1.00	40.24	Al6
ATOM	25976	N7 ADE	316	126.268	51.338	-12.290	1.00	53.27	Al6S	ATOM	26029	C1' GUA	319	114.704	52.324	-6.543	1.00	40.24	Al6
ATOM	25977	C8 ADE	316	125.968	50.691	-13.391	1.00	53.27	Al6S	ATOM	26030	N9 GUA	319	115.176	52.530	-7.914	1.00	61.48	Al6
ATOM	25978	C2' ADE	316	123.545	48.167	-14.169	1.00	52.23	Al6S	ATOM	26031	C4 GUA	319	116.079	53.469	-8.352	1.00	61.48	Al6
ATOM	25979	O2' ADE	316	123.345	46.777	-14.310	1.00	52.23	Al6S	ATOM	26032	N3 GUA	319	116.717	54.376	-7.585	1.00	61.48	Al6
ATOM	25980	C3' ADE	316	123.124	48.946	-15.413	1.00	52.23	Al6S	ATOM	26033	C2 GUA	319	117.496	55.159	-8.299	1.00	61.48	Al6
ATOM	25981	O3' ADE	316	121.957	48.400	-16.033	1.00	52.23	Al6S	ATOM	26034	N2 GUA	319	118.199	56.121	-7.694	1.00	61.48	Al6
ATOM	25982	P CYT	317	120.482	48.768	-15.475	1.00	47.17	Al6S	ATOM	26035	N1 GUA	319	117.638	55.058	-9.657	1.00	61.48	Al6
ATOM	25983	O1P CYT	317	119.521	48.207	-16.468	1.00	44.63	Al6S	ATOM	26036	C6 GUA	319	116.991	54.125	-10.465	1.00	61.48	Al6
ATOM	25984	O2P CYT	317	120.385	50.202	-15.117	1.00	44.63	Al6S	ATOM	26037	O6 GUA	319	117.184	54.114	-11.689	1.00	61.48	Al6
ATOM	25985	O5' CYT	317	120.377	47.948	-14.110	1.00	47.17	Al6S	ATOM	26038	C5 GUA	319	116.160	53.287	-9.717	1.00	61.48	Al6
ATOM	25986	C5' CYT	317	120.442	46.508	-14.107	1.00	47.17	Al6S	ATOM	26039	N7 GUA	319	115.346	52.245	-10.129	1.00	61.48	Al6
ATOM	25987	C4' CYT	317	120.315	45.983	-12.700	1.00	47.17	Al6S	ATOM	26040	C8 GUA	319	114.784	51.824	-9.032	1.00	61.48	Al6
ATOM	25988	O4' CYT	317	121.495	46.314	-11.943	1.00	47.17	Al6S	ATOM	26041	C2' GUA	319	113.638	53.338	-6.117	1.00	40.24	Al6

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ATOM	26042	O2' GUA	319	113.609	53.400	-4.708	1.00	40.24	A16S	ATOM	26095	C4' ADE	322	121.809	58.644	-7.755	1.00	49.53	A16
ATOM	26043	C3' GUA	319	112.376	52.680	-6.644	1.00	40.24	A16S	ATOM	26096	O4' ADE	322	121.597	57.674	-6.702	1.00	49.53	A16
ATOM	26044	O3' GUA	319	111.223	53.033	-5.908	1.00	40.24	A16S	ATOM	26097	C1' ADE	322	122.266	56.478	-7.015	1.00	49.53	A16
ATOM	26045	P ADE	320	109.919	53.568	-6.671	1.00	53.63	A16S	ATOM	26098	N9 ADE	322	121.479	55.367	-6.475	1.00	45.10	A16
ATOM	26046	O1P ADE	320	109.726	52.816	-7.934	1.00	41.77	A16S	ATOM	26099	C4 ADE	322	121.442	55.003	-5.153	1.00	45.10	A16
ATOM	26047	O2P ADE	320	108.845	53.563	-5.643	1.00	41.77	A16S	ATOM	26100	N3 ADE	322	122.090	55.581	-4.128	1.00	45.10	A16
ATOM	26048	O5' ADE	320	110.303	55.075	-7.028	1.00	53.63	A16S	ATOM	26101	C2 ADE	322	121.825	54.948	-2.989	1.00	45.10	A16
ATOM	26049	C5' ADE	320	109.575	55.827	-8.019	1.00	53.63	A16S	ATOM	26102	N1 ADE	322	121.054	53.882	-2.778	1.00	45.10	A16
ATOM	26050	C4' ADE	320	110.069	57.254	-8.047	1.00	53.63	A16S	ATOM	26103	C6 ADE	322	120.422	53.328	-3.832	1.00	45.10	A16
ATOM	26051	O4' ADE	320	109.789	57.888	-6.777	1.00	53.63	A16S	ATOM	26104	N6 ADE	322	119.665	52.259	-3.629	1.00	45.10	A16
ATOM	26052	O1' ADE	320	110.832	58.786	-6.453	1.00	53.63	A16S	ATOM	26105	C5 ADE	322	120.608	53.909	-5.087	1.00	45.10	A16
ATOM	26053	N9 ADE	320	111.347	58.449	-5.128	1.00	41.77	A16S	ATOM	26106	N7 ADE	322	120.116	53.592	-6.341	1.00	45.10	A16
ATOM	26054	C4 ADE	320	111.996	59.312	-4.281	1.00	41.77	A16S	ATOM	26107	C8 ADE	322	120.659	54.485	-7.126	1.00	45.10	A16
ATOM	26055	N3 ADE	320	112.331	60.598	-4.523	1.00	41.77	A16S	ATOM	26108	O2' ADE	322	122.470	56.486	-8.529	1.00	49.53	A16
ATOM	26056	C2 ADE	320	112.909	61.135	-3.451	1.00	41.77	A16S	ATOM	26109	C2' ADE	322	123.576	55.686	-8.897	1.00	49.53	A16
ATOM	26057	N1 ADE	320	113.163	60.593	-2.255	1.00	41.77	A16S	ATOM	26110	C3' ADE	322	122.690	57.973	-8.801	1.00	49.53	A16
ATOM	26058	C6 ADE	320	112.809	59.307	-2.045	1.00	41.77	A16S	ATOM	26111	O3' ADE	322	124.062	58.335	-8.588	1.00	49.53	A16
ATOM	26059	N6 ADE	320	113.040	58.779	-0.847	1.00	41.77	A16S	ATOM	26112	P CYT	323	124.738	59.457	-9.522	1.00	50.98	A16
ATOM	26060	C5 ADE	320	112.204	58.610	-3.109	1.00	41.77	A16S	ATOM	26113	O1P CYT	323	124.597	60.758	-8.842	1.00	43.29	A16
ATOM	26061	N7 ADE	320	111.742	57.305	-3.232	1.00	41.77	A16S	ATOM	26114	O2P CYT	323	124.222	59.291	-10.909	1.00	43.29	A16
ATOM	26062	C8 ADE	320	111.253	57.259	-4.450	1.00	41.77	A16S	ATOM	26115	O5' CYT	323	126.281	59.100	-9.524	1.00	50.98	A16
ATOM	26063	C2' ADE	320	111.873	58.737	-7.567	1.00	53.63	A16S	ATOM	26116	C5' CYT	323	126.849	58.370	-10.625	1.00	50.98	A16
ATOM	26064	O2' ADE	320	111.666	59.813	-8.454	1.00	53.63	A16S	ATOM	26117	C4' CYT	323	126.644	56.898	-10.409	1.00	50.98	A16
ATOM	26065	C3' ADE	320	111.570	57.396	-8.215	1.00	53.63	A16S	ATOM	26118	O4' CYT	323	125.495	56.414	-11.128	1.00	50.98	A16
ATOM	26066	O3' ADE	320	111.938	57.389	-9.580	1.00	53.63	A16S	ATOM	26119	C1' CYT	323	125.559	55.018	-11.060	1.00	50.98	A16
ATOM	26067	P GUA	321	113.283	56.635	-10.028	1.00	51.42	A16S	ATOM	26120	N1 CYT	323	124.603	54.424	-12.018	1.00	43.29	A16
ATOM	26068	O1P GUA	321	113.366	56.716	-11.524	1.00	51.42	A16S	ATOM	26121	C6 CYT	323	123.339	54.087	-11.618	1.00	43.29	A16
ATOM	26069	O2P GUA	321	113.283	55.299	-9.353	1.00	51.42	A16S	ATOM	26122	C2 CYT	323	125.010	54.180	-13.326	1.00	43.29	A16
ATOM	26070	O5' GUA	321	114.457	57.510	-9.397	1.00	51.95	A16S	ATOM	26123	O2 CYT	323	126.160	54.498	-13.664	1.00	43.29	A16
ATOM	26071	C5' GUA	321	114.666	58.866	-9.818	1.00	51.95	A16S	ATOM	26124	N3 CYT	323	124.152	53.598	-14.189	1.00	43.29	A16
ATOM	26072	C4' GUA	321	115.468	59.611	-8.789	1.00	51.95	A16S	ATOM	26125	C4 CYT	323	122.932	53.259	-13.790	1.00	43.29	A16
ATOM	26073	O4' GUA	321	114.781	59.541	-7.522	1.00	51.95	A16S	ATOM	26126	N4 CYT	323	122.132	52.681	-14.684	1.00	43.29	A16
ATOM	26074	C1' GUA	321	115.718	59.524	-6.468	1.00	51.95	A16S	ATOM	26127	C5 CYT	323	122.479	53.500	-12.460	1.00	43.29	A16
ATOM	26075	N9 GUA	321	115.374	58.418	-5.575	1.00	51.42	A16S	ATOM	26128	C2' CYT	323	127.044	54.664	-11.240	1.00	50.98	A16
ATOM	26076	C4 GUA	321	115.646	58.316	-4.229	1.00	51.42	A16S	ATOM	26129	O2' CYT	323	127.425	53.581	-10.435	1.00	50.98	A16
ATOM	26077	N3 GUA	321	116.293	59.227	-3.477	1.00	51.42	A16S	ATOM	26130	C3' CYT	323	127.750	55.977	-10.892	1.00	50.98	A16
ATOM	26078	C2 GUA	321	116.396	58.844	-2.213	1.00	51.42	A16S	ATOM	26131	O3' CYT	323	128.880	55.920	-9.988	1.00	50.98	A16
ATOM	26079	N2 GUA	321	117.006	59.635	-1.320	1.00	51.42	A16S	ATOM	26132	P ADE	324	128.723	55.450	-8.435	1.00	55.66	A16
ATOM	26080	N1 GUA	321	115.907	57.663	-1.781	1.00	51.42	A16S	ATOM	26133	O1P ADE	324	129.709	56.312	-7.719	1.00	50.85	A16
ATOM	26081	C6 GUA	321	115.231	56.712	-2.485	1.00	51.42	A16S	ATOM	26134	O2P ADE	324	128.814	53.973	-8.291	1.00	50.85	A16
ATOM	26082	O6 GUA	321	114.815	55.672	-1.943	1.00	51.42	A16S	ATOM	26135	O5' ADE	324	127.277	55.904	-7.929	1.00	55.66	A16
ATOM	26083	C5 GUA	321	115.115	57.109	-3.840	1.00	51.42	A16S	ATOM	26136	C5' ADE	324	127.126	57.024	-7.004	1.00	55.66	A16
ATOM	26084	N7 GUA	321	114.520	56.464	-4.911	1.00	51.42	A16S	ATOM	26137	C4' ADE	324	126.631	56.547	-5.649	1.00	55.66	A16
ATOM	26085	C8 GUA	321	114.696	57.274	-5.915	1.00	51.42	A16S	ATOM	26138	O4' ADE	324	125.373	55.884	-5.828	1.00	55.66	A16
ATOM	26086	C2' GUA	321	117.125	59.538	-7.086	1.00	51.95	A16S	ATOM	26139	C1' ADE	324	125.194	54.983	-4.774	1.00	55.66	A16
ATOM	26087	O2' GUA	321	117.630	60.862	-7.044	1.00	51.95	A16S	ATOM	26140	N9 ADE	324	124.480	53.820	-5.270	1.00	50.85	A16
ATOM	26088	C3' GUA	321	116.862	59.077	-8.520	1.00	51.95	A16S	ATOM	26141	C4 ADE	324	123.930	52.849	-4.478	1.00	50.85	A16
ATOM	26089	O3' GUA	321	117.759	59.700	-9.445	1.00	51.95	A16S	ATOM	26142	N3 ADE	324	123.953	52.788	-3.136	1.00	50.85	A16
ATOM	26090	P ADE	322	118.838	58.825	-10.260	1.00	49.53	A16S	ATOM	26143	C2 ADE	324	123.299	51.720	-2.711	1.00	50.85	A16
ATOM	26091	O1P ADE	322	119.576	59.800	-11.082	1.00	45.10	A16S	ATOM	26144	N1 ADE	324	122.680	50.772	-3.422	1.00	50.85	A16
ATOM	26092	O2P ADE	322	118.185	57.674	-10.932	1.00	45.10	A16S	ATOM	26145	C6 ADE	324	122.692	50.860	-4.770	1.00	50.85	A16
ATOM	26093	O5' ADE	322	119.825	58.290	-9.126	1.00	49.53	A16S	ATOM	26146	N6 ADE	324	122.096	49.904	-5.486	1.00	50.85	A16
ATOM	26094	C5' ADE	322	120.484	59.209	-8.231	1.00	49.53	A16S	ATOM	26147	C5 ADE	324	123.341	51.953	-5.341	1.00	50.85	A16

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ATOM	26148	N7	ADE	324	123.521	52.349	-6.658	1.00	50.85	Al6S	ATOM	26201	CS'	GUA	327	127.479	49.138	1.410	1.00	40.63	Al
ATOM	26149	C8	ADE	324	124.204	53.458	-6.559	1.00	50.85	Al6S	ATOM	26202	C4'	GUA	327	126.672	48.290	0.484	1.00	40.63	Al
ATOM	26150	O2	ADE	324	126.558	54.634	-4.177	1.00	55.66	Al6S	ATOM	26203	O4'	GUA	327	125.734	49.121	-0.221	1.00	40.63	Al
ATOM	26151	O2'	ADE	324	126.561	54.811	-2.777	1.00	55.66	Al6S	ATOM	26204	C1'	GUA	327	125.481	48.570	-1.495	1.00	40.63	Al
ATOM	26152	C3'	ADE	324	127.525	55.527	-4.952	1.00	55.66	Al6S	ATOM	26205	N9	GUA	327	125.927	49.535	-2.493	1.00	54.43	Al
ATOM	26153	O3'	ADE	324	128.437	56.096	-3.994	1.00	55.66	Al6S	ATOM	26206	C4	GUA	327	125.718	49.461	-3.847	1.00	54.43	Al
ATOM	26154	P	CYT	325	128.237	57.606	-3.443	1.00	55.25	Al6S	ATOM	26207	N3	GUA	327	125.034	48.493	-4.489	1.00	54.43	Al
ATOM	26155	O1P	CYT	325	128.868	57.713	-2.877	1.00	53.33	Al6S	ATOM	26208	N2	GUA	327	125.021	48.686	-5.789	1.00	54.43	Al
ATOM	26156	O2P	CYT	325	128.690	58.585	-4.462	1.00	53.33	Al6S	ATOM	26209	C2	GUA	327	124.376	47.827	-6.585	1.00	54.43	Al
ATOM	26157	O5'	CYT	325	129.258	57.685	-2.231	1.00	55.25	Al6S	ATOM	26210	N1	GUA	327	125.637	49.741	-6.407	1.00	54.43	Al
ATOM	26158	O6'	CYT	325	129.176	56.733	-1.178	1.00	55.25	Al6S	ATOM	26211	C6	GUA	327	126.348	50.746	-5.765	1.00	54.43	Al
ATOM	26159	O4'	CYT	325	130.524	56.127	-0.903	1.00	55.25	Al6S	ATOM	26212	O6	GUA	327	126.876	51.651	-6.423	1.00	54.43	Al
ATOM	26160	O4'	CYT	325	131.421	57.163	-0.424	1.00	55.25	Al6S	ATOM	26213	C5	GUA	327	126.360	50.558	-4.374	1.00	54.43	Al
ATOM	26161	C1'	CYT	325	132.049	56.743	0.775	1.00	55.25	Al6S	ATOM	26214	N7	GUA	327	126.942	51.320	-3.371	1.00	54.43	Al
ATOM	26162	N1	CYT	325	131.404	57.469	1.886	1.00	53.33	Al6S	ATOM	26215	C8	GUA	327	126.658	50.679	-2.274	1.00	54.43	Al
ATOM	26163	C6	CYT	325	130.223	58.134	1.691	1.00	53.33	Al6S	ATOM	26216	C2'	GUA	327	126.277	47.269	-1.596	1.00	40.63	Al
ATOM	26164	C2	CYT	325	132.000	57.457	3.145	1.00	53.33	Al6S	ATOM	26217	O2'	GUA	327	125.479	46.177	-1.201	1.00	40.63	Al
ATOM	26165	O2	CYT	325	133.074	56.848	3.299	1.00	53.33	Al6S	ATOM	26218	C3'	GUA	327	127.397	47.518	-0.599	1.00	40.63	Al
ATOM	26166	N3	CYT	325	131.388	58.101	4.170	1.00	53.33	Al6S	ATOM	26219	O3'	GUA	327	127.977	46.292	-0.171	1.00	40.63	Al
ATOM	26167	C4	CYT	325	130.221	58.721	3.968	1.00	53.33	Al6S	ATOM	26220	P	GUA	328	129.148	45.610	-1.058	1.00	40.77	Al
ATOM	26168	N4	CYT	325	129.629	59.303	5.011	1.00	53.33	Al6S	ATOM	26221	O1P	GUA	328	129.498	44.321	-0.398	1.00	49.01	Al
ATOM	26169	C5	CYT	325	129.604	58.762	2.693	1.00	53.33	Al6S	ATOM	26222	O2P	GUA	328	130.217	46.619	-1.286	1.00	49.01	Al
ATOM	26170	C2'	CYT	325	131.812	55.235	0.891	1.00	55.25	Al6S	ATOM	26223	O5'	GUA	328	128.426	45.279	-2.443	1.00	40.77	Al
ATOM	26171	O2'	CYT	325	132.833	54.488	0.249	1.00	55.25	Al6S	ATOM	26224	C5'	GUA	328	127.427	44.254	-2.494	1.00	40.77	Al
ATOM	26172	C3'	CYT	325	130.455	55.109	0.219	1.00	55.25	Al6S	ATOM	26225	C4'	GUA	328	127.035	43.950	-3.918	1.00	40.77	Al
ATOM	26173	O3'	CYT	325	130.139	53.811	-0.255	1.00	55.25	Al6S	ATOM	26226	O4'	GUA	328	126.397	45.117	-4.485	1.00	40.77	Al
ATOM	26174	P	GUA	326	128.980	52.977	0.473	1.00	46.39	Al6S	ATOM	26227	C1'	GUA	328	126.716	45.219	-5.864	1.00	40.77	Al
ATOM	26175	O1P	GUA	326	128.966	51.614	-0.119	1.00	60.14	Al6S	ATOM	26228	N9	GUA	328	127.501	46.440	-6.030	1.00	49.01	Al
ATOM	26176	O2P	GUA	326	127.714	53.789	0.511	1.00	60.14	Al6S	ATOM	26229	C4	GUA	328	127.888	47.024	-7.208	1.00	49.01	Al
ATOM	26177	O5'	GUA	326	129.510	52.862	1.962	1.00	46.39	Al6S	ATOM	26230	N3	GUA	328	127.645	46.548	-8.440	1.00	49.01	Al
ATOM	26178	C5'	GUA	326	130.715	52.163	2.261	1.00	46.39	Al6S	ATOM	26231	C2	GUA	328	128.143	47.331	-9.372	1.00	49.01	Al
ATOM	26179	O4'	GUA	326	130.722	51.770	3.712	1.00	46.39	Al6S	ATOM	26232	N2	GUA	328	128.025	46.984	-10.651	1.00	49.01	Al
ATOM	26180	C4'	GUA	326	131.055	52.904	4.556	1.00	46.39	Al6S	ATOM	26233	C6	GUA	328	128.800	48.510	-9.112	1.00	49.01	Al
ATOM	26181	C1'	GUA	326	130.312	52.828	5.767	1.00	46.39	Al6S	ATOM	26234	N1	GUA	328	129.045	49.026	-7.841	1.00	49.01	Al
ATOM	26182	N9	GUA	326	129.427	53.990	5.851	1.00	60.14	Al6S	ATOM	26235	O6	GUA	328	129.615	50.121	-7.703	1.00	49.01	Al
ATOM	26183	C4	GUA	326	128.781	54.450	6.973	1.00	60.14	Al6S	ATOM	26236	C5	GUA	328	128.556	48.178	-6.843	1.00	49.01	Al
ATOM	26184	N3	GUA	326	128.856	53.915	8.209	1.00	60.14	Al6S	ATOM	26237	N8	GUA	328	128.618	48.300	-5.464	1.00	49.01	Al
ATOM	26185	C2	GUA	326	128.100	54.570	9.078	1.00	60.14	Al6S	ATOM	26238	C7	GUA	328	127.985	47.248	-5.022	1.00	49.01	Al
ATOM	26186	N2	GUA	326	128.046	54.174	10.353	1.00	60.14	Al6S	ATOM	26239	C2'	GUA	328	127.493	43.959	-6.240	1.00	40.77	Al
ATOM	26187	N1	GUA	326	127.340	55.663	8.759	1.00	60.14	Al6S	ATOM	26240	O2'	GUA	328	126.595	42.968	-6.708	1.00	40.77	Al
ATOM	26188	C6	GUA	326	127.249	56.229	7.492	1.00	60.14	Al6S	ATOM	26241	C3'	GUA	328	128.137	43.607	-4.906	1.00	40.77	Al
ATOM	26189	O6	GUA	326	126.526	57.213	7.305	1.00	60.14	Al6S	ATOM	26242	O3'	GUA	328	128.593	42.265	-4.828	1.00	40.77	Al
ATOM	26190	C5	GUA	326	128.050	55.536	6.552	1.00	60.14	Al6S	ATOM	26243	P	CYT	329	130.167	41.962	-5.004	1.00	48.25	Al
ATOM	26191	N7	GUA	326	128.235	55.761	5.198	1.00	60.14	Al6S	ATOM	26244	O1P	CYT	329	130.417	40.598	-4.497	1.00	59.30	Al
ATOM	26192	C8	GUA	326	129.059	54.824	4.826	1.00	60.14	Al6S	ATOM	26245	O2P	CYT	329	130.974	43.091	-4.470	1.00	59.30	Al
ATOM	26193	C2'	GUA	326	129.513	51.523	5.728	1.00	46.39	Al6S	ATOM	26246	O5'	CYT	329	130.336	41.940	-6.585	1.00	48.25	Al
ATOM	26194	O2'	GUA	326	130.266	50.513	6.364	1.00	46.39	Al6S	ATOM	26247	C5'	CYT	329	129.488	41.110	-7.385	1.00	48.25	Al
ATOM	26195	C3'	GUA	326	129.383	51.292	4.232	1.00	46.39	Al6S	ATOM	26248	C4'	CYT	329	129.757	41.339	-8.843	1.00	48.25	Al
ATOM	26196	O3'	GUA	326	129.180	49.948	3.900	1.00	46.39	Al6S	ATOM	26249	O4'	CYT	329	129.222	42.624	-9.250	1.00	48.25	Al
ATOM	26197	P	GUA	327	127.715	49.312	4.017	1.00	40.63	Al6S	ATOM	26250	C1'	CYT	329	130.057	43.191	-10.253	1.00	48.25	Al
ATOM	26198	O1P	GUA	327	126.656	50.358	4.012	1.00	54.43	Al6S	ATOM	26251	N1	CYT	329	130.589	44.480	-9.760	1.00	59.30	Al
ATOM	26199	O2P	GUA	327	127.789	48.352	5.147	1.00	54.43	Al6S	ATOM	26252	C6	CYT	329	130.788	44.694	-8.423	1.00	59.30	Al
ATOM	26200	O5'	GUA	327	127.579	48.480	2.672	1.00	40.63	Al6S	ATOM	26253	C2	CYT	329	130.905	45.485	-10.690	1.00	59.30	Al

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ATOM	26254	O2	CYT	329	130.691	45.282	-11.900	1.00	59.30	Al6S	ATOM	26307	C5'	CYT	332	144.917	43.866	-13.365	1.00	58.41	Al6S
ATOM	26255	N3	CYT	329	131.427	46.653	-10.247	1.00	59.30	Al6S	ATOM	26308	C4'	CYT	332	145.387	45.166	-12.766	1.00	58.41	Al6S
ATOM	26256	O4'	CYT	329	131.620	46.844	-8.943	1.00	59.30	Al6S	ATOM	26309	O4'	CYT	332	144.258	46.049	-12.537	1.00	58.41	Al6S
ATOM	26257	N4	CYT	329	132.132	48.003	-8.558	1.00	59.30	Al6S	ATOM	26310	C1'	CYT	332	144.507	46.857	-11.392	1.00	58.41	Al6S
ATOM	26258	C5	CYT	329	131.295	45.851	-7.977	1.00	59.30	Al6S	ATOM	26311	N1	CYT	332	143.479	46.579	-10.366	1.00	59.14	Al6S
ATOM	26259	C2'	CYT	329	131.177	42.188	-10.545	1.00	48.25	Al6S	ATOM	26312	C6	CYT	332	142.703	45.454	-10.426	1.00	59.14	Al6S
ATOM	26260	O2'	CYT	329	130.851	41.397	-11.681	1.00	48.25	Al6S	ATOM	26313	C2	CYT	332	143.327	47.486	-9.303	1.00	59.14	Al6S
ATOM	26261	C3'	CYT	329	131.221	41.403	-9.237	1.00	48.25	Al6S	ATOM	26314	O2	CYT	332	144.016	48.516	-9.289	1.00	59.14	Al6S
ATOM	26262	O3'	CYT	329	131.826	40.128	-9.353	1.00	48.25	Al6S	ATOM	26315	N3	CYT	332	142.434	47.216	-8.324	1.00	59.14	Al6S
ATOM	26263	P	CYT	330	133.397	39.972	-9.049	1.00	60.53	Al6S	ATOM	26316	C4	CYT	332	141.700	46.103	-8.382	1.00	59.14	Al6S
ATOM	26264	O4'	CYT	330	133.645	38.510	-9.007	1.00	43.87	Al6S	ATOM	26317	N4	CYT	332	140.844	45.867	-7.386	1.00	59.14	Al6S
ATOM	26265	O2P	CYT	330	133.768	40.814	-7.884	1.00	43.87	Al6S	ATOM	26318	C5	CYT	332	141.812	45.179	-9.464	1.00	59.14	Al6S
ATOM	26266	O5'	CYT	330	134.091	40.557	-10.358	1.00	60.53	Al6S	ATOM	26319	C2'	CYT	332	145.900	46.503	-10.874	1.00	58.41	Al6S
ATOM	26267	C5'	CYT	330	133.829	39.953	-11.646	1.00	60.53	Al6S	ATOM	26320	O2'	CYT	332	146.834	47.430	-11.390	1.00	58.41	Al6S
ATOM	26268	C4'	CYT	330	134.543	40.699	-12.741	1.00	60.53	Al6S	ATOM	26321	C3'	CYT	332	146.071	45.086	-11.412	1.00	58.41	Al6S
ATOM	26269	O4'	CYT	330	133.917	41.986	-12.962	1.00	60.53	Al6S	ATOM	26322	O3'	CYT	332	147.419	44.676	-11.491	1.00	58.41	Al6S
ATOM	26270	C1'	CYT	330	134.912	42.956	-13.243	1.00	60.53	Al6S	ATOM	26323	P	ADE	333	148.017	43.737	-10.337	1.00	68.73	Al6S
ATOM	26271	N1	CYT	330	134.931	43.931	-12.135	1.00	43.87	Al6S	ATOM	26324	O1P	ADE	333	149.227	43.085	-10.881	1.00	67.74	Al6S
ATOM	26272	C6	CYT	330	134.516	43.569	-10.884	1.00	43.87	Al6S	ATOM	26325	O2P	ADE	333	146.925	42.903	-9.780	1.00	67.74	Al6S
ATOM	26273	C2	CYT	330	135.399	45.231	-12.375	1.00	43.87	Al6S	ATOM	26326	O5'	ADE	333	148.468	44.767	-9.214	1.00	68.73	Al6S
ATOM	26274	O2	CYT	330	135.772	45.537	-13.510	1.00	43.87	Al6S	ATOM	26327	C5'	ADE	333	149.449	45.776	-9.497	1.00	68.73	Al6S
ATOM	26275	N3	CYT	330	135.444	46.112	-11.357	1.00	43.87	Al6S	ATOM	26328	O4'	ADE	333	149.444	46.819	-8.412	1.00	68.73	Al6S
ATOM	26276	C4	CYT	330	135.060	45.737	-10.135	1.00	43.87	Al6S	ATOM	26329	C4'	ADE	333	148.182	47.529	-8.438	1.00	68.73	Al6S
ATOM	26277	N4	CYT	330	135.161	46.627	-9.147	1.00	43.87	Al6S	ATOM	26330	C1'	ADE	333	147.781	47.835	-7.114	1.00	67.74	Al6S
ATOM	26278	C5	CYT	330	134.566	44.428	-9.867	1.00	43.87	Al6S	ATOM	26331	N9	ADE	333	146.518	47.152	-6.848	1.00	67.74	Al6S
ATOM	26279	O2'	CYT	330	136.250	42.220	-13.338	1.00	60.53	Al6S	ATOM	26332	C4	ADE	333	145.692	47.397	-5.782	1.00	67.74	Al6S
ATOM	26280	O2'	CYT	330	136.499	41.824	-14.672	1.00	60.53	Al6S	ATOM	26333	N3	ADE	333	145.888	48.279	-4.789	1.00	67.74	Al6S
ATOM	26281	C3'	CYT	330	135.993	41.020	-12.447	1.00	60.53	Al6S	ATOM	26334	C2	ADE	333	144.880	48.243	-3.927	1.00	67.74	Al6S
ATOM	26282	O3'	CYT	330	136.843	39.943	-12.754	1.00	60.53	Al6S	ATOM	26335	N1	ADE	333	143.775	47.490	-3.949	1.00	67.74	Al6S
ATOM	26283	P	CYT	331	138.283	39.867	-12.064	1.00	55.03	Al6S	ATOM	26336	C6	ADE	333	143.604	46.623	-4.972	1.00	67.74	Al6S
ATOM	26284	O1P	CYT	331	138.886	38.597	-12.530	1.00	64.11	Al6S	ATOM	26337	N6	ADE	333	142.489	45.892	-5.014	1.00	67.74	Al6S
ATOM	26285	O2P	CYT	331	138.147	40.126	-10.606	1.00	64.11	Al6S	ATOM	26338	C5	ADE	333	144.615	46.551	-5.941	1.00	67.74	Al6S
ATOM	26286	O5'	CYT	331	139.077	41.082	-12.716	1.00	55.03	Al6S	ATOM	26339	N7	ADE	333	144.764	45.771	-7.077	1.00	67.74	Al6S
ATOM	26287	C5'	CYT	331	139.436	41.059	-14.102	1.00	55.03	Al6S	ATOM	26340	C8	ADE	333	145.907	46.165	-7.577	1.00	67.74	Al6S
ATOM	26288	C4'	CYT	331	140.187	42.309	-14.464	1.00	55.03	Al6S	ATOM	26341	C2'	ADE	333	148.881	47.360	-6.168	1.00	68.73	Al6S
ATOM	26289	O4'	CYT	331	139.301	43.450	-14.348	1.00	55.03	Al6S	ATOM	26342	O2'	ADE	333	149.759	48.427	-5.863	1.00	68.73	Al6S
ATOM	26290	C1'	CYT	331	140.035	44.586	-13.907	1.00	55.03	Al6S	ATOM	26343	C3'	ADE	333	149.540	46.273	-6.998	1.00	68.73	Al6S
ATOM	26291	N1	CYT	331	139.504	45.026	-12.595	1.00	64.11	Al6S	ATOM	26344	O3'	ADE	333	150.872	46.034	-6.599	1.00	68.73	Al6S
ATOM	26292	C6	CYT	331	138.720	44.197	-11.836	1.00	64.11	Al6S	ATOM	26345	P	CYT	334	151.221	44.686	-5.806	1.00	63.10	Al6S
ATOM	26293	C2	CYT	331	139.838	46.313	-12.119	1.00	64.11	Al6S	ATOM	26346	O1P	CYT	334	152.677	44.476	-6.006	1.00	62.29	Al6S
ATOM	26294	O2	CYT	331	140.523	47.070	-12.839	1.00	64.11	Al6S	ATOM	26347	O2P	CYT	334	150.247	43.626	-6.207	1.00	62.29	Al6S
ATOM	26295	N3	CYT	331	139.402	46.695	-10.890	1.00	64.11	Al6S	ATOM	26348	O5'	CYT	334	150.956	45.033	-4.276	1.00	63.10	Al6S
ATOM	26296	C4	CYT	331	138.658	45.864	-10.157	1.00	64.11	Al6S	ATOM	26349	C5'	CYT	334	151.535	46.196	-3.681	1.00	63.10	Al6S
ATOM	26297	N4	CYT	331	138.270	46.272	-8.952	1.00	64.11	Al6S	ATOM	26350	C4'	CYT	334	150.658	46.711	-2.563	1.00	63.10	Al6S
ATOM	26298	C5	CYT	331	138.283	44.572	-10.626	1.00	64.11	Al6S	ATOM	26351	O4'	CYT	334	149.360	47.134	-3.071	1.00	63.10	Al6S
ATOM	26299	O2'	CYT	331	141.500	44.167	-13.794	1.00	55.03	Al6S	ATOM	26352	C1'	CYT	334	148.372	46.946	-2.068	1.00	63.10	Al6S
ATOM	26300	C2'	CYT	331	142.173	44.522	-14.989	1.00	55.03	Al6S	ATOM	26353	N1	CYT	334	147.317	46.048	-2.576	1.00	62.29	Al6S
ATOM	26301	C3'	CYT	331	141.368	42.662	-13.576	1.00	55.03	Al6S	ATOM	26354	C6	CYT	334	147.484	45.336	-3.730	1.00	62.29	Al6S
ATOM	26302	O3'	CYT	331	142.549	41.943	-13.914	1.00	55.03	Al6S	ATOM	26355	C2	CYT	334	146.124	45.929	-1.839	1.00	62.29	Al6S
ATOM	26303	P	CYT	332	143.651	41.640	-12.776	1.00	58.41	Al6S	ATOM	26356	O2	CYT	334	145.987	46.596	-0.799	1.00	62.29	Al6S
ATOM	26304	O1P	CYT	332	144.732	40.884	-13.458	1.00	59.14	Al6S	ATOM	26357	N3	CYT	334	145.154	45.095	-2.277	1.00	62.29	Al6S
ATOM	26305	O2P	CYT	332	142.977	41.045	-11.590	1.00	59.14	Al6S	ATOM	26358	C4	CYT	334	145.333	44.403	-3.401	1.00	62.29	Al6S
ATOM	26306	O5'	CYT	332	144.216	43.080	-12.391	1.00	58.41	Al6S	ATOM	26359	N4	CYT	334	144.351	43.594	-3.795	1.00	62.29	Al6S

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ATOM	26360	C5	CYT	334	146.528	44.511	-4.175	1.00	62.29	A16S	ATOM	26413	N1	CYT	337	143.769	34.857	4.922	1.00	68.48	A16
ATOM	26361	C2	CYT	334	149.069	46.361	-0.841	1.00	63.10	A16S	ATOM	26414	C6	CYT	337	144.945	35.555	4.839	1.00	68.48	A16
ATOM	26362	C2	CYT	334	149.371	47.411	0.063	1.00	63.10	A16S	ATOM	26415	C2	CYT	337	143.141	34.393	3.758	1.00	68.48	A16
ATOM	26363	C3	CYT	334	150.306	45.728	-1.464	1.00	63.10	A16S	ATOM	26416	O2	CYT	337	142.079	33.763	3.854	1.00	68.48	A16
ATOM	26364	O3	CYT	334	151.355	45.567	-0.536	1.00	63.10	A16S	ATOM	26417	N3	CYT	337	143.710	34.636	2.560	1.00	68.48	A16
ATOM	26365	P	URI	335	151.543	44.151	0.192	1.00	78.15	A16S	ATOM	26418	C4	CYT	337	144.861	35.307	2.491	1.00	68.48	A16
ATOM	26366	O2	URI	335	152.912	44.194	0.785	1.00	51.90	A16S	ATOM	26419	N4	CYT	337	145.391	35.508	1.287	1.00	68.48	A16
ATOM	26367	O1P	URI	335	151.187	43.080	-0.766	1.00	51.90	A16S	ATOM	26420	C5	CYT	337	145.521	35.797	3.656	1.00	68.48	A16
ATOM	26368	O5	URI	335	150.425	44.136	1.330	1.00	78.15	A16S	ATOM	26421	C2	CYT	337	143.593	33.198	6.734	1.00	97.87	A16
ATOM	26369	C5	URI	335	150.471	45.071	2.423	1.00	78.15	A16S	ATOM	26422	O2	CYT	337	142.546	32.615	7.484	1.00	97.87	A16
ATOM	26370	O4	URI	335	149.270	44.899	3.326	1.00	78.15	A16S	ATOM	26423	C3	CYT	337	144.803	33.572	7.580	1.00	97.87	A16
ATOM	26371	O4	URI	335	148.053	45.271	2.627	1.00	78.15	A16S	ATOM	26424	O3	CYT	337	145.164	32.564	8.507	1.00	97.87	A16
ATOM	26372	C1	URI	335	146.976	44.468	3.083	1.00	78.15	A16S	ATOM	26425	P	URI	338	146.322	31.519	8.115	1.00	93.46	A16
ATOM	26373	N1	URI	335	146.416	43.728	1.941	1.00	51.90	A16S	ATOM	26426	O1P	URI	338	147.522	32.293	7.705	1.00	90.73	A16
ATOM	26374	C6	URI	335	147.088	43.638	0.738	1.00	51.90	A16S	ATOM	26427	O2P	URI	338	146.429	30.546	9.223	1.00	90.73	A16
ATOM	26375	C2	URI	335	145.178	43.119	2.109	1.00	51.90	A16S	ATOM	26428	O5	URI	338	145.745	30.764	6.831	1.00	93.46	A16
ATOM	26376	O2	URI	335	144.547	43.157	3.157	1.00	51.90	A16S	ATOM	26429	C5	URI	338	144.531	29.984	6.920	1.00	93.46	A16
ATOM	26377	N3	URI	335	144.703	42.458	1.002	1.00	51.90	A16S	ATOM	26430	C4	URI	338	144.141	29.425	5.567	1.00	93.46	A16
ATOM	26378	C4	URI	335	145.319	42.335	-0.227	1.00	51.90	A16S	ATOM	26431	O4	URI	338	143.810	30.505	4.655	1.00	93.46	A16
ATOM	26379	O4	URI	335	144.756	41.704	-1.126	1.00	51.90	A16S	ATOM	26432	C1	URI	338	144.142	30.126	3.326	1.00	93.46	A16
ATOM	26380	C5	URI	335	146.596	42.980	-0.320	1.00	51.90	A16S	ATOM	26433	N1	URI	338	145.144	31.061	2.787	1.00	90.73	A16
ATOM	26381	C2	URI	335	147.516	43.542	4.171	1.00	78.15	A16S	ATOM	26434	C6	URI	338	145.920	31.848	3.611	1.00	90.73	A16
ATOM	26382	O2	URI	335	147.274	44.126	5.435	1.00	78.15	A16S	ATOM	26435	C2	URI	338	145.308	31.103	1.409	1.00	90.73	A16
ATOM	26383	C3	URI	335	148.997	43.491	3.824	1.00	78.15	A16S	ATOM	26436	O2	URI	338	144.615	30.460	0.640	1.00	90.73	A16
ATOM	26384	O3	URI	335	149.793	43.156	4.944	1.00	78.15	A16S	ATOM	26437	N3	URI	338	146.311	31.928	0.966	1.00	90.73	A16
ATOM	26385	P	CYT	336	150.240	41.631	5.163	1.00	94.32	A16S	ATOM	26438	C4	URI	338	147.144	32.713	1.737	1.00	90.73	A16
ATOM	26386	O1P	CYT	336	151.243	41.683	6.253	1.00	51.76	A16S	ATOM	26439	O4	URI	338	148.071	33.324	1.198	1.00	90.73	A16
ATOM	26387	O2P	CYT	336	150.597	41.020	3.845	1.00	51.76	A16S	ATOM	26440	C5	URI	338	146.886	32.650	3.146	1.00	90.73	A16
ATOM	26388	O5	CYT	336	148.932	40.907	5.717	1.00	94.32	A16S	ATOM	26441	C2	URI	338	144.700	28.703	3.377	1.00	93.46	A16
ATOM	26389	C5	CYT	336	148.459	41.174	7.045	1.00	94.32	A16S	ATOM	26442	O2	URI	338	143.676	27.776	3.067	1.00	93.46	A16
ATOM	26390	O4	CYT	336	147.109	40.542	7.263	1.00	94.32	A16S	ATOM	26443	C3	URI	338	145.188	28.612	4.819	1.00	93.46	A16
ATOM	26391	O4	CYT	336	146.156	41.099	6.328	1.00	94.32	A16S	ATOM	26444	O3	URI	338	145.263	27.262	5.267	1.00	93.46	A16
ATOM	26392	C1	CYT	336	145.189	40.117	5.989	1.00	94.32	A16S	ATOM	26445	P	ADE	339	146.665	26.462	5.192	1.00	111.15	A16
ATOM	26393	N1	CYT	336	145.241	39.861	4.542	1.00	51.76	A16S	ATOM	26446	O1P	ADE	339	147.555	27.112	4.193	1.00	91.67	A16
ATOM	26394	C6	CYT	336	146.370	40.118	3.813	1.00	51.76	A16S	ATOM	26447	O2P	ADE	339	147.136	26.308	6.595	1.00	91.67	A16
ATOM	26395	C2	CYT	336	144.109	39.328	3.924	1.00	51.76	A16S	ATOM	26448	O5	ADE	339	146.223	25.030	4.639	1.00	111.15	A16
ATOM	26396	O2	CYT	336	143.092	39.131	4.613	1.00	51.76	A16S	ATOM	26449	C5	ADE	339	146.906	24.381	3.538	1.00	111.15	A16
ATOM	26397	N3	CYT	336	144.149	39.044	2.602	1.00	51.76	A16S	ATOM	26450	C4	ADE	339	145.960	23.424	2.845	1.00	111.15	A16
ATOM	26398	C4	CYT	336	145.258	39.288	1.905	1.00	51.76	A16S	ATOM	26451	O4	ADE	339	145.271	22.674	3.874	1.00	111.15	A16
ATOM	26399	N4	CYT	336	145.263	38.990	0.610	1.00	51.76	A16S	ATOM	26452	C1	ADE	339	143.888	22.609	3.598	1.00	111.15	A16
ATOM	26400	C5	CYT	336	146.420	39.850	2.507	1.00	51.76	A16S	ATOM	26453	N9	ADE	339	143.208	23.231	4.730	1.00	91.67	A16
ATOM	26401	C2	CYT	336	145.522	38.848	6.763	1.00	94.32	A16S	ATOM	26454	C4	ADE	339	142.590	22.563	5.760	1.00	91.67	A16
ATOM	26402	O2	CYT	336	144.730	38.809	7.931	1.00	94.32	A16S	ATOM	26455	N3	ADE	339	142.449	21.234	5.902	1.00	91.67	A16
ATOM	26403	C3	CYT	336	147.006	39.043	7.040	1.00	94.32	A16S	ATOM	26456	C2	ADE	339	141.822	20.947	7.040	1.00	91.67	A16
ATOM	26404	O3	CYT	336	147.410	38.307	8.177	1.00	94.32	A16S	ATOM	26457	N1	ADE	339	141.348	21.775	7.983	1.00	91.67	A16
ATOM	26405	P	CYT	337	147.804	36.760	8.014	1.00	97.87	A16S	ATOM	26458	C6	ADE	339	141.497	23.106	7.807	1.00	91.67	A16
ATOM	26406	O1P	CYT	337	148.283	36.327	9.351	1.00	68.48	A16S	ATOM	26459	N6	ADE	339	141.010	23.930	8.740	1.00	91.67	A16
ATOM	26407	O2P	CYT	337	148.687	36.615	6.827	1.00	68.48	A16S	ATOM	26460	C5	ADE	339	142.157	23.541	6.638	1.00	91.67	A16
ATOM	26408	O5	CYT	337	146.423	36.032	7.685	1.00	97.87	A16S	ATOM	26461	N7	ADE	339	142.476	24.802	6.159	1.00	91.67	A16
ATOM	26409	C5	CYT	337	145.450	35.794	8.719	1.00	97.87	A16S	ATOM	26462	C8	ADE	339	143.087	24.564	5.024	1.00	91.67	A16
ATOM	26410	C4	CYT	337	144.358	34.874	8.222	1.00	97.87	A16S	ATOM	26463	C2	ADE	339	143.633	23.219	2.218	1.00	111.15	A16
ATOM	26411	O4	CYT	337	143.594	35.529	7.173	1.00	97.87	A16S	ATOM	26464	O2	ADE	339	143.451	22.188	1.276	1.00	111.15	A16
ATOM	26412	C1	CYT	337	143.149	34.566	6.229	1.00	97.87	A16S	ATOM	26465	C3	ADE	339	144.869	24.100	2.028	1.00	111.15	A16

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ATOM	26466	O3' ADE	339	145.307	24.350	0.674	1.00111.15	Al6S	ATOM	26519	C4	GUA	342	141.581	31.674	-1.571	1.00 79.14	Al
ATOM	26467	P ¹ CVT	340	145.923	23.157	-0.238	1.00102.06	Al6S	ATOM	26520	N3	GUA	342	141.049	31.507	-0.340	1.00 79.14	Al
ATOM	26468	O2P CVT	340	147.141	22.642	0.430	1.00 98.76	Al6S	ATOM	26521	C2	GUA	342	141.715	32.183	0.584	1.00 79.14	Al
ATOM	26469	O5' CVT	340	144.861	22.210	-0.658	1.00 98.76	Al6S	ATOM	26522	N2	GUA	342	141.330	32.121	1.866	1.00 79.14	Al
ATOM	26470	O5' CVT	340	146.402	23.904	-1.559	1.00102.06	Al6S	ATOM	26523	N1	GUA	342	142.808	32.967	0.323	1.00 79.14	Al
ATOM	26471	C5' CVT	340	145.440	24.313	-2.546	1.00102.06	Al6S	ATOM	26524	C6	GUA	342	143.376	33.157	-0.931	1.00 79.14	Al
ATOM	26472	C4' CVT	340	145.851	25.616	-3.190	1.00102.06	Al6S	ATOM	26525	O6	GUA	342	144.363	33.893	-1.051	1.00 79.14	Al
ATOM	26473	O4' CVT	340	145.909	26.670	-2.189	1.00102.06	Al6S	ATOM	26526	C5	GUA	342	142.676	32.426	-1.940	1.00 79.14	Al
ATOM	26474	C1' CVT	340	147.145	27.348	-2.285	1.00102.06	Al6S	ATOM	26527	N7	GUA	342	142.906	32.326	-3.308	1.00 79.14	Al
ATOM	26475	N1' CVT	340	147.581	27.768	-0.936	1.00 98.76	Al6S	ATOM	26528	C8	GUA	342	141.957	31.537	-3.739	1.00 79.14	Al
ATOM	26476	C2' CVT	340	147.630	26.881	0.104	1.00 98.76	Al6S	ATOM	26529	C2' GUA	342	138.700	31.232	-3.121	1.00100.31	Al	
ATOM	26477	C2' CVT	340	147.958	29.113	-0.736	1.00 98.76	Al6S	ATOM	26530	O2' GUA	342	137.540	30.684	-2.528	1.00100.31	Al	
ATOM	26478	O2' CVT	340	147.892	29.910	-1.690	1.00 98.76	Al6S	ATOM	26531	C3' GUA	342	138.623	31.236	-4.641	1.00100.31	Al	
ATOM	26479	N3' CVT	340	148.382	29.509	0.488	1.00 98.76	Al6S	ATOM	26532	O3' GUA	342	137.340	31.636	-5.098	1.00100.31	Al	
ATOM	26480	C4' CVT	340	148.436	28.631	1.491	1.00 98.76	Al6S	ATOM	26533	P	GUA	343	136.849	33.148	-4.837	1.00 71.97	Al
ATOM	26481	N4' CVT	340	148.873	29.065	2.677	1.00 98.76	Al6S	ATOM	26534	O1P GUA	343	138.034	34.041	-4.952	1.00 67.88	Al	
ATOM	26482	C5' CVT	340	148.047	27.265	1.321	1.00 98.76	Al6S	ATOM	26535	O2P GUA	343	135.638	33.430	-5.662	1.00 67.88	Al	
ATOM	26483	C2' CVT	340	148.113	26.388	-2.972	1.00102.06	Al6S	ATOM	26536	O5' GUA	343	136.421	33.111	-3.307	1.00 71.97	Al	
ATOM	26484	O2' CVT	340	149.119	27.123	-3.638	1.00102.06	Al6S	ATOM	26537	C5' GUA	343	136.346	34.305	-2.549	1.00 71.97	Al	
ATOM	26485	C3' CVT	340	147.188	25.627	-3.923	1.00102.06	Al6S	ATOM	26538	C4' GUA	343	136.575	34.006	-1.099	1.00 71.97	Al	
ATOM	26486	O3' CVT	340	147.044	26.336	-5.146	1.00102.06	Al6S	ATOM	26539	O4' GUA	343	137.904	33.469	-0.915	1.00 71.97	Al	
ATOM	26487	P	GUA	146.889	25.521	-6.524	1.00110.96	Al6S	ATOM	26540	C1' GUA	343	138.480	33.999	0.269	1.00 71.97	Al	
ATOM	26488	O1P GUA	341	147.439	26.377	-7.611	1.00 91.31	Al6S	ATOM	26541	N9	GUA	343	139.661	34.765	-0.114	1.00 67.88	Al
ATOM	26489	O2P GUA	341	147.420	24.145	-6.330	1.00 91.31	Al6S	ATOM	26542	C4	GUA	343	140.394	35.588	0.700	1.00 67.88	Al
ATOM	26490	O5' GUA	341	145.314	25.427	-6.742	1.00110.96	Al6S	ATOM	26543	N3	GUA	343	140.157	35.818	2.007	1.00 67.88	Al
ATOM	26491	C5' GUA	341	144.505	26.619	-6.791	1.00110.96	Al6S	ATOM	26544	C2	GUA	343	141.021	36.676	2.522	1.00 67.88	Al
ATOM	26492	C4' GUA	341	143.045	26.259	-6.678	1.00110.96	Al6S	ATOM	26545	N2	GUA	343	140.928	37.018	3.824	1.00 67.88	Al
ATOM	26493	O4' GUA	341	142.862	25.383	-5.544	1.00110.96	Al6S	ATOM	26546	N1	GUA	343	142.039	37.261	1.798	1.00 67.88	Al
ATOM	26494	C1' GUA	341	141.576	25.584	-5.001	1.00110.96	Al6S	ATOM	26547	C6	GUA	343	142.292	37.036	0.445	1.00 67.88	Al
ATOM	26495	N9	GUA	141.679	25.632	-3.545	1.00 91.31	Al6S	ATOM	26548	O6	GUA	343	143.215	37.623	-0.120	1.00 67.88	Al
ATOM	26496	C4	GUA	142.323	26.574	-2.777	1.00 91.31	Al6S	ATOM	26549	C5	GUA	343	141.382	36.116	-0.107	1.00 67.88	Al
ATOM	26497	N3	GUA	142.979	27.658	-3.232	1.00 91.31	Al6S	ATOM	26550	N7	GUA	343	141.285	35.619	-1.398	1.00 67.88	Al
ATOM	26498	C2	GUA	143.508	28.365	-2.245	1.00 91.31	Al6S	ATOM	26551	C8	GUA	343	140.253	34.822	-1.357	1.00 67.88	Al
ATOM	26499	N2	GUA	144.208	29.476	-2.516	1.00 91.31	Al6S	ATOM	26552	C2' GUA	343	137.429	34.880	0.942	1.00 71.97	Al	
ATOM	26500	N1	GUA	143.395	28.035	-0.920	1.00 91.31	Al6S	ATOM	26553	O2' GUA	343	136.752	34.162	1.951	1.00 71.97	Al	
ATOM	26501	C6	GUA	142.725	26.925	-0.428	1.00 91.31	Al6S	ATOM	26554	C3' GUA	343	136.557	35.251	-0.246	1.00 71.97	Al	
ATOM	26502	O6	GUA	142.688	26.718	0.791	1.00 91.31	Al6S	ATOM	26555	O3' GUA	343	135.231	35.609	0.058	1.00 71.97	Al	
ATOM	26503	C5	GUA	142.156	26.157	-1.473	1.00 91.31	Al6S	ATOM	26556	P	ADE	344	134.741	37.094	-0.274	1.00 86.80	Al
ATOM	26504	N7	GUA	141.416	24.985	-1.422	1.00 91.31	Al6S	ATOM	26557	O1P ADE	344	133.257	37.123	-0.111	1.00 56.63	Al	
ATOM	26505	C8	GUA	141.153	24.714	-2.670	1.00 91.31	Al6S	ATOM	26558	O2P ADE	344	135.354	37.500	-1.570	1.00 56.63	Al	
ATOM	26506	C2' GUA	341	140.920	26.772	-5.710	1.00110.96	Al6S	ATOM	26559	O5' ADE	344	135.408	37.927	0.899	1.00 86.80	Al	
ATOM	26507	O2' GUA	341	139.942	26.303	-6.616	1.00110.96	Al6S	ATOM	26560	C5' ADE	344	135.185	37.535	2.258	1.00 86.80	Al	
ATOM	26508	C3' GUA	341	142.105	27.424	-6.419	1.00110.96	Al6S	ATOM	26561	C4' ADE	344	135.996	38.388	3.179	1.00 86.80	Al	
ATOM	26509	O3' GUA	341	141.693	28.008	-7.648	1.00110.96	Al6S	ATOM	26562	O4' ADE	344	137.397	38.049	3.065	1.00 86.80	Al	
ATOM	26510	P	GUA	141.661	29.607	-7.803	1.00100.31	Al6S	ATOM	26563	C1' ADE	344	138.185	39.217	3.199	1.00 86.80	Al	
ATOM	26511	O1P GUA	342	143.041	30.106	-7.553	1.00 79.14	Al6S	ATOM	26564	N9	ADE	344	138.950	39.397	1.966	1.00 56.63	Al
ATOM	26512	O2P GUA	342	140.982	29.919	-9.088	1.00 79.14	Al6S	ATOM	26565	C4	ADE	344	140.125	40.097	1.856	1.00 56.63	Al
ATOM	26513	O5' GUA	342	140.728	30.113	-6.613	1.00100.31	Al6S	ATOM	26566	N3	ADE	344	140.782	40.736	2.837	1.00 56.63	Al
ATOM	26514	C5' GUA	342	139.447	29.512	-6.384	1.00100.31	Al6S	ATOM	26567	C2	ADE	344	141.889	41.301	2.365	1.00 56.63	Al
ATOM	26515	O4' GUA	342	138.968	29.797	-4.979	1.00100.31	Al6S	ATOM	26568	N1	ADE	344	142.379	41.293	1.123	1.00 56.63	Al
ATOM	26516	O4' GUA	342	140.010	29.467	-4.014	1.00100.31	Al6S	ATOM	26569	C6	ADE	344	141.695	40.637	0.162	1.00 56.63	Al
ATOM	26517	C1' GUA	342	139.894	30.313	-2.878	1.00100.31	Al6S	ATOM	26570	N6	ADE	344	142.194	40.621	-1.073	1.00 56.63	Al
ATOM	26518	N9	GUA	141.103	31.123	-2.742	1.00 79.14	Al6S	ATOM	26571	C5	ADE	344	140.497	40.005	0.529	1.00 56.63	Al

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ATOM	26572	N7	ADE	344	139.569	39.267	-0.192	1.00	56.63	Al6S	ATOM	26625	O1P	CYT	347	136.664	53.295	5.423	1.00	66.59	Al
ATOM	26573	C8	ADE	344	138.673	38.928	0.703	1.00	56.63	Al6S	ATOM	26626	O2P	CYT	347	139.109	52.781	4.802	1.00	66.59	Al
ATOM	26574	O2	ADE	344	137.237	40.386	3.454	1.00	86.80	Al6S	ATOM	26627	O5	CYT	347	138.094	54.978	4.339	1.00	49.24	Al
ATOM	26575	O2	ADE	344	137.145	40.619	4.843	1.00	86.80	Al6S	ATOM	26628	C5	CYT	347	139.297	55.545	4.868	1.00	49.24	Al
ATOM	26576	C3	ADE	344	135.948	39.858	2.840	1.00	86.80	Al6S	ATOM	26629	C4	CYT	347	138.973	56.460	6.018	1.00	49.24	Al
ATOM	26577	O3	ADE	344	134.766	40.470	3.310	1.00	86.80	Al6S	ATOM	26630	O4	CYT	347	138.532	55.692	7.173	1.00	49.24	Al
ATOM	26578	P	GUA	345	134.396	41.941	2.794	1.00	68.39	Al6S	ATOM	26631	C1	CYT	347	138.983	56.326	8.360	1.00	49.24	Al
ATOM	26579	O1P	GUA	345	134.592	41.988	1.306	1.00	50.54	Al6S	ATOM	26632	N1	CYT	347	139.886	55.410	9.080	1.00	66.59	Al
ATOM	26580	O2P	GUA	345	133.068	42.289	3.375	1.00	50.54	Al6S	ATOM	26633	C6	CYT	347	140.422	54.313	8.463	1.00	66.59	Al
ATOM	26581	O5	GUA	345	135.517	42.814	3.507	1.00	68.39	Al6S	ATOM	26634	C2	CYT	347	140.209	55.695	10.412	1.00	66.59	Al
ATOM	26582	O6	GUA	345	135.687	44.176	3.195	1.00	68.39	Al6S	ATOM	26635	O2	CYT	347	139.698	56.678	10.955	1.00	66.59	Al
ATOM	26583	C4	GUA	345	136.992	44.653	3.747	1.00	68.39	Al6S	ATOM	26636	N3	CYT	347	141.070	54.894	11.073	1.00	66.59	Al
ATOM	26584	O4	GUA	345	138.031	43.714	3.380	1.00	68.39	Al6S	ATOM	26637	C4	CYT	347	141.602	53.840	10.456	1.00	66.59	Al
ATOM	26585	C1	GUA	345	139.208	44.420	3.029	1.00	68.39	Al6S	ATOM	26638	N4	CYT	347	142.461	53.092	11.139	1.00	66.59	Al
ATOM	26586	N9	GUA	345	139.511	44.120	1.630	1.00	50.54	Al6S	ATOM	26639	C5	CYT	347	141.279	53.511	9.105	1.00	66.59	Al
ATOM	26587	C4	GUA	345	140.692	44.365	0.964	1.00	50.54	Al6S	ATOM	26640	C2	CYT	347	139.696	57.616	7.946	1.00	49.24	Al
ATOM	26588	N3	GUA	345	141.793	44.948	1.483	1.00	50.54	Al6S	ATOM	26641	O3	CYT	347	138.759	58.674	7.976	1.00	49.24	Al
ATOM	26589	C2	GUA	345	142.771	45.038	0.596	1.00	50.54	Al6S	ATOM	26642	C3	CYT	347	140.139	57.283	6.527	1.00	49.24	Al
ATOM	26590	N2	GUA	345	143.927	45.614	0.940	1.00	50.54	Al6S	ATOM	26643	O3	CYT	347	140.270	58.433	5.714	1.00	49.24	Al
ATOM	26591	N1	GUA	345	142.684	44.575	-0.695	1.00	50.54	Al6S	ATOM	26644	P	ADE	348	141.720	59.078	5.435	1.00	43.46	Al
ATOM	26592	C6	GUA	345	141.561	43.970	-1.251	1.00	50.54	Al6S	ATOM	26645	O2P	ADE	348	142.643	58.900	6.583	1.00	43.46	Al
ATOM	26593	O6	GUA	345	141.583	43.583	-2.425	1.00	50.54	Al6S	ATOM	26646	O2P	ADE	348	142.147	58.622	4.084	1.00	43.46	Al
ATOM	26594	C5	GUA	345	140.497	43.884	-0.316	1.00	50.54	Al6S	ATOM	26647	O5	ADE	348	141.365	60.629	5.433	1.00	47.15	Al
ATOM	26595	N8	GUA	345	139.219	43.362	-0.458	1.00	50.54	Al6S	ATOM	26648	C5	ADE	348	141.117	61.323	4.220	1.00	47.15	Al
ATOM	26596	C7	GUA	345	138.672	43.523	0.716	1.00	50.54	Al6S	ATOM	26649	O4	ADE	348	139.718	61.903	4.187	1.00	47.15	Al
ATOM	26597	C2	GUA	345	138.950	45.905	3.298	1.00	68.39	Al6S	ATOM	26650	C4	ADE	348	139.754	62.740	3.010	1.00	47.15	Al
ATOM	26598	O2	GUA	345	139.403	46.218	4.600	1.00	68.39	Al6S	ATOM	26651	C1	ADE	348	138.831	62.278	2.062	1.00	47.15	Al
ATOM	26599	O3	GUA	345	137.432	45.983	3.172	1.00	68.39	Al6S	ATOM	26652	N9	ADE	348	139.546	61.413	1.129	1.00	43.46	Al
ATOM	26600	O3	GUA	345	136.842	47.059	3.892	1.00	68.39	Al6S	ATOM	26653	C4	ADE	348	139.080	61.045	-0.099	1.00	43.46	Al
ATOM	26601	P	GUA	346	135.507	47.770	3.328	1.00	71.72	Al6S	ATOM	26654	N3	ADE	348	137.931	61.430	-0.672	1.00	43.46	Al
ATOM	26602	O1P	GUA	346	134.494	47.672	4.412	1.00	50.78	Al6S	ATOM	26655	C2	ADE	348	137.795	60.865	-1.855	1.00	43.46	Al
ATOM	26603	O2P	GUA	346	135.160	47.304	1.955	1.00	50.78	Al6S	ATOM	26656	N1	ADE	348	138.610	60.014	-2.481	1.00	43.46	Al
ATOM	26604	O5	GUA	346	135.929	49.297	3.208	1.00	71.72	Al6S	ATOM	26657	C6	ADE	348	139.762	59.646	-1.870	1.00	43.46	Al
ATOM	26605	C5	GUA	346	136.689	49.941	4.250	1.00	71.72	Al6S	ATOM	26658	N6	ADE	348	140.576	58.782	-2.487	1.00	43.46	Al
ATOM	26606	C4	GUA	346	137.857	50.669	3.645	1.00	71.72	Al6S	ATOM	26659	C5	ADE	348	140.028	60.191	-0.618	1.00	43.46	Al
ATOM	26607	O4	GUA	346	138.698	49.685	3.027	1.00	71.72	Al6S	ATOM	26660	N7	ADE	348	141.093	60.043	0.257	1.00	43.46	Al
ATOM	26608	C1	GUA	346	139.275	50.233	1.876	1.00	71.72	Al6S	ATOM	26661	C8	ADE	348	140.764	60.791	1.273	1.00	43.46	Al
ATOM	26609	N9	GUA	346	139.235	49.238	0.816	1.00	50.78	Al6S	ATOM	26662	C2	ADE	348	137.757	61.531	2.837	1.00	47.15	Al
ATOM	26610	C4	GUA	346	140.290	48.909	0.020	1.00	50.78	Al6S	ATOM	26663	O2	ADE	348	136.800	62.464	3.289	1.00	47.15	Al
ATOM	26611	N3	GUA	346	141.518	49.448	0.096	1.00	50.78	Al6S	ATOM	26664	C3	ADE	348	138.565	60.910	3.972	1.00	47.15	Al
ATOM	26612	C2	GUA	346	142.326	48.944	-0.800	1.00	50.78	Al6S	ATOM	26665	O3	ADE	348	137.713	60.834	5.123	1.00	47.15	Al
ATOM	26613	N2	GUA	346	143.593	49.369	-0.844	1.00	50.78	Al6S	ATOM	26666	P	GUA	349	136.451	59.817	5.146	1.00	49.43	Al
ATOM	26614	N1	GUA	346	141.955	47.988	-1.718	1.00	50.78	Al6S	ATOM	26667	O1P	GUA	349	136.987	58.465	5.432	1.00	57.06	Al
ATOM	26615	C6	GUA	346	140.687	47.426	-1.820	1.00	50.78	Al6S	ATOM	26668	O2P	GUA	349	135.578	60.014	3.951	1.00	57.06	Al
ATOM	26616	O5	GUA	346	140.447	46.591	-2.700	1.00	50.78	Al6S	ATOM	26669	O5	GUA	349	135.663	60.251	6.470	1.00	49.43	Al
ATOM	26617	C6	GUA	346	139.816	47.948	-0.843	1.00	50.78	Al6S	ATOM	26670	C5	GUA	349	134.948	61.504	6.544	1.00	49.43	Al
ATOM	26618	N7	GUA	346	138.481	47.665	-0.582	1.00	50.78	Al6S	ATOM	26671	C4	GUA	349	133.983	61.529	7.728	1.00	49.43	Al
ATOM	26619	C8	GUA	346	138.178	48.455	0.412	1.00	50.78	Al6S	ATOM	26672	O4	GUA	349	133.226	60.291	7.791	1.00	49.43	Al
ATOM	26620	C2	GUA	346	138.642	51.595	1.571	1.00	71.72	Al6S	ATOM	26673	C1	GUA	349	132.971	59.954	9.141	1.00	49.43	Al
ATOM	26621	O3	GUA	346	139.572	52.640	1.776	1.00	71.72	Al6S	ATOM	26674	N9	GUA	349	133.582	58.654	9.411	1.00	57.06	Al
ATOM	26622	C3	GUA	346	137.461	51.639	2.535	1.00	71.72	Al6S	ATOM	26675	C4	GUA	349	133.624	57.978	10.618	1.00	57.06	Al
ATOM	26623	O3	GUA	346	137.325	52.998	2.991	1.00	71.72	Al6S	ATOM	26676	N3	GUA	349	133.100	58.399	11.788	1.00	57.06	Al
ATOM	26624	P	CYT	347	137.810	53.426	4.475	1.00	49.24	Al6S	ATOM	26677	C2	GUA	349	133.299	57.526	12.764	1.00	57.06	Al

Table 1 - 252/490



Table 1 - 253/490

ATOM	26678	N2	GUA	349	132.845	57.778	13.997	1.00	57.06	Al6S	ATOM	26731	P	GUA	352	142.473	62.636	18.653	1.00	49.86	Al1
ATOM	26679	N1	GUA	349	133.958	56.341	12.605	1.00	57.06	Al6S	ATOM	26732	O1P	GUA	352	143.184	63.227	19.821	1.00	63.01	Al1
ATOM	26680	O6	GUA	349	134.506	55.886	11.416	1.00	57.06	Al6S	ATOM	26733	O2P	GUA	352	142.582	63.288	17.323	1.00	63.01	Al1
ATOM	26681	O6	GUA	349	135.084	54.796	11.387	1.00	57.06	Al6S	ATOM	26734	O5	GUA	352	142.973	61.135	18.475	1.00	49.86	Al1
ATOM	26682	C5	GUA	349	134.300	56.809	10.357	1.00	57.06	Al6S	ATOM	26735	C5	GUA	352	143.209	60.288	19.617	1.00	49.86	Al1
ATOM	26683	N7	GUA	349	134.676	56.742	9.021	1.00	57.06	Al6S	ATOM	26736	C4	GUA	352	143.693	58.928	19.174	1.00	49.86	Al1
ATOM	26684	C8	GUA	349	134.231	57.853	8.501	1.00	57.06	Al6S	ATOM	26737	O4	GUA	352	142.679	58.292	18.350	1.00	49.86	Al1
ATOM	26685	O2	GUA	349	133.511	61.089	10.014	1.00	49.43	Al6S	ATOM	26738	C1	GUA	352	143.303	57.501	17.352	1.00	49.86	Al1
ATOM	26686	O2	GUA	349	132.457	61.991	10.282	1.00	49.43	Al6S	ATOM	26739	N9	GUA	352	142.940	58.025	16.040	1.00	63.01	Al1
ATOM	26687	C3	GUA	349	134.581	61.700	9.118	1.00	49.43	Al6S	ATOM	26740	C4	GUA	352	143.229	57.448	14.822	1.00	63.01	Al1
ATOM	26688	O6	GUA	349	134.748	63.090	9.412	1.00	49.43	Al6S	ATOM	26741	N3	GUA	352	143.862	56.271	14.629	1.00	63.01	Al1
ATOM	26689	P	CYT	350	135.792	63.558	10.544	1.00	49.79	Al6S	ATOM	26742	C2	GUA	352	144.003	55.989	13.345	1.00	63.01	Al1
ATOM	26690	O1P	CYT	350	135.665	65.030	10.676	1.00	57.60	Al6S	ATOM	26743	N2	GUA	352	144.598	54.846	12.978	1.00	63.01	Al1
ATOM	26691	O2P	CYT	350	137.113	62.963	10.233	1.00	57.60	Al6S	ATOM	26744	N1	GUA	352	143.569	56.806	12.332	1.00	63.01	Al1
ATOM	26692	O5	CYT	350	135.253	62.882	11.880	1.00	49.79	Al6S	ATOM	26745	C6	GUA	352	142.918	58.021	12.511	1.00	63.01	Al1
ATOM	26693	C5	CYT	350	134.278	62.962	14.084	1.00	49.79	Al6S	ATOM	26746	O6	GUA	352	142.570	58.682	11.536	1.00	63.01	Al1
ATOM	26694	O4	CYT	350	133.894	61.568	14.048	1.00	49.79	Al6S	ATOM	26747	C5	GUA	352	142.750	58.327	13.880	1.00	63.01	Al1
ATOM	26695	O4	CYT	350	134.629	60.843	15.015	1.00	49.79	Al6S	ATOM	26748	N7	GUA	352	142.150	59.422	14.487	1.00	63.01	Al1
ATOM	26696	C1	CYT	350	135.388	59.784	14.327	1.00	57.60	Al6S	ATOM	26749	C8	GUA	352	142.282	59.197	15.766	1.00	49.86	Al1
ATOM	26697	N1	CYT	350	135.591	59.827	12.974	1.00	57.60	Al6S	ATOM	26750	C2	GUA	352	144.813	57.596	17.568	1.00	49.86	Al1
ATOM	26698	C6	CYT	350	135.885	58.723	15.075	1.00	57.60	Al6S	ATOM	26751	O2	GUA	352	145.237	56.483	18.326	1.00	49.86	Al1
ATOM	26699	C2	CYT	350	135.734	58.728	16.299	1.00	49.79	Al6S	ATOM	26752	O1	GUA	352	144.937	58.917	18.311	1.00	49.86	Al1
ATOM	26700	O2	CYT	350	136.527	57.721	14.448	1.00	57.60	Al6S	ATOM	26753	O3	GUA	352	146.114	58.977	19.089	1.00	49.86	Al1
ATOM	26701	N3	CYT	350	136.697	57.756	13.129	1.00	57.60	Al6S	ATOM	26754	P	URI	353	147.516	59.328	18.380	1.00	55.37	Al1
ATOM	26702	C4	CYT	350	137.315	56.726	12.556	1.00	57.60	Al6S	ATOM	26755	O1P	URI	353	148.522	59.518	19.455	1.00	53.05	Al1
ATOM	26703	N4	CYT	350	136.235	58.843	12.341	1.00	57.60	Al6S	ATOM	26756	O2P	URI	353	147.305	60.406	17.378	1.00	53.05	Al1
ATOM	26704	C5	CYT	350	135.511	61.833	15.772	1.00	49.79	Al6S	ATOM	26757	O5	URI	353	147.875	58.001	17.573	1.00	55.37	Al1
ATOM	26705	O2	CYT	350	134.848	62.232	16.952	1.00	49.79	Al6S	ATOM	26758	C5	URI	353	148.097	56.749	18.254	1.00	55.37	Al1
ATOM	26706	O2	CYT	350	135.628	62.973	14.775	1.00	49.79	Al6S	ATOM	26759	C4	URI	353	148.572	55.698	17.278	1.00	55.37	Al1
ATOM	26707	C3	CYT	350	135.844	64.194	15.449	1.00	49.79	Al6S	ATOM	26760	O4	URI	353	147.522	55.382	16.331	1.00	55.37	Al1
ATOM	26708	O3	CYT	350	137.340	64.709	15.682	1.00	51.96	Al6S	ATOM	26761	C1	URI	353	148.097	55.104	15.062	1.00	55.37	Al1
ATOM	26709	P	ADE	351	137.266	65.862	16.610	1.00	57.13	Al6S	ATOM	26762	N1	URI	353	147.536	56.029	14.062	1.00	53.05	Al1
ATOM	26710	O1P	ADE	351	137.959	64.878	14.338	1.00	57.13	Al6S	ATOM	26763	C6	URI	353	146.976	57.238	14.425	1.00	53.05	Al1
ATOM	26711	O2P	ADE	351	138.062	63.504	16.437	1.00	51.96	Al6S	ATOM	26764	C2	URI	353	147.600	55.649	12.728	1.00	53.05	Al1
ATOM	26712	O5	ADE	351	137.930	63.358	17.856	1.00	51.96	Al6S	ATOM	26765	O2	URI	353	148.062	54.582	12.359	1.00	53.05	Al1
ATOM	26713	C5	ADE	351	138.574	62.074	18.347	1.00	51.96	Al6S	ATOM	26766	N3	URI	353	147.097	56.564	11.840	1.00	53.05	Al1
ATOM	26714	C4	ADE	351	137.946	60.911	17.743	1.00	51.96	Al6S	ATOM	26767	C4	URI	353	146.538	57.786	12.132	1.00	53.05	Al1
ATOM	26715	O4	ADE	351	138.796	59.793	17.919	1.00	51.96	Al6S	ATOM	26768	O4	URI	353	146.150	58.506	11.210	1.00	53.05	Al1
ATOM	26716	C1	ADE	351	139.001	59.102	16.649	1.00	57.13	Al6S	ATOM	26769	C5	URI	353	146.487	58.102	13.531	1.00	53.05	Al1
ATOM	26717	N9	ADE	351	139.408	57.794	16.547	1.00	57.13	Al6S	ATOM	26770	C2	URI	353	149.617	55.231	15.189	1.00	55.37	Al1
ATOM	26718	C4	ADE	351	139.624	56.927	17.554	1.00	57.13	Al6S	ATOM	26771	O2	URI	353	150.210	53.971	15.393	1.00	55.37	Al1
ATOM	26719	N3	ADE	351	139.023	55.752	17.084	1.00	57.13	Al6S	ATOM	26772	C3	URI	353	149.752	56.112	16.415	1.00	55.37	Al1
ATOM	26720	C2	ADE	351	140.225	55.371	15.818	1.00	57.13	Al6S	ATOM	26773	O3	URI	353	150.980	55.880	17.066	1.00	55.37	Al1
ATOM	26721	N1	ADE	351	140.009	56.269	14.829	1.00	57.13	Al6S	ATOM	26774	P	URI	354	152.240	56.788	16.697	1.00	62.80	Al1
ATOM	26722	C6	ADE	351	140.234	55.894	13.565	1.00	57.13	Al6S	ATOM	26775	O1P	URI	354	153.357	56.363	17.583	1.00	68.64	Al1
ATOM	26723	N5	ADE	351	139.566	57.553	15.198	1.00	57.13	Al6S	ATOM	26776	O2P	URI	354	151.813	58.212	16.685	1.00	68.64	Al1
ATOM	26724	C6	ADE	351	139.237	58.681	14.460	1.00	57.13	Al6S	ATOM	26777	O5	URI	354	152.550	56.373	15.192	1.00	62.80	Al1
ATOM	26725	N7	ADE	351	138.899	59.564	15.366	1.00	57.13	Al6S	ATOM	26778	C5	URI	354	153.004	55.052	14.873	1.00	62.80	Al1
ATOM	26726	C8	ADE	351	140.132	60.313	18.442	1.00	51.96	Al6S	ATOM	26779	C4	URI	354	153.164	54.899	13.391	1.00	62.80	Al1
ATOM	26727	O2	ADE	351	140.158	60.086	19.832	1.00	51.96	Al6S	ATOM	26780	O4	URI	354	151.868	54.946	12.738	1.00	62.80	Al1
ATOM	26728	C2	ADE	351	140.053	61.800	18.118	1.00	51.96	Al6S	ATOM	26781	C1	URI	354	151.994	55.539	11.459	1.00	62.80	Al1
ATOM	26729	C3	ADE	351	140.910	62.493	19.010	1.00	51.96	Al6S	ATOM	26782	N1	URI	354	151.136	56.728	11.406	1.00	68.64	Al1
ATOM	26730	O3	ADE	351	140.910	62.493	19.010	1.00	51.96	Al6S	ATOM	26783	C6	URI	354	150.740	57.380	12.549	1.00	68.64	Al1

ATOM	26784	C2	URI	354	150.747	57.171	10.168	1.00	68.64	A16S	ATOM	26837	C3' GUA	356	158.323	62.901	5.739	1.00	54.60	AI
ATOM	26785	O2' URI	354	151.079	56.617	9.136	1.00	68.64	A16S	ATOM	26838	O3' GUA	356	159.489	63.450	5.152	1.00	54.60	AI	
ATOM	26786	N3 URI	354	149.955	58.290	10.180	1.00	68.64	A16S	ATOM	26839	P GUA	357	160.470	64.350	6.049	1.00	55.44	AI	
ATOM	26787	C4 URI	354	149.522	58.992	11.285	1.00	68.64	A16S	ATOM	26840	O1P GUA	357	161.611	64.778	5.195	1.00	61.07	AI	
ATOM	26788	O4 URI	354	148.795	59.978	11.136	1.00	68.64	A16S	ATOM	26841	O2P GUA	357	160.722	63.660	7.342	1.00	61.07	AI	
ATOM	26789	C5 URI	354	149.968	58.465	12.530	1.00	68.64	A16S	ATOM	26842	O5' GUA	357	159.608	65.638	6.381	1.00	55.44	AI	
ATOM	26790	C2' URI	354	153.464	55.881	11.240	1.00	62.80	A16S	ATOM	26843	C5' GUA	357	159.218	66.537	5.344	1.00	55.44	AI	
ATOM	26791	O2' URI	354	154.039	54.842	10.477	1.00	62.80	A16S	ATOM	26844	C4' GUA	357	158.320	67.608	5.896	1.00	55.44	AI	
ATOM	26792	C3' URI	354	153.981	55.964	12.672	1.00	62.80	A16S	ATOM	26845	O4' GUA	357	157.064	67.030	6.343	1.00	55.44	AI	
ATOM	26793	O3' URI	354	155.366	55.678	12.763	1.00	62.80	A16S	ATOM	26846	C1' GUA	357	156.555	67.785	7.427	1.00	55.44	AI	
ATOM	26794	AD ADE	355	156.435	56.841	12.489	1.00	49.36	A16S	ATOM	26847	N9 GUA	357	156.551	66.945	8.619	1.00	61.07	AI	
ATOM	26795	O1P ADE	355	157.789	56.261	12.697	1.00	72.96	A16S	ATOM	26848	C4 GUA	357	155.633	66.966	9.644	1.00	61.07	AI	
ATOM	26796	O2P ADE	355	156.027	58.037	13.268	1.00	72.96	A16S	ATOM	26849	N3 GUA	357	154.516	67.720	9.699	1.00	61.07	AI	
ATOM	26797	O5' ADE	355	156.258	57.151	10.933	1.00	49.36	A16S	ATOM	26850	C2 GUA	357	153.868	67.562	10.842	1.00	61.07	AI	
ATOM	26798	C5' ADE	355	156.594	56.161	9.941	1.00	49.36	A16S	ATOM	26851	N2 GUA	357	152.738	68.242	11.069	1.00	61.07	AI	
ATOM	26799	C4' ADE	355	156.339	56.691	8.549	1.00	49.36	A16S	ATOM	26852	N1 GUA	357	154.276	66.729	11.848	1.00	61.07	AI	
ATOM	26800	O4' ADE	355	154.916	56.784	8.292	1.00	49.36	A16S	ATOM	26853	C6 GUA	357	155.418	65.935	11.816	1.00	61.07	AI	
ATOM	26801	C1' ADE	355	154.650	57.915	7.479	1.00	49.36	A16S	ATOM	26854	O6 GUA	357	155.697	65.204	12.786	1.00	61.07	AI	
ATOM	26802	N9 ADE	355	153.834	58.840	8.264	1.00	72.96	A16S	ATOM	26855	C5 GUA	357	156.128	66.097	10.594	1.00	61.07	AI	
ATOM	26803	C4 ADE	355	152.957	59.777	7.779	1.00	72.96	A16S	ATOM	26856	N7 GUA	357	157.307	65.508	10.157	1.00	61.07	AI	
ATOM	26804	N3 ADE	355	152.673	60.041	6.494	1.00	72.96	A16S	ATOM	26857	C8 GUA	357	157.507	66.027	8.977	1.00	61.07	AI	
ATOM	26805	C2 ADE	355	151.766	61.009	6.406	1.00	72.96	A16S	ATOM	26858	C2' GUA	357	157.521	68.949	7.646	1.00	55.44	AI	
ATOM	26806	N1 ADE	355	151.155	61.688	7.382	1.00	72.96	A16S	ATOM	26859	O2' GUA	357	157.102	70.046	6.855	1.00	55.44	AI	
ATOM	26807	C6 ADE	355	151.462	61.393	8.661	1.00	72.96	A16S	ATOM	26860	C3' GUA	357	158.818	68.362	7.116	1.00	55.44	AI	
ATOM	26808	N6 ADE	355	150.849	62.061	9.634	1.00	72.96	A16S	ATOM	26861	O3' GUA	357	159.795	69.348	6.807	1.00	55.44	AI	
ATOM	26809	C5 ADE	355	152.413	60.392	8.890	1.00	72.96	A16S	ATOM	26862	P ADE	358	160.999	69.620	7.839	1.00	52.13	AI	
ATOM	26810	N7 ADE	355	152.942	59.861	10.055	1.00	72.96	A16S	ATOM	26863	O1P ADE	358	161.011	68.487	8.809	1.00	52.72	AI	
ATOM	26811	C8 ADE	355	153.779	58.950	9.632	1.00	72.96	A16S	ATOM	26864	O2P ADE	358	162.220	69.944	7.062	1.00	52.72	AI	
ATOM	26812	C2' ADE	355	155.996	58.524	7.092	1.00	49.36	A16S	ATOM	26865	O5' ADE	358	160.564	70.929	8.631	1.00	52.13	AI	
ATOM	26813	O2' ADE	355	156.422	57.948	5.875	1.00	49.36	A16S	ATOM	26866	C5' ADE	358	161.234	71.315	9.844	1.00	52.13	AI	
ATOM	26814	C3' ADE	355	156.873	58.079	8.252	1.00	49.36	A16S	ATOM	26867	C4' ADE	358	160.315	72.153	10.704	1.00	52.13	AI	
ATOM	26815	O3' ADE	355	158.231	58.033	7.893	1.00	49.36	A16S	ATOM	26868	O4' ADE	358	159.985	73.370	9.995	1.00	52.13	AI	
ATOM	26816	P GUA	356	159.186	59.259	8.278	1.00	54.60	A16S	ATOM	26869	C1' ADE	358	158.653	73.750	10.289	1.00	52.13	AI	
ATOM	26817	O1P GUA	356	158.915	59.614	9.701	1.00	67.76	A16S	ATOM	26870	N9 ADE	358	157.903	73.755	9.038	1.00	52.72	AI	
ATOM	26818	O2P GUA	356	160.572	58.907	7.859	1.00	67.76	A16S	ATOM	26871	C4 ADE	358	156.751	74.452	8.781	1.00	52.72	AI	
ATOM	26819	O5' GUA	356	158.669	60.445	7.348	1.00	54.60	A16S	ATOM	26872	N3 ADE	358	156.089	75.268	9.615	1.00	52.72	AI	
ATOM	26820	C5' GUA	356	158.794	60.364	5.922	1.00	54.60	A16S	ATOM	26873	C2 ADE	358	155.007	75.771	9.016	1.00	52.72	AI	
ATOM	26821	C4' GUA	356	158.035	61.490	5.255	1.00	54.60	A16S	ATOM	26874	N1 ADE	358	154.552	75.566	7.772	1.00	52.72	AI	
ATOM	26822	O4' GUA	356	156.607	61.323	5.460	1.00	54.60	A16S	ATOM	26875	C6 ADE	358	155.251	74.746	6.960	1.00	52.72	AI	
ATOM	26823	C1' GUA	356	155.988	62.594	5.558	1.00	54.60	A16S	ATOM	26876	N6 ADE	358	154.811	74.550	5.718	1.00	52.72	AI	
ATOM	26824	N9 GUA	356	155.457	62.739	6.909	1.00	67.76	A16S	ATOM	26877	C5 ADE	358	156.413	74.148	7.476	1.00	52.72	AI	
ATOM	26825	C4 GUA	356	154.393	63.520	7.298	1.00	67.76	A16S	ATOM	26878	N7 ADE	358	157.337	73.277	6.921	1.00	52.72	AI	
ATOM	26826	N3 GUA	356	153.612	64.262	6.486	1.00	67.76	A16S	ATOM	26879	C8 ADE	358	158.196	73.076	7.885	1.00	52.72	AI	
ATOM	26827	C2 GUA	356	152.695	64.927	7.160	1.00	67.76	A16S	ATOM	26880	C2' ADE	358	158.099	72.760	11.309	1.00	52.13	AI	
ATOM	26828	N2 GUA	356	151.837	65.719	6.515	1.00	67.76	A16S	ATOM	26881	O2' ADE	358	158.300	73.277	12.606	1.00	52.13	AI	
ATOM	26829	N1 GUA	356	152.553	64.869	8.521	1.00	67.76	A16S	ATOM	26882	C3' ADE	358	158.968	71.540	11.058	1.00	52.13	AI	
ATOM	26830	O6 GUA	356	153.343	64.115	9.378	1.00	67.76	A16S	ATOM	26883	O3' ADE	358	159.057	70.748	12.229	1.00	52.13	AI	
ATOM	26831	C6 GUA	356	153.132	64.143	10.596	1.00	67.76	A16S	ATOM	26884	P ADE	359	158.021	69.543	12.454	1.00	55.87	AI	
ATOM	26832	C5 GUA	356	154.331	63.393	8.670	1.00	67.76	A16S	ATOM	26885	O1P ADE	359	158.356	68.945	13.775	1.00	69.43	AI	
ATOM	26833	N7 GUA	356	155.315	62.530	9.131	1.00	67.76	A16S	ATOM	26886	O2P ADE	359	158.020	68.695	11.232	1.00	69.43	AI	
ATOM	26834	C8 GUA	356	155.950	62.160	8.054	1.00	67.76	A16S	ATOM	26887	O5' ADE	359	156.610	70.262	12.578	1.00	55.87	AI	
ATOM	26835	C2' GUA	356	157.068	63.646	5.309	1.00	54.60	A16S	ATOM	26888	C5' ADE	359	156.344	71.158	13.676	1.00	55.87	AI	
ATOM	26836	O2' GUA	356	157.095	63.975	3.934	1.00	54.60	A16S	ATOM	26889	C4' ADE	359	154.953	71.718	13.561	1.00	55.87	AI	

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ATOM	26890	O4' ADE	359	154.873	72.524	12.369	1.00	55.87	A16S	ATOM	26943	O2' CYT	361	143.176	66.108	20.125	1.00	50.05	A1
ATOM	26891	CL1' ADE	359	153.613	72.348	11.761	1.00	55.87	A16S	ATOM	26944	C3' CYT	361	145.606	66.393	19.863	1.00	50.05	A1
ATOM	26892	AY' ADE	359	153.853	71.934	10.380	1.00	69.43	A16S	ATOM	26945	O3' CYT	361	145.959	65.536	20.954	1.00	50.05	A1
ATOM	26893	C4' ADE	359	153.213	72.402	9.260	1.00	69.43	A16S	ATOM	26946	P URI	362	145.935	66.081	22.466	1.00	46.01	A1
ATOM	26894	N3 ADE	359	152.218	73.301	9.202	1.00	69.43	A16S	ATOM	26947	O1P URI	362	145.703	67.555	22.474	1.00	76.47	A1
ATOM	26895	C2 ADE	359	151.859	73.520	7.942	1.00	69.43	A16S	ATOM	26948	O2P URI	362	147.161	65.529	23.102	1.00	76.47	A1
ATOM	26896	N1 ADE	359	152.346	72.986	6.821	1.00	69.43	A16S	ATOM	26949	O5' URI	362	144.660	65.365	23.093	1.00	46.01	A1
ATOM	26897	C6 ADE	359	153.349	72.092	6.918	1.00	69.43	A16S	ATOM	26950	C5' URI	362	144.305	64.031	22.711	1.00	46.01	A1
ATOM	26898	N6 ADE	359	153.846	71.571	5.799	1.00	69.43	A16S	ATOM	26951	C4' URI	362	143.189	63.546	23.584	1.00	46.01	A1
ATOM	26899	C5 ADE	359	153.813	71.769	8.195	1.00	69.43	A16S	ATOM	26952	O4' URI	362	142.127	64.522	23.539	1.00	46.01	A1
ATOM	26900	AY' ADE	359	154.801	70.907	8.633	1.00	69.43	A16S	ATOM	26953	C1' URI	362	140.925	63.895	23.165	1.00	46.01	A1
ATOM	26901	C8 ADE	359	154.779	71.036	9.932	1.00	69.43	A16S	ATOM	26954	N1 URI	362	140.131	64.858	22.381	1.00	76.47	A1
ATOM	26902	C2' ADE	359	152.781	71.404	12.640	1.00	55.87	A16S	ATOM	26955	C6 URI	362	140.430	65.154	21.068	1.00	76.47	A1
ATOM	26903	O2' ADE	359	151.943	72.162	13.493	1.00	55.87	A16S	ATOM	26956	C2 URI	362	139.059	65.472	23.018	1.00	76.47	A1
ATOM	26904	C3' ADE	359	153.856	70.676	13.434	1.00	55.87	A16S	ATOM	26957	O2 URI	362	138.753	65.247	24.178	1.00	76.47	A1
ATOM	26905	O3' ADE	359	153.400	70.352	14.742	1.00	55.87	A16S	ATOM	26958	N3 URI	362	138.359	66.364	22.246	1.00	76.47	A1
ATOM	26906	P URI	360	152.770	68.907	15.042	1.00	51.17	A16S	ATOM	26959	C4 URI	362	138.606	66.701	20.936	1.00	76.47	A1
ATOM	26907	O1P URI	360	153.081	68.626	16.469	1.00	61.27	A16S	ATOM	26960	O4 URI	362	137.878	67.521	20.379	1.00	76.47	A1
ATOM	26908	O2P URI	360	153.194	67.939	13.994	1.00	61.27	A16S	ATOM	26961	C5 URI	362	139.723	66.030	20.346	1.00	76.47	A1
ATOM	26909	O5' URI	360	151.200	69.133	14.877	1.00	51.17	A16S	ATOM	26962	C2' URI	362	141.315	62.593	22.461	1.00	46.01	A1
ATOM	26910	C5' URI	360	150.481	70.054	15.723	1.00	51.17	A16S	ATOM	26963	O2' URI	362	140.272	61.642	22.542	1.00	46.01	A1
ATOM	26911	C4' URI	360	149.089	70.287	15.180	1.00	51.17	A16S	ATOM	26964	C3' URI	362	142.579	62.197	23.225	1.00	46.01	A1
ATOM	26912	O4' URI	360	149.118	71.185	14.059	1.00	51.17	A16S	ATOM	26965	O3' URI	362	142.255	61.517	24.447	1.00	46.01	A1
ATOM	26913	C1' URI	360	147.969	70.961	13.280	1.00	51.17	A16S	ATOM	26966	P URI	363	143.172	60.290	24.962	1.00	53.49	A1
ATOM	26914	N1 URI	360	148.288	71.235	11.872	1.00	61.27	A16S	ATOM	26967	O1P URI	363	142.753	59.993	26.357	1.00	69.59	A1
ATOM	26915	C6 URI	360	147.481	72.068	11.143	1.00	61.27	A16S	ATOM	26968	O2P URI	363	144.602	60.550	24.665	1.00	69.59	A1
ATOM	26916	C2 URI	360	149.415	70.655	11.304	1.00	61.27	A16S	ATOM	26969	O5' URI	363	142.701	59.073	24.058	1.00	53.49	A1
ATOM	26917	O2 URI	360	150.154	69.895	11.904	1.00	61.27	A16S	ATOM	26970	C5' URI	363	141.353	58.591	24.130	1.00	53.49	A1
ATOM	26918	N3 URI	360	149.642	71.003	9.998	1.00	61.27	A16S	ATOM	26971	C4' URI	363	140.865	58.242	22.756	1.00	53.49	A1
ATOM	26919	C4 URI	360	148.878	71.844	9.220	1.00	61.27	A16S	ATOM	26972	O4' URI	363	141.747	57.276	22.149	1.00	53.49	A1
ATOM	26920	O4 URI	360	149.246	72.112	8.080	1.00	61.27	A16S	ATOM	26973	C1' URI	363	141.014	56.516	21.216	1.00	53.49	A1
ATOM	26921	C5 URI	360	147.730	72.382	9.874	1.00	61.27	A16S	ATOM	26974	N1 URI	363	141.384	55.101	21.346	1.00	69.59	A1
ATOM	26922	C2' URI	360	147.405	69.572	13.612	1.00	51.17	A16S	ATOM	26975	C6 URI	363	141.153	54.385	22.506	1.00	69.59	A1
ATOM	26923	O2' URI	360	146.062	69.637	14.041	1.00	51.17	A16S	ATOM	26976	C2 URI	363	141.962	54.503	20.244	1.00	69.59	A1
ATOM	26924	C3' URI	360	148.376	69.045	14.676	1.00	51.17	A16S	ATOM	26977	O2 URI	363	142.220	55.116	19.215	1.00	69.59	A1
ATOM	26925	O3' URI	360	147.667	68.512	15.784	1.00	51.17	A16S	ATOM	26978	N3 URI	363	142.234	53.163	20.392	1.00	69.59	A1
ATOM	26926	P CYT	361	147.642	66.931	16.051	1.00	50.05	A16S	ATOM	26979	C4 URI	363	142.006	52.384	21.509	1.00	69.59	A1
ATOM	26927	O1P CYT	361	149.046	66.453	16.200	1.00	52.46	A16S	ATOM	26980	O4 URI	363	142.246	51.179	21.461	1.00	69.59	A1
ATOM	26928	O2P CYT	361	146.741	66.303	15.047	1.00	52.46	A16S	ATOM	26981	C5 URI	363	141.439	53.084	22.620	1.00	69.59	A1
ATOM	26929	O5' CYT	361	146.941	66.831	17.471	1.00	50.05	A16S	ATOM	26982	C2' URI	363	139.520	56.820	21.388	1.00	53.49	A1
ATOM	26930	C5' CYT	361	147.468	67.544	18.596	1.00	50.05	A16S	ATOM	26983	O2' URI	363	139.039	57.568	20.287	1.00	53.49	A1
ATOM	26931	C4' CYT	361	146.418	67.652	19.665	1.00	50.05	A16S	ATOM	26984	C3' URI	363	139.493	57.603	22.697	1.00	53.49	A1
ATOM	26932	O4' CYT	361	145.472	68.706	19.367	1.00	50.05	A16S	ATOM	26985	O3' URI	363	138.540	58.642	22.619	1.00	53.49	A1
ATOM	26933	C1' CYT	361	144.141	68.220	19.434	1.00	50.05	A16S	ATOM	26986	P CYT	364	136.995	58.327	22.852	1.00	56.76	A1
ATOM	26934	N1 CYT	361	143.403	68.829	18.304	1.00	52.46	A16S	ATOM	26987	O1P CYT	364	136.824	56.880	23.121	1.00	80.26	A1
ATOM	26935	C6 CYT	361	144.057	69.115	17.140	1.00	52.46	A16S	ATOM	26988	O2P CYT	364	136.256	58.954	21.737	1.00	80.26	A1
ATOM	26936	C2 CYT	361	142.023	69.117	18.427	1.00	52.46	A16S	ATOM	26989	O5' CYT	364	136.668	59.141	24.176	1.00	56.76	A1
ATOM	26937	O2 CYT	361	141.432	68.843	19.475	1.00	52.46	A16S	ATOM	26990	C5' CYT	364	137.557	59.102	25.310	1.00	56.76	A1
ATOM	26938	N3 CYT	361	141.373	69.682	17.390	1.00	52.46	A16S	ATOM	26991	C4' CYT	364	137.193	60.194	26.284	1.00	56.76	A1
ATOM	26939	C4 CYT	361	142.031	69.951	16.264	1.00	52.46	A16S	ATOM	26992	O4' CYT	364	137.677	61.468	25.799	1.00	56.76	A1
ATOM	26940	N4 CYT	361	141.354	70.495	15.262	1.00	52.46	A16S	ATOM	26993	C1' CYT	364	136.725	62.482	26.074	1.00	56.76	A1
ATOM	26941	C5 CYT	361	143.419	69.668	16.110	1.00	52.46	A16S	ATOM	26994	N1 CYT	364	136.300	63.076	24.791	1.00	80.26	A1
ATOM	26942	C2' CYT	361	144.200	66.693	19.349	1.00	50.05	A16S	ATOM	26995	C6 CYT	364	136.805	62.618	23.606	1.00	80.26	A1

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ATOM	26996	C2	CYT	364	135.375	64.119	24.801	1.00	80.26	Al6S	ATOM	27049	P	CYT	367	123.477	59.308	27.157	1.00	54.77	Al6S
ATOM	26997	O2	CYT	364	134.921	64.503	25.885	1.00	80.26	Al6S	ATOM	27050	O1P	CYT	367	122.897	58.454	28.212	1.00	73.84	Al6S
ATOM	26998	N2	CYT	364	134.994	64.680	23.631	1.00	80.26	Al6S	ATOM	27051	O2P	CYT	367	124.464	58.742	26.208	1.00	73.84	Al6S
ATOM	26999	C4	CYT	364	135.495	64.225	22.482	1.00	80.26	Al6S	ATOM	27052	O5	CYT	367	122.292	59.939	26.323	1.00	54.77	Al6S
ATOM	27000	N4	CYT	364	135.093	64.799	21.349	1.00	80.26	Al6S	ATOM	27053	C5	CYT	367	121.709	61.159	26.802	1.00	54.77	Al6S
ATOM	27001	C5	CYT	364	136.434	63.157	22.442	1.00	80.26	Al6S	ATOM	27054	C4	CYT	367	121.070	61.918	25.685	1.00	54.77	Al6S
ATOM	27002	C2	CYT	364	135.582	61.846	26.870	1.00	56.76	Al6S	ATOM	27055	O1	CYT	367	121.987	62.206	24.619	1.00	54.77	Al6S
ATOM	27003	O2	CYT	364	135.794	62.055	28.249	1.00	56.76	Al6S	ATOM	27056	C1	CYT	367	121.214	62.560	23.504	1.00	54.77	Al6S
ATOM	27004	C3	CYT	364	135.699	60.384	26.465	1.00	56.76	Al6S	ATOM	27057	N1	CYT	367	122.064	62.474	22.306	1.00	73.84	Al6S
ATOM	27005	O3	CYT	364	135.196	59.494	27.439	1.00	56.76	Al6S	ATOM	27058	C6	CYT	367	123.234	61.766	22.322	1.00	73.84	Al6S
ATOM	27006	P	CYT	365	133.741	58.851	27.249	1.00	55.01	Al6S	ATOM	27059	C2	CYT	367	121.654	63.128	21.143	1.00	73.84	Al6S
ATOM	27007	O1P	CYT	365	133.511	58.582	25.811	1.00	72.34	Al6S	ATOM	27060	O2	CYT	367	120.598	63.790	21.163	1.00	73.84	Al6S
ATOM	27008	O2P	CYT	365	133.616	57.744	28.239	1.00	72.34	Al6S	ATOM	27061	N3	CYT	367	122.415	63.028	20.028	1.00	73.84	Al6S
ATOM	27009	O5	CYT	365	132.762	60.021	27.686	1.00	55.01	Al6S	ATOM	27062	C4	CYT	367	123.543	62.317	20.050	1.00	73.84	Al6S
ATOM	27010	C5	CYT	365	132.827	60.555	29.012	1.00	55.01	Al6S	ATOM	27063	N4	CYT	367	124.247	62.222	18.922	1.00	73.84	Al6S
ATOM	27011	C4	CYT	365	131.739	61.575	29.216	1.00	55.01	Al6S	ATOM	27064	C5	CYT	367	123.996	61.664	21.228	1.00	73.84	Al6S
ATOM	27012	O4	CYT	365	132.103	62.840	28.601	1.00	55.01	Al6S	ATOM	27065	C2	CYT	367	120.014	61.604	23.533	1.00	54.77	Al6S
ATOM	27013	C1	CYT	365	130.937	63.464	28.084	1.00	55.01	Al6S	ATOM	27066	O2	CYT	367	118.843	62.112	22.926	1.00	54.77	Al6S
ATOM	27014	N1	CYT	365	131.054	63.564	26.617	1.00	72.34	Al6S	ATOM	27067	C3	CYT	367	119.962	61.148	25.011	1.00	54.77	Al6S
ATOM	27015	C6	CYT	365	131.998	62.853	25.929	1.00	72.34	Al6S	ATOM	27068	O3	CYT	367	118.800	61.295	25.857	1.00	54.77	Al6S
ATOM	27016	C2	CYT	365	130.159	64.391	25.930	1.00	72.34	Al6S	ATOM	27069	P	ADE	368	118.127	62.736	26.089	1.00	48.14	Al6S
ATOM	27017	O2	CYT	365	129.323	65.040	26.580	1.00	72.34	Al6S	ATOM	27070	O1P	ADE	368	116.669	62.451	26.263	1.00	76.98	Al6S
ATOM	27018	N3	CYT	365	130.227	64.461	24.578	1.00	72.34	Al6S	ATOM	27071	O2P	ADE	368	118.566	63.663	25.006	1.00	76.98	Al6S
ATOM	27019	C4	CYT	365	131.140	63.748	23.918	1.00	72.34	Al6S	ATOM	27072	O5	ADE	368	118.566	63.663	25.006	1.00	76.98	Al6S
ATOM	27020	N4	CYT	365	131.159	63.832	22.587	1.00	72.34	Al6S	ATOM	27073	C5	ADE	368	118.730	63.321	27.449	1.00	48.14	Al6S
ATOM	27021	C5	CYT	365	132.074	62.913	24.594	1.00	72.34	Al6S	ATOM	27074	C4	ADE	368	117.834	63.957	28.424	1.00	48.14	Al6S
ATOM	27022	C2	CYT	365	129.740	62.594	28.468	1.00	55.01	Al6S	ATOM	27075	O4	ADE	368	117.821	65.486	28.302	1.00	48.14	Al6S
ATOM	27023	O2	CYT	365	129.202	63.074	29.687	1.00	55.01	Al6S	ATOM	27076	C1	ADE	368	119.069	66.022	28.798	1.00	48.14	Al6S
ATOM	27024	C3	CYT	365	130.393	61.223	28.604	1.00	55.01	Al6S	ATOM	27077	N9	ADE	368	119.419	67.179	28.060	1.00	48.14	Al6S
ATOM	27025	O3	CYT	365	129.647	60.294	29.388	1.00	55.01	Al6S	ATOM	27078	C4	ADE	368	121.437	67.813	26.648	1.00	76.98	Al6S
ATOM	27026	P	GUA	366	128.616	59.288	28.663	1.00	53.08	Al6S	ATOM	27079	N3	ADE	368	121.178	69.115	26.431	1.00	76.98	Al6S
ATOM	27027	O1P	GUA	366	128.005	58.432	29.716	1.00	64.30	Al6S	ATOM	27080	C2	ADE	368	122.133	69.665	25.686	1.00	76.98	Al6S
ATOM	27028	O2P	GUA	366	129.271	58.666	27.470	1.00	64.30	Al6S	ATOM	27081	N1	ADE	368	123.236	69.106	25.175	1.00	76.98	Al6S
ATOM	27029	O5	GUA	366	127.467	60.238	28.138	1.00	53.08	Al6S	ATOM	27082	C6	ADE	368	123.467	67.797	25.416	1.00	76.98	Al6S
ATOM	27030	C5	GUA	366	126.930	61.229	29.005	1.00	53.08	Al6S	ATOM	27083	N6	ADE	368	124.573	67.236	24.916	1.00	76.98	Al6S
ATOM	27031	C4	GUA	366	125.970	62.093	28.260	1.00	53.08	Al6S	ATOM	27084	C5	ADE	368	122.525	67.101	26.188	1.00	76.98	Al6S
ATOM	27032	O4	GUA	366	126.662	63.092	27.465	1.00	53.08	Al6S	ATOM	27085	N7	ADE	368	122.461	65.784	26.607	1.00	76.98	Al6S
ATOM	27033	C1	GUA	366	125.894	63.367	26.304	1.00	53.08	Al6S	ATOM	27086	C8	ADE	368	121.357	65.728	27.300	1.00	76.98	Al6S
ATOM	27034	N9	GUA	366	126.698	63.101	25.109	1.00	64.30	Al6S	ATOM	27087	C2	ADE	368	118.264	67.504	27.112	1.00	48.14	Al6S
ATOM	27035	C4	GUA	366	126.491	63.652	23.866	1.00	64.30	Al6S	ATOM	27088	O2	ADE	368	117.408	68.422	27.744	1.00	48.14	Al6S
ATOM	27036	N3	GUA	366	125.540	64.555	23.550	1.00	64.30	Al6S	ATOM	27089	C3	ADE	368	117.590	66.150	26.941	1.00	48.14	Al6S
ATOM	27037	C2	GUA	366	125.586	64.900	22.277	1.00	64.30	Al6S	ATOM	27090	O3	ADE	368	116.197	66.366	26.659	1.00	48.14	Al6S
ATOM	27038	N2	GUA	366	124.720	65.799	21.801	1.00	64.30	Al6S	ATOM	27091	P	ADE	369	115.739	66.925	25.209	1.00	48.53	Al6S
ATOM	27039	N1	GUA	366	126.485	64.392	21.377	1.00	64.30	Al6S	ATOM	27092	O1P	ADE	369	114.278	67.200	25.242	1.00	62.04	Al6S
ATOM	27040	C6	GUA	366	127.465	63.454	21.670	1.00	64.30	Al6S	ATOM	27093	O2P	ADE	369	116.271	65.987	24.190	1.00	62.04	Al6S
ATOM	27041	O6	GUA	366	128.204	63.049	20.774	1.00	64.30	Al6S	ATOM	27094	O5	ADE	369	116.539	68.296	25.032	1.00	48.53	Al6S
ATOM	27042	C5	GUA	366	127.443	63.084	23.048	1.00	64.30	Al6S	ATOM	27095	C5	ADE	369	116.024	69.556	25.520	1.00	48.53	Al6S
ATOM	27043	N7	GUA	366	128.248	62.208	23.764	1.00	64.30	Al6S	ATOM	27096	C4	ADE	369	116.649	70.715	24.760	1.00	48.53	Al6S
ATOM	27044	C8	GUA	366	127.773	62.252	24.981	1.00	64.30	Al6S	ATOM	27097	O1	ADE	369	118.089	70.682	24.924	1.00	48.53	Al6S
ATOM	27045	C2	GUA	366	124.644	62.485	26.363	1.00	53.08	Al6S	ATOM	27098	C1	ADE	369	118.719	71.071	23.713	1.00	48.53	Al6S
ATOM	27046	O2	GUA	366	123.622	63.222	26.987	1.00	53.08	Al6S	ATOM	27099	N9	ADE	369	119.552	69.958	23.243	1.00	62.04	Al6S
ATOM	27047	C3	GUA	366	125.117	61.350	27.260	1.00	53.08	Al6S	ATOM	27100	C4	ADE	369	120.386	69.960	22.146	1.00	62.04	Al6S
ATOM	27048	O3	GUA	366	124.097	60.599	27.898	1.00	53.08	Al6S	ATOM	27101	N3	ADE	369	120.612	70.970	21.285	1.00	62.04	Al6S

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ATOM	27102	C2	ADE	369	121.475	70.602	20.344	1.00	62.04	A16S	ATOM	27155	O3'	GUA	371	115.043	69.190	11.658	1.00	41.37	A16
ATOM	27103	N1	ADE	369	122.089	69.432	20.173	1.00	62.04	A16S	ATOM	27156	P	GUA	372	113.949	68.053	11.379	1.00	38.29	A16
ATOM	27104	C6'	ADE	369	121.839	68.439	21.051	1.00	62.04	A16S	ATOM	27157	O1P	GUA	372	113.180	68.392	10.150	1.00	60.47	A16
ATOM	27105	N6	ADE	369	122.446	67.266	20.876	1.00	62.04	A16S	ATOM	27158	O2P	GUA	372	113.238	67.817	12.665	1.00	60.47	A16
ATOM	27106	C5	ADE	369	120.947	68.701	22.100	1.00	62.04	A16S	ATOM	27159	O5'	GUA	372	114.824	66.782	11.023	1.00	38.29	A16
ATOM	27107	N7	ADE	369	120.485	67.919	23.147	1.00	62.04	A16S	ATOM	27160	C5'	GUA	372	115.564	66.757	9.805	1.00	38.29	A16
ATOM	27108	C8	ADE	369	119.665	68.707	23.792	1.00	62.04	A16S	ATOM	27161	C4'	GUA	372	116.331	65.481	9.689	1.00	38.29	A16
ATOM	27109	C2	ADE	369	117.625	71.459	22.718	1.00	48.53	A16S	ATOM	27162	O4'	GUA	372	117.241	65.355	10.803	1.00	38.29	A16
ATOM	27110	O2'	ADE	369	117.398	72.849	22.754	1.00	48.53	A16S	ATOM	27163	C1'	GUA	372	117.403	63.993	11.119	1.00	38.29	A16
ATOM	27111	C3'	ADE	369	116.430	70.700	23.256	1.00	48.53	A16S	ATOM	27164	N9	GUA	372	117.038	63.796	12.517	1.00	60.47	A16
ATOM	27112	O4'	ADE	369	115.249	71.381	22.901	1.00	48.53	A16S	ATOM	27165	C4	GUA	372	117.257	62.660	13.253	1.00	60.47	A16
ATOM	27113	C4'	URI	370	114.423	70.895	21.628	1.00	49.52	A16S	ATOM	27166	N3	GUA	372	117.879	61.543	12.819	1.00	60.47	A16
ATOM	27114	O1P	URI	370	113.167	71.659	21.587	1.00	54.47	A16S	ATOM	27167	C2	GUA	372	117.939	60.617	13.756	1.00	60.47	A16
ATOM	27115	O2P	URI	370	114.390	69.419	21.679	1.00	54.47	A16S	ATOM	27168	N2	GUA	372	118.552	59.462	13.508	1.00	60.47	A16
ATOM	27116	O5'	URI	370	115.310	71.340	20.387	1.00	49.52	A16S	ATOM	27169	N1	GUA	372	117.411	60.759	15.012	1.00	60.47	A16
ATOM	27117	C6'	URI	370	115.446	72.737	20.035	1.00	49.52	A16S	ATOM	27170	C6	GUA	372	116.754	61.890	15.481	1.00	60.47	A16
ATOM	27118	C4'	URI	370	116.302	72.902	18.793	1.00	49.52	A16S	ATOM	27171	O6	GUA	372	116.293	61.901	16.630	1.00	60.47	A16
ATOM	27119	O4'	URI	370	117.693	72.598	19.086	1.00	49.52	A16S	ATOM	27172	C5	GUA	372	116.708	62.913	14.488	1.00	60.47	A16
ATOM	27120	C1'	URI	370	118.282	71.947	17.971	1.00	49.52	A16S	ATOM	27173	N7	GUA	372	116.180	64.196	14.537	1.00	60.47	A16
ATOM	27121	N1	URI	370	118.649	70.580	18.380	1.00	54.47	A16S	ATOM	27174	C8	GUA	372	116.399	64.680	13.347	1.00	60.47	A16
ATOM	27122	C6	URI	370	118.138	70.015	19.531	1.00	54.47	A16S	ATOM	27175	C2'	GUA	372	116.525	63.185	10.158	1.00	38.29	A16
ATOM	27123	C2	URI	370	119.523	69.867	17.572	1.00	54.47	A16S	ATOM	27176	O2'	GUA	372	117.293	62.766	9.047	1.00	38.29	A16
ATOM	27124	O2	URI	370	120.005	70.320	16.543	1.00	54.47	A16S	ATOM	27177	C3'	GUA	372	115.505	64.216	9.724	1.00	38.29	A16
ATOM	27125	N3	URI	370	119.809	68.598	18.014	1.00	54.47	A16S	ATOM	27178	O3'	GUA	372	115.028	63.926	8.431	1.00	38.29	A16
ATOM	27126	C4	URI	370	119.322	67.981	19.144	1.00	54.47	A16S	ATOM	27179	P	GUA	373	113.689	63.079	8.257	1.00	40.24	A16
ATOM	27127	O4	URI	370	119.629	66.816	19.370	1.00	54.47	A16S	ATOM	27180	O1P	GUA	373	113.259	63.229	8.839	1.00	51.79	A16
ATOM	27128	C5	URI	370	118.438	68.776	19.927	1.00	54.47	A16S	ATOM	27181	O2P	GUA	373	112.758	63.454	9.347	1.00	51.79	A16
ATOM	27129	O2'	URI	370	117.252	71.953	16.841	1.00	49.52	A16S	ATOM	27182	O5'	GUA	373	114.158	61.580	8.511	1.00	40.24	A16
ATOM	27130	C2'	URI	370	117.419	73.117	16.056	1.00	49.52	A16S	ATOM	27183	C5'	GUA	373	114.900	60.851	7.503	1.00	40.24	A16
ATOM	27131	C3'	URI	370	115.950	72.003	17.622	1.00	49.52	A16S	ATOM	27184	C4'	GUA	373	115.079	59.403	7.916	1.00	40.24	A16
ATOM	27132	O3'	URI	370	114.893	72.522	16.849	1.00	49.52	A16S	ATOM	27185	O4'	GUA	373	115.986	59.310	9.051	1.00	40.24	A16
ATOM	27133	P	GUA	371	113.882	71.506	16.140	1.00	41.37	A16S	ATOM	27186	C1'	GUA	373	115.539	58.298	9.938	1.00	40.24	A16
ATOM	27134	O1P	GUA	371	112.877	72.298	15.376	1.00	70.79	A16S	ATOM	27187	N9	GUA	373	115.175	58.930	11.199	1.00	51.79	A16
ATOM	27135	O2P	GUA	371	113.431	70.557	17.197	1.00	70.79	A16S	ATOM	27188	C4	GUA	373	115.104	58.326	12.427	1.00	51.79	A16
ATOM	27136	O5'	GUA	371	114.789	70.709	15.091	1.00	41.37	A16S	ATOM	27189	N3	GUA	373	115.357	57.028	12.689	1.00	51.79	A16
ATOM	27137	C5'	GUA	371	115.416	71.395	13.984	1.00	41.37	A16S	ATOM	27190	C2	GUA	373	115.218	56.750	13.970	1.00	51.79	A16
ATOM	27138	C4'	GUA	371	116.357	70.477	13.231	1.00	41.37	A16S	ATOM	27191	N2	GUA	373	115.446	55.512	14.409	1.00	51.79	A16
ATOM	27139	O4'	GUA	371	117.552	70.169	14.007	1.00	41.37	A16S	ATOM	27192	N1	GUA	373	114.850	57.667	14.914	1.00	51.79	A16
ATOM	27140	C1'	GUA	371	118.032	68.879	13.642	1.00	41.37	A16S	ATOM	27193	C6	GUA	373	114.576	59.006	14.660	1.00	51.79	A16
ATOM	27141	N9	GUA	371	117.992	68.007	14.814	1.00	70.79	A16S	ATOM	27194	O6	GUA	373	114.244	59.755	15.585	1.00	51.79	A16
ATOM	27142	C4	GUA	371	118.634	66.801	14.968	1.00	70.79	A16S	ATOM	27195	C5	GUA	373	114.730	59.319	13.299	1.00	51.79	A16
ATOM	27143	N3	GUA	371	119.459	66.222	14.076	1.00	70.79	A16S	ATOM	27196	N7	GUA	373	114.561	60.523	12.635	1.00	51.79	A16
ATOM	27144	C2	GUA	371	119.919	65.063	14.512	1.00	70.79	A16S	ATOM	27197	C8	GUA	373	114.832	60.245	11.394	1.00	51.79	A16
ATOM	27145	N2	GUA	371	120.772	64.358	13.755	1.00	70.79	A16S	ATOM	27198	C2'	GUA	373	114.346	57.607	9.288	1.00	40.24	A16
ATOM	27146	C6	GUA	371	119.582	64.511	15.724	1.00	70.79	A16S	ATOM	27199	O2'	GUA	373	114.833	56.494	8.570	1.00	40.24	A16
ATOM	27147	O6	GUA	371	118.728	65.092	16.655	1.00	70.79	A16S	ATOM	27200	C3'	GUA	373	113.815	58.708	8.382	1.00	40.24	A16
ATOM	27148	C5	GUA	371	118.480	64.510	17.721	1.00	70.79	A16S	ATOM	27201	O3'	GUA	373	113.049	58.225	7.443	1.00	46.43	A16
ATOM	27149	C5	GUA	371	118.244	66.335	16.206	1.00	70.79	A16S	ATOM	27202	P	CYT	374	111.450	58.179	7.301	1.00	40.24	A16
ATOM	27150	N7	GUA	371	117.394	67.232	16.825	1.00	70.79	A16S	ATOM	27203	O1P	CYT	374	110.824	57.920	6.106	1.00	53.63	A16
ATOM	27151	C8	GUA	371	117.276	68.210	15.968	1.00	70.79	A16S	ATOM	27204	O2P	CYT	374	111.032	59.374	8.231	1.00	53.63	A16
ATOM	27152	C2'	GUA	371	117.103	68.346	12.548	1.00	41.37	A16S	ATOM	27205	O5'	CYT	374	111.215	56.914	8.372	1.00	46.43	A16
ATOM	27153	O2'	GUA	371	117.621	68.691	11.281	1.00	41.37	A16S	ATOM	27206	C5'	CYT	374	111.568	55.599	7.928	1.00	46.43	A16
ATOM	27154	C3'	GUA	371	115.825	69.118	12.823	1.00	41.37	A16S	ATOM	27207	C4'	CYT	374	111.391	54.625	9.056	1.00	46.43	A16

ATOM	27208	O4' CYT	374	112.302	54.979	10.129	1.00	46.43	Al6S	ATOM	27261	C2' CYT	376	100.932	56.683	16.208	1.00	54.58	Al6S
ATOM	27209	C1' CYT	374	111.718	54.662	11.377	1.00	46.43	Al6S	ATOM	27262	O2' CYT	376	100.148	57.856	16.271	1.00	54.58	Al6S
ATOM	27210	N4' CYT	374	111.660	55.883	12.206	1.00	53.63	Al6S	ATOM	27263	C3' CYT	376	101.983	56.753	15.114	1.00	54.58	Al6S
ATOM	27211	C6' CYT	374	111.311	57.091	11.661	1.00	53.63	Al6S	ATOM	27264	O3' CYT	376	102.572	58.029	15.084	1.00	54.58	Al6S
ATOM	27212	C2' CYT	374	111.946	55.786	13.583	1.00	53.63	Al6S	ATOM	27265	P	377	103.873	58.303	15.986	1.00	55.82	Al6S
ATOM	27213	O2' CYT	374	112.315	54.695	14.050	1.00	53.63	Al6S	ATOM	27266	O1P ADE	377	104.121	59.771	16.015	1.00	82.39	Al6S
ATOM	27214	N3' CYT	374	111.824	56.888	14.364	1.00	53.63	Al6S	ATOM	27267	O2P ADE	377	104.929	57.390	15.483	1.00	82.39	Al6S
ATOM	27215	C4' CYT	374	111.457	58.054	13.824	1.00	53.63	Al6S	ATOM	27268	O5' ADE	377	103.466	57.836	17.457	1.00	55.82	Al6S
ATOM	27216	N4' CYT	374	111.331	59.102	14.633	1.00	53.63	Al6S	ATOM	27269	C5' ADE	377	102.660	58.666	18.319	1.00	55.82	Al6S
ATOM	27217	C5' CYT	374	111.199	58.192	12.427	1.00	53.63	Al6S	ATOM	27270	C4' ADE	377	102.567	58.049	19.697	1.00	55.82	Al6S
ATOM	27218	O2' CYT	374	110.338	54.061	11.102	1.00	46.43	Al6S	ATOM	27271	O4' ADE	377	102.081	56.693	19.542	1.00	55.82	Al6S
ATOM	27219	O2' CYT	374	110.446	52.650	11.091	1.00	46.43	Al6S	ATOM	27272	C1' ADE	377	102.776	55.826	20.422	1.00	55.82	Al6S
ATOM	27220	C3' CYT	374	110.026	54.629	9.724	1.00	46.43	Al6S	ATOM	27273	N9' ADE	377	103.496	54.835	19.612	1.00	82.39	Al6S
ATOM	27221	O3' CYT	374	109.046	53.885	9.002	1.00	46.43	Al6S	ATOM	27274	C4' ADE	377	103.935	53.598	20.020	1.00	82.39	Al6S
ATOM	27222	P	375	107.515	54.373	9.034	1.00	48.89	Al6S	ATOM	27275	N3' ADE	377	103.809	53.047	21.237	1.00	82.39	Al6S
ATOM	27223	O1P GUA	375	106.703	53.467	8.169	1.00	64.97	Al6S	ATOM	27276	C2' ADE	377	104.345	51.829	21.258	1.00	82.39	Al6S
ATOM	27224	O2P GUA	375	107.495	55.829	8.786	1.00	64.97	Al6S	ATOM	27277	N1' ADE	377	104.947	51.151	20.277	1.00	82.39	Al6S
ATOM	27225	O5' GUA	375	107.120	54.166	10.564	1.00	48.89	Al6S	ATOM	27278	C6' ADE	377	105.056	51.732	19.068	1.00	82.39	Al6S
ATOM	27226	C5' GUA	375	107.239	52.882	11.196	1.00	48.89	Al6S	ATOM	27279	N6' ADE	377	105.652	51.054	18.091	1.00	82.39	Al6S
ATOM	27227	O4' GUA	375	106.924	52.661	12.661	1.00	48.89	Al6S	ATOM	27280	C5' ADE	377	104.530	53.025	18.913	1.00	82.39	Al6S
ATOM	27228	C4' GUA	375	107.965	53.560	13.452	1.00	48.89	Al6S	ATOM	27281	N7' ADE	377	104.481	53.886	17.828	1.00	82.39	Al6S
ATOM	27229	C1' GUA	375	107.386	54.165	14.598	1.00	48.89	Al6S	ATOM	27282	C8' ADE	377	103.864	54.941	18.292	1.00	82.39	Al6S
ATOM	27230	N9' GUA	375	107.661	55.602	14.582	1.00	64.97	Al6S	ATOM	27283	C2' ADE	377	103.681	56.685	21.310	1.00	55.82	Al6S
ATOM	27231	C4' GUA	375	107.711	56.434	15.678	1.00	64.97	Al6S	ATOM	27284	O2' ADE	377	103.032	56.985	22.529	1.00	55.82	Al6S
ATOM	27232	N3' GUA	375	107.611	56.054	16.967	1.00	64.97	Al6S	ATOM	27285	C3' ADE	377	103.888	57.918	20.443	1.00	55.82	Al6S
ATOM	27233	C2' GUA	375	107.617	57.091	17.793	1.00	64.97	Al6S	ATOM	27286	O3' ADE	377	104.138	59.055	21.254	1.00	55.82	Al6S
ATOM	27234	N2' GUA	375	107.527	56.899	19.111	1.00	64.97	Al6S	ATOM	27287	P	378	105.613	59.303	21.841	1.00	63.25	Al6S
ATOM	27235	N1' GUA	375	107.710	58.396	17.390	1.00	64.97	Al6S	ATOM	27288	O1P ADE	378	105.594	60.541	22.662	1.00	84.34	Al6S
ATOM	27236	C6' GUA	375	107.814	58.819	16.071	1.00	64.97	Al6S	ATOM	27289	O2P ADE	378	106.559	59.197	20.697	1.00	84.34	Al6S
ATOM	27237	O6' GUA	375	107.869	60.037	15.816	1.00	64.97	Al6S	ATOM	27290	O5' ADE	378	105.858	58.082	22.836	1.00	63.25	Al6S
ATOM	27238	C5' GUA	375	107.824	57.708	15.165	1.00	64.97	Al6S	ATOM	27291	C5' ADE	378	105.247	58.050	24.141	1.00	63.25	Al6S
ATOM	27239	N7' GUA	375	107.913	57.674	13.780	1.00	64.97	Al6S	ATOM	27292	C4' ADE	378	105.559	56.748	24.830	1.00	63.25	Al6S
ATOM	27240	C8' GUA	375	107.832	56.406	13.480	1.00	64.97	Al6S	ATOM	27293	O4' ADE	378	105.082	55.656	24.003	1.00	63.25	Al6S
ATOM	27241	C2' GUA	375	105.874	53.922	14.527	1.00	48.89	Al6S	ATOM	27294	C1' ADE	378	105.986	54.564	24.078	1.00	63.25	Al6S
ATOM	27242	O2' GUA	375	105.527	52.790	15.298	1.00	48.89	Al6S	ATOM	27295	N9' ADE	378	106.510	54.299	22.737	1.00	84.34	Al6S
ATOM	27243	C3' GUA	375	105.659	53.676	13.041	1.00	48.89	Al6S	ATOM	27296	C4' ADE	378	107.048	53.115	22.292	1.00	84.34	Al6S
ATOM	27244	O3' GUA	375	104.490	52.907	12.811	1.00	48.89	Al6S	ATOM	27297	N3' ADE	378	107.196	51.974	22.983	1.00	84.34	Al6S
ATOM	27245	P	376	103.215	53.597	12.127	1.00	54.58	Al6S	ATOM	27298	C2' ADE	378	107.744	51.032	22.217	1.00	84.34	Al6S
ATOM	27246	O1P CYT	376	103.661	54.093	10.804	1.00	82.10	Al6S	ATOM	27299	N1' ADE	378	108.135	51.096	20.938	1.00	84.34	Al6S
ATOM	27247	O2P CYT	376	102.072	52.650	12.202	1.00	82.10	Al6S	ATOM	27300	C6' ADE	378	107.981	52.261	20.278	1.00	84.34	Al6S
ATOM	27248	O5' CYT	376	102.900	54.831	13.086	1.00	54.58	Al6S	ATOM	27301	N6' ADE	378	108.382	52.336	19.010	1.00	84.34	Al6S
ATOM	27249	C5' CYT	376	101.983	55.868	12.683	1.00	54.58	Al6S	ATOM	27302	C5' ADE	378	107.405	53.336	20.974	1.00	84.34	Al6S
ATOM	27250	C4' CYT	376	101.192	56.389	13.870	1.00	54.58	Al6S	ATOM	27303	N7' ADE	378	107.101	54.632	20.594	1.00	84.34	Al6S
ATOM	27251	O4' CYT	376	100.250	55.382	14.338	1.00	54.58	Al6S	ATOM	27304	C8' ADE	378	106.577	55.161	21.671	1.00	84.34	Al6S
ATOM	27252	C1' CYT	376	100.089	55.423	15.753	1.00	54.58	Al6S	ATOM	27305	O2' ADE	378	107.090	54.944	25.064	1.00	63.25	Al6S
ATOM	27253	N1' CYT	376	100.550	54.240	16.405	1.00	82.10	Al6S	ATOM	27306	O2' ADE	378	106.800	54.419	26.346	1.00	63.25	Al6S
ATOM	27254	C6' CYT	376	100.971	53.168	15.669	1.00	82.10	Al6S	ATOM	27307	C3' ADE	378	107.039	56.465	25.017	1.00	63.25	Al6S
ATOM	27255	C2' CYT	376	100.567	54.176	17.807	1.00	82.10	Al6S	ATOM	27308	O3' ADE	378	107.536	57.030	26.218	1.00	63.25	Al6S
ATOM	27256	O2' CYT	376	100.167	55.147	18.454	1.00	82.10	Al6S	ATOM	27309	P	379	108.929	57.832	26.207	1.00	65.52	Al6S
ATOM	27257	N3' CYT	376	101.022	53.061	18.418	1.00	82.10	Al6S	ATOM	27310	O1P GUA	379	109.494	57.795	27.584	1.00	60.79	Al6S
ATOM	27258	C4' CYT	376	101.446	52.030	17.691	1.00	82.10	Al6S	ATOM	27311	O2P GUA	379	108.677	59.140	25.545	1.00	60.79	Al6S
ATOM	27259	N4' CYT	376	101.903	50.954	18.339	1.00	82.10	Al6S	ATOM	27312	O5' GUA	379	109.889	56.967	25.271	1.00	65.52	Al6S
ATOM	27260	C5' CYT	376	101.425	52.055	16.265	1.00	82.10	Al6S	ATOM	27313	C5' GUA	379	110.266	55.628	25.643	1.00	65.52	Al6S

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ATOM	27314	C4' GUA	379	110.696	54.820	24.430	1.00 65.52	Al6s	ATOM	27367	C5	CYT	381	117.723	57.337	18.753	1.00 70.96	Al6s
ATOM	27315	O4' GUA	379	109.846	55.106	23.283	1.00 65.52	Al6s	ATOM	27368	C2' CYT	381	120.670	55.191	16.416	1.00 51.85	Al6s	
ATOM	27316	C9 GUA	379	110.563	54.835	22.093	1.00 65.52	Al6s	ATOM	27369	O2' CYT	381	121.329	54.670	15.283	1.00 51.85	Al6s	
ATOM	27317	N9 GUA	379	110.533	56.000	21.211	1.00 60.79	Al6s	ATOM	27370	C3' CYT	381	121.048	54.495	17.711	1.00 51.85	Al6s	
ATOM	27318	C4 GUA	379	110.729	55.987	19.844	1.00 60.79	Al6s	ATOM	27371	O3' CYT	381	122.417	54.163	17.756	1.00 51.85	Al6s	
ATOM	27319	N3 GUA	379	110.976	54.895	19.084	1.00 60.79	Al6s	ATOM	27372	P	382	123.423	55.142	18.522	1.00 45.37	Al6s	
ATOM	27320	C2 GUA	379	111.102	55.201	17.800	1.00 60.79	Al6s	ATOM	27373	O1P URI	382	124.795	54.579	18.380	1.00 76.91	Al6s	
ATOM	27321	N2 GUA	379	111.337	54.239	16.906	1.00 60.79	Al6s	ATOM	27374	O2P URI	382	122.871	55.396	19.874	1.00 76.91	Al6s	
ATOM	27322	N1 GUA	379	111.001	56.470	17.300	1.00 60.79	Al6s	ATOM	27375	O5' URI	382	123.308	56.482	17.666	1.00 45.37	Al6s	
ATOM	27323	C6 GUA	379	110.751	57.608	18.056	1.00 60.79	Al6s	ATOM	27376	C5' URI	382	123.509	56.450	16.237	1.00 45.37	Al6s	
ATOM	27324	O4' GUA	379	110.674	58.706	17.497	1.00 60.79	Al6s	ATOM	27377	C4' URI	382	123.453	57.839	15.633	1.00 45.37	Al6s	
ATOM	27325	C5 GUA	379	110.609	57.298	19.444	1.00 60.79	Al6s	ATOM	27378	O4' URI	382	122.090	58.314	15.496	1.00 45.37	Al6s	
ATOM	27326	N7 GUA	379	110.348	58.122	20.531	1.00 60.79	Al6s	ATOM	27379	C1' URI	382	122.085	59.731	15.513	1.00 45.37	Al6s	
ATOM	27327	C8 GUA	379	110.313	57.310	21.555	1.00 60.79	Al6s	ATOM	27380	N1 URI	382	121.251	59.609	16.629	1.00 76.91	Al6s	
ATOM	27328	C2' GUA	379	111.980	54.423	22.490	1.00 65.52	Al6s	ATOM	27381	C6 URI	382	121.322	59.609	17.874	1.00 76.91	Al6s	
ATOM	27329	O2' GUA	379	112.025	53.012	22.516	1.00 65.52	Al6s	ATOM	27382	C2 URI	382	120.407	61.261	16.397	1.00 76.91	Al6s	
ATOM	27330	C3' GUA	379	112.104	55.006	23.891	1.00 65.52	Al6s	ATOM	27383	O2 URI	382	120.290	61.785	15.308	1.00 76.91	Al6s	
ATOM	27331	O3' GUA	379	113.056	54.266	24.648	1.00 65.52	Al6s	ATOM	27384	N3 URI	382	119.701	61.690	17.493	1.00 76.91	Al6s	
ATOM	27332	P	380	114.629	54.596	24.498	1.00 52.68	Al6s	ATOM	27385	C4 URI	382	119.744	61.164	18.770	1.00 76.91	Al6s	
ATOM	27333	O1P CYT	380	115.389	53.788	25.489	1.00 68.93	Al6s	ATOM	27386	O4 URI	382	119.097	61.703	19.672	1.00 76.91	Al6s	
ATOM	27334	O2P CYT	380	114.798	56.074	24.479	1.00 68.93	Al6s	ATOM	27387	C5 URI	382	120.618	60.045	18.921	1.00 76.91	Al6s	
ATOM	27335	O5' CYT	380	114.998	54.030	23.057	1.00 52.68	Al6s	ATOM	27388	C2' URI	382	123.532	60.188	15.673	1.00 45.37	Al6s	
ATOM	27336	C5' CYT	380	114.989	52.613	22.810	1.00 52.68	Al6s	ATOM	27389	O2' URI	382	124.059	60.407	14.381	1.00 45.37	Al6s	
ATOM	27337	C4' CYT	380	115.414	52.320	21.394	1.00 52.68	Al6s	ATOM	27390	C3' URI	382	124.172	58.973	16.331	1.00 45.37	Al6s	
ATOM	27338	O4' CYT	380	114.390	52.758	20.465	1.00 52.68	Al6s	ATOM	27391	O3' URI	382	125.557	58.935	16.079	1.00 45.37	Al6s	
ATOM	27339	C1' CYT	380	114.996	53.225	19.276	1.00 52.68	Al6s	ATOM	27392	P	383	126.590	59.220	17.275	1.00 53.57	Al6s	
ATOM	27340	N1 CYT	380	114.681	54.656	19.108	1.00 68.93	Al6s	ATOM	27393	O1P GUA	383	127.196	57.917	17.632	1.00 49.15	Al6s	
ATOM	27341	C6 CYT	380	114.484	55.472	20.190	1.00 68.93	Al6s	ATOM	27394	O2P GUA	383	125.921	60.035	18.328	1.00 49.15	Al6s	
ATOM	27342	C2 CYT	380	114.606	55.176	17.814	1.00 68.93	Al6s	ATOM	27395	O5' GUA	383	127.738	60.078	16.578	1.00 53.57	Al6s	
ATOM	27343	O2 CYT	380	114.783	54.417	16.855	1.00 68.93	Al6s	ATOM	27396	C5' GUA	383	127.700	61.515	16.559	1.00 53.57	Al6s	
ATOM	27344	N3 CYT	380	114.349	56.494	17.641	1.00 68.93	Al6s	ATOM	27397	C4' GUA	383	129.070	62.050	16.236	1.00 53.57	Al6s	
ATOM	27345	C4 CYT	380	114.173	57.282	18.701	1.00 68.93	Al6s	ATOM	27398	O4' GUA	383	130.018	61.488	17.181	1.00 53.57	Al6s	
ATOM	27346	N4 CYT	380	113.943	58.574	18.484	1.00 68.93	Al6s	ATOM	27399	C1' GUA	383	130.997	60.734	16.499	1.00 53.57	Al6s	
ATOM	27347	C5 CYT	380	114.233	56.777	20.034	1.00 68.93	Al6s	ATOM	27400	N9 GUA	383	131.269	59.543	17.298	1.00 49.15	Al6s	
ATOM	27348	C2' CYT	380	116.502	53.012	19.418	1.00 52.68	Al6s	ATOM	27401	C4 GUA	383	132.376	59.309	18.074	1.00 49.15	Al6s	
ATOM	27349	O2' CYT	380	116.836	51.774	18.839	1.00 52.68	Al6s	ATOM	27402	N3 GUA	383	133.410	60.150	18.254	1.00 49.15	Al6s	
ATOM	27350	C3' CYT	380	116.673	53.018	20.927	1.00 52.68	Al6s	ATOM	27403	C2 GUA	383	134.327	59.639	19.064	1.00 49.15	Al6s	
ATOM	27351	O3' CYT	380	117.850	52.364	21.348	1.00 52.68	Al6s	ATOM	27404	N2 GUA	383	135.420	60.342	19.361	1.00 49.15	Al6s	
ATOM	27352	P	381	119.192	53.224	21.542	1.00 51.85	Al6s	ATOM	27405	N1 GUA	383	134.241	58.400	19.642	1.00 49.15	Al6s	
ATOM	27353	O1P CYT	381	120.275	52.348	22.061	1.00 70.96	Al6s	ATOM	27406	C6 GUA	383	133.189	57.508	19.464	1.00 49.15	Al6s	
ATOM	27354	O2P CYT	381	118.824	54.450	22.290	1.00 70.96	Al6s	ATOM	27407	O6 GUA	383	133.217	56.395	20.020	1.00 49.15	Al6s	
ATOM	27355	C5' CYT	381	119.577	53.647	20.055	1.00 51.85	Al6s	ATOM	27408	C5 GUA	383	132.189	58.049	18.608	1.00 49.15	Al6s	
ATOM	27356	O5' CYT	381	119.873	52.646	19.061	1.00 51.85	Al6s	ATOM	27409	N7 GUA	383	130.985	57.509	18.185	1.00 49.15	Al6s	
ATOM	27357	C4' CYT	381	120.134	53.285	17.718	1.00 51.85	Al6s	ATOM	27410	C8 GUA	383	130.472	58.428	17.416	1.00 49.15	Al6s	
ATOM	27358	O4' CYT	381	118.898	53.773	17.141	1.00 51.85	Al6s	ATOM	27411	C2' GUA	383	130.403	60.422	15.122	1.00 53.57	Al6s	
ATOM	27359	C1' CYT	381	119.167	54.917	16.351	1.00 51.85	Al6s	ATOM	27412	O2' GUA	383	131.401	60.205	14.148	1.00 53.57	Al6s	
ATOM	27360	N1 CYT	381	118.438	56.069	16.904	1.00 70.96	Al6s	ATOM	27413	C3' GUA	383	129.578	61.671	14.855	1.00 53.57	Al6s	
ATOM	27361	C6 CYT	381	118.296	56.238	18.254	1.00 70.96	Al6s	ATOM	27414	O3' GUA	383	130.453	62.705	14.426	1.00 53.57	Al6s	
ATOM	27362	C2 CYT	381	117.931	57.018	16.022	1.00 70.96	Al6s	ATOM	27415	P	384	130.257	63.378	12.993	1.00 54.04	Al6s	
ATOM	27363	O2 CYT	381	118.025	56.811	14.808	1.00 70.96	Al6s	ATOM	27416	O1P ADE	384	130.242	62.294	11.968	1.00 58.00	Al6s	
ATOM	27364	N3 CYT	381	117.351	58.134	16.512	1.00 70.96	Al6s	ATOM	27417	O2P ADE	384	131.266	64.458	12.906	1.00 58.00	Al6s	
ATOM	27365	C4 CYT	381	117.257	58.311	17.828	1.00 70.96	Al6s	ATOM	27418	O5' ADE	384	128.807	64.041	13.061	1.00 54.04	Al6s	
ATOM	27366	N4 CYT	381	116.712	59.446	18.267	1.00 70.96	Al6s	ATOM	27419	C5' ADE	384	128.115	64.311	11.845	1.00 54.04	Al6s	

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ATOM	27420	C4' ADE	384	126.957	65.270	12.032	1.00	54.04	Al6S	ATOM	27473	C5	GUA	386	127.897	67.983	21.558	1.00	58.33	Al6S
ATOM	27421	O4' ADE	384	125.756	64.592	12.462	1.00	54.04	Al6S	ATOM	27474	N7	GUA	386	127.755	68.542	20.296	1.00	58.33	Al6S
ATOM	27422	O2' ADE	384	124.833	65.561	12.908	1.00	54.04	Al6S	ATOM	27475	C8	GUA	386	126.793	69.412	20.436	1.00	58.33	Al6S
ATOM	27423	N9 ADE	384	124.314	65.182	14.222	1.00	58.00	Al6S	ATOM	27476	C2'	GUA	386	125.668	71.552	22.969	1.00	49.56	Al6S
ATOM	27424	C4 ADE	384	123.363	65.883	14.924	1.00	58.00	Al6S	ATOM	27477	O2'	GUA	386	124.744	71.846	24.003	1.00	49.56	Al6S
ATOM	27425	N3 ADE	384	122.745	67.015	14.548	1.00	58.00	Al6S	ATOM	27478	C3'	GUA	386	125.650	72.615	21.879	1.00	49.56	Al6S
ATOM	27426	C2 ADE	384	121.891	67.413	15.480	1.00	58.00	Al6S	ATOM	27479	O3'	GUA	386	125.471	73.925	22.372	1.00	49.56	Al6S
ATOM	27427	N1 ADE	384	121.601	66.851	16.655	1.00	58.00	Al6S	ATOM	27480	P	GUA	387	126.742	74.733	22.897	1.00	51.95	Al6S
ATOM	27428	C6 ADE	384	122.240	65.717	17.003	1.00	58.00	Al6S	ATOM	27481	O1P GUA	387	126.308	76.075	23.366	1.00	71.46	Al6S	
ATOM	27429	N6 ADE	384	121.952	65.160	18.181	1.00	58.00	Al6S	ATOM	27482	O2P GUA	387	127.778	74.612	21.844	1.00	71.46	Al6S	
ATOM	27430	O4' ADE	384	123.176	65.192	16.099	1.00	58.00	Al6S	ATOM	27483	O5'	GUA	387	127.228	73.886	24.150	1.00	51.95	Al6S
ATOM	27431	N7 ADE	384	123.993	64.073	16.142	1.00	58.00	Al6S	ATOM	27484	C5'	GUA	387	128.623	73.739	24.448	1.00	51.95	Al6S
ATOM	27432	C8 ADE	384	124.642	64.112	15.006	1.00	58.00	Al6S	ATOM	27485	C4'	GUA	387	128.812	72.633	25.451	1.00	51.95	Al6S
ATOM	27433	C2' ADE	384	125.552	66.913	12.926	1.00	54.04	Al6S	ATOM	27486	O4'	GUA	387	128.430	71.356	24.863	1.00	51.95	Al6S
ATOM	27434	O2' ADE	384	125.203	67.597	11.736	1.00	54.04	Al6S	ATOM	27487	C1'	GUA	387	129.244	70.323	25.405	1.00	51.95	Al6S
ATOM	27435	C3' ADE	384	127.024	66.509	12.906	1.00	54.04	Al6S	ATOM	27488	N9	GUA	387	130.020	69.700	24.334	1.00	71.46	Al6S
ATOM	27436	O3' ADE	384	127.747	67.574	12.299	1.00	54.04	Al6S	ATOM	27489	C4	GUA	387	130.899	68.653	24.493	1.00	71.46	Al6S
ATOM	27437	P	385	128.317	68.784	13.201	1.00	48.19	Al6S	ATOM	27490	N3	GUA	387	131.152	68.003	25.648	1.00	71.46	Al6S
ATOM	27438	O1P CYT	385	128.361	69.984	12.333	1.00	49.90	Al6S	ATOM	27491	C2	GUA	387	132.081	67.080	25.500	1.00	71.46	Al6S
ATOM	27439	O2P CYT	385	129.551	68.330	13.885	1.00	49.90	Al6S	ATOM	27492	N2	GUA	387	132.459	66.348	26.553	1.00	71.46	Al6S
ATOM	27440	O5' CYT	385	127.237	69.022	14.349	1.00	48.19	Al6S	ATOM	27493	N1	GUA	387	132.707	66.810	24.313	1.00	71.46	Al6S
ATOM	27441	C5' CYT	385	126.042	69.805	14.130	1.00	48.19	Al6S	ATOM	27494	C6	GUA	387	132.458	67.460	23.115	1.00	71.46	Al6S
ATOM	27442	C4' CYT	385	125.154	69.755	15.360	1.00	48.19	Al6S	ATOM	27495	O6	GUA	387	133.080	67.138	22.108	1.00	71.46	Al6S
ATOM	27443	O4' CYT	385	124.908	68.362	15.686	1.00	48.19	Al6S	ATOM	27496	C5	GUA	387	131.466	68.458	23.257	1.00	71.46	Al6S
ATOM	27444	C1' CYT	385	124.907	68.189	17.090	1.00	48.19	Al6S	ATOM	27497	N7	GUA	387	130.930	69.336	22.326	1.00	71.46	Al6S
ATOM	27445	N1 CYT	385	126.017	67.279	17.446	1.00	49.90	Al6S	ATOM	27498	C8	GUA	387	130.071	70.045	23.006	1.00	71.46	Al6S
ATOM	27446	C6 CYT	385	127.193	67.307	16.751	1.00	49.90	Al6S	ATOM	27499	C2'	GUA	387	130.190	70.968	26.420	1.00	51.95	Al6S
ATOM	27447	C2 CYT	385	125.858	66.394	18.513	1.00	49.90	Al6S	ATOM	27500	O2'	GUA	387	129.652	70.814	27.716	1.00	51.95	Al6S
ATOM	27448	O2 CYT	385	124.770	66.350	19.101	1.00	49.90	Al6S	ATOM	27501	C3'	GUA	387	130.233	72.412	25.930	1.00	51.95	Al6S
ATOM	27449	N3 CYT	385	126.893	65.597	18.872	1.00	49.90	Al6S	ATOM	27502	O3'	GUA	387	130.590	73.334	26.944	1.00	51.95	Al6S
ATOM	27450	C4 CYT	385	128.036	65.641	18.188	1.00	49.90	Al6S	ATOM	27503	P	ADE	388	132.010	74.076	26.869	1.00	47.56	Al6S
ATOM	27451	N4 CYT	385	129.027	64.833	18.564	1.00	49.90	Al6S	ATOM	27504	O1P ADE	388	131.907	75.351	27.629	1.00	71.11	Al6S	
ATOM	27452	C5 CYT	385	128.215	66.512	17.083	1.00	49.90	Al6S	ATOM	27505	O2P ADE	388	132.468	74.095	25.458	1.00	71.11	Al6S	
ATOM	27453	C2' CYT	385	125.016	69.578	17.727	1.00	48.19	Al6S	ATOM	27506	O5' ADE	388	133.001	73.112	27.646	1.00	47.56	Al6S	
ATOM	27454	O2' CYT	385	123.713	70.081	17.942	1.00	48.19	Al6S	ATOM	27507	C5' ADE	388	132.826	72.843	29.035	1.00	47.56	Al6S	
ATOM	27455	C3' CYT	385	125.730	70.366	16.637	1.00	48.19	Al6S	ATOM	27508	C4' ADE	388	133.538	71.570	29.395	1.00	47.56	Al6S	
ATOM	27456	O3' CYT	385	125.429	71.767	16.709	1.00	48.19	Al6S	ATOM	27509	O4' ADE	388	132.948	70.485	28.636	1.00	47.56	Al6S	
ATOM	27457	P	386	126.335	72.755	17.611	1.00	49.56	Al6S	ATOM	27510	C1' ADE	388	133.952	69.557	28.264	1.00	47.56	Al6S	
ATOM	27458	O1P GUA	386	125.822	74.119	17.337	1.00	58.33	Al6S	ATOM	27511	N9	ADE	388	134.057	69.547	26.807	1.00	71.11	Al6S
ATOM	27459	O2P GUA	386	127.792	72.471	17.468	1.00	58.33	Al6S	ATOM	27512	C4 ADE	388	134.965	68.815	26.087	1.00	71.11	Al6S	
ATOM	27460	O5' GUA	386	125.926	72.396	19.100	1.00	49.56	Al6S	ATOM	27513	N3	ADE	388	135.886	67.970	26.570	1.00	71.11	Al6S
ATOM	27461	C5' GUA	386	124.600	72.666	19.586	1.00	49.56	Al6S	ATOM	27514	C2 ADE	388	136.602	67.455	25.582	1.00	71.11	Al6S	
ATOM	27462	C4' GUA	386	124.476	72.201	21.016	1.00	49.56	Al6S	ATOM	27515	N1	ADE	388	136.513	67.680	24.265	1.00	71.11	Al6S
ATOM	27463	O4' GUA	386	124.459	70.747	21.077	1.00	49.56	Al6S	ATOM	27516	C6 ADE	388	135.579	68.541	23.820	1.00	71.11	Al6S	
ATOM	27464	C1' GUA	386	125.206	70.310	22.197	1.00	49.56	Al6S	ATOM	27517	N6 ADE	388	135.501	68.778	22.516	1.00	71.11	Al6S	
ATOM	27465	N9	386	126.290	69.460	21.711	1.00	58.33	Al6S	ATOM	27518	C5 ADE	388	134.750	69.142	24.765	1.00	71.11	Al6S	
ATOM	27466	C4	386	127.001	68.539	22.442	1.00	58.33	Al6S	ATOM	27519	N7	ADE	388	133.709	70.049	24.648	1.00	71.11	Al6S
ATOM	27467	N3	386	126.828	68.258	23.747	1.00	58.33	Al6S	ATOM	27520	C8	ADE	388	133.332	70.254	25.884	1.00	71.11	Al6S
ATOM	27468	C2	386	127.659	67.321	24.168	1.00	58.33	Al6S	ATOM	27521	C2' ADE	388	135.266	70.035	28.874	1.00	47.56	Al6S	
ATOM	27469	N2	386	127.615	66.915	25.441	1.00	58.33	Al6S	ATOM	27522	O2' ADE	388	135.492	69.378	30.105	1.00	47.56	Al6S	
ATOM	27470	N1	386	128.592	66.712	23.372	1.00	58.33	Al6S	ATOM	27523	C3' ADE	388	135.008	71.525	29.021	1.00	47.56	Al6S	
ATOM	27471	C6	386	128.787	66.981	22.026	1.00	58.33	Al6S	ATOM	27524	O3' ADE	388	135.850	72.110	29.995	1.00	47.56	Al6S	
ATOM	27472	O6	386	129.656	66.372	21.404	1.00	58.33	Al6S	ATOM	27525	P	GUA	389	137.328	72.575	29.570	1.00	57.65	Al6S

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ATOM	27526	O1P	GUA	389	138.098	72.893	30.803	1.00	64.50	A16S	ATOM	27579	C2	GUA	391	144.696	75.767	19.035	1.00	60.47	A16
ATOM	27527	O2P	GUA	389	137.199	73.595	28.495	1.00	64.50	A16S	ATOM	27580	N2	GUA	391	144.961	76.179	17.775	1.00	60.47	A16
ATOM	27528	O3	GUA	389	137.956	71.262	28.924	1.00	57.65	A16S	ATOM	27581	N1	GUA	391	143.382	75.822	19.427	1.00	60.47	A16
ATOM	27529	C5	GUA	389	138.244	70.111	29.734	1.00	57.65	A16S	ATOM	27582	C6	GUA	391	142.905	75.451	20.674	1.00	60.47	A16
ATOM	27530	C4	GUA	389	139.293	69.259	29.074	1.00	57.65	A16S	ATOM	27583	O6	GUA	391	141.705	75.532	20.917	1.00	60.47	A16
ATOM	27531	O4	GUA	389	138.746	68.573	27.918	1.00	57.65	A16S	ATOM	27584	C5	GUA	391	143.938	75.008	21.513	1.00	60.47	A16
ATOM	27532	C1	GUA	389	139.751	68.451	26.924	1.00	57.65	A16S	ATOM	27585	N7	GUA	391	143.897	74.563	22.823	1.00	60.47	A16
ATOM	27533	N9	GUA	389	139.293	69.137	25.721	1.00	64.50	A16S	ATOM	27586	C8	GUA	391	145.137	74.270	23.103	1.00	60.47	A16
ATOM	27534	C4	GUA	389	139.829	69.017	24.466	1.00	64.50	A16S	ATOM	27587	C2	GUA	391	148.242	75.504	22.311	1.00	54.10	A16
ATOM	27535	N3	GUA	389	140.888	68.256	24.131	1.00	64.50	A16S	ATOM	27588	O2	GUA	391	149.360	75.481	21.457	1.00	54.10	A16
ATOM	27536	O2	GUA	389	141.175	68.347	22.845	1.00	64.50	A16S	ATOM	27589	C3	GUA	391	148.633	75.271	23.760	1.00	54.10	A16
ATOM	27537	N2	GUA	389	142.214	67.664	22.338	1.00	64.50	A16S	ATOM	27590	O3	GUA	391	149.821	75.946	24.119	1.00	54.10	A16
ATOM	27538	N1	GUA	389	140.471	69.116	21.958	1.00	64.50	A16S	ATOM	27591	P	ADE	392	149.808	76.950	25.373	1.00	57.50	A16
ATOM	27539	C6	GUA	389	139.380	69.911	22.276	1.00	64.50	A16S	ATOM	27592	O1P	ADE	392	151.236	77.206	25.720	1.00	52.36	A16
ATOM	27540	O6	GUA	389	138.820	70.580	21.384	1.00	64.50	A16S	ATOM	27593	O2P	ADE	392	148.861	76.435	26.412	1.00	52.36	A16
ATOM	27541	C5	GUA	389	139.065	69.828	23.662	1.00	64.50	A16S	ATOM	27594	O5	ADE	392	149.164	78.287	24.806	1.00	57.50	A16
ATOM	27542	N7	GUA	389	138.074	70.455	24.400	1.00	64.50	A16S	ATOM	27595	C5	ADE	392	149.853	79.044	23.827	1.00	57.50	A16
ATOM	27543	C8	GUA	389	138.251	70.020	25.614	1.00	64.50	A16S	ATOM	27596	C4	ADE	392	148.978	80.139	23.307	1.00	57.50	A16
ATOM	27544	C2	GUA	389	141.035	69.072	27.477	1.00	57.65	A16S	ATOM	27597	O4	ADE	392	148.712	81.076	24.373	1.00	57.50	A16
ATOM	27545	O2	GUA	389	141.866	68.069	28.022	1.00	57.65	A16S	ATOM	27598	C1	ADE	392	148.768	82.395	23.870	1.00	57.50	A16
ATOM	27546	C3	GUA	389	140.481	70.020	28.527	1.00	57.65	A16S	ATOM	27599	N9	ADE	392	149.803	83.117	24.616	1.00	52.36	A16
ATOM	27547	O3	GUA	389	141.410	70.357	29.527	1.00	57.65	A16S	ATOM	27600	C4	ADE	392	151.141	82.819	24.742	1.00	52.36	A16
ATOM	27548	P	CYT	390	142.219	71.731	29.398	1.00	52.81	A16S	ATOM	27601	N3	ADE	392	151.816	81.816	24.163	1.00	52.36	A16
ATOM	27549	O1P	CYT	390	142.982	71.939	30.648	1.00	56.19	A16S	ATOM	27602	C2	ADE	392	153.093	81.825	24.544	1.00	52.36	A16
ATOM	27550	O2P	CYT	390	141.301	72.790	28.917	1.00	56.19	A16S	ATOM	27603	N1	ADE	392	153.721	82.653	25.384	1.00	52.36	A16
ATOM	27551	O5	CYT	390	143.271	71.396	28.259	1.00	52.81	A16S	ATOM	27604	C6	ADE	392	153.011	83.648	25.955	1.00	52.36	A16
ATOM	27552	C5	CYT	390	144.252	70.372	28.476	1.00	52.81	A16S	ATOM	27605	N6	ADE	392	153.625	84.462	26.817	1.00	52.36	A16
ATOM	27553	C4	CYT	390	145.044	70.133	27.223	1.00	52.81	A16S	ATOM	27606	C5	ADE	392	151.654	83.758	25.616	1.00	52.36	A16
ATOM	27554	O4	CYT	390	144.175	69.615	26.188	1.00	52.81	A16S	ATOM	27607	N7	ADE	392	150.674	84.655	25.999	1.00	52.36	A16
ATOM	27555	C1	CYT	390	144.632	70.066	24.928	1.00	52.81	A16S	ATOM	27608	C8	ADE	392	149.602	84.236	25.378	1.00	52.36	A16
ATOM	27556	N1	CYT	390	143.557	70.831	24.277	1.00	56.19	A16S	ATOM	27609	C2	ADE	392	148.978	82.309	22.359	1.00	57.50	A16
ATOM	27557	C6	CYT	390	142.497	71.315	24.992	1.00	56.19	A16S	ATOM	27610	O2	ADE	392	147.710	82.322	21.731	1.00	57.50	A16
ATOM	27558	C2	CYT	390	143.643	71.061	22.899	1.00	56.19	A16S	ATOM	27611	C3	ADE	392	149.661	80.957	22.233	1.00	57.50	A16
ATOM	27559	O2	CYT	390	144.620	70.616	22.271	1.00	56.19	A16S	ATOM	27612	O3	ADE	392	149.494	80.331	20.974	1.00	57.50	A16
ATOM	27560	N3	CYT	390	142.665	71.761	22.285	1.00	56.19	A16S	ATOM	27613	P	CYT	393	150.391	79.049	20.606	1.00	49.95	A16
ATOM	27561	C4	CYT	390	141.633	72.224	22.988	1.00	56.19	A16S	ATOM	27614	O1P	CYT	393	149.736	77.892	21.221	1.00	45.82	A16
ATOM	27562	N4	CYT	390	140.686	72.899	22.331	1.00	56.19	A16S	ATOM	27615	O2P	CYT	393	151.825	79.323	20.892	1.00	45.82	A16
ATOM	27563	C5	CYT	390	141.523	72.011	24.394	1.00	56.19	A16S	ATOM	27616	O5	CYT	393	150.192	78.892	19.044	1.00	49.95	A16
ATOM	27564	C2	CYT	390	145.885	70.910	25.159	1.00	52.81	A16S	ATOM	27617	C5	CYT	393	150.491	79.974	18.176	1.00	49.95	A16
ATOM	27565	O2	CYT	390	147.027	70.089	25.024	1.00	52.81	A16S	ATOM	27618	C4	CYT	393	149.277	80.349	17.373	1.00	49.95	A16
ATOM	27566	C3	CYT	390	145.690	71.354	26.596	1.00	52.81	A16S	ATOM	27619	O4	CYT	393	148.294	79.277	17.394	1.00	49.95	A16
ATOM	27567	O3	CYT	390	146.922	71.668	27.209	1.00	52.81	A16S	ATOM	27620	C1	CYT	393	146.996	79.828	17.274	1.00	49.95	A16
ATOM	27568	P	GUA	391	147.363	73.206	27.343	1.00	54.10	A16S	ATOM	27621	N1	CYT	393	146.201	79.471	18.461	1.00	45.82	A16
ATOM	27569	O1P	GUA	391	148.671	73.257	28.058	1.00	60.47	A16S	ATOM	27622	C6	CYT	393	146.796	79.174	19.658	1.00	45.82	A16
ATOM	27570	O2P	GUA	391	146.212	74.005	27.847	1.00	60.47	A16S	ATOM	27623	C2	CYT	393	144.792	79.452	18.342	1.00	45.82	A16
ATOM	27571	O5	GUA	391	147.621	73.640	25.843	1.00	54.10	A16S	ATOM	27624	O2	CYT	393	144.271	79.700	17.238	1.00	45.82	A16
ATOM	27572	C5	GUA	391	148.753	73.142	25.144	1.00	54.10	A16S	ATOM	27625	N3	CYT	393	144.040	79.156	19.430	1.00	45.82	A16
ATOM	27573	C4	GUA	391	148.829	73.772	23.792	1.00	54.10	A16S	ATOM	27626	C4	CYT	393	144.633	78.867	20.591	1.00	45.82	A16
ATOM	27574	O4	GUA	391	147.765	73.271	22.955	1.00	54.10	A16S	ATOM	27627	N4	CYT	393	143.848	78.571	21.624	1.00	45.82	A16
ATOM	27575	C1	GUA	391	147.422	74.256	22.005	1.00	54.10	A16S	ATOM	27628	C5	CYT	393	146.060	78.868	20.738	1.00	45.82	A16
ATOM	27576	N9	GUA	391	145.988	74.492	22.054	1.00	60.47	A16S	ATOM	27629	C2	CYT	393	147.151	81.340	17.164	1.00	49.95	A16
ATOM	27577	C4	GUA	391	145.223	74.981	21.029	1.00	60.47	A16S	ATOM	27630	O2	CYT	393	147.174	81.685	15.786	1.00	49.95	A16
ATOM	27578	N3	GUA	391	145.674	75.342	19.813	1.00	60.47	A16S	ATOM	27631	C3	CYT	393	148.493	81.549	17.853	1.00	49.95	A16

ATOM	27632	O3	CYT	393	149.110	82.757	17.472	1.00	49.95	Al6S	ATOM	27685	C6	CYT	396	140.916	90.058	23.426	1.00	54.84	Al1
ATOM	27633	O1P	GUA	394	148.788	84.091	18.294	1.00	47.30	Al6S	ATOM	27686	C2	CYT	396	139.535	88.672	24.820	1.00	54.84	Al1
ATOM	27634	O1P	GUA	394	149.764	85.105	17.826	1.00	42.56	Al6S	ATOM	27687	O2	CYT	396	138.398	88.386	25.241	1.00	54.84	Al1
ATOM	27635	O2P	GUA	394	148.695	83.782	19.741	1.00	42.56	Al6S	ATOM	27688	N3	CYT	396	140.634	87.972	25.197	1.00	54.84	Al1
ATOM	27636	O5	GUA	394	147.345	84.506	17.774	1.00	47.30	Al6S	ATOM	27689	C4	CYT	396	141.835	88.315	24.726	1.00	54.84	Al1
ATOM	27637	C5	GUA	394	147.175	84.933	16.421	1.00	47.30	Al6S	ATOM	27690	N4	CYT	396	142.895	87.642	25.160	1.00	54.84	Al1
ATOM	27638	C5	GUA	394	145.765	85.379	16.185	1.00	47.30	Al6S	ATOM	27691	C5	CYT	396	142.006	89.375	23.797	1.00	54.84	Al1
ATOM	27639	O4	GUA	394	144.883	84.245	16.329	1.00	47.30	Al6S	ATOM	27692	C2	CYT	396	138.503	91.832	24.462	1.00	46.36	Al1
ATOM	27640	C1	GUA	394	143.662	84.661	16.905	1.00	47.30	Al6S	ATOM	27693	O2	CYT	396	137.185	92.285	24.659	1.00	46.36	Al1
ATOM	27641	N3	GUA	394	143.506	83.973	18.182	1.00	42.56	Al6S	ATOM	27694	O3	CYT	396	139.258	92.796	23.576	1.00	46.36	Al1
ATOM	27642	C4	GUA	394	142.329	83.760	18.851	1.00	42.56	Al6S	ATOM	27695	O3	CYT	396	139.029	94.125	23.969	1.00	46.36	Al1
ATOM	27643	N3	GUA	394	141.110	84.159	18.444	1.00	42.56	Al6S	ATOM	27696	P	GUA	397	139.955	94.760	25.117	1.00	48.17	Al1
ATOM	27644	C2	GUA	394	140.161	83.809	19.292	1.00	42.56	Al6S	ATOM	27697	O1P	GUA	397	139.601	96.203	25.202	1.00	54.62	Al1
ATOM	27645	N2	GUA	394	138.893	84.146	19.035	1.00	42.56	Al6S	ATOM	27698	O2P	GUA	397	141.372	94.365	24.878	1.00	54.62	Al1
ATOM	27646	N1	GUA	394	140.387	83.106	20.450	1.00	42.56	Al6S	ATOM	27699	O5	GUA	397	139.465	94.021	26.441	1.00	48.17	Al1
ATOM	27647	C6	GUA	394	141.636	82.677	20.891	1.00	42.56	Al6S	ATOM	27700	C5	GUA	397	138.122	94.199	26.918	1.00	48.17	Al1
ATOM	27648	O6	GUA	394	141.732	82.031	21.948	1.00	42.56	Al6S	ATOM	27701	C4	GUA	397	137.888	93.376	28.153	1.00	48.17	Al1
ATOM	27649	C5	GUA	394	142.671	83.068	19.986	1.00	42.56	Al6S	ATOM	27702	O4	GUA	397	137.935	91.966	27.818	1.00	48.17	Al1
ATOM	27650	N7	GUA	394	144.045	82.863	20.042	1.00	42.56	Al6S	ATOM	27703	C1	GUA	397	138.451	91.230	28.917	1.00	48.17	Al1
ATOM	27651	C8	GUA	394	144.497	83.414	18.951	1.00	42.56	Al6S	ATOM	27704	N9	GUA	397	139.695	90.579	28.521	1.00	54.62	Al1
ATOM	27652	C2	GUA	394	143.723	86.180	17.061	1.00	47.30	Al6S	ATOM	27705	C4	GUA	397	140.329	89.573	29.208	1.00	54.62	Al1
ATOM	27653	O2	GUA	394	143.150	86.758	15.908	1.00	47.30	Al6S	ATOM	27706	N3	GUA	397	139.874	88.969	30.328	1.00	54.62	Al1
ATOM	27654	C3	GUA	394	145.225	86.415	17.152	1.00	47.30	Al6S	ATOM	27707	C2	GUA	397	140.734	88.080	30.795	1.00	54.62	Al1
ATOM	27655	O3	GUA	394	145.617	87.733	16.774	1.00	47.30	Al6S	ATOM	27708	N2	GUA	397	140.450	87.410	31.911	1.00	54.62	Al1
ATOM	27656	P	CYT	395	145.585	88.900	17.882	1.00	42.32	Al6S	ATOM	27709	N1	GUA	397	141.939	87.789	30.201	1.00	54.62	Al1
ATOM	27657	O1P	CYT	395	146.219	90.101	17.181	1.00	48.50	Al6S	ATOM	27710	C6	GUA	397	142.424	88.387	29.043	1.00	54.62	Al1
ATOM	27658	O2P	CYT	395	146.378	88.404	19.094	1.00	48.50	Al6S	ATOM	27711	O6	GUA	397	143.525	88.045	28.587	1.00	54.62	Al1
ATOM	27659	O5	CYT	395	144.148	89.136	18.230	1.00	42.32	Al6S	ATOM	27712	C5	GUA	397	141.513	89.361	28.537	1.00	54.62	Al1
ATOM	27660	C5	CYT	395	143.253	89.626	17.226	1.00	42.32	Al6S	ATOM	27713	N7	GUA	397	141.603	90.188	27.427	1.00	54.62	Al1
ATOM	27661	C4	CYT	395	141.847	89.704	17.755	1.00	42.32	Al6S	ATOM	27714	C8	GUA	397	140.496	90.879	27.408	1.00	54.62	Al1
ATOM	27662	O4	CYT	395	141.341	88.368	17.972	1.00	42.32	Al6S	ATOM	27715	C2	GUA	397	138.748	92.229	30.035	1.00	48.17	Al1
ATOM	27663	C1	CYT	395	140.447	88.369	19.070	1.00	42.32	Al6S	ATOM	27716	O2	GUA	397	137.664	92.263	30.938	1.00	48.17	Al1
ATOM	27664	N1	CYT	395	140.994	87.494	20.123	1.00	48.50	Al6S	ATOM	27717	C3	GUA	397	138.918	93.522	29.254	1.00	48.17	Al1
ATOM	27665	C6	CYT	395	142.344	87.323	20.255	1.00	48.50	Al6S	ATOM	27718	O3	GUA	397	138.708	94.658	30.057	1.00	48.17	Al1
ATOM	27666	O2	CYT	395	140.111	86.856	21.009	1.00	48.50	Al6S	ATOM	27719	P	CYT	398	139.976	95.397	30.713	1.00	52.51	Al1
ATOM	27667	C2	CYT	395	138.887	87.001	20.858	1.00	48.50	Al6S	ATOM	27720	O1P	CYT	398	139.463	96.602	31.417	1.00	71.21	Al1
ATOM	27668	N3	CYT	395	140.615	86.098	22.005	1.00	48.50	Al6S	ATOM	27721	O2P	CYT	398	141.050	95.544	29.695	1.00	71.21	Al1
ATOM	27669	C4	CYT	395	141.934	85.953	22.130	1.00	48.50	Al6S	ATOM	27722	O5	CYT	398	140.496	94.357	31.798	1.00	52.51	Al1
ATOM	27670	N4	CYT	395	142.387	85.201	23.129	1.00	48.50	Al6S	ATOM	27723	C5	CYT	398	139.622	93.904	32.832	1.00	52.51	Al1
ATOM	27671	C5	CYT	395	142.850	86.574	21.235	1.00	48.50	Al6S	ATOM	27724	C4	CYT	398	140.328	92.932	33.735	1.00	52.51	Al1
ATOM	27672	C2	CYT	395	140.328	89.811	19.560	1.00	42.32	Al6S	ATOM	27725	O4	CYT	398	140.471	91.634	33.094	1.00	52.51	Al1
ATOM	27673	O2	CYT	395	139.213	90.410	18.939	1.00	42.32	Al6S	ATOM	27726	C1	CYT	398	141.595	90.965	33.654	1.00	52.51	Al1
ATOM	27674	C3	CYT	395	141.642	90.409	19.084	1.00	42.32	Al6S	ATOM	27727	N1	CYT	398	142.554	90.578	32.598	1.00	71.21	Al1
ATOM	27675	O3	CYT	395	141.558	91.819	18.945	1.00	42.32	Al6S	ATOM	27728	C6	CYT	398	142.660	91.279	31.430	1.00	71.21	Al1
ATOM	27676	P	CYT	396	142.048	92.767	20.153	1.00	46.36	Al6S	ATOM	27729	C2	CYT	398	143.402	89.493	32.845	1.00	71.21	Al1
ATOM	27677	O1P	CYT	396	141.892	94.175	19.706	1.00	54.84	Al6S	ATOM	27730	O2	CYT	398	143.245	88.832	33.881	1.00	71.21	Al1
ATOM	27678	O2P	CYT	396	143.372	92.293	20.644	1.00	54.84	Al6S	ATOM	27731	N3	CYT	398	144.365	89.188	31.952	1.00	71.21	Al1
ATOM	27679	O5	CYT	396	140.955	92.500	21.277	1.00	46.36	Al6S	ATOM	27732	C4	CYT	398	144.490	89.904	30.840	1.00	71.21	Al1
ATOM	27680	C5	CYT	396	139.578	92.841	21.037	1.00	46.36	Al6S	ATOM	27733	N4	CYT	398	145.478	89.586	30.005	1.00	71.21	Al1
ATOM	27681	C4	CYT	396	138.722	92.445	22.208	1.00	46.36	Al6S	ATOM	27734	C5	CYT	398	143.610	90.982	30.535	1.00	71.21	Al1
ATOM	27682	O4	CYT	396	138.593	91.004	22.254	1.00	46.36	Al6S	ATOM	27735	C2	CYT	398	142.281	91.936	34.622	1.00	52.51	Al1
ATOM	27683	C1	CYT	396	138.500	90.575	23.601	1.00	46.36	Al6S	ATOM	27736	O2	CYT	398	141.929	91.637	35.955	1.00	52.51	Al1
ATOM	27684	N1	CYT	396	139.683	89.753	23.933	1.00	54.84	Al6S	ATOM	27737	C3	CYT	398	141.744	93.283	34.155	1.00	52.51	Al1

ATOM	27738	O3' CYT	398	141.837	94.252	35.179	1.00	52.51	A16S	ATOM	27791	N2	GUA	401	145.897	98.162	47.757	1.00	65.03	A1	
ATOM	27739	P' URI	399	143.272	94.879	35.534	1.00	64.62	A16S	ATOM	27792	N1	GUA	401	147.928	97.366	48.481	1.00	65.03	A1	
ATOM	27740	O1P URI	399	143.055	96.002	36.475	1.00	65.57	A16S	ATOM	27793	C6	GUA	401	149.182	96.781	48.367	1.00	65.03	A1	
ATOM	27741	O2P URI	399	144.017	95.120	34.276	1.00	65.57	A16S	ATOM	27794	O6	GUA	401	149.894	96.643	49.370	1.00	65.03	A1	
ATOM	27742	O5' URI	399	144.007	93.713	36.332	1.00	64.62	A16S	ATOM	27795	C5	GUA	401	149.463	96.416	47.034	1.00	65.03	A1	
ATOM	27743	C5' URI	399	143.456	93.210	37.568	1.00	64.62	A16S	ATOM	27796	N7	GUA	401	150.584	95.806	46.491	1.00	65.03	A1	
ATOM	27744	C4' URI	399	144.398	92.218	38.210	1.00	64.62	A16S	ATOM	27797	C8	GUA	401	150.315	95.704	45.219	1.00	65.03	A1	
ATOM	27745	O4' URI	399	144.530	91.041	37.376	1.00	64.62	A16S	ATOM	27798	C2' GUA	401	148.336	97.717	43.048	1.00	66.68	A1		
ATOM	27746	C1' URI	399	145.853	90.537	37.464	1.00	64.62	A16S	ATOM	27799	O2' GUA	401	147.179	97.800	42.233	1.00	66.68	A1		
ATOM	27747	N1' URI	399	146.466	90.560	36.124	1.00	65.57	A16S	ATOM	27800	C3' GUA	401	149.615	97.902	42.244	1.00	66.68	A1		
ATOM	27748	C6' URI	399	145.852	91.174	35.054	1.00	65.57	A16S	ATOM	27801	O3' GUA	401	149.447	98.892	41.243	1.00	66.68	A1		
ATOM	27749	C2' URI	399	147.700	89.956	35.974	1.00	65.57	A16S	ATOM	27802	P	GUA	402	149.965	100.387	41.510	1.00	68.02	A1	
ATOM	27750	O2' URI	399	148.269	89.373	36.881	1.00	65.57	A16S	ATOM	27803	O1P GUA	402	149.816	101.114	40.225	1.00	67.21	A1		
ATOM	27751	N3	399	148.247	90.058	34.721	1.00	65.57	A16S	ATOM	27804	O2P GUA	402	151.299	100.328	42.174	1.00	67.21	A1		
ATOM	27752	C4	399	147.702	90.677	33.621	1.00	65.57	A16S	ATOM	27805	O5' GUA	402	148.903	100.970	42.543	1.00	68.02	A1		
ATOM	27753	O4	399	148.371	90.775	32.592	1.00	65.57	A16S	ATOM	27806	C5' GUA	402	147.544	101.228	42.138	1.00	68.02	A1		
ATOM	27754	C5	399	146.412	91.248	33.841	1.00	65.57	A16S	ATOM	27807	C4' GUA	402	146.772	101.853	43.274	1.00	68.02	A1		
ATOM	27755	C2' URI	399	146.616	91.409	38.462	1.00	64.62	A16S	ATOM	27808	O4' GUA	402	146.573	100.867	44.319	1.00	68.02	A1		
ATOM	27756	O2' URI	399	146.589	90.783	39.724	1.00	64.62	A16S	ATOM	27809	C1' GUA	402	146.688	101.485	45.585	1.00	68.02	A1		
ATOM	27757	C3' URI	399	145.819	92.705	38.410	1.00	64.62	A16S	ATOM	27810	N9	GUA	402	147.831	100.887	46.268	1.00	67.21	A1	
ATOM	27758	O3' URI	399	145.934	93.477	39.590	1.00	64.62	A16S	ATOM	27811	C4	GUA	402	148.139	100.994	47.604	1.00	67.21	A1	
ATOM	27759	P' URI	400	147.032	94.644	39.667	1.00	59.05	A16S	ATOM	27812	N3	GUA	402	147.452	101.704	48.520	1.00	67.21	A1	
ATOM	27760	O1P URI	400	146.789	95.398	40.931	1.00	75.84	A16S	ATOM	27813	C2	GUA	402	147.980	101.591	49.729	1.00	67.21	A1	
ATOM	27761	O2P URI	400	147.046	95.365	38.367	1.00	75.84	A16S	ATOM	27814	N2	GUA	402	147.422	102.241	50.765	1.00	67.21	A1	
ATOM	27762	O5' URI	400	148.389	93.839	39.842	1.00	59.05	A16S	ATOM	27815	N1	GUA	402	149.089	100.834	50.013	1.00	67.21	A1	
ATOM	27763	C5' URI	400	148.532	92.933	40.927	1.00	59.05	A16S	ATOM	27816	C6	GUA	402	149.810	100.094	49.085	1.00	67.21	A1	
ATOM	27764	C4' URI	400	149.776	92.111	40.765	1.00	59.05	A16S	ATOM	27817	O6	GUA	402	150.790	99.431	49.450	1.00	67.21	A1	
ATOM	27765	O4' URI	400	149.664	91.259	39.605	1.00	59.05	A16S	ATOM	27818	C5	GUA	402	149.263	100.217	47.784	1.00	67.21	A1	
ATOM	27766	C1' URI	400	150.947	91.053	39.051	1.00	59.05	A16S	ATOM	27819	N7	GUA	402	149.676	99.661	46.581	1.00	67.21	A1	
ATOM	27767	N1	400	150.904	91.402	37.619	1.00	75.84	A16S	ATOM	27820	C8	GUA	402	148.802	100.089	45.711	1.00	67.21	A1	
ATOM	27768	C6	400	150.005	92.326	37.124	1.00	75.84	A16S	ATOM	27821	C2' GUA	402	146.852	102.985	45.354	1.00	68.02	A1		
ATOM	27769	C2	400	151.794	90.766	36.777	1.00	75.84	A16S	ATOM	27822	O2' GUA	402	145.581	103.606	45.377	1.00	68.02	A1		
ATOM	27770	O2	400	152.609	89.955	37.168	1.00	75.84	A16S	ATOM	27823	C3' GUA	402	147.471	103.010	43.965	1.00	68.02	A1		
ATOM	27771	N3	400	151.695	91.118	35.456	1.00	75.84	A16S	ATOM	27824	O3' GUA	402	147.267	104.247	43.302	1.00	68.02	A1		
ATOM	27772	C4	400	150.820	92.023	34.897	1.00	75.84	A16S	ATOM	27825	P	ADE	403	148.397	105.383	43.399	1.00	72.65	A1	
ATOM	27773	O4	400	150.833	92.204	33.678	1.00	75.84	A16S	ATOM	27826	O1P ADE	403	148.005	106.468	42.474	1.00	81.55	A1		
ATOM	27774	C5	400	149.937	92.648	35.828	1.00	75.84	A16S	ATOM	27827	O2P ADE	403	149.739	104.755	43.274	1.00	81.55	A1		
ATOM	27775	C2' URI	400	151.964	91.832	39.898	1.00	59.05	A16S	ATOM	27828	O5' ADE	403	148.272	105.924	44.888	1.00	72.65	A1		
ATOM	27776	C2' URI	400	152.559	90.930	40.815	1.00	59.05	A16S	ATOM	27829	C5' ADE	403	147.157	106.742	45.297	1.00	72.65	A1		
ATOM	27777	O3' URI	400	151.080	92.868	40.594	1.00	59.05	A16S	ATOM	27830	C4' ADE	403	147.298	107.125	46.751	1.00	72.65	A1		
ATOM	27778	O3' URI	400	151.555	93.199	41.899	1.00	59.05	A16S	ATOM	27831	O4' ADE	403	147.109	105.946	47.582	1.00	72.65	A1		
ATOM	27779	P	GUA	401	152.738	94.271	42.099	1.00	66.68	A16S	ATOM	27832	C1' ADE	403	147.969	106.015	48.713	1.00	72.65	A1	
ATOM	27780	O1P GUA	401	153.597	94.265	40.885	1.00	65.03	A16S	ATOM	27833	N9	ADE	403	148.941	104.921	48.636	1.00	81.55	A1	
ATOM	27781	O2P GUA	401	153.339	93.961	43.432	1.00	65.03	A16S	ATOM	27834	C4	ADE	403	149.773	104.511	49.653	1.00	81.55	A1	
ATOM	27782	O5' GUA	401	151.989	95.675	42.218	1.00	66.68	A16S	ATOM	27835	N3	ADE	403	149.815	104.977	50.914	1.00	81.55	A1	
ATOM	27783	C5' GUA	401	151.188	96.161	41.138	1.00	66.68	A16S	ATOM	27836	C2	ADE	403	150.769	104.366	51.612	1.00	81.55	A1	
ATOM	27784	C4' GUA	401	149.798	96.533	41.615	1.00	66.68	A16S	ATOM	27837	N1	ADE	403	151.627	103.419	51.223	1.00	81.55	A1	
ATOM	27785	O4' GUA	401	149.349	95.606	42.637	1.00	66.68	A16S	ATOM	27838	C6	ADE	403	151.566	102.977	49.949	1.00	81.55	A1	
ATOM	27786	C1' GUA	401	148.492	96.280	43.547	1.00	66.68	A16S	ATOM	27839	N6	ADE	403	152.437	102.049	49.558	1.00	81.55	A1	
ATOM	27787	N9	GUA	401	149.085	96.216	44.884	1.00	65.03	A16S	ATOM	27840	C5	ADE	403	150.585	103.536	49.107	1.00	81.55	A1
ATOM	27788	C4	GUA	401	148.526	96.674	46.061	1.00	65.03	A16S	ATOM	27841	N7	ADE	403	150.247	103.304	47.782	1.00	81.55	A1
ATOM	27789	N3	GUA	401	147.316	97.252	46.194	1.00	65.03	A16S	ATOM	27842	C8	ADE	403	149.262	104.139	47.556	1.00	81.55	A1
ATOM	27790	C2	GUA	401	147.062	97.581	47.444	1.00	65.03	A16S	ATOM	27843	C2' ADE	403	148.707	107.353	48.646	1.00	72.65	A1	

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ATOM	27844	O2' ADE	403	148.049	108.360	49.391	1.00	72.65	Al6S	ATOM	27897	C5' ADE	406	161.606	112.168	53.050	1.00	88.46	Al
ATOM	27845	C3' ADE	403	148.672	107.636	47.157	1.00	72.65	Al6S	ATOM	27898	C4' ADE	406	163.071	112.453	52.836	1.00	88.46	Al
ATOM	27846	O3' ADE	403	148.919	108.998	46.872	1.00	72.65	Al6S	ATOM	27899	O4' ADE	406	163.692	111.288	52.243	1.00	88.46	Al
ATOM	27847	P	404	150.430	109.474	46.587	1.00	69.34	Al6S	ATOM	27900	C1' ADE	406	164.624	111.691	51.254	1.00	88.46	Al
ATOM	27848	O1P GUA	404	150.282	110.754	45.882	1.00	82.18	Al6S	ATOM	27901	N9 ADE	406	164.184	111.112	49.979	1.00	81.44	Al
ATOM	27849	O2P GUA	404	151.212	108.374	45.951	1.00	82.18	Al6S	ATOM	27902	C4 ADE	406	164.448	109.831	49.559	1.00	81.44	Al
ATOM	27850	O5' GUA	404	151.080	109.691	48.029	1.00	69.34	Al6S	ATOM	27903	N3 ADE	406	165.159	108.896	50.204	1.00	81.44	Al
ATOM	27851	C5' GUA	404	150.361	110.344	49.099	1.00	69.34	Al6S	ATOM	27904	C2 ADE	406	165.189	107.765	49.505	1.00	81.44	Al
ATOM	27852	C4' GUA	404	150.951	109.961	50.442	1.00	69.34	Al6S	ATOM	27905	N1 ADE	406	164.628	107.480	48.328	1.00	81.44	Al
ATOM	27853	O4' GUA	404	150.928	108.528	50.623	1.00	69.34	Al6S	ATOM	27906	C6 ADE	406	163.910	108.437	47.710	1.00	81.44	Al
ATOM	27854	O1' GUA	404	151.922	108.051	51.390	1.00	69.34	Al6S	ATOM	27907	N6 ADE	406	163.322	108.138	46.553	1.00	81.44	Al
ATOM	27855	N9 GUA	404	152.601	106.989	50.655	1.00	82.18	Al6S	ATOM	27908	C5 ADE	406	163.812	109.693	48.342	1.00	81.44	Al
ATOM	27856	C4 GUA	404	153.602	106.183	51.136	1.00	82.18	Al6S	ATOM	27909	N7 ADE	406	163.169	110.873	47.986	1.00	81.44	Al
ATOM	27857	N3 GUA	404	154.135	106.237	52.372	1.00	82.18	Al6S	ATOM	27910	C8 ADE	406	163.423	111.683	48.984	1.00	81.44	Al
ATOM	27858	C2 GUA	404	155.072	105.318	52.545	1.00	82.18	Al6S	ATOM	27911	C2' ADE	406	164.708	113.223	51.279	1.00	88.46	Al
ATOM	27859	N2 GUA	404	155.707	105.217	53.721	1.00	82.18	Al6S	ATOM	27912	O2' ADE	406	165.791	113.641	52.085	1.00	88.46	Al
ATOM	27860	N1 GUA	404	155.458	104.426	51.579	1.00	82.18	Al6S	ATOM	27913	C3' ADE	406	163.355	113.596	51.871	1.00	88.46	Al
ATOM	27861	C6 GUA	404	154.928	104.356	50.300	1.00	82.18	Al6S	ATOM	27914	O3' ADE	406	163.378	114.850	52.544	1.00	88.46	Al
ATOM	27862	O5 GUA	404	155.354	103.514	49.509	1.00	82.18	Al6S	ATOM	27915	P	407	162.792	116.157	51.814	1.00	82.65	Al
ATOM	27863	C5 GUA	404	153.917	105.330	50.101	1.00	82.18	Al6S	ATOM	27916	O1P ADE	407	162.696	117.239	52.828	1.00	180.67	Al
ATOM	27864	N7 GUA	404	153.135	105.598	48.988	1.00	82.18	Al6S	ATOM	27917	O2P ADE	407	161.589	115.779	51.025	1.00	180.67	Al
ATOM	27865	C8 GUA	404	152.372	106.589	49.361	1.00	82.18	Al6S	ATOM	27918	O5' ADE	407	163.939	116.550	50.791	1.00	82.65	Al
ATOM	27866	C2' GUA	404	152.828	109.235	51.723	1.00	69.34	Al6S	ATOM	27919	C5' ADE	407	165.300	116.602	51.213	1.00	82.65	Al
ATOM	27867	O2' GUA	404	152.522	109.683	53.024	1.00	69.34	Al6S	ATOM	27920	C4' ADE	407	166.196	116.361	50.038	1.00	82.65	Al
ATOM	27868	C3' GUA	404	152.434	110.250	50.654	1.00	69.34	Al6S	ATOM	27921	O4' ADE	407	165.802	117.217	48.955	1.00	82.65	Al
ATOM	27869	O3' GUA	404	152.656	111.578	51.129	1.00	69.34	Al6S	ATOM	27922	C1' ADE	407	166.918	117.452	48.138	1.00	82.65	Al
ATOM	27870	P	405	154.036	112.341	50.781	1.00	66.99	Al6S	ATOM	27923	N9 ADE	407	166.843	118.822	47.647	1.00	180.67	Al
ATOM	27871	O1P GUA	405	154.152	113.489	51.727	1.00	112.70	Al6S	ATOM	27924	C4 ADE	407	166.088	119.192	46.563	1.00	180.67	Al
ATOM	27872	O2P GUA	405	154.048	112.595	49.326	1.00	112.70	Al6S	ATOM	27925	N3 ADE	407	165.332	118.393	45.790	1.00	180.67	Al
ATOM	27873	O5' GUA	405	155.191	111.293	51.124	1.00	66.99	Al6S	ATOM	27926	C2 ADE	407	164.736	119.095	44.834	1.00	180.67	Al
ATOM	27874	C5' GUA	405	155.571	111.043	52.484	1.00	66.99	Al6S	ATOM	27927	N1 ADE	407	164.801	120.408	44.581	1.00	180.67	Al
ATOM	27875	C4' GUA	405	156.580	109.927	52.556	1.00	66.99	Al6S	ATOM	27928	C6 ADE	407	165.569	121.184	45.378	1.00	180.67	Al
ATOM	27876	O4' GUA	405	155.987	108.694	52.075	1.00	66.99	Al6S	ATOM	27929	N6 ADE	407	165.629	122.496	45.127	1.00	180.67	Al
ATOM	27877	C1' GUA	405	156.980	107.907	51.432	1.00	66.99	Al6S	ATOM	27930	C5 ADE	407	166.259	120.556	46.432	1.00	180.67	Al
ATOM	27878	N9 GUA	405	156.539	107.606	50.069	1.00	112.70	Al6S	ATOM	27931	N7 ADE	407	167.117	121.039	47.414	1.00	180.67	Al
ATOM	27879	C4 GUA	405	156.989	106.575	49.273	1.00	112.70	Al6S	ATOM	27932	C8 ADE	407	167.436	119.972	48.107	1.00	180.67	Al
ATOM	27880	N3 GUA	405	157.897	105.641	49.622	1.00	112.70	Al6S	ATOM	27933	C2' ADE	407	168.188	117.002	48.873	1.00	82.65	Al
ATOM	27881	C2 GUA	405	158.133	104.788	48.641	1.00	112.70	Al6S	ATOM	27934	O2' ADE	407	168.749	115.889	48.213	1.00	82.65	Al
ATOM	27882	N2 GUA	405	159.005	103.787	48.820	1.00	112.70	Al6S	ATOM	27935	C3' ADE	407	167.668	116.646	50.266	1.00	82.65	Al
ATOM	27883	N1 GUA	405	157.529	104.851	47.412	1.00	112.70	Al6S	ATOM	27936	O3' ADE	407	168.221	115.419	50.728	1.00	82.65	Al
ATOM	27884	C6 GUA	405	156.590	105.802	47.028	1.00	112.70	Al6S	ATOM	27937	P	408	169.773	115.319	51.122	1.00	123.54	Al
ATOM	27885	O6 GUA	405	156.105	105.766	45.888	1.00	112.70	Al6S	ATOM	27938	O1P GUA	408	169.906	115.730	52.546	1.00	92.81	Al
ATOM	27886	C5 GUA	405	156.321	106.720	48.076	1.00	112.70	Al6S	ATOM	27939	O2P GUA	408	170.602	115.990	50.079	1.00	92.81	Al
ATOM	27887	N7 GUA	405	155.457	107.805	48.120	1.00	112.70	Al6S	ATOM	27940	O5' GUA	408	170.038	113.750	51.060	1.00	105.92	Al
ATOM	27888	C8 GUA	405	155.616	108.298	49.319	1.00	112.70	Al6S	ATOM	27941	C5' GUA	408	170.149	113.071	49.798	1.00	105.92	Al
ATOM	27889	C2' GUA	405	158.303	108.682	51.478	1.00	66.99	Al6S	ATOM	27942	C4' GUA	408	169.070	112.021	49.668	1.00	105.92	Al
ATOM	27890	O2' GUA	405	159.136	108.177	52.504	1.00	66.99	Al6S	ATOM	27943	O4' GUA	408	167.788	112.640	49.406	1.00	105.92	Al
ATOM	27891	C3' GUA	405	157.823	110.114	51.707	1.00	66.99	Al6S	ATOM	27944	C1' GUA	408	167.013	111.787	48.589	1.00	105.92	Al
ATOM	27892	O3' GUA	405	158.788	110.909	52.377	1.00	66.99	Al6S	ATOM	27945	N9 GUA	408	166.384	112.571	47.525	1.00	92.81	Al
ATOM	27893	P	406	159.356	112.238	51.673	1.00	88.46	Al6S	ATOM	27946	C4 GUA	408	165.680	112.100	46.436	1.00	92.81	Al
ATOM	27894	O1P ADE	406	158.940	113.379	52.523	1.00	81.44	Al6S	ATOM	27947	N3 GUA	408	165.491	110.811	46.110	1.00	92.81	Al
ATOM	27895	O2P ADE	406	158.983	112.236	50.234	1.00	81.44	Al6S	ATOM	27948	C2 GUA	408	164.737	110.679	45.029	1.00	92.81	Al
ATOM	27896	O5' ADE	406	160.935	112.061	51.781	1.00	88.46	Al6S	ATOM	27949	N2 GUA	408	164.451	109.470	44.570	1.00	92.81	Al

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ATOM	27950	N1	GUA	408	164.209	111.723	44.324	1.00	92.81	Al6S	28003	O3'	ADE	410	176.235	100.958	50.081	1.00	73.48	Al6
ATOM	27951	O6'	GUA	408	164.385	113.060	44.637	1.00	92.81	Al6S	28004	P	GUA	411	177.316	101.162	48.907	1.00	87.76	Al6
ATOM	27952	O6	GUA	408	163.849	113.927	43.940	1.00	92.81	Al6S	28005	O1P	GUA	411	178.642	100.753	49.431	1.00	95.77	Al6
ATOM	27953	C5	GUA	408	165.202	113.223	45.794	1.00	92.81	Al6S	28006	O2P	GUA	411	177.149	102.524	48.341	1.00	95.77	Al6
ATOM	27954	N7	GUA	408	165.625	114.375	46.438	1.00	92.81	Al6S	28007	O5'	GUA	411	176.876	100.091	47.812	1.00	87.76	Al6
ATOM	27955	C8	GUA	408	166.329	113.942	47.448	1.00	92.81	Al6S	28008	C5'	GUA	411	176.928	98.676	48.103	1.00	87.76	Al6
ATOM	27956	C2'	GUA	408	167.857	110.565	48.216	1.00	101.05.92	Al6S	28009	C4'	GUA	411	176.238	97.879	47.015	1.00	87.76	Al6
ATOM	27957	O2'	GUA	408	167.465	109.517	49.070	1.00	101.05.92	Al6S	28010	O4'	GUA	411	174.821	98.188	46.997	1.00	87.76	Al6
ATOM	27958	C3'	GUA	408	169.277	111.036	48.529	1.00	101.05.92	Al6S	28011	C1'	GUA	411	174.351	98.207	45.661	1.00	87.76	Al6
ATOM	27959	O3'	GUA	408	170.123	110.021	49.082	1.00	101.05.92	Al6S	28012	N9	GUA	411	173.906	99.568	45.363	1.00	95.77	Al6
ATOM	27960	P	ADE	409	170.435	108.656	48.285	1.00	80.80	Al6S	28013	C4	GUA	411	173.096	99.966	44.322	1.00	95.77	Al6
ATOM	27961	O1P	ADE	409	171.883	108.681	47.953	1.00	101.09.30	Al6S	28014	N3	GUA	411	172.558	99.162	43.382	1.00	95.77	Al6
ATOM	27962	O2P	ADE	409	169.453	108.429	47.207	1.00	101.09.30	Al6S	28015	C2	GUA	411	171.823	99.837	42.518	1.00	95.77	Al6
ATOM	27963	O5'	ADE	409	170.228	107.545	49.414	1.00	80.80	Al6S	28016	N2	GUA	411	171.204	99.188	41.519	1.00	95.77	Al6
ATOM	27964	C5'	ADE	409	170.438	107.876	50.812	1.00	80.80	Al6S	28017	N1	GUA	411	171.638	101.197	42.569	1.00	95.77	Al6
ATOM	27965	C4'	ADE	409	170.570	106.628	51.656	1.00	80.80	Al6S	28018	C6	GUA	411	172.191	102.043	43.524	1.00	95.77	Al6
ATOM	27966	O4'	ADE	409	169.298	105.943	51.742	1.00	80.80	Al6S	28019	O6	GUA	411	171.975	103.258	43.472	1.00	95.77	Al6
ATOM	27967	C1'	ADE	409	169.516	104.544	51.824	1.00	80.80	Al6S	28020	C5	GUA	411	172.969	101.332	44.459	1.00	95.77	Al6
ATOM	27968	N9	ADE	409	168.769	103.888	50.748	1.00	101.09.30	Al6S	28021	N7	GUA	411	173.681	101.787	45.560	1.00	95.77	Al6
ATOM	27969	C4	ADE	409	168.748	102.541	50.478	1.00	101.09.30	Al6S	28022	C8	GUA	411	174.218	100.711	46.065	1.00	95.77	Al6
ATOM	27970	N3	ADE	409	169.410	101.568	51.125	1.00	101.09.30	Al6S	28023	C2'	GUA	411	175.504	97.751	44.765	1.00	87.76	Al6
ATOM	27971	C2	ADE	409	169.137	100.377	50.592	1.00	101.09.30	Al6S	28024	O2'	GUA	411	175.424	96.351	44.581	1.00	87.76	Al6
ATOM	27972	N1	ADE	409	168.335	100.072	49.563	1.00	101.09.30	Al6S	28025	C3'	GUA	411	176.714	98.146	45.598	1.00	87.76	Al6
ATOM	27973	C6	ADE	409	167.683	101.074	48.935	1.00	101.09.30	Al6S	28026	O3'	GUA	411	177.861	97.372	45.287	1.00	87.76	Al6
ATOM	27974	N6	ADE	409	166.874	100.772	47.915	1.00	101.09.30	Al6S	28027	P	CYT	412	178.953	97.953	44.265	1.00	94.42	Al6
ATOM	27975	C5	ADE	409	167.894	102.386	49.402	1.00	101.09.30	Al6S	28028	O1P	CYT	412	179.960	96.884	44.060	1.00	77.15	Al6
ATOM	27976	N7	ADE	409	167.394	103.613	48.991	1.00	101.09.30	Al6S	28029	O2P	CYT	412	179.391	99.294	44.716	1.00	77.15	Al6
ATOM	27977	C8	ADE	409	167.944	104.468	49.816	1.00	101.09.30	Al6S	28030	O5'	CYT	412	178.135	98.151	42.914	1.00	94.42	Al6
ATOM	27978	C2'	ADE	409	171.026	104.293	51.788	1.00	80.80	Al6S	28031	C5'	CYT	412	177.711	97.017	42.126	1.00	94.42	Al6
ATOM	27979	O2'	ADE	409	171.496	104.066	53.100	1.00	80.80	Al6S	28032	C4'	CYT	412	176.951	97.483	40.908	1.00	94.42	Al6
ATOM	27980	C3'	ADE	409	172.876	105.883	51.574	1.00	80.80	Al6S	28033	O4'	CYT	412	175.697	98.073	41.328	1.00	94.42	Al6
ATOM	27981	O3'	ADE	409	174.096	105.682	50.546	1.00	73.48	Al6S	28034	C1'	CYT	412	175.400	99.191	40.509	1.00	94.42	Al6
ATOM	27982	P	ADE	410	174.096	105.682	50.546	1.00	73.48	Al6S	28035	N1	CYT	412	175.382	100.401	41.352	1.00	77.15	Al6
ATOM	27983	O1P	ADE	410	175.343	106.123	51.222	1.00	101.06.41	Al6S	28036	C6	CYT	412	176.089	100.460	42.523	1.00	77.15	Al6
ATOM	27984	O2P	ADE	410	173.711	106.289	49.245	1.00	101.06.41	Al6S	28037	C2	CYT	412	174.634	101.507	40.926	1.00	77.15	Al6
ATOM	27985	O5'	ADE	410	174.181	104.104	50.359	1.00	73.48	Al6S	28038	O2	CYT	412	174.004	101.433	39.853	1.00	77.15	Al6
ATOM	27986	C5'	ADE	410	174.440	103.248	51.478	1.00	73.48	Al6S	28039	N3	CYT	412	174.621	102.628	41.688	1.00	77.15	Al6
ATOM	27987	C4'	ADE	410	174.189	101.807	51.108	1.00	73.48	Al6S	28040	C4	CYT	412	175.319	102.671	42.822	1.00	77.15	Al6
ATOM	27988	O4'	ADE	410	172.774	101.593	50.854	1.00	73.48	Al6S	28041	N4	CYT	412	175.278	103.792	43.534	1.00	77.15	Al6
ATOM	27989	C1'	ADE	410	172.617	100.582	49.869	1.00	73.48	Al6S	28042	C5	CYT	412	176.089	101.565	43.277	1.00	77.15	Al6
ATOM	27990	N9	ADE	410	171.871	101.120	48.725	1.00	101.06.41	Al6S	28043	C2'	CYT	412	176.477	99.277	39.428	1.00	94.42	Al6
ATOM	27991	C4	ADE	410	171.119	100.375	47.845	1.00	101.06.41	Al6S	28044	O2'	CYT	412	176.047	98.605	38.263	1.00	94.42	Al6
ATOM	27992	N3	ADE	410	170.899	99.049	47.878	1.00	101.06.41	Al6S	28045	C3'	CYT	412	177.640	98.572	40.101	1.00	94.42	Al6
ATOM	27993	C2	ADE	410	170.131	98.674	46.858	1.00	101.06.41	Al6S	28046	O3'	CYT	412	178.555	98.053	39.156	1.00	94.42	Al6
ATOM	27994	N1	ADE	410	169.601	99.414	45.879	1.00	101.06.41	Al6S	28047	P	CYT	413	179.762	98.974	38.639	1.00	78.33	Al6
ATOM	27995	C6	ADE	410	169.844	100.742	45.870	1.00	101.06.41	Al6S	28048	O1P	CYT	413	180.364	99.648	39.812	1.00	92.29	Al6
ATOM	27996	N6	ADE	410	169.325	101.477	44.886	1.00	101.06.41	Al6S	28049	O2P	CYT	413	180.611	98.134	37.761	1.00	92.29	Al6
ATOM	27997	C5	ADE	410	170.639	101.270	46.906	1.00	101.06.41	Al6S	28050	O5'	CYT	413	179.054	100.099	37.762	1.00	78.33	Al6
ATOM	27998	N7	ADE	410	171.066	102.560	47.193	1.00	101.06.41	Al6S	28051	C5'	CYT	413	178.476	99.773	36.488	1.00	78.33	Al6
ATOM	27999	C8	ADE	410	171.787	102.419	48.280	1.00	101.06.41	Al6S	28052	C4'	CYT	413	177.932	101.010	35.812	1.00	78.33	Al6
ATOM	28000	C2'	ADE	410	174.014	100.108	49.464	1.00	73.48	Al6S	28053	O4'	CYT	413	176.795	101.518	36.552	1.00	78.33	Al6
ATOM	28001	O2'	ADE	410	174.317	98.942	50.200	1.00	73.48	Al6S	28054	C1'	CYT	413	176.737	102.926	36.421	1.00	78.33	Al6
ATOM	28002	C3'	ADE	410	174.876	101.306	49.850	1.00	73.48	Al6S	28055	N1	CYT	413	176.778	103.532	37.762	1.00	92.29	Al6

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ATOM	28056	C6' CYT	413	177.142	102.800	38.856	1.00	92.29	Al6S	ATOM	28109	O2P URI	416	186.662	111.856	35.684	1.00	76.38	Al1'
ATOM	28057	O2' CYT	413	176.435	104.883	37.902	1.00	92.29	Al6S	ATOM	28110	O5' URI	416	186.956	114.243	34.951	1.00	102.86	Al1'
ATOM	28058	O2' CYT	413	176.115	105.532	36.896	1.00	92.29	Al6S	ATOM	28111	C5' URI	416	186.522	114.949	36.126	1.00	102.86	Al1'
ATOM	28059	N3' CYT	413	176.463	105.450	39.125	1.00	92.29	Al6S	ATOM	28112	C4' URI	416	186.560	116.437	35.881	1.00	102.86	Al1'
ATOM	28060	C4' CYT	413	176.821	104.729	40.184	1.00	92.29	Al6S	ATOM	28113	O4' URI	416	186.056	116.656	34.550	1.00	102.86	Al1'
ATOM	28061	N4' CYT	413	176.834	105.334	41.372	1.00	92.29	Al6S	ATOM	28114	C1' URI	416	185.305	117.844	34.522	1.00	102.86	Al1'
ATOM	28062	C5' CYT	413	177.180	103.354	40.074	1.00	92.29	Al6S	ATOM	28115	N1' URI	416	184.107	117.629	33.696	1.00	76.38	Al1'
ATOM	28063	C2' CYT	413	177.897	103.365	35.526	1.00	78.33	Al6S	ATOM	28116	C6' URI	416	183.579	116.369	33.527	1.00	76.38	Al1'
ATOM	28064	O2' CYT	413	177.416	103.518	34.202	1.00	78.33	Al6S	ATOM	28117	C2' URI	416	183.544	118.733	33.046	1.00	76.38	Al1'
ATOM	28065	O2' CYT	413	178.869	102.201	35.681	1.00	78.33	Al6S	ATOM	28118	O2' URI	416	183.937	119.883	33.201	1.00	76.38	Al1'
ATOM	28066	O3' CYT	413	179.735	102.072	34.557	1.00	78.33	Al6S	ATOM	28119	N3' URI	416	182.501	118.438	32.205	1.00	76.38	Al1'
ATOM	28067	P' CYT	414	181.215	102.709	34.607	1.00	72.29	Al6S	ATOM	28120	C4' URI	416	181.960	117.196	31.960	1.00	76.38	Al1'
ATOM	28068	O1P CYT	414	181.940	102.229	33.394	1.00	81.97	Al6S	ATOM	28121	O4' URI	416	181.087	117.080	31.099	1.00	76.38	Al1'
ATOM	28069	O2P CYT	414	181.782	102.443	35.956	1.00	81.97	Al6S	ATOM	28122	C5' URI	416	182.557	116.122	32.703	1.00	76.38	Al1'
ATOM	28070	O5' CYT	414	180.977	104.279	34.454	1.00	72.29	Al6S	ATOM	28123	C2' URI	416	185.158	118.398	35.944	1.00	102.86	Al1'
ATOM	28071	C5' CYT	414	180.478	104.808	33.220	1.00	72.29	Al6S	ATOM	28124	O2' URI	416	185.934	119.579	36.060	1.00	102.86	Al1'
ATOM	28072	C4' CYT	414	179.959	106.214	33.398	1.00	72.29	Al6S	ATOM	28125	C3' URI	416	185.664	117.245	36.821	1.00	102.86	Al1'
ATOM	28073	O4' CYT	414	179.907	106.245	34.396	1.00	72.29	Al6S	ATOM	28126	O3' URI	416	186.353	117.846	37.955	1.00	102.86	Al1'
ATOM	28074	C1' CYT	414	178.891	107.517	35.027	1.00	72.29	Al6S	ATOM	28127	P' CYT	417	187.654	117.145	38.630	1.00	130.60	Al1'
ATOM	28075	N1' CYT	414	179.140	107.351	36.473	1.00	81.97	Al6S	ATOM	28128	O1P CYT	417	188.836	117.904	38.150	1.00	119.02	Al1'
ATOM	28076	C6' CYT	414	179.564	106.160	36.994	1.00	81.97	Al6S	ATOM	28129	O2P CYT	417	187.629	115.670	38.493	1.00	119.02	Al1'
ATOM	28077	C2' CYT	414	178.954	108.457	37.310	1.00	81.97	Al6S	ATOM	28130	O5' CYT	417	187.508	117.459	40.185	1.00	130.60	Al1'
ATOM	28078	O2' CYT	414	178.535	109.516	36.820	1.00	81.97	Al6S	ATOM	28131	C5' CYT	417	186.224	117.749	40.753	1.00	130.60	Al1'
ATOM	28079	N3' CYT	414	179.231	108.346	38.627	1.00	81.97	Al6S	ATOM	28132	C4' CYT	417	185.686	116.545	41.493	1.00	130.60	Al1'
ATOM	28080	C4' CYT	414	179.659	107.186	39.122	1.00	81.97	Al6S	ATOM	28133	O4' CYT	417	185.649	115.390	40.642	1.00	130.60	Al1'
ATOM	28081	N4' CYT	414	179.928	107.127	40.427	1.00	81.97	Al6S	ATOM	28134	C1' CYT	417	185.397	114.285	41.466	1.00	130.60	Al1'
ATOM	28082	C5' CYT	414	179.833	106.034	38.300	1.00	81.97	Al6S	ATOM	28135	N1' CYT	417	185.737	113.036	40.755	1.00	119.02	Al1'
ATOM	28083	C2' CYT	414	179.996	108.359	34.389	1.00	72.29	Al6S	ATOM	28136	C6' CYT	417	186.440	113.057	39.582	1.00	119.02	Al1'
ATOM	28084	O2' CYT	414	179.446	109.181	33.373	1.00	72.29	Al6S	ATOM	28137	C2' CYT	417	185.298	111.811	41.293	1.00	119.02	Al1'
ATOM	28085	C3' CYT	414	180.933	107.281	33.862	1.00	72.29	Al6S	ATOM	28138	O2' CYT	417	184.676	111.809	42.365	1.00	119.02	Al1'
ATOM	28086	O3' CYT	414	181.756	107.771	32.819	1.00	72.29	Al6S	ATOM	28139	N3' CYT	417	185.563	110.665	40.629	1.00	119.02	Al1'
ATOM	28087	P' URI	415	183.269	108.189	33.147	1.00	92.35	Al6S	ATOM	28140	C4' CYT	417	186.233	110.701	39.476	1.00	119.02	Al1'
ATOM	28088	O1P URI	415	183.918	108.574	31.867	1.00	66.67	Al6S	ATOM	28141	N4' CYT	417	186.457	109.544	38.849	1.00	119.02	Al1'
ATOM	28089	O2P URI	415	183.862	107.103	33.978	1.00	66.67	Al6S	ATOM	28142	C5' CYT	417	186.703	111.926	38.913	1.00	119.02	Al1'
ATOM	28090	O5' URI	415	183.118	109.504	34.036	1.00	92.35	Al6S	ATOM	28143	C2' CYT	417	186.083	114.562	42.810	1.00	130.60	Al1'
ATOM	28091	C5' URI	415	182.648	110.739	33.454	1.00	92.35	Al6S	ATOM	28144	O2' CYT	417	185.184	114.247	43.851	1.00	130.60	Al1'
ATOM	28092	C4' URI	415	182.606	111.840	34.495	1.00	92.35	Al6S	ATOM	28145	C3' CYT	417	186.439	116.062	42.725	1.00	130.60	Al1'
ATOM	28093	O4' URI	415	181.674	111.468	35.545	1.00	92.35	Al6S	ATOM	28146	O3' CYT	417	185.879	116.829	43.793	1.00	130.60	Al1'
ATOM	28094	C1' URI	415	182.149	111.934	36.197	1.00	92.35	Al6S	ATOM	28147	P' GUA	418	186.418	116.685	45.306	1.00	90.97	Al1'
ATOM	28095	N1' URI	415	182.386	110.771	37.672	1.00	66.67	Al6S	ATOM	28148	O1P GUA	418	187.539	117.652	45.456	1.00	86.53	Al1'
ATOM	28096	C6' URI	415	182.625	109.519	37.151	1.00	66.67	Al6S	ATOM	28149	O2P GUA	418	186.628	115.251	45.682	1.00	86.53	Al1'
ATOM	28097	C2' URI	415	182.364	110.972	39.040	1.00	66.67	Al6S	ATOM	28150	O5' GUA	418	185.175	117.244	46.139	1.00	90.97	Al1'
ATOM	28098	O2' URI	415	182.157	112.059	39.549	1.00	66.67	Al6S	ATOM	28151	C5' GUA	418	183.820	116.787	45.866	1.00	90.97	Al1'
ATOM	28099	N3' URI	415	182.594	109.850	39.795	1.00	66.67	Al6S	ATOM	28152	C4' GUA	418	182.931	117.954	45.477	1.00	90.97	Al1'
ATOM	28100	C4' URI	415	182.837	108.573	39.337	1.00	66.67	Al6S	ATOM	28153	O4' GUA	418	183.406	118.540	44.239	1.00	90.97	Al1'
ATOM	28101	O4' URI	415	183.015	107.660	40.146	1.00	66.67	Al6S	ATOM	28154	C1' GUA	418	182.310	119.074	43.516	1.00	90.97	Al1'
ATOM	28102	C5' URI	415	182.844	108.445	37.916	1.00	66.67	Al6S	ATOM	28155	N9' GUA	418	182.369	118.613	42.128	1.00	86.53	Al1'
ATOM	28103	C2' URI	415	183.419	112.745	36.535	1.00	92.35	Al6S	ATOM	28156	C4' GUA	418	182.346	117.310	41.663	1.00	86.53	Al1'
ATOM	28104	O2' URI	415	183.087	114.115	36.399	1.00	92.35	Al6S	ATOM	28157	N3' GUA	418	182.271	116.192	42.420	1.00	86.53	Al1'
ATOM	28105	C3' URI	415	183.908	112.137	35.227	1.00	92.35	Al6S	ATOM	28158	C2' GUA	418	182.264	115.090	41.680	1.00	86.53	Al1'
ATOM	28106	O3' URI	415	184.770	113.032	34.521	1.00	92.35	Al6S	ATOM	28159	N2' GUA	418	182.195	113.886	42.270	1.00	86.53	Al1'
ATOM	28107	P' URI	416	186.363	112.810	34.580	1.00	102.86	Al6S	ATOM	28160	N1' GUA	418	182.326	115.086	40.307	1.00	86.53	Al1'
ATOM	28108	O1P URI	416	186.816	112.500	33.206	1.00	76.38	Al6S	ATOM	28161	C6' GUA	418	182.405	116.220	39.506	1.00	86.53	Al1'

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ATOM	28162	O6' GUA	418	182.461	116.102	38.275	1.00	86.53	Al6S	ATOM	28215	O3' GUA	420	171.532	114.430	38.727	1.00	79.47	Al
ATOM	28163	C5' GUA	418	182.412	117.413	40.287	1.00	86.53	Al6S	ATOM	28216	P	421	170.311	113.576	39.336	1.00	65.25	Al
ATOM	28164	N7 GUA	418	182.476	118.743	39.895	1.00	86.53	Al6S	ATOM	28217	O1P GUA	421	169.051	114.205	38.863	1.00	90.53	Al
ATOM	28165	C8 GUA	418	182.450	119.415	41.014	1.00	86.53	Al6S	ATOM	28218	O2P GUA	421	170.530	113.385	40.795	1.00	90.53	Al
ATOM	28166	C2' GUA	418	181.020	118.732	44.264	1.00	90.97	Al6S	ATOM	28219	O5' GUA	421	170.471	112.150	38.641	1.00	65.25	Al
ATOM	28167	O2' GUA	418	180.543	119.869	44.952	1.00	90.97	Al6S	ATOM	28220	C5' GUA	421	170.423	112.023	37.204	1.00	65.25	Al
ATOM	28168	C3' GUA	418	181.473	117.612	45.196	1.00	90.97	Al6S	ATOM	28221	C4' GUA	421	170.582	110.579	36.780	1.00	65.25	Al
ATOM	28169	O3' GUA	418	180.704	117.642	46.392	1.00	90.97	Al6S	ATOM	28222	O4' GUA	421	171.899	110.085	37.136	1.00	65.25	Al
ATOM	28170	P	419	179.678	116.449	46.721	1.00	102.00	Al6S	ATOM	28223	C1' GUA	421	171.828	108.686	37.366	1.00	65.25	Al
ATOM	28171	O1P GUA	419	178.756	116.950	47.779	1.00	84.08	Al6S	ATOM	28224	N9 GUA	421	172.362	108.389	38.692	1.00	90.53	Al
ATOM	28172	O2P GUA	419	180.469	115.209	46.960	1.00	84.08	Al6S	ATOM	28225	C4 GUA	421	172.760	107.153	39.137	1.00	90.53	Al
ATOM	28173	O5' GUA	419	178.819	116.278	45.387	1.00	102.00	Al6S	ATOM	28226	N3 GUA	421	172.736	106.010	38.422	1.00	90.53	Al
ATOM	28174	C5' GUA	419	178.097	117.394	44.822	1.00	102.00	Al6S	ATOM	28227	C2 GUA	421	173.186	104.982	39.120	1.00	90.53	Al
ATOM	28175	C4' GUA	419	177.842	117.170	43.346	1.00	102.00	Al6S	ATOM	28228	N2 GUA	421	173.243	103.769	38.555	1.00	90.53	Al
ATOM	28176	O4' GUA	419	179.040	116.582	42.771	1.00	102.00	Al6S	ATOM	28229	N1 GUA	421	173.616	105.068	40.420	1.00	90.53	Al
ATOM	28177	C1' GUA	419	178.686	115.686	41.734	1.00	102.00	Al6S	ATOM	28230	C6 GUA	421	173.647	106.233	41.177	1.00	90.53	Al
ATOM	28178	N9 GUA	419	179.067	114.333	42.124	1.00	84.08	Al6S	ATOM	28231	O6 GUA	421	174.056	106.198	42.340	1.00	90.53	Al
ATOM	28179	C4 GUA	419	179.128	113.255	41.293	1.00	84.08	Al6S	ATOM	28232	C5 GUA	421	173.172	107.347	40.437	1.00	90.53	Al
ATOM	28180	N3 GUA	419	178.910	113.282	39.953	1.00	84.08	Al6S	ATOM	28233	N7 GUA	421	173.040	108.680	40.802	1.00	90.53	Al
ATOM	28181	C2 GUA	419	179.011	112.086	39.413	1.00	84.08	Al6S	ATOM	28234	C8 GUA	421	172.559	109.261	39.737	1.00	90.53	Al
ATOM	28182	N2 GUA	419	178.844	111.943	38.093	1.00	84.08	Al6S	ATOM	28235	C2' GUA	421	170.369	108.249	37.212	1.00	65.25	Al
ATOM	28183	N1 GUA	419	179.288	110.946	40.124	1.00	84.08	Al6S	ATOM	28236	O2' GUA	421	170.190	107.646	35.943	1.00	65.25	Al
ATOM	28184	C6 GUA	419	179.508	110.892	41.496	1.00	84.08	Al6S	ATOM	28237	C3' GUA	421	169.625	109.571	37.391	1.00	65.25	Al
ATOM	28185	O6 GUA	419	179.732	109.808	42.040	1.00	84.08	Al6S	ATOM	28238	O3' GUA	421	168.378	109.579	36.725	1.00	65.25	Al
ATOM	28186	C5 GUA	419	179.422	112.177	42.087	1.00	84.08	Al6S	ATOM	28239	P	422	167.055	109.128	37.513	1.00	63.74	Al
ATOM	28187	N8 GUA	419	179.586	112.578	43.406	1.00	84.08	Al6S	ATOM	28240	O1P URI	422	165.930	109.355	36.579	1.00	94.27	Al
ATOM	28188	C8 GUA	419	179.376	113.865	43.379	1.00	84.08	Al6S	ATOM	28241	O2P URI	422	167.032	109.758	38.858	1.00	94.27	Al
ATOM	28189	C2' GUA	419	177.171	115.750	41.569	1.00	102.00	Al6S	ATOM	28242	O5' URI	422	167.227	107.551	37.687	1.00	63.74	Al
ATOM	28190	O2' GUA	419	176.845	116.683	40.559	1.00	102.00	Al6S	ATOM	28243	C5' URI	422	167.194	106.683	36.541	1.00	63.74	Al
ATOM	28191	C3' GUA	419	176.733	116.199	42.955	1.00	102.00	Al6S	ATOM	28244	C4' URI	422	167.470	105.255	36.944	1.00	63.74	Al
ATOM	28192	O3' GUA	419	175.441	116.799	42.906	1.00	102.00	Al6S	ATOM	28245	O4' URI	422	168.803	105.147	37.499	1.00	63.74	Al
ATOM	28193	P	420	174.137	115.865	42.740	1.00	79.47	Al6S	ATOM	28246	C1' URI	422	168.817	104.159	38.515	1.00	63.74	Al
ATOM	28194	O1P GUA	420	172.919	116.713	42.784	1.00	81.46	Al6S	ATOM	28247	N1 URI	422	169.290	104.783	39.765	1.00	94.27	Al
ATOM	28195	O2P GUA	420	174.259	114.707	43.657	1.00	81.46	Al6S	ATOM	28248	C6 URI	422	169.057	106.119	40.027	1.00	94.27	Al
ATOM	28196	O5' GUA	420	174.271	115.275	41.271	1.00	79.47	Al6S	ATOM	28249	C2 URI	422	169.988	103.992	40.673	1.00	94.27	Al
ATOM	28197	C5' GUA	420	173.965	116.069	40.115	1.00	79.47	Al6S	ATOM	28250	O2 URI	422	170.203	102.801	40.507	1.00	94.27	Al
ATOM	28198	C4' GUA	420	173.864	115.180	38.905	1.00	79.47	Al6S	ATOM	28251	N3 URI	422	170.419	104.652	41.794	1.00	94.27	Al
ATOM	28199	O4' GUA	420	175.134	114.500	38.715	1.00	79.47	Al6S	ATOM	28252	C4 URI	422	170.223	105.978	42.108	1.00	94.27	Al
ATOM	28200	C1' GUA	420	174.907	113.192	38.423	1.00	79.47	Al6S	ATOM	28253	O4 URI	422	170.640	106.408	43.185	1.00	94.27	Al
ATOM	28201	N9 GUA	420	175.415	112.221	39.188	1.00	81.46	Al6S	ATOM	28254	C5 URI	422	169.488	106.723	41.135	1.00	94.27	Al
ATOM	28202	C4 GUA	420	175.640	110.884	38.943	1.00	81.46	Al6S	ATOM	28255	C2' URI	422	167.414	103.547	38.595	1.00	63.74	Al
ATOM	28203	N3 GUA	420	175.455	110.248	37.760	1.00	81.46	Al6S	ATOM	28256	O2' URI	422	167.392	102.362	37.824	1.00	63.74	Al
ATOM	28204	C2 GUA	420	175.755	108.961	37.835	1.00	81.46	Al6S	ATOM	28257	C3' URI	422	166.553	104.653	37.992	1.00	63.74	Al
ATOM	28205	N2 GUA	420	175.651	108.188	36.749	1.00	81.46	Al6S	ATOM	28258	O3' URI	422	165.403	104.122	37.360	1.00	63.74	Al
ATOM	28206	N1 GUA	420	176.186	108.341	38.980	1.00	81.46	Al6S	ATOM	28259	P	423	164.014	104.058	38.152	1.00	64.68	Al
ATOM	28207	C6 GUA	420	176.380	108.969	40.209	1.00	81.46	Al6S	ATOM	28260	O1P GUA	423	164.191	103.132	39.291	1.00	73.39	Al
ATOM	28208	O6 GUA	420	176.769	108.308	41.182	1.00	81.46	Al6S	ATOM	28261	O2P GUA	423	162.935	103.815	37.160	1.00	73.39	Al
ATOM	28209	C5 GUA	420	176.074	110.361	40.141	1.00	81.46	Al6S	ATOM	28262	O5' GUA	423	163.842	105.528	38.727	1.00	64.68	Al
ATOM	28210	N7 GUA	420	176.136	111.348	41.117	1.00	81.46	Al6S	ATOM	28263	C5' GUA	423	162.610	105.954	39.339	1.00	64.68	Al
ATOM	28211	C8 GUA	420	175.739	112.433	40.507	1.00	81.46	Al6S	ATOM	28264	C4' GUA	423	162.916	106.861	40.494	1.00	64.68	Al
ATOM	28212	C2' GUA	420	173.402	113.024	38.039	1.00	79.47	Al6S	ATOM	28265	O4' GUA	423	163.534	106.083	41.535	1.00	64.68	Al
ATOM	28213	O2' GUA	420	173.049	113.330	36.707	1.00	79.47	Al6S	ATOM	28266	C1' GUA	423	164.489	106.873	42.202	1.00	64.68	Al
ATOM	28214	C3' GUA	420	172.863	114.044	39.025	1.00	79.47	Al6S	ATOM	28267	N9 GUA	423	165.633	106.041	42.557	1.00	73.39	Al

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ATOM	28268	C4' GUA	423	166.419	106.211	43.659	1.00	73.39	Al6S	ATOM	28321	O2' ADE	425	160.954	100.894	42.450	1.00	64.98	Al
ATOM	28269	N3' GUA	423	166.275	107.179	44.579	1.00	73.39	Al6S	ATOM	28322	C3' ADE	425	159.699	102.641	43.618	1.00	64.98	Al
ATOM	28270	C2' GUA	423	167.166	107.084	45.542	1.00	73.39	Al6S	ATOM	28323	O3' ADE	425	158.635	101.713	43.709	1.00	64.98	Al
ATOM	28271	N2' GUA	423	167.134	107.955	46.582	1.00	73.39	Al6S	ATOM	28324	P ADE	426	158.069	101.322	45.154	1.00	74.78	Al
ATOM	28272	N1' GUA	423	168.146	106.124	45.593	1.00	73.39	Al6S	ATOM	28325	O1P ADE	426	157.152	100.176	44.967	1.00	81.71	Al
ATOM	28273	C6' GUA	423	168.322	105.115	44.684	1.00	73.39	Al6S	ATOM	28326	O2P ADE	426	157.567	102.561	45.791	1.00	81.71	Al
ATOM	28274	C6' GUA	423	169.249	104.304	44.794	1.00	73.39	Al6S	ATOM	28327	O5' ADE	426	159.371	100.820	45.923	1.00	74.78	Al
ATOM	28275	C5' GUA	423	167.345	105.195	43.616	1.00	73.39	Al6S	ATOM	28328	C5' ADE	426	160.167	99.757	45.371	1.00	74.78	Al
ATOM	28276	N7' GUA	423	167.143	104.397	42.501	1.00	73.39	Al6S	ATOM	28329	C4' ADE	426	161.417	99.512	46.195	1.00	74.78	Al
ATOM	28277	C8' GUA	423	166.121	104.941	41.899	1.00	73.39	Al6S	ATOM	28330	O4' ADE	426	162.310	100.656	46.153	1.00	74.78	Al
ATOM	28278	C2' GUA	423	164.747	108.158	41.405	1.00	64.68	Al6S	ATOM	28331	C1' ADE	426	163.105	100.679	47.331	1.00	74.78	Al
ATOM	28279	O2' GUA	423	164.363	109.303	42.125	1.00	64.68	Al6S	ATOM	28332	N9 ADE	426	162.948	101.974	47.995	1.00	81.71	Al
ATOM	28280	C3' GUA	423	163.929	107.934	40.139	1.00	64.68	Al6S	ATOM	28333	C4 ADE	426	163.636	102.377	49.113	1.00	81.71	Al
ATOM	28281	O3' GUA	423	163.277	109.087	39.582	1.00	64.68	Al6S	ATOM	28334	N3 ADE	426	164.557	101.676	49.797	1.00	81.71	Al
ATOM	28282	P URI	424	162.196	109.948	40.443	1.00	70.58	Al6S	ATOM	28335	C2 ADE	426	165.008	102.382	50.826	1.00	81.71	Al
ATOM	28283	O1P URI	424	161.022	110.126	39.556	1.00	95.05	Al6S	ATOM	28336	N1 ADE	426	164.673	103.619	51.218	1.00	81.71	Al
ATOM	28284	O2P URI	424	162.859	111.146	41.025	1.00	95.05	Al6S	ATOM	28337	C6 ADE	426	163.743	104.295	50.505	1.00	81.71	Al
ATOM	28285	O5' URI	424	161.680	109.010	41.625	1.00	70.58	Al6S	ATOM	28338	N6 ADE	426	163.407	105.529	50.891	1.00	81.71	Al
ATOM	28286	C5' URI	424	160.501	109.385	42.365	1.00	70.58	Al6S	ATOM	28339	C5 ADE	426	163.183	103.654	49.394	1.00	81.71	Al
ATOM	28287	C4' URI	424	159.732	108.167	42.820	1.00	70.58	Al6S	ATOM	28340	N7 ADE	426	162.223	104.050	48.474	1.00	81.71	Al
ATOM	28288	O4' URI	424	160.341	107.621	44.023	1.00	70.58	Al6S	ATOM	28341	C8 ADE	426	162.118	103.022	47.667	1.00	81.71	Al
ATOM	28289	C1' URI	424	159.364	107.530	45.037	1.00	70.58	Al6S	ATOM	28342	C2' ADE	426	162.661	99.518	48.219	1.00	74.78	Al
ATOM	28290	N1' URI	424	160.002	107.645	46.355	1.00	95.05	Al6S	ATOM	28343	O2' ADE	426	163.567	98.451	48.044	1.00	74.78	Al
ATOM	28291	C6' URI	424	160.141	108.852	46.996	1.00	95.05	Al6S	ATOM	28344	C3' ADE	426	161.263	99.225	47.678	1.00	74.78	Al
ATOM	28292	C2' URI	424	160.453	106.475	46.939	1.00	95.05	Al6S	ATOM	28345	O3' ADE	426	160.870	97.883	47.922	1.00	74.78	Al
ATOM	28293	O2' URI	424	161.025	105.385	46.408	1.00	95.05	Al6S	ATOM	28346	P ADE	427	159.870	97.566	49.139	1.00	90.45	Al
ATOM	28294	N3' URI	424	161.025	106.625	48.172	1.00	95.05	Al6S	ATOM	28347	O1P ADE	427	159.661	96.096	49.138	1.00	83.29	Al
ATOM	28295	C4' URI	424	161.188	107.795	48.870	1.00	95.05	Al6S	ATOM	28348	O2P ADE	427	158.697	98.482	49.040	1.00	83.29	Al
ATOM	28296	O4' URI	424	161.775	107.772	49.953	1.00	95.05	Al6S	ATOM	28349	O5' ADE	427	160.716	97.962	50.431	1.00	90.45	Al
ATOM	28297	C5' URI	424	160.697	108.964	48.201	1.00	95.05	Al6S	ATOM	28350	C5' ADE	427	161.951	97.280	50.745	1.00	90.45	Al
ATOM	28298	O2' URI	424	158.327	108.592	44.702	1.00	70.58	Al6S	ATOM	28351	C4' ADE	427	162.625	97.930	51.931	1.00	90.45	Al
ATOM	28299	C2' URI	424	157.118	108.295	45.362	1.00	70.58	Al6S	ATOM	28352	O4' ADE	427	163.080	99.255	51.561	1.00	90.45	Al
ATOM	28300	C3' URI	424	158.276	108.470	43.183	1.00	70.58	Al6S	ATOM	28353	C1' ADE	427	162.923	100.138	52.659	1.00	90.45	Al
ATOM	28301	O3' URI	424	157.423	107.357	42.875	1.00	70.58	Al6S	ATOM	28354	N9 ADE	427	161.985	101.190	52.271	1.00	83.29	Al
ATOM	28302	P ADE	425	157.441	106.686	41.409	1.00	64.98	Al6S	ATOM	28355	C4 ADE	427	161.943	102.467	52.773	1.00	83.29	Al
ATOM	28303	O1P ADE	425	157.943	107.678	40.407	1.00	76.97	Al6S	ATOM	28356	N3 ADE	427	162.768	103.012	53.684	1.00	83.29	Al
ATOM	28304	O2P ADE	425	156.130	106.018	41.192	1.00	76.97	Al6S	ATOM	28357	C2 ADE	427	162.419	104.274	53.935	1.00	83.29	Al
ATOM	28305	O5' ADE	425	158.563	105.571	41.542	1.00	64.98	Al6S	ATOM	28358	N1 ADE	427	161.410	104.993	53.426	1.00	83.29	Al
ATOM	28306	C5' ADE	425	158.638	104.751	42.707	1.00	64.98	Al6S	ATOM	28359	C6 ADE	427	160.595	104.411	52.521	1.00	83.29	Al
ATOM	28307	C4' ADE	425	159.529	103.575	42.441	1.00	64.98	Al6S	ATOM	28360	N6 ADE	427	159.576	105.120	52.034	1.00	83.29	Al
ATOM	28308	O4' ADE	425	160.870	104.045	42.159	1.00	64.98	Al6S	ATOM	28361	C5 ADE	427	160.869	103.082	52.155	1.00	83.29	Al
ATOM	28309	C1' ADE	425	161.819	103.139	42.698	1.00	64.98	Al6S	ATOM	28362	N7 ADE	427	160.258	102.216	51.260	1.00	83.29	Al
ATOM	28310	N9 ADE	425	162.631	103.847	43.686	1.00	76.97	Al6S	ATOM	28363	C8 ADE	427	160.958	101.112	51.363	1.00	83.29	Al
ATOM	28311	C4 ADE	425	163.749	103.347	44.307	1.00	76.97	Al6S	ATOM	28364	C2' ADE	427	162.397	99.326	53.845	1.00	90.45	Al
ATOM	28312	N3 ADE	425	164.320	102.147	44.112	1.00	76.97	Al6S	ATOM	28365	O2' ADE	427	163.475	98.945	54.672	1.00	90.45	Al
ATOM	28313	C2 ADE	425	165.373	101.994	44.912	1.00	76.97	Al6S	ATOM	28366	C3' ADE	427	161.734	98.147	53.145	1.00	90.45	Al
ATOM	28314	N1 ADE	425	165.880	102.838	45.816	1.00	76.97	Al6S	ATOM	28367	O3' ADE	427	161.673	96.987	53.967	1.00	90.45	Al
ATOM	28315	C6 ADE	425	165.280	104.034	45.988	1.00	76.97	Al6S	ATOM	28368	P CYT	428	160.247	96.467	54.508	1.00	89.31	Al
ATOM	28316	N6 ADE	425	165.777	104.873	46.897	1.00	76.97	Al6S	ATOM	28369	O1P CYT	428	160.565	95.369	55.456	1.00	91.07	Al
ATOM	28317	C5 ADE	425	164.155	104.322	45.196	1.00	76.97	Al6S	ATOM	28370	O2P CYT	428	159.307	96.214	53.386	1.00	91.07	Al
ATOM	28318	N7 ADE	425	163.322	105.431	45.123	1.00	76.97	Al6S	ATOM	28371	O5' CYT	428	159.669	97.711	55.316	1.00	89.31	Al
ATOM	28319	C8 ADE	425	162.442	105.103	44.210	1.00	76.97	Al6S	ATOM	28372	C5' CYT	428	160.312	98.171	56.512	1.00	89.31	Al
ATOM	28320	C2' ADE	425	161.044	101.987	43.341	1.00	64.98	Al6S	ATOM	28373	C4' CYT	428	159.729	99.491	56.938	1.00	89.31	Al

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ATOM	28374	O4' CYT	428	160.057	100.499	55.952	1.00	89.31	Al6S	ATOM	28427	O3' CYT	430	146.014	100.846	58.262	1.00	76.68	Al
ATOM	28375	C1' CYT	428	158.971	101.395	55.807	1.00	89.31	Al6S	ATOM	28428	P	431	145.121	99.577	57.829	1.00	89.13	Al
ATOM	28376	N1 CYT	428	158.499	101.324	54.411	1.00	91.07	Al6S	ATOM	28429	O1P CYT	431	143.929	99.505	58.719	1.00	73.75	Al
ATOM	28377	C6 CYT	428	158.628	100.169	53.687	1.00	91.07	Al6S	ATOM	28430	O2P CYT	431	146.022	98.393	57.704	1.00	73.75	Al
ATOM	28378	C2 CYT	428	157.903	102.456	53.833	1.00	91.07	Al6S	ATOM	28431	O5' CYT	431	144.587	99.956	56.375	1.00	89.13	Al
ATOM	28379	O2 CYT	428	157.804	103.496	54.502	1.00	91.07	Al6S	ATOM	28432	C5' CYT	431	143.688	101.064	56.182	1.00	89.13	Al
ATOM	28380	N3 CYT	428	157.452	102.385	52.562	1.00	91.07	Al6S	ATOM	28433	C4' CYT	431	143.342	101.221	54.713	1.00	89.13	Al
ATOM	28381	C4 CYT	428	157.580	101.251	51.869	1.00	91.07	Al6S	ATOM	28434	O4' CYT	431	144.519	101.604	53.951	1.00	89.13	Al
ATOM	28382	N4 CYT	428	157.125	101.230	50.617	1.00	91.07	Al6S	ATOM	28435	C1' CYT	431	144.440	101.053	52.643	1.00	89.13	Al
ATOM	28383	C5' CYT	428	158.185	100.089	52.428	1.00	91.07	Al6S	ATOM	28436	N1 CYT	431	145.598	100.158	52.429	1.00	73.75	Al
ATOM	28384	C2' CYT	428	157.892	100.990	56.815	1.00	89.31	Al6S	ATOM	28437	C6 CYT	431	146.470	99.876	53.446	1.00	73.75	Al
ATOM	28385	O2' CYT	428	158.014	101.773	57.988	1.00	89.31	Al6S	ATOM	28438	C2 CYT	431	145.788	99.581	51.156	1.00	73.75	Al
ATOM	28386	C3' CYT	428	158.216	99.520	57.041	1.00	89.31	Al6S	ATOM	28439	O2 CYT	431	145.004	99.880	50.225	1.00	73.75	Al
ATOM	28387	O3' CYT	428	157.782	99.050	58.307	1.00	89.31	Al6S	ATOM	28440	N3 CYT	431	146.822	98.719	50.974	1.00	73.75	Al
ATOM	28388	P	429	156.293	98.469	58.471	1.00	88.90	Al6S	ATOM	28441	C4 CYT	431	147.650	98.442	51.985	1.00	73.75	Al
ATOM	28389	O1P URI	429	156.174	98.007	59.878	1.00	95.15	Al6S	ATOM	28442	N4 CYT	431	148.640	97.574	51.763	1.00	73.75	Al
ATOM	28390	O2P URI	429	156.005	97.521	57.363	1.00	95.15	Al6S	ATOM	28443	C5 CYT	431	147.498	99.036	53.269	1.00	73.75	Al
ATOM	28391	O5' URI	429	155.368	99.752	58.288	1.00	88.90	Al6S	ATOM	28444	C2' CYT	431	143.111	100.302	52.537	1.00	89.13	Al
ATOM	28392	C5' URI	429	155.390	100.811	59.262	1.00	88.90	Al6S	ATOM	28445	O2' CYT	431	142.138	101.150	51.963	1.00	89.13	Al
ATOM	28393	C4' URI	429	154.339	101.843	58.940	1.00	88.90	Al6S	ATOM	28446	C3' CYT	431	142.815	99.990	53.996	1.00	89.13	Al
ATOM	28394	O4' URI	429	154.748	102.628	57.790	1.00	88.90	Al6S	ATOM	28447	O3' CYT	431	141.430	99.797	54.211	1.00	89.13	Al
ATOM	28395	N1' URI	429	153.604	102.972	57.020	1.00	88.90	Al6S	ATOM	28448	P	432	140.847	98.307	54.244	1.00	74.35	Al
ATOM	28396	C1' URI	429	153.772	102.433	55.660	1.00	95.15	Al6S	ATOM	28449	O1P URI	432	139.448	98.355	54.716	1.00	69.56	Al
ATOM	28397	C6 URI	429	154.519	101.296	55.429	1.00	95.15	Al6S	ATOM	28450	O2P URI	432	141.842	97.444	54.946	1.00	69.56	Al
ATOM	28398	C2 URI	429	153.145	103.093	54.615	1.00	95.15	Al6S	ATOM	28451	O5' URI	432	140.783	97.882	52.712	1.00	74.35	Al
ATOM	28399	O2 URI	429	152.490	104.113	54.764	1.00	95.15	Al6S	ATOM	28452	C5' URI	432	139.781	98.428	51.828	1.00	74.35	Al
ATOM	28400	N3 URI	429	153.315	102.513	53.384	1.00	95.15	Al6S	ATOM	28453	C4' URI	432	140.061	98.009	50.404	1.00	74.35	Al
ATOM	28401	C4 URI	429	154.037	101.375	53.093	1.00	95.15	Al6S	ATOM	28454	O4' URI	432	141.432	98.363	50.091	1.00	74.35	Al
ATOM	28402	O4 URI	429	154.071	100.962	51.935	1.00	95.15	Al6S	ATOM	28455	C1' URI	432	141.993	97.390	49.234	1.00	74.35	Al
ATOM	28403	C5 URI	429	154.667	100.762	54.215	1.00	95.15	Al6S	ATOM	28456	N1 URI	432	143.182	96.816	49.886	1.00	69.56	Al
ATOM	28404	C2 URI	429	152.368	102.405	57.730	1.00	88.90	Al6S	ATOM	28457	C6 URI	432	143.468	97.060	51.212	1.00	69.56	Al
ATOM	28405	O2' URI	429	151.728	103.403	58.502	1.00	88.90	Al6S	ATOM	28458	C2 URI	432	144.019	96.020	49.114	1.00	69.56	Al
ATOM	28406	C3' URI	429	152.975	101.287	58.571	1.00	88.90	Al6S	ATOM	28459	O2 URI	432	143.801	95.771	47.932	1.00	69.56	Al
ATOM	28407	O3' URI	429	152.193	100.977	59.716	1.00	88.90	Al6S	ATOM	28460	N3 URI	432	145.122	95.527	49.776	1.00	69.56	Al
ATOM	28408	P	430	151.126	99.778	59.646	1.00	76.68	Al6S	ATOM	28461	C4 URI	432	145.467	95.743	51.095	1.00	69.56	Al
ATOM	28409	O1P CYT	430	150.673	99.505	61.037	1.00	111.93	Al6S	ATOM	28462	O4 URI	432	146.518	95.272	51.530	1.00	69.56	Al
ATOM	28410	O2P CYT	430	151.726	98.677	58.845	1.00	111.93	Al6S	ATOM	28463	C5 URI	432	144.551	96.565	51.823	1.00	69.56	Al
ATOM	28411	O5' CYT	430	149.901	100.404	58.831	1.00	76.68	Al6S	ATOM	28464	C2' URI	432	140.905	96.369	48.905	1.00	74.35	Al
ATOM	28412	C5' CYT	430	149.034	101.390	59.434	1.00	76.68	Al6S	ATOM	28465	O2' URI	432	140.293	96.769	47.699	1.00	74.35	Al
ATOM	28413	C4' CYT	430	148.146	102.034	58.392	1.00	76.68	Al6S	ATOM	28466	C3' URI	432	139.962	96.519	50.092	1.00	74.35	Al
ATOM	28414	O4' CYT	430	148.977	102.688	57.399	1.00	76.68	Al6S	ATOM	28467	O3' URI	432	138.625	96.168	49.726	1.00	74.35	Al
ATOM	28415	C1' CYT	430	148.361	102.599	56.124	1.00	76.68	Al6S	ATOM	28468	P	433	138.119	94.645	49.872	1.00	83.54	Al
ATOM	28416	N1' CYT	430	149.255	101.863	55.206	1.00	111.93	Al6S	ATOM	28469	O1P GUA	433	136.862	94.499	49.092	1.00	81.61	Al
ATOM	28417	C6 CYT	430	150.274	101.085	55.682	1.00	111.93	Al6S	ATOM	28470	O2P GUA	433	138.129	94.291	51.312	1.00	81.61	Al
ATOM	28418	C2 CYT	430	149.034	101.964	53.828	1.00	111.93	Al6S	ATOM	28471	O5' GUA	433	139.259	93.775	49.179	1.00	83.54	Al
ATOM	28419	O2 CYT	430	148.110	102.682	53.419	1.00	111.93	Al6S	ATOM	28472	C5' GUA	433	139.272	93.525	47.758	1.00	83.54	Al
ATOM	28420	N3 CYT	430	149.829	101.274	52.978	1.00	111.93	Al6S	ATOM	28473	C4' GUA	433	140.361	92.532	47.433	1.00	83.54	Al
ATOM	28421	C4 CYT	430	150.811	100.509	53.457	1.00	111.93	Al6S	ATOM	28474	O4' GUA	433	141.576	93.041	48.025	1.00	83.54	Al
ATOM	28422	N4 CYT	430	151.559	99.833	52.584	1.00	111.93	Al6S	ATOM	28475	C1' GUA	433	142.351	91.968	48.506	1.00	83.54	Al
ATOM	28423	C5 CYT	430	151.068	100.399	54.851	1.00	111.93	Al6S	ATOM	28476	N9 GUA	433	142.841	92.289	49.841	1.00	81.61	Al
ATOM	28424	C2' CYT	430	147.017	101.894	56.304	1.00	76.68	Al6S	ATOM	28477	C4 GUA	433	144.050	91.901	50.369	1.00	81.61	Al
ATOM	28425	O2' CYT	430	145.999	102.865	56.406	1.00	76.68	Al6S	ATOM	28478	N3 GUA	433	144.971	91.128	49.757	1.00	81.61	Al
ATOM	28426	C3' CYT	430	147.242	101.108	57.591	1.00	76.68	Al6S	ATOM	28479	C2 GUA	433	146.040	90.945	50.509	1.00	81.61	Al

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ATOM	28480	N2	GUA	433	147.058	90.212	50.051	1.00	81.61	A16S	ATOM	28533	C3'	ADE	435	143.275	81.560	43.166	1.00	63.48	A16
ATOM	28481	N1	GUA	433	146.192	91.468	51.764	1.00	81.61	A16S	ATOM	28534	O3'	ADE	435	143.312	80.342	42.446	1.00	63.48	A16
ATOM	28482	C6	GUA	433	145.258	92.263	52.417	1.00	81.61	A16S	ATOM	28535	P	CYT	436	142.070	79.328	42.552	1.00	98.12	A16
ATOM	28483	O6	GUA	433	145.500	92.683	53.552	1.00	81.61	A16S	ATOM	28536	O1P	CYT	436	142.462	78.113	41.800	1.00	81.41	A16
ATOM	28484	C5	GUA	433	144.104	92.475	51.618	1.00	81.61	A16S	ATOM	28537	O2P	CYT	436	140.800	80.024	42.209	1.00	81.41	A16
ATOM	28485	N7	GUA	433	142.946	93.197	51.879	1.00	81.61	A16S	ATOM	28538	O5'	CYT	436	142.027	78.971	44.100	1.00	98.12	A16
ATOM	28486	C8	GUA	433	142.223	93.052	50.802	1.00	81.61	A16S	ATOM	28539	C5'	CYT	436	143.197	78.472	44.764	1.00	98.12	A16
ATOM	28487	C2'	GUA	433	141.569	90.667	48.339	1.00	83.54	A16S	ATOM	28540	C4'	CYT	436	143.072	78.660	46.251	1.00	98.12	A16
ATOM	28488	O2'	GUA	433	142.091	89.969	47.234	1.00	83.54	A16S	ATOM	28541	O4'	CYT	436	143.143	80.072	46.581	1.00	98.12	A16
ATOM	28489	C3'	GUA	433	140.151	91.159	48.067	1.00	83.54	A16S	ATOM	28542	C1'	CYT	436	142.302	80.345	47.692	1.00	98.12	A16
ATOM	28490	O3'	GUA	433	139.518	90.160	47.229	1.00	83.54	A16S	ATOM	28543	N1	CYT	436	141.261	81.310	47.281	1.00	81.41	A16
ATOM	28491	P	ADE	434	139.026	90.498	45.719	1.00	63.22	A16S	ATOM	28544	C6	CYT	436	140.759	81.306	46.007	1.00	81.41	A16
ATOM	28492	O1P	ADE	434	138.781	91.949	45.566	1.00	75.95	A16S	ATOM	28545	C2	CYT	436	140.767	82.218	48.230	1.00	81.41	A16
ATOM	28493	O2P	ADE	434	137.921	89.541	45.418	1.00	75.95	A16S	ATOM	28546	O2	CYT	436	141.264	82.234	49.369	1.00	81.41	A16
ATOM	28494	O5'	ADE	434	140.266	90.082	44.800	1.00	63.22	A16S	ATOM	28547	N3	CYT	436	139.763	83.054	47.880	1.00	81.41	A16
ATOM	28495	C5'	ADE	434	140.550	88.687	44.561	1.00	63.22	A16S	ATOM	28548	C4	CYT	436	139.262	83.018	46.643	1.00	81.41	A16
ATOM	28496	C4'	ADE	434	141.160	88.475	43.188	1.00	63.22	A16S	ATOM	28549	N4	CYT	436	138.251	83.840	46.352	1.00	81.41	A16
ATOM	28497	O1'	ADE	434	142.512	89.008	43.171	1.00	63.22	A16S	ATOM	28550	C5'	CYT	436	139.769	82.132	45.651	1.00	81.41	A16
ATOM	28498	C1'	ADE	434	143.372	88.129	42.457	1.00	63.22	A16S	ATOM	28551	C2'	CYT	436	141.681	79.018	48.137	1.00	98.12	A16
ATOM	28499	N9	ADE	434	144.375	87.618	43.392	1.00	75.95	A16S	ATOM	28552	O2'	CYT	436	142.440	78.456	49.188	1.00	98.12	A16
ATOM	28500	C4	ADE	434	145.531	86.953	43.071	1.00	75.95	A16S	ATOM	28553	O3'	CYT	436	141.758	78.201	46.855	1.00	98.12	A16
ATOM	28501	N3	ADE	434	145.980	86.650	41.845	1.00	75.95	A16S	ATOM	28554	O3'	CYT	436	141.723	76.805	47.084	1.00	98.12	A16
ATOM	28502	C2	ADE	434	147.142	86.008	41.924	1.00	75.95	A16S	ATOM	28555	P	CYT	437	140.305	76.052	47.112	1.00	88.16	A16
ATOM	28503	N1	ADE	434	147.850	85.663	43.007	1.00	75.95	A16S	ATOM	28556	O1P	CYT	437	140.590	74.596	47.189	1.00	101.96	A16
ATOM	28504	C6	ADE	434	147.365	85.984	44.224	1.00	75.95	A16S	ATOM	28557	O2P	CYT	437	139.458	76.571	46.010	1.00	101.96	A16
ATOM	28505	N6	ADE	434	148.064	85.643	45.305	1.00	75.95	A16S	ATOM	28558	O5'	CYT	437	139.669	76.527	48.493	1.00	88.16	A16
ATOM	28506	C5	ADE	434	146.147	86.662	44.277	1.00	75.95	A16S	ATOM	28559	C5'	CYT	437	140.309	76.203	49.742	1.00	88.16	A16
ATOM	28507	N7	ADE	434	145.396	87.135	45.341	1.00	75.95	A16S	ATOM	28560	C4'	CYT	437	139.496	76.713	50.907	1.00	88.16	A16
ATOM	28508	C8	ADE	434	144.358	87.690	44.767	1.00	75.95	A16S	ATOM	28561	O4'	CYT	437	139.574	78.160	50.982	1.00	88.16	A16
ATOM	28509	C2'	ADE	434	142.517	87.005	41.876	1.00	63.22	A16S	ATOM	28562	C1'	CYT	437	138.367	78.670	51.523	1.00	88.16	A16
ATOM	28510	O2'	ADE	434	142.173	87.286	40.537	1.00	63.22	A16S	ATOM	28563	N1	CYT	437	137.763	79.608	50.558	1.00	101.96	A16
ATOM	28511	C3'	ADE	434	141.326	87.004	42.824	1.00	63.22	A16S	ATOM	28564	C6	CYT	437	138.001	79.491	49.217	1.00	101.96	A16
ATOM	28512	O3'	ADE	434	140.148	86.461	42.227	1.00	63.22	A16S	ATOM	28565	C2	CYT	437	136.925	80.628	51.039	1.00	101.96	A16
ATOM	28513	P	ADE	435	139.817	84.893	42.397	1.00	63.48	A16S	ATOM	28566	O2	CYT	437	136.726	80.721	52.258	1.00	101.96	A16
ATOM	28514	O1P	ADE	435	138.613	84.590	41.575	1.00	92.04	A16S	ATOM	28567	N3	CYT	437	136.356	81.485	50.164	1.00	101.96	A16
ATOM	28515	O2P	ADE	435	139.815	84.565	43.845	1.00	92.04	A16S	ATOM	28568	C4	CYT	437	136.601	81.365	48.859	1.00	101.96	A16
ATOM	28516	O5'	ADE	435	141.071	84.178	41.724	1.00	63.48	A16S	ATOM	28569	N4	CYT	437	136.030	82.246	48.032	1.00	101.96	A16
ATOM	28517	C5'	ADE	435	141.421	82.843	42.085	1.00	63.48	A16S	ATOM	28570	C5	CYT	437	137.447	80.339	48.341	1.00	101.96	A16
ATOM	28518	C4'	ADE	435	142.914	82.711	42.248	1.00	63.48	A16S	ATOM	28571	C2'	CYT	437	137.451	77.482	51.825	1.00	88.16	A16
ATOM	28519	O4'	ADE	435	143.452	83.895	42.887	1.00	63.48	A16S	ATOM	28572	O2'	CYT	437	137.577	77.122	53.187	1.00	88.16	A16
ATOM	28520	C1'	ADE	435	144.368	83.521	43.904	1.00	63.48	A16S	ATOM	28573	C3'	CYT	437	138.006	76.416	50.891	1.00	88.16	A16
ATOM	28521	N9	ADE	435	143.775	83.903	45.189	1.00	92.04	A16S	ATOM	28574	O3'	CYT	437	137.701	75.112	51.355	1.00	88.16	A16
ATOM	28522	C4	ADE	435	144.337	83.759	46.435	1.00	92.04	A16S	ATOM	28575	P	CYT	438	136.262	74.476	51.032	1.00	83.72	A16
ATOM	28523	N3	ADE	435	145.542	83.241	46.733	1.00	92.04	A16S	ATOM	28576	O1P	CYT	438	136.248	73.124	51.636	1.00	95.59	A16
ATOM	28524	C2	ADE	435	145.744	83.257	48.047	1.00	92.04	A16S	ATOM	28577	O2P	CYT	438	135.978	74.630	49.587	1.00	95.59	A16
ATOM	28525	N1	ADE	435	144.942	83.704	49.021	1.00	92.04	A16S	ATOM	28578	O5'	CYT	438	135.238	75.401	51.834	1.00	83.72	A16
ATOM	28526	C6	ADE	435	143.742	84.221	48.684	1.00	92.04	A16S	ATOM	28579	C5'	CYT	438	135.086	75.277	53.266	1.00	83.72	A16
ATOM	28527	N6	ADE	435	142.950	84.680	49.649	1.00	92.04	A16S	ATOM	28580	C4'	CYT	438	133.923	76.116	53.752	1.00	83.72	A16
ATOM	28528	C5	ADE	435	143.404	84.251	47.327	1.00	92.04	A16S	ATOM	28581	O4'	CYT	438	134.230	77.521	53.560	1.00	83.72	A16
ATOM	28529	N7	ADE	435	142.272	84.693	46.661	1.00	92.04	A16S	ATOM	28582	C1'	CYT	438	133.053	78.223	53.185	1.00	83.72	A16
ATOM	28530	C8	ADE	435	142.541	84.470	45.402	1.00	92.04	A16S	ATOM	28583	N1	CYT	438	133.236	78.756	51.817	1.00	95.59	A16
ATOM	28531	C2'	ADE	435	144.589	82.010	43.795	1.00	63.48	A16S	ATOM	28584	C6	CYT	438	134.299	78.372	51.045	1.00	95.59	A16
ATOM	28532	O2'	ADE	435	145.745	81.760	43.025	1.00	63.48	A16S	ATOM	28585	C2	CYT	438	132.283	79.653	51.306	1.00	95.59	A16

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ATOM	28586	O2' GUA	438	131.341	80.016	52.034	1.00	95.59	A16S	ATOM	28639	C3' GUA	440	122.313	76.997	48.475	1.00	80.28	A16
ATOM	28587	N3' GUA	438	132.412	80.100	50.038	1.00	95.59	A16S	ATOM	28640	O3' GUA	440	120.983	76.516	48.434	1.00	80.28	A16
ATOM	28588	C4' GUA	438	133.440	79.700	49.293	1.00	95.59	A16S	ATOM	28641	P GUA	441	120.575	75.443	47.317	1.00	87.40	A16
ATOM	28589	N4' GUA	438	133.511	80.151	48.045	1.00	95.59	A16S	ATOM	28642	O1P GUA	441	119.091	75.424	47.177	1.00	93.41	A16
ATOM	28590	C5' GUA	438	134.437	78.816	49.792	1.00	95.59	A16S	ATOM	28643	O2P GUA	441	121.313	74.184	47.601	1.00	93.41	A16
ATOM	28591	O2' GUA	438	131.885	77.235	53.237	1.00	83.72	A16S	ATOM	28644	O5' GUA	441	121.169	76.066	45.983	1.00	87.40	A16
ATOM	28592	C2' GUA	438	131.215	77.323	54.478	1.00	83.72	A16S	ATOM	28645	C5' GUA	441	120.542	77.196	45.352	1.00	87.40	A16
ATOM	28593	C3' GUA	438	132.602	75.910	53.021	1.00	83.72	A16S	ATOM	28646	C4' GUA	441	121.132	77.407	43.982	1.00	87.40	A16
ATOM	28594	O3' GUA	438	131.852	74.804	53.499	1.00	83.72	A16S	ATOM	28647	O4' GUA	441	122.501	77.871	44.108	1.00	87.40	A16
ATOM	28595	P GUA	439	130.834	74.053	52.505	1.00	91.22	A16S	ATOM	28648	C1' GUA	441	123.296	77.284	43.100	1.00	87.40	A16
ATOM	28596	O1P GUA	439	130.375	72.824	53.206	1.00	86.25	A16S	ATOM	28649	N9' GUA	441	124.306	76.457	43.753	1.00	93.41	A16
ATOM	28597	O2P GUA	439	131.467	73.937	51.165	1.00	86.25	A16S	ATOM	28650	C4' GUA	441	125.589	76.233	43.316	1.00	93.41	A16
ATOM	28598	O5' GUA	439	129.609	75.064	52.376	1.00	91.22	A16S	ATOM	28651	N3' GUA	441	126.148	76.750	42.202	1.00	93.41	A16
ATOM	28599	C5' GUA	439	128.759	75.324	53.504	1.00	91.22	A16S	ATOM	28652	C2' GUA	441	127.402	76.362	42.054	1.00	93.41	A16
ATOM	28600	C4' GUA	439	127.720	76.362	53.161	1.00	91.22	A16S	ATOM	28653	N2' GUA	441	128.111	76.792	41.002	1.00	93.41	A16
ATOM	28601	O4' GUA	439	128.366	77.630	52.877	1.00	91.22	A16S	ATOM	28654	N1' GUA	441	128.053	75.525	42.927	1.00	93.41	A16
ATOM	28602	C1' GUA	439	127.589	78.355	51.934	1.00	91.22	A16S	ATOM	28655	C6' GUA	441	127.497	74.974	44.076	1.00	93.41	A16
ATOM	28603	N9' GUA	439	128.394	78.626	50.745	1.00	86.25	A16S	ATOM	28656	O6' GUA	441	128.173	74.224	44.790	1.00	93.41	A16
ATOM	28604	C4' GUA	439	128.064	79.498	49.734	1.00	86.25	A16S	ATOM	28657	C5' GUA	441	126.153	75.391	44.252	1.00	93.41	A16
ATOM	28605	N3' GUA	439	126.961	80.280	49.688	1.00	86.25	A16S	ATOM	28658	N7' GUA	441	125.245	75.094	45.258	1.00	93.41	A16
ATOM	28606	C2' GUA	439	126.908	81.001	48.582	1.00	86.25	A16S	ATOM	28659	C8' GUA	441	124.166	75.746	44.921	1.00	93.41	A16
ATOM	28607	N2' GUA	439	125.883	81.840	48.381	1.00	86.25	A16S	ATOM	28660	C2' GUA	441	122.373	76.474	42.188	1.00	87.40	A16
ATOM	28608	N1' GUA	439	127.856	80.952	47.594	1.00	86.25	A16S	ATOM	28661	O2' GUA	441	122.001	77.289	41.098	1.00	87.40	A16
ATOM	28609	C6' GUA	439	128.996	80.153	47.616	1.00	86.25	A16S	ATOM	28662	C3' GUA	441	121.220	76.148	43.133	1.00	87.40	A16
ATOM	28610	O6' GUA	439	129.784	80.180	46.666	1.00	86.25	A16S	ATOM	28663	O3' GUA	441	119.952	75.860	42.535	1.00	87.40	A16
ATOM	28611	C5' GUA	439	129.073	79.382	48.806	1.00	86.25	A16S	ATOM	28664	P ADE	442	119.839	74.803	41.325	1.00	80.38	A16
ATOM	28612	N7' GUA	439	130.033	78.473	49.233	1.00	86.25	A16S	ATOM	28665	O1P ADE	442	118.450	74.263	41.311	1.00	65.31	A16
ATOM	28613	C8' GUA	439	129.592	78.054	50.387	1.00	86.25	A16S	ATOM	28666	O2P ADE	442	120.980	73.877	41.389	1.00	65.31	A16
ATOM	28614	C2' GUA	439	126.373	77.500	51.574	1.00	91.22	A16S	ATOM	28667	O5' ADE	442	119.954	75.764	40.068	1.00	80.38	A16
ATOM	28615	O2' GUA	439	125.248	77.910	52.323	1.00	91.22	A16S	ATOM	28668	C5' ADE	442	119.292	77.037	40.148	1.00	80.38	A16
ATOM	28616	C3' GUA	439	126.858	76.101	51.935	1.00	91.22	A16S	ATOM	28669	C4' ADE	442	119.445	77.829	38.887	1.00	80.38	A16
ATOM	28617	O3' GUA	439	125.770	75.221	52.183	1.00	91.22	A16S	ATOM	28670	O4' ADE	442	120.787	78.339	38.730	1.00	80.38	A16
ATOM	28618	P GUA	440	125.089	74.432	50.952	1.00	80.28	A16S	ATOM	28671	C1' ADE	442	120.964	78.688	37.378	1.00	80.38	A16
ATOM	28619	O1P GUA	440	124.078	73.499	51.524	1.00	95.19	A16S	ATOM	28672	N9' ADE	442	122.283	78.267	36.919	1.00	65.31	A16
ATOM	28620	O2P GUA	440	126.172	73.897	50.077	1.00	95.19	A16S	ATOM	28673	C4' ADE	442	122.920	78.824	35.840	1.00	65.31	A16
ATOM	28621	O5' GUA	440	124.295	75.556	50.148	1.00	80.28	A16S	ATOM	28674	N3' ADE	442	122.462	79.808	35.046	1.00	65.31	A16
ATOM	28622	C5' GUA	440	123.218	76.271	50.768	1.00	80.28	A16S	ATOM	28675	C2' ADE	442	123.349	80.104	34.107	1.00	65.31	A16
ATOM	28623	C4' GUA	440	122.739	77.391	49.876	1.00	80.28	A16S	ATOM	28676	N1' ADE	442	124.552	79.572	33.886	1.00	65.31	A16
ATOM	28624	O1' GUA	440	123.806	78.353	49.670	1.00	80.28	A16S	ATOM	28677	C6' ADE	442	124.984	78.589	34.704	1.00	65.31	A16
ATOM	28625	C1' GUA	440	123.703	78.908	48.369	1.00	80.28	A16S	ATOM	28678	N6' ADE	442	126.192	78.069	34.491	1.00	65.31	A16
ATOM	28626	N9' GUA	440	124.919	78.583	47.628	1.00	95.19	A16S	ATOM	28679	C5' ADE	442	124.131	78.176	35.740	1.00	65.31	A16
ATOM	28627	C4' GUA	440	125.293	79.110	46.418	1.00	95.19	A16S	ATOM	28680	N7' ADE	442	124.255	77.213	36.734	1.00	65.31	A16
ATOM	28628	N3' GUA	440	124.607	80.032	45.710	1.00	95.19	A16S	ATOM	28681	C8' ADE	442	123.133	77.307	37.405	1.00	65.31	A16
ATOM	28629	C2' GUA	440	125.220	80.345	44.584	1.00	95.19	A16S	ATOM	28682	C2' ADE	442	119.799	78.098	36.579	1.00	80.38	A16
ATOM	28630	N2' GUA	440	124.675	81.256	43.761	1.00	95.19	A16S	ATOM	28683	O2' ADE	442	118.949	79.180	36.279	1.00	80.38	A16
ATOM	28631	N1' GUA	440	126.414	79.791	44.184	1.00	95.19	A16S	ATOM	28684	C3' ADE	442	119.173	77.128	37.580	1.00	80.38	A16
ATOM	28632	C6' GUA	440	127.136	78.838	44.900	1.00	95.19	A16S	ATOM	28685	O3' ADE	442	117.775	77.001	37.398	1.00	80.38	A16
ATOM	28633	O6' GUA	440	128.202	78.401	44.451	1.00	95.19	A16S	ATOM	28686	P CYT	443	117.208	76.101	36.199	1.00	59.08	A16
ATOM	28634	C5' GUA	440	126.489	78.498	46.108	1.00	95.19	A16S	ATOM	28687	O1P CYT	443	115.794	75.764	36.516	1.00	75.46	A16
ATOM	28635	N7' GUA	440	126.861	77.609	47.103	1.00	95.19	A16S	ATOM	28688	O2P CYT	443	118.183	75.007	35.924	1.00	75.46	A16
ATOM	28636	C8' GUA	440	125.903	77.692	47.984	1.00	95.19	A16S	ATOM	28689	O5' CYT	443	117.209	77.095	34.953	1.00	59.08	A16
ATOM	28637	C2' GUA	440	122.469	78.302	47.703	1.00	80.28	A16S	ATOM	28690	C5' CYT	443	116.567	78.371	35.044	1.00	59.08	A16
ATOM	28638	O2' GUA	440	121.367	79.172	47.865	1.00	80.28	A16S	ATOM	28691	C4' CYT	443	117.019	79.279	33.928	1.00	59.08	A16

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ATOM	28692	04' CYT	443	118.427	79.604	34.053	1.00	59.08	Al6S	ATOM	28745	N7 ADE	445	115.484	70.134	28.952	1.00	73.22	Al'
ATOM	28693	04' CYT	443	118.960	79.884	32.773	1.00	59.08	Al6S	ATOM	28746	C8 ADE	445	114.676	71.077	28.551	1.00	73.22	Al'
ATOM	28694	N1 CYT	443	120.189	79.088	32.567	1.00	75.46	Al6S	ATOM	28747	C2' ADE	445	113.362	73.993	29.742	1.00	64.33	Al'
ATOM	28695	C6 CYT	443	120.498	78.036	33.393	1.00	75.46	Al6S	ATOM	28748	O2' ADE	445	113.158	74.285	31.107	1.00	64.33	Al'
ATOM	28696	C2 CYT	443	121.052	79.440	31.516	1.00	75.46	Al6S	ATOM	28749	C3' ADE	445	112.545	74.885	28.808	1.00	64.33	Al'
ATOM	28697	N2 CYT	443	120.746	80.387	30.772	1.00	75.46	Al6S	ATOM	28750	O3' ADE	445	111.263	75.178	29.365	1.00	64.33	Al'
ATOM	28698	O3 CYT	443	122.194	78.741	31.336	1.00	75.46	Al6S	ATOM	28751	P ADE	446	110.780	76.701	29.508	1.00	78.86	Al'
ATOM	28699	C4 CYT	443	122.491	77.727	32.149	1.00	75.46	Al6S	ATOM	28752	O1P ADE	446	111.668	77.549	28.678	1.00	70.63	Al'
ATOM	28700	N4 CYT	443	123.638	77.083	31.943	1.00	75.46	Al6S	ATOM	28753	O2P ADE	446	110.647	76.989	30.958	1.00	70.63	Al'
ATOM	28701	C5 CYT	443	121.628	77.336	33.212	1.00	75.46	Al6S	ATOM	28754	O5' ADE	446	109.345	76.712	28.810	1.00	78.86	Al'
ATOM	28702	C2' CYT	443	117.853	79.653	31.743	1.00	59.08	Al6S	ATOM	28755	C5' ADE	446	108.308	75.771	29.178	1.00	78.86	Al'
ATOM	28703	O2' CYT	443	117.278	80.905	31.420	1.00	59.08	Al6S	ATOM	28756	C4' ADE	446	108.028	74.841	28.022	1.00	78.86	Al'
ATOM	28704	C3' CYT	443	116.888	78.755	32.513	1.00	59.08	Al6S	ATOM	28757	O4' ADE	446	109.193	74.015	27.840	1.00	78.86	Al'
ATOM	28705	O3' CYT	443	115.546	78.859	32.054	1.00	66.97	Al6S	ATOM	28758	C1' ADE	446	108.816	72.873	27.111	1.00	78.86	Al'
ATOM	28706	P GUA	444	114.751	77.522	31.648	1.00	66.97	Al6S	ATOM	28759	N9 ADE	446	109.625	71.731	27.510	1.00	70.63	Al'
ATOM	28707	O1P GUA	444	113.343	77.901	31.326	1.00	69.20	Al6S	ATOM	28760	C4 ADE	446	110.339	70.993	26.605	1.00	70.63	Al'
ATOM	28708	O2P GUA	444	115.017	76.502	32.699	1.00	69.20	Al6S	ATOM	28761	N3 ADE	446	110.349	71.144	25.266	1.00	70.63	Al'
ATOM	28709	O5' GUA	444	115.485	77.040	30.316	1.00	66.97	Al6S	ATOM	28762	C1 ADE	446	111.194	70.285	24.710	1.00	70.63	Al'
ATOM	28710	C5' GUA	444	115.560	77.903	29.160	1.00	66.97	Al6S	ATOM	28763	N2 ADE	446	111.981	69.373	25.298	1.00	70.63	Al'
ATOM	28711	C4' GUA	444	116.790	77.594	28.333	1.00	66.97	Al6S	ATOM	28764	C6 ADE	446	111.956	69.265	26.643	1.00	70.63	Al'
ATOM	28712	O4' GUA	444	117.990	77.838	29.116	1.00	66.97	Al6S	ATOM	28765	N6 ADE	446	112.776	68.397	27.224	1.00	70.63	Al'
ATOM	28713	C1' GUA	444	119.014	76.944	28.714	1.00	66.97	Al6S	ATOM	28766	C5 ADE	446	111.077	70.095	27.349	1.00	70.63	Al'
ATOM	28714	N9 GUA	444	119.362	76.101	29.853	1.00	69.20	Al6S	ATOM	28767	N7 ADE	446	110.787	70.225	28.701	1.00	70.63	Al'
ATOM	28715	C4 GUA	444	120.556	75.441	30.073	1.00	69.20	Al6S	ATOM	28768	C8 ADE	446	109.907	71.198	28.742	1.00	70.63	Al'
ATOM	28716	N3 GUA	444	121.660	75.505	29.298	1.00	69.20	Al6S	ATOM	28769	C2' ADE	446	107.299	72.737	27.133	1.00	78.86	Al'
ATOM	28717	C2 GUA	444	122.638	74.738	29.764	1.00	69.20	Al6S	ATOM	28770	O3' ADE	446	106.886	73.047	25.822	1.00	78.86	Al'
ATOM	28718	N2 GUA	444	123.820	74.694	29.132	1.00	69.20	Al6S	ATOM	28771	C3' ADE	446	106.882	73.827	28.121	1.00	78.86	Al'
ATOM	28719	N1 GUA	444	122.533	73.961	30.885	1.00	69.20	Al6S	ATOM	28772	O3' ADE	446	105.655	74.421	27.659	1.00	78.86	Al'
ATOM	28720	C6 GUA	444	121.410	73.877	31.697	1.00	69.20	Al6S	ATOM	28773	P ADE	447	104.331	73.514	27.433	1.00	59.68	Al'
ATOM	28721	O6 GUA	444	121.421	73.135	32.688	1.00	69.20	Al6S	ATOM	28774	O1P ADE	447	103.180	74.458	27.389	1.00	69.21	Al'
ATOM	28722	C5 GUA	444	120.359	74.709	31.223	1.00	69.20	Al6S	ATOM	28775	O2P ADE	447	104.341	72.389	28.420	1.00	59.68	Al'
ATOM	28723	N7 GUA	444	119.089	74.933	31.739	1.00	69.20	Al6S	ATOM	28776	O5' ADE	447	104.458	72.918	25.958	1.00	59.68	Al'
ATOM	28724	C8 GUA	444	118.539	75.766	30.901	1.00	69.20	Al6S	ATOM	28777	C5' ADE	447	103.953	71.599	25.624	1.00	59.68	Al'
ATOM	28725	C2' GUA	444	118.452	76.095	27.570	1.00	66.97	Al6S	ATOM	28778	C4' ADE	447	104.774	71.002	24.499	1.00	59.68	Al'
ATOM	28726	O2' GUA	444	118.779	76.665	26.317	1.00	66.97	Al6S	ATOM	28779	O4' ADE	447	106.166	70.996	24.882	1.00	59.68	Al'
ATOM	28727	C3' GUA	444	116.957	76.169	27.830	1.00	66.97	Al6S	ATOM	28780	C1' ADE	447	106.816	69.883	24.323	1.00	59.68	Al'
ATOM	28728	O3' GUA	444	116.245	75.917	26.631	1.00	66.97	Al6S	ATOM	28781	N9 ADE	447	107.445	69.149	25.414	1.00	69.21	Al'
ATOM	28729	P ADE	445	115.983	74.404	26.172	1.00	64.33	Al6S	ATOM	28782	C4 ADE	447	108.408	68.184	25.283	1.00	69.21	Al'
ATOM	28730	O1P ADE	445	117.106	73.573	26.870	1.00	73.22	Al6S	ATOM	28783	N3 ADE	447	108.944	67.722	24.143	1.00	69.21	Al'
ATOM	28731	O2P ADE	445	115.645	74.402	24.729	1.00	73.22	Al6S	ATOM	28784	C2 ADE	447	109.864	66.794	24.401	1.00	69.21	Al'
ATOM	28732	O5' ADE	445	114.686	73.966	26.976	1.00	64.33	Al6S	ATOM	28785	N1 ADE	447	110.270	66.303	25.581	1.00	69.21	Al'
ATOM	28733	C5' ADE	445	113.365	74.231	26.472	1.00	64.33	Al6S	ATOM	28786	C6 ADE	447	109.700	66.780	26.707	1.00	69.21	Al'
ATOM	28734	O4' ADE	445	112.352	74.011	27.574	1.00	64.33	Al6S	ATOM	28787	N6 ADE	447	110.083	66.268	27.877	1.00	69.21	Al'
ATOM	28735	C4' ADE	445	112.470	72.639	28.029	1.00	64.33	Al6S	ATOM	28788	C5 ADE	447	108.720	67.786	26.570	1.00	69.21	Al'
ATOM	28736	O1' ADE	445	112.841	72.601	29.389	1.00	64.33	Al6S	ATOM	28789	N7 ADE	447	107.964	68.491	27.498	1.00	69.21	Al'
ATOM	28737	N9 ADE	445	113.847	71.552	29.532	1.00	73.22	Al6S	ATOM	28790	C8 ADE	447	107.224	69.280	26.764	1.00	69.21	Al'
ATOM	28738	C4 ADE	445	114.158	70.838	30.661	1.00	73.22	Al6S	ATOM	28791	O2' ADE	447	105.799	69.104	23.491	1.00	59.68	Al'
ATOM	28739	N3 ADE	445	113.600	70.947	31.877	1.00	73.22	Al6S	ATOM	28792	C2' ADE	447	105.956	69.509	22.147	1.00	59.68	Al'
ATOM	28740	C2 ADE	445	114.159	70.093	32.727	1.00	73.22	Al6S	ATOM	28793	C3' ADE	447	104.471	69.570	24.089	1.00	59.68	Al'
ATOM	28741	N1 ADE	445	115.143	69.210	32.517	1.00	73.22	Al6S	ATOM	28794	O3' ADE	447	103.435	69.570	23.106	1.00	59.68	Al'
ATOM	28742	C6 ADE	445	115.682	69.125	31.282	1.00	73.22	Al6S	ATOM	28795	P CYT	448	102.244	68.496	23.195	1.00	66.70	Al'
ATOM	28743	N6 ADE	445	116.670	68.245	31.069	1.00	73.22	Al6S	ATOM	28796	O1P CYT	448	101.308	68.767	22.070	1.00	59.41	Al'
ATOM	28744	C5 ADE	445	115.170	69.975	30.291	1.00	73.22	Al6S	ATOM	28797	O2P CYT	448	101.730	68.499	24.594	1.00	59.41	Al'

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ATOM	28904	C4' GUA	453	89.356	67.700	24.824	1.00101.71	A16S	28957	O2' CYT	455	93.601	63.876	17.546	1.00105.92	A16
ATOM	28905	N3' GUA	453	89.455	68.538	23.771	1.00101.71	A16S	28958	C3' CYT	455	92.493	64.941	19.456	1.00105.92	A16
ATOM	28906	C2' GUA	453	90.416	68.180	22.943	1.00101.71	A16S	28959	O3' CYT	455	93.825	65.297	19.788	1.00105.92	A16
ATOM	28907	N2' GUA	453	90.656	68.905	21.849	1.00101.71	A16S	28960	P GUA	456	94.206	66.841	19.994	1.00 80.44	A16
ATOM	28908	N1' GUA	453	91.215	67.085	23.127	1.00101.71	A16S	28961	O1P GUA	456	95.638	66.980	19.623	1.00 83.41	A16
ATOM	28909	C6' GUA	453	91.131	66.205	24.199	1.00101.71	A16S	28962	O2P GUA	456	93.766	67.236	21.360	1.00 83.41	A16
ATOM	28910	O6' GUA	453	91.906	65.245	24.269	1.00101.71	A16S	28963	O5' GUA	456	93.309	67.611	18.916	1.00 80.44	A16
ATOM	28911	C5' GUA	453	90.104	66.578	25.099	1.00101.71	A16S	28964	C5' GUA	456	93.703	67.674	17.528	1.00 80.44	A16
ATOM	28912	N7' GUA	453	89.685	65.984	26.282	1.00101.71	A16S	28965	C4' GUA	456	93.046	68.851	16.826	1.00 80.44	A16
ATOM	28913	O8' GUA	453	88.712	66.745	26.701	1.00101.71	A16S	28966	O4' GUA	456	91.619	68.621	16.721	1.00 80.44	A16
ATOM	28914	C2' GUA	453	86.370	68.766	24.951	1.00 77.79	A16S	28967	C1' GUA	456	90.925	69.861	16.804	1.00 80.44	A16
ATOM	28915	O2' GUA	453	85.944	70.059	24.560	1.00 77.79	A16S	28968	N9' GUA	456	90.025	69.809	17.961	1.00 83.41	A16
ATOM	28916	C3' GUA	453	85.283	67.962	25.649	1.00 77.79	A16S	28969	C4' GUA	456	89.269	70.844	18.478	1.00 83.41	A16
ATOM	28917	O3' GUA	453	84.010	68.216	25.087	1.00 77.79	A16S	28970	N3' GUA	456	89.200	72.103	17.992	1.00 83.41	A16
ATOM	28918	P ADE	454	83.252	67.046	24.304	1.00103.68	A16S	28971	C2' GUA	456	88.395	72.868	18.712	1.00 83.41	A16
ATOM	28919	O1P ADE	454	81.929	67.564	23.884	1.00 91.41	A16S	28972	N2' GUA	456	88.210	74.150	18.374	1.00 83.41	A16
ATOM	28920	O2P ADE	454	83.339	65.829	25.162	1.00 91.41	A16S	28973	N1' GUA	456	87.713	72.434	19.819	1.00 83.41	A16
ATOM	28921	O5' ADE	454	84.083	66.850	22.961	1.00103.68	A16S	28974	C6' GUA	456	87.766	71.144	20.336	1.00 83.41	A16
ATOM	28922	C5' ADE	454	85.237	65.988	22.887	1.00103.68	A16S	28975	O6' GUA	456	87.105	70.854	21.342	1.00 83.41	A16
ATOM	28923	C4' ADE	454	85.353	65.427	21.491	1.00103.68	A16S	28976	C5' GUA	456	88.625	70.312	19.575	1.00 83.41	A16
ATOM	28924	O4' ADE	454	84.800	66.396	20.579	1.00103.68	A16S	28977	N7' GUA	456	88.948	68.973	19.735	1.00 83.41	A16
ATOM	28925	C1' ADE	454	85.517	66.372	19.369	1.00103.68	A16S	28978	C8' GUA	456	89.774	68.718	18.759	1.00 83.41	A16
ATOM	28926	N9' ADE	454	85.739	67.758	18.923	1.00 91.41	A16S	28979	C2' GUA	456	91.974	70.977	16.896	1.00 80.44	A16
ATOM	28927	C4' ADE	454	86.347	68.200	17.765	1.00 91.41	A16S	28980	O2' GUA	456	92.221	71.522	15.611	1.00 80.44	A16
ATOM	28928	N3' ADE	454	86.945	67.459	16.815	1.00 91.41	A16S	28981	C3' GUA	456	93.178	70.232	17.467	1.00 80.44	A16
ATOM	28929	C2' ADE	454	87.394	68.232	15.823	1.00 91.41	A16S	28982	O3' GUA	456	94.398	70.894	17.131	1.00 80.44	A16
ATOM	28930	N1' ADE	454	87.321	69.558	15.681	1.00 91.41	A16S	28983	P ADE	457	95.071	71.913	18.180	1.00 64.30	A16
ATOM	28931	C6' ADE	454	86.718	70.278	16.649	1.00 91.41	A16S	28984	O1P ADE	457	96.213	72.548	17.491	1.00 84.19	A16
ATOM	28932	N6' ADE	454	86.648	71.604	16.502	1.00 91.41	A16S	28985	O2P ADE	457	95.290	71.218	19.477	1.00 84.19	A16
ATOM	28933	C5' ADE	454	86.197	69.577	17.761	1.00 91.41	A16S	28986	O5' ADE	457	93.962	73.036	18.398	1.00 64.30	A16
ATOM	28934	N7' ADE	454	85.540	70.002	18.908	1.00 91.41	A16S	28987	C5' ADE	457	93.860	74.180	17.518	1.00 64.30	A16
ATOM	28935	C8' ADE	454	85.305	68.896	19.567	1.00 91.41	A16S	28988	C4' ADE	457	92.963	75.239	18.132	1.00 64.30	A16
ATOM	28936	C2' ADE	454	86.665	65.354	19.488	1.00103.68	A16S	28989	O4' ADE	457	91.618	74.709	18.270	1.00 64.30	A16
ATOM	28937	O2' ADE	454	86.282	64.180	18.794	1.00103.68	A16S	28990	C1' ADE	457	91.016	75.226	19.447	1.00 64.30	A16
ATOM	28938	C3' ADE	454	86.761	65.112	21.002	1.00103.68	A16S	28991	N9' ADE	457	90.687	74.124	20.349	1.00 84.19	A16
ATOM	28939	O3' ADE	454	87.011	63.718	21.254	1.00103.68	A16S	28992	C4' ADE	457	89.812	74.215	21.402	1.00 84.19	A16
ATOM	28940	P CYT	455	88.422	63.223	21.857	1.00105.92	A16S	28993	N3' ADE	457	89.096	75.290	21.770	1.00 84.19	A16
ATOM	28941	O1P CYT	455	88.347	61.749	21.924	1.00103.22	A16S	28994	C2' ADE	457	88.356	75.012	22.839	1.00 84.19	A16
ATOM	28942	O2P CYT	455	88.744	63.989	23.087	1.00103.22	A16S	28995	N1' ADE	457	88.259	73.868	23.530	1.00 84.19	A16
ATOM	28943	O5' CYT	455	89.494	63.567	20.732	1.00105.92	A16S	28996	C6' ADE	457	88.997	72.808	23.132	1.00 84.19	A16
ATOM	28944	C5' CYT	455	90.353	64.717	20.854	1.00105.92	A16S	28997	N6' ADE	457	88.906	71.670	23.823	1.00 84.19	A16
ATOM	28945	C4' CYT	455	91.805	64.326	20.670	1.00105.92	A16S	28998	C5' ADE	457	89.821	72.973	22.009	1.00 84.19	A16
ATOM	28946	O4' CYT	455	91.943	62.884	20.543	1.00105.92	A16S	28999	N7' ADE	457	90.680	72.109	21.345	1.00 84.19	A16
ATOM	28947	C1' CYT	455	92.674	62.583	19.373	1.00105.92	A16S	29000	C8' ADE	457	91.165	72.836	20.370	1.00 84.19	A16
ATOM	28948	N1' CYT	455	92.163	61.323	18.800	1.00103.22	A16S	29001	C2' ADE	457	92.012	76.165	20.118	1.00 64.30	A16
ATOM	28949	C6' CYT	455	90.937	61.272	18.189	1.00103.22	A16S	29002	O2' ADE	457	91.678	77.502	19.823	1.00 64.30	A16
ATOM	28950	C2' CYT	455	92.964	60.168	18.875	1.00103.22	A16S	29003	C3' ADE	457	93.336	75.682	19.538	1.00 64.30	A16
ATOM	28951	O2' CYT	455	94.062	60.224	19.455	1.00103.22	A16S	29004	O3' ADE	457	94.314	76.698	19.562	1.00 64.30	A16
ATOM	28952	N3' CYT	455	92.516	59.020	18.315	1.00103.22	A16S	29005	P GUA	458	95.358	76.749	20.779	1.00 71.35	A16
ATOM	28953	C4' CYT	455	91.325	58.989	17.708	1.00103.22	A16S	29006	O1P GUA	458	96.157	77.994	20.640	1.00108.82	A16
ATOM	28954	N4' CYT	455	90.931	57.837	17.159	1.00103.22	A16S	29007	O2P GUA	458	96.048	75.436	20.823	1.00108.82	A16
ATOM	28955	C5' CYT	455	90.486	60.139	17.634	1.00103.22	A16S	29008	O5' GUA	458	94.453	76.861	22.087	1.00 71.35	A16
ATOM	28956	C2' CYT	455	92.522	63.794	18.454	1.00105.92	A16S	29009	C5' GUA	458	93.602	78.002	22.318	1.00 71.35	A16

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ATOM	29010	C4' GUA	458	92.741	77.768	23.534	1.00 71.35	Al6S	ATOM	29063	N2' GUA	460	96.989	66.993	32.848	1.00123.73	Al6	
ATOM	29011	O4' GUA	458	91.776	76.715	23.260	1.00 71.35	Al6S	ATOM	29064	N1' GUA	460	97.243	68.162	30.883	1.00123.73	Al6	
ATOM	29012	C1' GUA	458	91.562	75.944	24.441	1.00 71.35	Al6S	ATOM	29065	C6 GUA	460	97.171	69.262	30.033	1.00123.73	Al6	
ATOM	29013	N9 GUA	458	91.952	74.556	24.189	1.00108.82	Al6S	ATOM	29066	O6 GUA	460	97.562	69.164	28.865	1.00123.73	Al6	
ATOM	29014	C4 GUA	458	91.676	73.473	24.996	1.00108.82	Al6S	ATOM	29067	C5 GUA	460	96.623	70.392	30.688	1.00123.73	Al6	
ATOM	29015	N3 GUA	458	90.959	73.495	26.141	1.00108.82	Al6S	ATOM	29068	N7' GUA	460	96.375	71.674	30.217	1.00123.73	Al6	
ATOM	29016	C2 GUA	458	90.883	72.300	26.700	1.00108.82	Al6S	ATOM	29069	C8' GUA	460	95.869	72.302	31.242	1.00123.73	Al6	
ATOM	29017	N2 GUA	458	90.198	72.136	27.838	1.00108.82	Al6S	ATOM	29070	C2' GUA	460	96.362	71.874	34.744	1.00102.39	Al6	
ATOM	29018	N1 GUA	458	91.471	71.174	26.184	1.00108.82	Al6S	ATOM	29071	O2' GUA	460	95.841	71.353	35.951	1.00102.39	Al6	
ATOM	29019	C6 GUA	458	92.218	71.125	25.012	1.00108.82	Al6S	ATOM	29072	C3' GUA	460	96.733	73.351	34.822	1.00102.39	Al6	
ATOM	29020	O6 GUA	458	92.716	70.053	24.641	1.00108.82	Al6S	ATOM	29073	O3' GUA	460	97.272	73.706	36.087	1.00102.39	Al6	
ATOM	29021	C5 GUA	458	92.298	72.401	24.393	1.00108.82	Al6S	ATOM	29074	P	GUA	461	98.851	73.562	36.348	1.00106.09	Al6
ATOM	29022	N7 GUA	458	92.929	72.793	23.221	1.00108.82	Al6S	ATOM	29075	O1P GUA	461	99.110	73.979	37.750	1.00147.21	Al6	
ATOM	29023	C8 GUA	458	92.693	74.073	23.137	1.00108.82	Al6S	ATOM	29076	O2P GUA	461	99.579	74.233	35.234	1.00147.21	Al6	
ATOM	29024	C2' GUA	458	92.421	76.541	25.557	1.00 71.35	Al6S	ATOM	29077	O5' GUA	461	99.101	71.995	36.258	1.00106.09	Al6	
ATOM	29025	O2' GUA	458	91.643	77.365	26.400	1.00 71.35	Al6S	ATOM	29078	C5' GUA	461	98.475	71.108	37.190	1.00106.09	Al6	
ATOM	29026	C3' GUA	458	93.491	77.277	24.761	1.00 71.35	Al6S	ATOM	29079	C4' GUA	461	98.881	69.691	36.905	1.00106.09	Al6	
ATOM	29027	O3' GUA	458	94.077	78.325	25.501	1.00 71.35	Al6S	ATOM	29080	O4' GUA	461	98.286	69.244	35.661	1.00106.09	Al6	
ATOM	29028	P	459	95.282	77.996	26.508	1.00 81.43	Al6S	ATOM	29081	C1' GUA	461	99.176	68.358	35.001	1.00106.09	Al6	
ATOM	29029	O1P GUA	459	95.794	79.289	27.032	1.00141.00	Al6S	ATOM	29082	N9' GUA	461	99.468	68.891	33.673	1.00147.21	Al6	
ATOM	29030	O2P GUA	459	96.210	77.059	25.824	1.00141.00	Al6S	ATOM	29083	C4 GUA	461	100.039	68.206	32.624	1.00147.21	Al6	
ATOM	29031	O5' GUA	459	94.585	77.212	27.704	1.00 81.43	Al6S	ATOM	29084	N3 GUA	461	100.427	66.913	32.635	1.00147.21	Al6	
ATOM	29032	C5' GUA	459	93.673	77.875	28.591	1.00 81.43	Al6S	ATOM	29085	C2 GUA	461	100.948	66.542	31.477	1.00147.21	Al6	
ATOM	29033	C4' GUA	459	93.203	76.920	29.656	1.00 81.43	Al6S	ATOM	29086	N2 GUA	461	101.392	65.286	31.314	1.00147.21	Al6	
ATOM	29034	O4' GUA	459	92.444	75.847	29.040	1.00 81.43	Al6S	ATOM	29087	N1 GUA	461	101.076	67.375	30.393	1.00147.21	Al6	
ATOM	29035	C1' GUA	459	92.695	74.627	29.728	1.00 81.43	Al6S	ATOM	29088	C6 GUA	461	100.683	68.709	30.358	1.00147.21	Al6	
ATOM	29036	N9 GUA	459	93.286	73.677	28.789	1.00141.00	Al6S	ATOM	29089	O6 GUA	461	100.845	69.374	29.327	1.00147.21	Al6	
ATOM	29037	C4 GUA	459	93.448	72.330	28.994	1.00141.00	Al6S	ATOM	29090	C5 GUA	461	100.123	69.120	31.595	1.00147.21	Al6	
ATOM	29038	N3 GUA	459	93.063	71.647	30.090	1.00141.00	Al6S	ATOM	29091	N7' GUA	461	99.612	70.350	31.984	1.00147.21	Al6	
ATOM	29039	C2 GUA	459	93.357	70.362	29.999	1.00141.00	Al6S	ATOM	29092	C8 GUA	461	99.238	70.169	33.221	1.00147.21	Al6	
ATOM	29040	N2 GUA	459	93.028	69.533	30.999	1.00141.00	Al6S	ATOM	29093	C2' GUA	461	100.423	68.208	35.876	1.00106.09	Al6	
ATOM	29041	N1 GUA	459	93.991	69.795	28.920	1.00141.00	Al6S	ATOM	29094	O2' GUA	461	100.305	67.032	36.649	1.00106.09	Al6	
ATOM	29042	C6 GUA	459	94.399	70.481	27.782	1.00141.00	Al6S	ATOM	29095	C3' GUA	461	100.371	69.479	36.718	1.00106.09	Al6	
ATOM	29043	O6 GUA	459	94.965	69.873	26.865	1.00141.00	Al6S	ATOM	29096	O3' GUA	461	101.033	69.358	37.972	1.00106.09	Al6	
ATOM	29044	C5 GUA	459	94.079	71.859	27.864	1.00141.00	Al6S	ATOM	29097	P	ADE	462	102.612	69.640	38.073	1.00109.25	Al6
ATOM	29045	N7 GUA	459	94.295	72.886	26.958	1.00141.00	Al6S	ATOM	29098	O1P ADE	462	102.944	69.734	39.517	1.00126.32	Al6	
ATOM	29046	C8 GUA	459	93.808	73.943	27.546	1.00141.00	Al6S	ATOM	29099	O2P ADE	462	102.956	70.767	37.169	1.00126.32	Al6	
ATOM	29047	C2' GUA	459	93.639	74.928	30.897	1.00 81.43	Al6S	ATOM	29100	O5' ADE	462	103.263	68.301	37.501	1.00109.25	Al6	
ATOM	29048	O2' GUA	459	92.918	75.067	32.104	1.00 81.43	Al6S	ATOM	29101	C5' ADE	462	102.997	67.036	38.143	1.00109.25	Al6	
ATOM	29049	C3' GUA	459	94.309	76.217	30.429	1.00 81.43	Al6S	ATOM	29102	C4' ADE	462	103.505	65.881	37.307	1.00109.25	Al6	
ATOM	29050	O3' GUA	459	94.802	77.003	31.504	1.00 81.43	Al6S	ATOM	29103	O4' ADE	462	102.757	65.780	36.070	1.00109.25	Al6	
ATOM	29051	P	460	96.326	76.827	31.985	1.00102.39	Al6S	ATOM	29104	C1' ADE	462	103.597	65.275	35.043	1.00109.25	Al6	
ATOM	29052	O1P GUA	460	96.649	77.976	32.872	1.00123.73	Al6S	ATOM	29105	N9	ADE	462	103.655	66.259	33.961	1.00126.32	Al6
ATOM	29053	O2P GUA	460	97.165	76.571	30.783	1.00123.73	Al6S	ATOM	29106	C4	ADE	462	104.243	66.080	32.730	1.00126.32	Al6
ATOM	29054	O5' GUA	460	96.299	75.514	32.884	1.00102.39	Al6S	ATOM	29107	N3	ADE	462	104.880	64.985	32.281	1.00126.32	Al6
ATOM	29055	C5' GUA	460	95.478	75.455	34.055	1.00102.39	Al6S	ATOM	29108	C2	ADE	462	105.324	65.177	31.042	1.00126.32	Al6
ATOM	29056	O4' GUA	460	95.404	74.043	34.574	1.00102.39	Al6S	ATOM	29109	N1	ADE	462	105.213	66.257	30.259	1.00126.32	Al6
ATOM	29057	C1' GUA	460	94.723	73.195	33.616	1.00102.39	Al6S	ATOM	29110	C6	ADE	462	104.567	67.340	30.740	1.00126.32	Al6
ATOM	29058	N9 GUA	460	95.262	71.884	33.680	1.00102.39	Al6S	ATOM	29111	N6	ADE	462	104.453	68.419	29.958	1.00126.32	Al6
ATOM	29059	C4 GUA	460	95.768	71.511	32.362	1.00123.73	Al6S	ATOM	29112	C5	ADE	462	104.049	67.265	32.044	1.00126.32	Al6
ATOM	29060	N3 GUA	460	96.251	70.276	32.009	1.00123.73	Al6S	ATOM	29113	N7	ADE	462	103.353	68.176	32.826	1.00126.32	Al6
ATOM	29061	C2 GUA	460	96.331	69.197	32.817	1.00123.73	Al6S	ATOM	29114	C8	ADE	462	103.145	67.534	33.949	1.00126.32	Al6
ATOM	29062		460	96.841	68.151	32.194	1.00123.73	Al6S	ATOM	29115	C2' ADE	462	104.967	64.994	35.661	1.00109.25	Al6	

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ATOM	29222	C3' CYT	467	129.714	70.719	31.722	1.00	61.05	A16S	ATOM	29275	C4' URI	470	132.287	75.051	37.275	1.00	91.97	A1
ATOM	29223	C3' CYT	467	131.065	71.086	31.908	1.00	61.05	A16S	ATOM	29276	O4' URI	470	131.153	74.282	36.813	1.00	91.97	A1
ATOM	29224	P GUA	468	131.522	71.748	33.292	1.00	78.91	A16S	ATOM	29277	C1' URI	470	130.248	75.133	36.139	1.00	91.97	A1
ATOM	29225	O1P GUA	468	131.226	73.197	33.173	1.00	68.42	A16S	ATOM	29278	N1 URI	470	128.939	75.066	36.797	1.00	72.88	A1
ATOM	29226	O2P GUA	468	132.905	71.303	33.571	1.00	68.42	A16S	ATOM	29279	C6 URI	470	128.770	74.509	38.043	1.00	72.88	A1
ATOM	29227	O5' GUA	468	130.542	71.095	34.362	1.00	78.91	A16S	ATOM	29280	C2 URI	470	127.870	75.608	36.115	1.00	72.88	A1
ATOM	29228	C5' GUA	468	130.993	70.668	35.667	1.00	78.91	A16S	ATOM	29281	O2 URI	470	127.977	76.037	35.012	1.00	72.88	A1
ATOM	29229	C4' GUA	468	129.792	70.347	36.513	1.00	78.91	A16S	ATOM	29282	N3 URI	470	126.672	75.560	36.774	1.00	72.88	A1
ATOM	29230	O4' GUA	468	128.991	71.545	36.497	1.00	78.91	A16S	ATOM	29283	C4 URI	470	126.437	75.040	38.017	1.00	72.88	A1
ATOM	29231	O4' GUA	468	127.628	71.208	35.409	1.00	78.91	A16S	ATOM	29284	O4 URI	470	125.315	75.139	38.501	1.00	72.88	A1
ATOM	29232	N9 GUA	468	126.976	72.127	35.479	1.00	68.42	A16S	ATOM	29285	C5 URI	470	127.587	74.480	38.660	1.00	72.88	A1
ATOM	29233	C4 GUA	468	125.652	72.516	35.512	1.00	68.42	A16S	ATOM	29286	C2' URI	470	130.814	76.551	36.180	1.00	91.97	A1
ATOM	29234	N3 GUA	468	124.722	72.098	36.392	1.00	68.42	A16S	ATOM	29287	O2' URI	470	131.455	76.818	34.950	1.00	91.97	A1
ATOM	29235	C2 GUA	468	123.546	72.643	36.164	1.00	68.42	A16S	ATOM	29288	C3' URI	470	131.761	76.471	37.370	1.00	91.97	A1
ATOM	29236	N2 GUA	468	122.509	72.333	36.942	1.00	68.42	A16S	ATOM	29289	O3' URI	470	132.807	77.432	37.308	1.00	91.97	A1
ATOM	29237	N1 GUA	468	123.297	73.530	35.162	1.00	68.42	A16S	ATOM	29290	P ADE	471	132.633	78.839	38.070	1.00	75.63	A1
ATOM	29238	C6 GUA	468	124.235	73.982	34.250	1.00	68.42	A16S	ATOM	29291	O1P ADE	471	133.896	79.617	37.907	1.00	73.00	A1
ATOM	29239	O6 GUA	468	123.903	74.793	33.390	1.00	68.42	A16S	ATOM	29292	O2P ADE	471	132.116	78.556	39.438	1.00	73.00	A1
ATOM	29240	C5 GUA	468	125.507	73.403	34.473	1.00	68.42	A16S	ATOM	29293	O5' ADE	471	131.488	79.571	37.241	1.00	75.63	A1
ATOM	29241	N7 GUA	468	126.709	73.568	33.792	1.00	68.42	A16S	ATOM	29294	C5' ADE	471	131.692	79.906	35.864	1.00	75.63	A1
ATOM	29242	C8 GUA	468	127.549	72.790	34.421	1.00	68.42	A16S	ATOM	29295	C4' ADE	471	130.505	80.555	35.331	1.00	75.63	A1
ATOM	29243	C2' GUA	468	127.479	69.701	36.170	1.00	78.91	A16S	ATOM	29296	O4' ADE	471	129.345	79.789	35.347	1.00	75.63	A1
ATOM	29244	O2' GUA	468	126.886	69.052	37.282	1.00	78.91	A16S	ATOM	29297	C1' ADE	471	128.189	80.546	35.664	1.00	75.63	A1
ATOM	29245	C3' GUA	468	128.916	69.250	35.906	1.00	78.91	A16S	ATOM	29298	N9 ADE	471	127.612	79.995	36.892	1.00	73.00	A1
ATOM	29246	O3' GUA	468	129.054	67.920	36.478	1.00	78.91	A16S	ATOM	29299	C4 ADE	471	126.342	80.224	37.360	1.00	73.00	A1
ATOM	29247	P GUA	469	129.755	67.659	37.935	1.00	99.20	A16S	ATOM	29300	N3 ADE	471	125.400	81.005	36.810	1.00	73.00	A1
ATOM	29248	O1P GUA	469	131.076	67.034	37.674	1.00	78.84	A16S	ATOM	29301	C2 ADE	471	124.286	80.969	37.531	1.00	73.00	A1
ATOM	29249	O2P GUA	469	128.764	66.950	38.793	1.00	78.84	A16S	ATOM	29302	N1 ADE	471	124.021	80.286	38.646	1.00	73.00	A1
ATOM	29250	O5' GUA	469	130.030	69.074	38.611	1.00	99.20	A16S	ATOM	29303	C6 ADE	471	124.989	79.509	39.171	1.00	73.00	A1
ATOM	29251	C5' GUA	469	130.102	69.222	40.047	1.00	99.20	A16S	ATOM	29304	N6 ADE	471	124.722	78.817	40.277	1.00	73.00	A1
ATOM	29252	C4' GUA	469	129.454	70.523	40.443	1.00	99.20	A16S	ATOM	29305	C5 ADE	471	126.224	79.470	38.513	1.00	73.00	A1
ATOM	29253	O4' GUA	469	128.281	70.306	41.242	1.00	99.20	A16S	ATOM	29306	N7 ADE	471	127.408	78.797	38.786	1.00	73.00	A1
ATOM	29254	C1' GUA	469	127.890	71.568	41.693	1.00	99.20	A16S	ATOM	29307	C8 ADE	471	128.199	79.142	37.801	1.00	73.00	A1
ATOM	29255	N9 GUA	469	126.915	71.460	42.767	1.00	78.84	A16S	ATOM	29308	C2' ADE	471	128.613	82.009	35.800	1.00	75.63	A1
ATOM	29256	C4 GUA	469	125.644	71.955	42.688	1.00	78.84	A16S	ATOM	29309	O2' ADE	471	128.415	82.685	34.573	1.00	75.63	A1
ATOM	29257	N3 GUA	469	125.134	72.618	41.635	1.00	78.84	A16S	ATOM	29310	C3' ADE	471	130.088	81.866	36.142	1.00	75.63	A1
ATOM	29258	C2 GUA	469	123.881	72.963	41.826	1.00	78.84	A16S	ATOM	29311	O3' ADE	471	130.820	83.012	35.771	1.00	75.63	A1
ATOM	29259	N2 GUA	469	123.241	73.630	40.860	1.00	78.84	A16S	ATOM	29312	P CYT	472	131.248	84.066	36.896	1.00	67.50	A1
ATOM	29260	N1 GUA	469	123.171	72.681	42.970	1.00	78.84	A16S	ATOM	29313	O1P CYT	472	131.689	85.295	36.173	1.00	64.54	A1
ATOM	29261	C6 GUA	469	123.675	71.997	44.074	1.00	78.84	A16S	ATOM	29314	O2P CYT	472	132.185	83.382	37.837	1.00	64.54	A1
ATOM	29262	O6 GUA	469	122.946	71.791	45.056	1.00	78.84	A16S	ATOM	29315	O5' CYT	472	129.876	84.388	37.643	1.00	67.50	A1
ATOM	29263	C5 GUA	469	125.040	71.620	43.876	1.00	78.84	A16S	ATOM	29316	C5' CYT	472	128.844	85.147	36.985	1.00	67.50	A1
ATOM	29264	N7 GUA	469	125.928	70.941	44.702	1.00	78.84	A16S	ATOM	29317	C4' CYT	472	127.577	85.156	37.810	1.00	67.50	A1
ATOM	29265	C8 GUA	469	127.032	70.873	44.002	1.00	78.84	A16S	ATOM	29318	O4' CYT	472	127.033	83.814	37.863	1.00	67.50	A1
ATOM	29266	C2' GUA	469	129.151	72.402	41.913	1.00	99.20	A16S	ATOM	29319	C1' CYT	472	126.479	83.574	39.144	1.00	67.50	A1
ATOM	29267	O2' GUA	469	128.945	73.624	41.235	1.00	99.20	A16S	ATOM	29320	N1 CYT	472	127.313	82.559	39.812	1.00	64.54	A1
ATOM	29268	C3' GUA	469	130.245	71.547	41.249	1.00	99.20	A16S	ATOM	29321	C6 CYT	472	128.604	82.347	39.414	1.00	64.54	A1
ATOM	29269	O3' GUA	469	131.015	73.332	40.334	1.00	99.20	A16S	ATOM	29322	C2 CYT	472	126.775	81.828	40.870	1.00	64.54	A1
ATOM	29270	P URI	470	131.876	73.596	40.853	1.00	91.97	A16S	ATOM	29323	O2 CYT	472	125.595	82.034	41.203	1.00	64.54	A1
ATOM	29271	O1P URI	470	133.273	73.108	41.023	1.00	72.88	A16S	ATOM	29324	N3 CYT	472	127.553	80.917	41.504	1.00	64.54	A1
ATOM	29272	O2P URI	470	131.207	74.295	41.985	1.00	72.88	A16S	ATOM	29325	C4 CYT	472	128.817	80.730	41.112	1.00	64.54	A1
ATOM	29273	O5' URI	470	131.852	74.588	39.604	1.00	91.97	A16S	ATOM	29326	N4 CYT	472	129.556	79.838	41.766	1.00	64.54	A1
ATOM	29274	C5' URI	470	132.818	74.457	38.550	1.00	91.97	A16S	ATOM	29327	C5 CYT	472	129.382	81.454	40.031	1.00	64.54	A1

ATOM	29328	C2' CYT	472	126.523	84.894	39.913	1.00	67.50	Al6S	ATOM	29381	O4' GUA	475	129.331	86.258	53.610	1.00	72.40	Al1
ATOM	29329	O2' CYT	472	125.339	85.638	39.704	1.00	67.50	Al6S	ATOM	29382	C1' GUA	475	130.489	85.439	53.699	1.00	72.40	Al1
ATOM	29330	C3' CYT	472	127.716	85.571	39.267	1.00	67.50	Al6S	ATOM	29383	N9 GUA	475	130.951	85.121	52.352	1.00	72.40	Al1
ATOM	29331	O3' CYT	472	127.672	86.972	39.467	1.00	67.50	Al6S	ATOM	29384	C4 GUA	475	131.960	84.244	52.024	1.00	72.40	Al1
ATOM	29332	P	473	128.265	87.589	40.825	1.00	76.59	Al6S	ATOM	29385	N3 GUA	475	132.681	83.506	52.891	1.00	72.40	Al1
ATOM	29333	O1P CYT	473	128.224	89.067	40.673	1.00	57.52	Al6S	ATOM	29386	C2 GUA	475	133.588	82.770	52.274	1.00	72.40	Al1
ATOM	29334	O2P CYT	473	129.555	86.921	41.153	1.00	57.52	Al6S	ATOM	29387	N2 GUA	475	134.393	81.974	52.982	1.00	72.40	Al1
ATOM	29335	O5' CYT	473	127.189	87.161	41.918	1.00	76.59	Al6S	ATOM	29388	N1 GUA	475	133.774	82.761	50.916	1.00	72.40	Al1
ATOM	29336	C5' CYT	473	125.864	87.732	41.914	1.00	76.59	Al6S	ATOM	29389	C6 GUA	475	133.043	83.511	50.004	1.00	72.40	Al1
ATOM	29337	O6' CYT	473	125.129	87.364	43.180	1.00	76.59	Al6S	ATOM	29390	O6 GUA	475	133.290	83.426	48.794	1.00	72.40	Al1
ATOM	29338	O4' CYT	473	124.816	85.947	43.157	1.00	76.59	Al6S	ATOM	29391	C5 GUA	475	132.066	84.305	50.652	1.00	72.40	Al1
ATOM	29339	C1' CYT	473	124.980	85.399	44.456	1.00	76.59	Al6S	ATOM	29392	N7 GUA	475	131.134	85.187	50.124	1.00	72.40	Al1
ATOM	29340	N1 CYT	473	126.108	84.446	44.417	1.00	57.52	Al6S	ATOM	29393	C8 GUA	475	130.494	85.644	51.166	1.00	72.40	Al1
ATOM	29341	C6 CYT	473	127.054	84.524	43.433	1.00	57.52	Al6S	ATOM	29394	C2' GUA	475	131.556	86.214	54.472	1.00	72.40	Al1
ATOM	29342	C2 CYT	473	126.209	83.459	45.413	1.00	57.52	Al6S	ATOM	29395	O2' GUA	475	131.548	85.783	55.816	1.00	72.40	Al1
ATOM	29343	O2 CYT	473	125.324	83.386	46.292	1.00	57.52	Al6S	ATOM	29396	C3' GUA	475	131.101	87.658	54.275	1.00	72.40	Al1
ATOM	29344	N3 CYT	473	127.263	82.607	45.390	1.00	57.52	Al6S	ATOM	29397	O3' GUA	475	131.559	88.507	55.318	1.00	72.40	Al1
ATOM	29345	N4 CYT	473	128.180	82.706	44.425	1.00	57.52	Al6S	ATOM	29398	P	476	133.027	89.164	55.224	1.00	72.40	Al1
ATOM	29346	C4 CYT	473	129.199	81.855	44.442	1.00	57.52	Al6S	ATOM	29399	O1P GUA	476	133.230	90.004	56.435	1.00	72.40	Al1
ATOM	29347	C5 CYT	473	128.092	83.683	43.401	1.00	57.52	Al6S	ATOM	29400	O2P GUA	476	133.203	89.767	53.876	1.00	72.40	Al1
ATOM	29348	C2' CYT	473	125.276	86.559	45.409	1.00	76.59	Al6S	ATOM	29401	O5' GUA	476	134.021	87.926	55.335	1.00	72.40	Al1
ATOM	29349	O2' CYT	473	124.080	87.021	46.015	1.00	76.59	Al6S	ATOM	29402	C5' GUA	476	134.107	87.163	56.545	1.00	72.40	Al1
ATOM	29350	C3' CYT	473	125.919	87.565	44.463	1.00	76.59	Al6S	ATOM	29403	C4' GUA	476	135.151	86.093	56.408	1.00	72.40	Al1
ATOM	29351	O3' CYT	473	125.886	88.897	44.949	1.00	76.59	Al6S	ATOM	29404	O4' GUA	476	134.754	85.163	55.372	1.00	72.40	Al1
ATOM	29352	P	474	127.094	89.434	45.869	1.00	87.69	Al6S	ATOM	29405	C1' GUA	476	135.904	84.697	54.690	1.00	72.40	Al1
ATOM	29353	O1P GUA	474	126.821	90.872	46.095	1.00	92.78	Al6S	ATOM	29406	N9 GUA	476	135.757	84.978	53.263	1.00	72.40	Al1
ATOM	29354	O2P GUA	474	128.408	89.011	45.325	1.00	92.78	Al6S	ATOM	29407	C4 GUA	476	136.623	84.593	52.264	1.00	72.40	Al1
ATOM	29355	O5' GUA	474	126.903	88.664	47.246	1.00	87.69	Al6S	ATOM	29408	N3 GUA	476	137.765	83.896	52.432	1.00	72.40	Al1
ATOM	29356	C5' GUA	474	125.726	88.859	48.047	1.00	87.69	Al6S	ATOM	29409	C2 GUA	476	138.383	83.680	51.287	1.00	72.40	Al1
ATOM	29357	C4' GUA	474	125.768	87.953	49.248	1.00	87.69	Al6S	ATOM	29410	N2 GUA	476	139.530	82.994	51.270	1.00	72.40	Al1
ATOM	29358	O4' GUA	474	125.660	86.573	48.809	1.00	87.69	Al6S	ATOM	29411	N1 GUA	476	137.922	84.119	50.071	1.00	72.40	Al1
ATOM	29359	C1' GUA	474	126.504	85.751	49.603	1.00	87.69	Al6S	ATOM	29412	C6 GUA	476	136.752	84.841	49.873	1.00	72.40	Al1
ATOM	29360	N9 GUA	474	127.528	85.170	49.073	1.00	92.78	Al6S	ATOM	29413	O6 GUA	476	136.431	85.194	48.731	1.00	72.40	Al1
ATOM	29361	C4 GUA	474	128.380	84.146	49.235	1.00	92.78	Al6S	ATOM	29414	C5 GUA	476	136.072	85.075	51.097	1.00	72.40	Al1
ATOM	29362	N3 GUA	474	128.377	83.461	50.235	1.00	92.78	Al6S	ATOM	29415	N7 GUA	476	134.886	85.747	51.353	1.00	72.40	Al1
ATOM	29363	C2 GUA	474	129.338	82.558	50.279	1.00	92.78	Al6S	ATOM	29416	C8 GUA	476	134.741	85.669	52.648	1.00	72.40	Al1
ATOM	29364	N2 GUA	474	129.468	81.780	51.359	1.00	92.78	Al6S	ATOM	29417	C2' GUA	476	137.132	85.358	55.324	1.00	72.40	Al1
ATOM	29365	N1 GUA	474	130.241	82.350	49.266	1.00	92.78	Al6S	ATOM	29418	O2' GUA	476	137.711	84.465	56.253	1.00	72.40	Al1
ATOM	29366	C6 GUA	474	130.268	83.046	48.061	1.00	92.78	Al6S	ATOM	29419	C3' GUA	476	136.521	86.587	55.985	1.00	72.40	Al1
ATOM	29367	O6 GUA	474	131.141	82.791	47.218	1.00	92.78	Al6S	ATOM	29420	O3' GUA	476	137.266	87.003	57.114	1.00	72.40	Al1
ATOM	29368	C5 GUA	474	129.226	84.008	47.993	1.00	92.78	Al6S	ATOM	29421	P	477	138.324	88.204	56.975	1.00	72.40	Al1
ATOM	29369	N7 GUA	474	128.884	84.897	46.982	1.00	92.78	Al6S	ATOM	29422	O1P GUA	477	139.033	88.335	58.278	1.00	72.40	Al1
ATOM	29370	C8 GUA	474	127.868	85.559	47.466	1.00	92.78	Al6S	ATOM	29423	O2P GUA	477	137.599	89.373	56.414	1.00	72.40	Al1
ATOM	29371	C2' GUA	474	127.149	86.637	50.676	1.00	87.69	Al6S	ATOM	29424	O5' GUA	477	139.379	87.669	55.903	1.00	72.40	Al1
ATOM	29372	O2' GUA	474	126.446	86.555	51.901	1.00	87.69	Al6S	ATOM	29425	C5' GUA	477	140.318	86.619	56.234	1.00	72.40	Al1
ATOM	29373	C3' GUA	474	127.076	88.008	50.020	1.00	87.69	Al6S	ATOM	29426	C4' GUA	477	141.094	86.190	55.005	1.00	72.40	Al1
ATOM	29374	O3' GUA	474	127.111	89.071	50.955	1.00	87.69	Al6S	ATOM	29427	O4' GUA	477	140.197	85.582	54.036	1.00	72.40	Al1
ATOM	29375	P	475	128.502	89.821	51.241	1.00	72.40	Al6S	ATOM	29428	C1' GUA	477	140.617	85.906	52.720	1.00	72.40	Al1
ATOM	29376	O1P GUA	475	128.161	91.072	51.970	1.00	115.08	Al6S	ATOM	29429	N9 GUA	477	139.551	86.669	52.079	1.00	72.40	Al1
ATOM	29377	O2P GUA	475	129.267	89.898	49.969	1.00	115.08	Al6S	ATOM	29430	C4 GUA	477	139.426	86.946	50.740	1.00	72.40	Al1
ATOM	29378	O5' GUA	475	129.280	88.839	52.232	1.00	72.40	Al6S	ATOM	29431	N3 GUA	477	140.265	86.548	49.765	1.00	72.40	Al1
ATOM	29379	C5' GUA	475	128.807	88.630	53.579	1.00	72.40	Al6S	ATOM	29432	C2 GUA	477	139.879	86.981	48.577	1.00	72.40	Al1
ATOM	29380	C4' GUA	475	129.586	87.529	54.263	1.00	72.40	Al6S	ATOM	29433	N2 GUA	477	140.596	86.687	47.493	1.00	72.40	Al1

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ATOM	29434	N1	EUA	477	138.761	87.738	48.361	1.00	88.91	A16S	ATOM	29487	O1P	ADE	480	153.526	89.769	50.074	1.00	79.04	A1
ATOM	29435	G6	GUA	477	137.882	88.160	49.347	1.00	88.91	A16S	ATOM	29488	O2P	ADE	480	155.299	90.224	48.283	1.00	79.04	A1
ATOM	29436	C5	GUA	477	136.900	88.841	49.042	1.00	88.91	A16S	ATOM	29489	O5	ADE	480	153.003	89.486	47.649	1.00	102.72	A1
ATOM	29437	C6	GUA	477	138.283	87.708	50.629	1.00	88.91	A16S	ATOM	29490	C5	ADE	480	153.383	88.174	47.199	1.00	102.72	A1
ATOM	29438	N7	GUA	477	137.696	87.900	51.871	1.00	88.91	A16S	ATOM	29491	C4	ADE	480	152.530	87.748	46.024	1.00	102.72	A1
ATOM	29439	C8	GUA	477	138.480	87.266	52.698	1.00	88.91	A16S	ATOM	29492	O4	ADE	480	151.143	87.688	46.434	1.00	102.72	A1
ATOM	29440	C2	GUA	477	141.912	86.712	52.835	1.00	75.10	A16S	ATOM	29493	C1	ADE	480	150.312	87.916	45.313	1.00	102.72	A1
ATOM	29441	O2	GUA	477	143.022	85.849	52.717	1.00	75.10	A16S	ATOM	29494	N9	ADE	480	149.156	88.721	45.716	1.00	79.04	A1
ATOM	29442	C3	GUA	477	141.789	87.299	54.235	1.00	75.10	A16S	ATOM	29495	C4	ADE	480	148.156	89.194	44.895	1.00	79.04	A1
ATOM	29443	G6	GUA	477	143.060	87.616	54.782	1.00	79.43	A16S	ATOM	29496	N3	ADE	480	148.064	89.070	43.561	1.00	79.04	A1
ATOM	29444	P	URI	478	143.673	89.088	54.560	1.00	79.43	A16S	ATOM	29497	C2	ADE	480	146.945	89.640	43.111	1.00	79.04	A1
ATOM	29445	O1P	URI	478	143.909	89.709	55.897	1.00	87.73	A16S	ATOM	29498	N1	ADE	480	145.978	90.262	43.789	1.00	79.04	A1
ATOM	29446	O2P	URI	478	142.810	89.787	53.567	1.00	87.73	A16S	ATOM	29499	C6	ADE	480	146.097	90.365	45.128	1.00	79.04	A1
ATOM	29447	O5	URI	478	145.102	88.822	53.901	1.00	79.43	A16S	ATOM	29500	N6	ADE	480	145.124	90.972	45.803	1.00	79.04	A1
ATOM	29448	C5	URI	478	146.085	88.025	54.579	1.00	79.43	A16S	ATOM	29501	C5	ADE	480	147.244	89.815	45.729	1.00	79.04	A1
ATOM	29449	C4	URI	478	146.989	87.343	53.582	1.00	79.43	A16S	ATOM	29502	N7	ADE	480	147.674	89.766	47.046	1.00	79.04	A1
ATOM	29450	O4	URI	478	146.206	86.502	52.699	1.00	79.43	A16S	ATOM	29503	C8	ADE	480	148.813	89.118	46.983	1.00	79.04	A1
ATOM	29451	C1	URI	478	146.818	86.459	51.423	1.00	79.43	A16S	ATOM	29504	O2	ADE	480	151.165	88.425	44.148	1.00	102.72	A1
ATOM	29452	N1	URI	478	145.852	86.910	50.411	1.00	87.73	A16S	ATOM	29505	C2	ADE	480	151.144	87.470	43.108	1.00	102.72	A1
ATOM	29453	C6	URI	478	144.707	87.590	50.749	1.00	87.73	A16S	ATOM	29506	C3	ADE	480	152.524	88.670	44.813	1.00	102.72	A1
ATOM	29454	C2	URI	478	146.140	86.629	49.093	1.00	87.73	A16S	ATOM	29507	O3	ADE	480	153.697	88.524	43.971	1.00	102.72	A1
ATOM	29455	O2	URI	478	147.143	86.031	48.745	1.00	87.73	A16S	ATOM	29508	P	URI	481	154.116	87.085	43.327	1.00	70.57	A1
ATOM	29456	N3	URI	478	145.213	87.073	48.192	1.00	87.73	A16S	ATOM	29509	O1P	URI	481	152.993	86.097	43.312	1.00	66.25	A1
ATOM	29457	C4	URI	478	144.060	87.752	48.464	1.00	87.73	A16S	ATOM	29510	O2P	URI	481	155.409	86.704	43.966	1.00	66.25	A1
ATOM	29458	O4	URI	478	143.317	88.047	47.543	1.00	87.73	A16S	ATOM	29511	O5	URI	481	154.480	87.446	41.814	1.00	70.57	A1
ATOM	29459	C5	URI	478	143.827	88.011	49.843	1.00	87.73	A16S	ATOM	29512	C5	URI	481	153.606	87.089	40.723	1.00	70.57	A1
ATOM	29460	O2	URI	478	148.076	87.328	51.466	1.00	79.43	A16S	ATOM	29513	C4	URI	481	154.417	86.629	39.535	1.00	70.57	A1
ATOM	29461	C2	URI	478	149.206	86.502	51.660	1.00	79.43	A16S	ATOM	29514	O4	URI	481	153.529	85.975	38.603	1.00	70.57	A1
ATOM	29462	C3	URI	478	147.783	88.243	52.650	1.00	79.43	A16S	ATOM	29515	C1	URI	481	154.002	86.166	37.284	1.00	70.57	A1
ATOM	29463	O3	URI	478	148.983	88.647	53.278	1.00	79.43	A16S	ATOM	29516	N1	URI	481	152.920	86.733	36.462	1.00	66.25	A1
ATOM	29464	P	ADE	479	149.536	90.134	53.068	1.00	84.94	A16S	ATOM	29517	C6	URI	481	151.704	87.079	37.008	1.00	66.25	A1
ATOM	29465	O1P	ADE	479	150.672	90.252	54.013	1.00	78.25	A16S	ATOM	29518	C2	URI	481	153.157	86.900	35.104	1.00	66.25	A1
ATOM	29466	O2P	ADE	479	148.406	91.098	53.143	1.00	78.25	A16S	ATOM	29519	O2	URI	481	154.220	86.630	34.570	1.00	66.25	A1
ATOM	29467	O5	ADE	479	150.127	90.134	51.588	1.00	84.94	A16S	ATOM	29520	N3	URI	481	152.101	87.400	34.392	1.00	66.25	A1
ATOM	29468	C5	ADE	479	151.200	91.024	51.222	1.00	84.94	A16S	ATOM	29521	C4	URI	481	150.866	87.752	34.876	1.00	66.25	A1
ATOM	29469	C4	ADE	479	151.241	91.208	49.727	1.00	84.94	A16S	ATOM	29522	O4	URI	481	150.018	88.170	34.096	1.00	66.25	A1
ATOM	29470	O4	ADE	479	149.944	91.587	49.235	1.00	84.94	A16S	ATOM	29523	C5	URI	481	150.698	87.569	36.280	1.00	66.25	A1
ATOM	29471	C1	ADE	479	150.138	92.216	48.004	1.00	84.94	A16S	ATOM	29524	O2	URI	481	155.268	87.020	37.352	1.00	70.57	A1
ATOM	29472	N9	ADE	479	148.928	92.954	47.641	1.00	78.25	A16S	ATOM	29525	C2	URI	481	156.391	86.172	37.283	1.00	70.57	A1
ATOM	29473	C4	ADE	479	148.412	93.015	46.369	1.00	78.25	A16S	ATOM	29526	C3	URI	481	155.136	87.689	38.712	1.00	70.57	A1
ATOM	29474	N3	ADE	479	148.912	92.436	45.264	1.00	78.25	A16S	ATOM	29527	O3	URI	481	156.431	88.004	39.214	1.00	70.57	A1
ATOM	29475	C2	ADE	479	148.148	92.700	44.209	1.00	78.25	A16S	ATOM	29528	P	ADE	482	157.166	89.358	38.732	1.00	57.63	A1
ATOM	29476	N1	ADE	479	147.023	93.420	44.131	1.00	78.25	A16S	ATOM	29529	O1P	ADE	482	158.536	89.425	39.325	1.00	55.35	A1
ATOM	29477	C6	ADE	479	146.543	93.989	45.256	1.00	78.25	A16S	ATOM	29530	O2P	ADE	482	156.208	90.469	38.977	1.00	55.35	A1
ATOM	29478	N6	ADE	479	145.415	94.697	45.170	1.00	78.25	A16S	ATOM	29531	O5	ADE	482	157.330	89.203	37.149	1.00	57.63	A1
ATOM	29479	C5	ADE	479	147.273	93.789	46.456	1.00	78.25	A16S	ATOM	29532	C5	ADE	482	158.398	88.417	36.569	1.00	57.63	A1
ATOM	29480	N7	ADE	479	147.077	94.222	47.763	1.00	78.25	A16S	ATOM	29533	C4	ADE	482	158.667	88.858	35.146	1.00	57.63	A1
ATOM	29481	C8	ADE	479	148.083	93.699	48.424	1.00	78.25	A16S	ATOM	29534	O4	ADE	482	157.459	88.709	34.360	1.00	57.63	A1
ATOM	29482	O2	ADE	479	151.372	93.090	48.209	1.00	84.94	A16S	ATOM	29535	C1	ADE	482	157.197	89.918	33.690	1.00	57.63	A1
ATOM	29483	C2	ADE	479	152.023	93.265	46.962	1.00	84.94	A16S	ATOM	29536	N9	ADE	482	155.768	90.021	33.419	1.00	55.35	A1
ATOM	29484	C3	ADE	479	152.208	92.280	49.216	1.00	84.94	A16S	ATOM	29537	C4	ADE	482	155.217	90.313	32.195	1.00	55.35	A1
ATOM	29485	O3	ADE	479	153.391	91.796	48.553	1.00	84.94	A16S	ATOM	29538	N3	ADE	482	155.867	90.571	31.046	1.00	55.35	A1
ATOM	29486	P	ADE	480	153.883	90.271	48.724	1.00	102.72	A16S	ATOM	29539	C2	ADE	482	155.008	90.784	30.063	1.00	55.35	A1

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ATOM	29540	N1 ADE	482	153.674	90.770	30.093	1.00 55.35	Al6S	ATOM	29593	P	GUA	485	165.042	89.332	23.246	1.00 40.70	Al6
ATOM	29541	96 ADE	482	153.055	90.512	31.266	1.00 55.35	Al6S	ATOM	29594	O1P GUA	GUA	485	165.939	88.411	22.531	1.00 53.34	Al6
ATOM	29542	N6 ADE	482	151.724	90.501	31.302	1.00 55.35	Al6S	ATOM	29595	O2P GUA	GUA	485	165.498	89.953	24.504	1.00 53.34	Al6
ATOM	29543	C5 ADE	482	153.853	90.270	32.379	1.00 55.35	Al6S	ATOM	29596	O5' GUA	GUA	485	164.602	90.516	22.275	1.00 40.70	Al6
ATOM	29544	N7 ADE	482	153.545	89.967	33.693	1.00 55.35	Al6S	ATOM	29597	C5' GUA	GUA	485	164.122	90.249	20.945	1.00 40.70	Al6
ATOM	29545	C8 ADE	482	154.714	89.835	34.267	1.00 55.35	Al6S	ATOM	29598	C4' GUA	GUA	485	163.717	91.535	20.258	1.00 40.70	Al6
ATOM	29546	C2' ADE	482	157.824	91.002	34.554	1.00 57.63	Al6S	ATOM	29599	O4' GUA	GUA	485	162.610	92.149	20.970	1.00 40.70	Al6
ATOM	29547	C2' ADE	482	158.058	92.166	33.795	1.00 57.63	Al6S	ATOM	29600	C1' GUA	GUA	485	162.732	93.568	20.928	1.00 40.70	Al6
ATOM	29548	C3' ADE	482	159.113	90.309	34.968	1.00 57.63	Al6S	ATOM	29601	N9 GUA	GUA	485	162.933	94.058	22.294	1.00 53.34	Al6
ATOM	29549	96' ADE	482	159.969	90.412	33.830	1.00 57.63	Al6S	ATOM	29602	C4 GUA	GUA	485	162.879	95.367	22.730	1.00 53.34	Al6
ATOM	29550	P GUA	483	161.478	89.872	33.889	1.00 55.14	Al6S	ATOM	29603	N3 GUA	GUA	485	162.592	96.448	21.976	1.00 53.34	Al6
ATOM	29551	O1P GUA	483	161.594	88.898	35.009	1.00 55.89	Al6S	ATOM	29604	C2 GUA	GUA	485	162.661	97.565	22.677	1.00 53.34	Al6
ATOM	29552	O2P GUA	483	162.395	91.036	33.829	1.00 55.89	Al6S	ATOM	29605	N2 GUA	GUA	485	162.416	98.735	22.099	1.00 53.34	Al6
ATOM	29553	O5' GUA	483	161.628	89.071	32.522	1.00 55.14	Al6S	ATOM	29606	N1 GUA	GUA	485	162.982	97.619	24.001	1.00 53.34	Al6
ATOM	29554	C5' GUA	483	160.933	87.830	32.317	1.00 55.14	Al6S	ATOM	29607	C6 GUA	GUA	485	163.287	96.521	24.796	1.00 53.34	Al6
ATOM	29555	C4' GUA	483	160.168	87.861	31.015	1.00 55.14	Al6S	ATOM	29608	O6 GUA	GUA	485	163.591	96.684	25.987	1.00 53.34	Al6
ATOM	29556	O4' GUA	483	159.096	88.836	31.093	1.00 55.14	Al6S	ATOM	29609	C5 GUA	GUA	485	163.210	95.318	24.067	1.00 53.34	Al6
ATOM	29557	C1' GUA	483	158.882	89.419	29.814	1.00 55.14	Al6S	ATOM	29610	N7 GUA	GUA	485	163.433	94.013	24.474	1.00 53.34	Al6
ATOM	29558	N9 GUA	483	159.072	90.865	29.920	1.00 55.89	Al6S	ATOM	29611	C8 GUA	GUA	485	163.253	93.301	23.397	1.00 53.34	Al6
ATOM	29559	C4 GUA	483	158.580	91.825	29.060	1.00 55.89	Al6S	ATOM	29612	C2' GUA	GUA	485	163.932	93.885	20.037	1.00 40.70	Al6
ATOM	29560	N3 GUA	483	157.834	91.602	27.955	1.00 55.89	Al6S	ATOM	29613	O2' GUA	GUA	485	163.482	94.059	18.707	1.00 40.70	Al6
ATOM	29561	C2 GUA	483	157.495	92.731	27.353	1.00 55.89	Al6S	ATOM	29614	O3' GUA	GUA	485	164.768	92.626	20.201	1.00 40.70	Al6
ATOM	29562	N1 GUA	483	156.734	92.702	26.259	1.00 55.89	Al6S	ATOM	29615	C3' GUA	GUA	485	165.674	92.443	19.137	1.00 40.70	Al6
ATOM	29563	N2 GUA	483	157.869	93.972	27.787	1.00 55.89	Al6S	ATOM	29616	P	CYT	486	167.202	92.887	19.330	1.00 46.53	Al6
ATOM	29564	C6 GUA	483	158.636	94.227	28.918	1.00 55.89	Al6S	ATOM	29617	O1P CYT	CYT	486	167.969	92.352	18.178	1.00 53.21	Al6
ATOM	29565	O6 GUA	483	158.906	95.395	29.230	1.00 55.89	Al6S	ATOM	29618	O2P CYT	CYT	486	167.607	92.523	20.716	1.00 53.21	Al6
ATOM	29566	C5 GUA	483	159.003	93.029	29.580	1.00 55.89	Al6S	ATOM	29619	O5' CYT	CYT	486	167.163	94.474	19.213	1.00 46.53	Al6
ATOM	29567	N7 GUA	483	159.755	92.834	30.728	1.00 55.89	Al6S	ATOM	29620	C5' CYT	CYT	486	166.715	95.091	18.002	1.00 46.53	Al6
ATOM	29568	C8 GUA	483	159.770	91.540	30.890	1.00 55.89	Al6S	ATOM	29621	C4' CYT	CYT	486	166.262	96.502	18.266	1.00 46.53	Al6
ATOM	29569	C2' GUA	483	159.860	88.766	28.837	1.00 55.14	Al6S	ATOM	29622	O4' CYT	CYT	486	165.268	96.510	19.322	1.00 46.53	Al6
ATOM	29570	O2' GUA	483	159.201	87.726	28.136	1.00 55.14	Al6S	ATOM	29623	C1' CYT	CYT	486	165.406	97.688	20.098	1.00 46.53	Al6
ATOM	29571	C3' GUA	483	160.952	88.275	29.781	1.00 55.14	Al6S	ATOM	29624	N1 CYT	CYT	486	165.772	97.303	21.474	1.00 53.21	Al6
ATOM	29572	O3' GUA	483	161.733	87.222	29.240	1.00 55.14	Al6S	ATOM	29625	C6 CYT	CYT	486	166.011	95.996	21.799	1.00 53.21	Al6
ATOM	29573	P CYT	484	163.147	87.566	28.564	1.00 48.58	Al6S	ATOM	29626	C2 CYT	CYT	486	165.898	98.304	22.444	1.00 53.21	Al6
ATOM	29574	O1P CYT	484	163.861	86.291	28.373	1.00 54.08	Al6S	ATOM	29627	O2 CYT	CYT	486	165.652	99.472	22.135	1.00 53.21	Al6
ATOM	29575	O2P CYT	484	163.805	88.657	29.311	1.00 54.08	Al6S	ATOM	29628	N3 CYT	CYT	486	166.287	97.966	23.692	1.00 53.21	Al6
ATOM	29576	O5' CYT	484	162.739	88.178	27.154	1.00 48.58	Al6S	ATOM	29629	C4 CYT	CYT	486	166.534	96.689	23.991	1.00 53.21	Al6
ATOM	29577	C5' CYT	484	162.061	87.384	26.158	1.00 48.58	Al6S	ATOM	29630	N4 CYT	CYT	486	166.924	96.404	25.225	1.00 53.21	Al6
ATOM	29578	C4' CYT	484	161.678	88.246	24.973	1.00 48.58	Al6S	ATOM	29631	C5 CYT	CYT	486	166.391	95.651	23.034	1.00 53.21	Al6
ATOM	29579	O4' CYT	484	160.606	89.157	25.344	1.00 48.58	Al6S	ATOM	29632	C2' CYT	CYT	486	166.514	98.525	19.458	1.00 46.53	Al6
ATOM	29580	C1' CYT	484	160.772	90.394	24.658	1.00 48.58	Al6S	ATOM	29633	O2' CYT	CYT	486	165.929	99.429	18.553	1.00 46.53	Al6
ATOM	29581	N1 CYT	484	161.015	91.483	25.629	1.00 54.08	Al6S	ATOM	29634	C3' CYT	CYT	486	167.333	97.462	18.745	1.00 46.53	Al6
ATOM	29582	C6 CYT	484	161.737	91.267	26.770	1.00 54.08	Al6S	ATOM	29635	O3' CYT	CYT	486	168.042	98.000	17.646	1.00 46.53	Al6
ATOM	29583	C2 CYT	484	160.513	92.768	25.343	1.00 54.08	Al6S	ATOM	29636	P	CYT	487	169.541	98.520	17.846	1.00 51.60	Al6
ATOM	29584	O2 CYT	484	159.833	92.937	24.318	1.00 54.08	Al6S	ATOM	29637	O1P CYT	CYT	487	170.031	98.841	16.482	1.00 45.37	Al6
ATOM	29585	N3 CYT	484	160.781	93.787	26.189	1.00 54.08	Al6S	ATOM	29638	O2P CYT	CYT	487	170.308	97.595	18.705	1.00 45.37	Al6
ATOM	29586	C4 CYT	484	161.505	93.568	27.288	1.00 54.08	Al6S	ATOM	29639	O5' CYT	CYT	487	169.365	99.870	18.656	1.00 51.60	Al6
ATOM	29587	N4 CYT	484	161.764	94.611	28.087	1.00 54.08	Al6S	ATOM	29640	C5' CYT	CYT	487	168.801	101.031	18.031	1.00 51.60	Al6
ATOM	29588	C5 CYT	484	162.004	92.268	27.619	1.00 54.08	Al6S	ATOM	29641	C4' CYT	CYT	487	169.015	102.230	18.905	1.00 51.60	Al6
ATOM	29589	C2' CYT	484	161.977	90.245	23.739	1.00 48.58	Al6S	ATOM	29642	O4' CYT	CYT	487	168.224	102.084	20.106	1.00 51.60	Al6
ATOM	29590	O2' CYT	484	161.543	89.810	22.470	1.00 48.58	Al6S	ATOM	29643	C1' CYT	CYT	487	168.946	102.573	21.217	1.00 51.60	Al6
ATOM	29591	C3' CYT	484	162.768	89.169	24.452	1.00 48.58	Al6S	ATOM	29644	N1 CYT	CYT	487	169.150	101.457	22.157	1.00 45.37	Al6
ATOM	29592	O3' CYT	484	163.680	88.567	23.570	1.00 48.58	Al6S	ATOM	29645	C6 CYT	CYT	487	169.140	100.164	21.721	1.00 45.37	Al6

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ATOM	29646	C2' CYT	487	169.344	101.738	23.506	1.00	45.37	Al6S	ATOM	29699	O2' GUA	489	169.560	108.395	8.420	1.00	48.08	Al
ATOM	29647	O2' CYT	487	169.353	102.917	23.880	1.00	45.37	Al6S	ATOM	29700	C3' GUA	489	169.199	108.074	10.836	1.00	48.08	Al
ATOM	29648	N3 CYT	487	169.511	100.719	24.376	1.00	45.37	Al6S	ATOM	29701	O3' GUA	489	168.308	109.183	10.841	1.00	48.08	Al
ATOM	29649	C4 CYT	487	169.479	99.462	23.943	1.00	45.37	Al6S	ATOM	29702	P	490	166.877	109.036	11.558	1.00	51.36	Al
ATOM	29650	N4 CYT	487	169.623	98.485	24.842	1.00	45.37	Al6S	ATOM	29703	O1P CYT	490	166.275	110.390	11.606	1.00	55.16	Al
ATOM	29651	C5 CYT	487	169.294	99.146	22.572	1.00	45.37	Al6S	ATOM	29704	O2P CYT	490	167.047	108.263	12.817	1.00	55.16	Al
ATOM	29652	C2' CYT	487	170.249	103.168	20.686	1.00	51.60	Al6S	ATOM	29705	O5' CYT	490	166.034	108.165	10.529	1.00	51.36	Al
ATOM	29653	O2' CYT	487	170.054	104.544	20.426	1.00	51.60	Al6S	ATOM	29706	C5' CYT	490	165.709	108.702	9.238	1.00	51.36	Al
ATOM	29654	C3' CYT	487	170.436	102.389	19.400	1.00	51.60	Al6S	ATOM	29707	C4' CYT	490	165.237	107.616	8.314	1.00	51.36	Al
ATOM	29655	O3' CYT	487	171.219	103.098	18.469	1.00	51.60	Al6S	ATOM	29708	C1' CYT	490	166.317	106.685	8.068	1.00	51.36	Al
ATOM	29656	O3' GUA	488	172.752	102.680	18.253	1.00	65.33	Al6S	ATOM	29709	O4' CYT	490	165.789	105.389	7.860	1.00	55.16	Al
ATOM	29657	O1P GUA	488	173.494	103.186	19.443	1.00	47.96	Al6S	ATOM	29710	N1 CYT	490	166.374	104.459	8.846	1.00	55.16	Al
ATOM	29658	O2P GUA	488	172.791	101.226	17.919	1.00	47.96	Al6S	ATOM	29711	C6 CYT	490	166.780	104.898	10.075	1.00	55.16	Al
ATOM	29659	O5' GUA	488	173.188	103.485	16.946	1.00	65.33	Al6S	ATOM	29712	C2 CYT	490	166.487	103.102	8.512	1.00	55.16	Al
ATOM	29660	C5' GUA	488	173.783	104.783	17.042	1.00	65.33	Al6S	ATOM	29713	O2 CYT	490	166.167	102.733	7.379	1.00	55.16	Al
ATOM	29661	C4' GUA	488	173.991	105.372	15.668	1.00	65.33	Al6S	ATOM	29714	N3 CYT	490	166.951	102.229	9.433	1.00	55.16	Al
ATOM	29662	O4' GUA	488	174.821	104.486	14.877	1.00	65.33	Al6S	ATOM	29715	C4 CYT	490	167.318	102.663	10.636	1.00	55.16	Al
ATOM	29663	C1' GUA	488	174.508	104.650	13.506	1.00	65.33	Al6S	ATOM	29716	N4 CYT	490	167.749	101.762	11.521	1.00	55.16	Al
ATOM	29664	N9 GUA	488	174.210	103.348	12.910	1.00	47.96	Al6S	ATOM	29717	C5 CYT	490	167.255	104.042	10.990	1.00	55.16	Al
ATOM	29665	C4 GUA	488	174.011	103.094	11.569	1.00	47.96	Al6S	ATOM	29718	C2' CYT	490	164.266	105.487	7.969	1.00	51.36	Al
ATOM	29666	N3 GUA	488	174.089	103.999	10.566	1.00	47.96	Al6S	ATOM	29719	O2' CYT	490	163.755	105.600	6.655	1.00	51.36	Al
ATOM	29667	C2 GUA	488	173.810	103.462	9.383	1.00	47.96	Al6S	ATOM	29720	C3' CYT	490	164.087	106.754	8.802	1.00	51.36	Al
ATOM	29668	N2 GUA	488	173.829	104.228	8.281	1.00	47.96	Al6S	ATOM	29721	O3' CYT	490	162.833	107.397	8.570	1.00	51.36	Al
ATOM	29669	N1 GUA	488	173.488	102.139	9.200	1.00	47.96	Al6S	ATOM	29722	P	491	161.646	107.277	9.662	1.00	55.05	Al
ATOM	29670	C6 GUA	488	173.406	101.186	10.215	1.00	47.96	Al6S	ATOM	29723	O1P CYT	491	161.171	105.867	9.676	1.00	50.35	Al
ATOM	29671	O6 GUA	488	173.702	101.753	9.940	1.00	47.96	Al6S	ATOM	29724	O2P CYT	491	160.674	108.374	9.423	1.00	50.35	Al
ATOM	29672	C5 GUA	488	173.740	101.166	12.751	1.00	47.96	Al6S	ATOM	29725	O5' CYT	491	162.374	107.546	11.049	1.00	55.05	Al
ATOM	29673	N7 GUA	488	173.409	102.145	13.558	1.00	47.96	Al6S	ATOM	29726	C5' CYT	491	161.625	107.712	12.258	1.00	55.05	Al
ATOM	29674	C8 GUA	488	174.049	102.145	13.558	1.00	47.96	Al6S	ATOM	29727	C4' CYT	491	162.415	107.182	13.423	1.00	55.05	Al
ATOM	29675	O2' GUA	488	173.354	105.651	13.399	1.00	65.33	Al6S	ATOM	29728	O4' CYT	491	162.355	105.736	13.435	1.00	55.05	Al
ATOM	29676	C2' GUA	488	173.898	106.911	13.069	1.00	65.33	Al6S	ATOM	29729	C1' CYT	491	163.660	105.209	13.484	1.00	55.05	Al
ATOM	29677	C3' GUA	488	172.757	105.614	14.806	1.00	65.33	Al6S	ATOM	29730	N1 CYT	491	163.698	103.970	12.691	1.00	50.35	Al
ATOM	29678	O3' GUA	488	172.134	106.863	15.147	1.00	65.33	Al6S	ATOM	29731	C6 CYT	491	163.274	103.944	11.391	1.00	50.35	Al
ATOM	29679	P GUA	489	170.548	107.082	14.914	1.00	48.08	Al6S	ATOM	29732	C2 CYT	491	164.177	102.808	13.295	1.00	50.35	Al
ATOM	29680	O1P GUA	489	170.195	108.389	15.542	1.00	49.94	Al6S	ATOM	29733	O2 CYT	491	164.569	102.861	14.469	1.00	50.35	Al
ATOM	29681	O2P GUA	489	169.818	105.853	15.320	1.00	49.94	Al6S	ATOM	29734	N3 CYT	491	164.209	101.656	12.589	1.00	50.35	Al
ATOM	29682	O5' GUA	489	170.406	107.288	13.346	1.00	48.08	Al6S	ATOM	29735	C4 CYT	491	163.800	101.641	11.324	1.00	50.35	Al
ATOM	29683	C5' GUA	489	170.809	108.524	12.747	1.00	48.08	Al6S	ATOM	29736	N4 CYT	491	163.865	100.483	10.661	1.00	50.35	Al
ATOM	29684	C4' GUA	489	170.599	108.468	11.463	1.00	48.08	Al6S	ATOM	29737	C5 CYT	491	163.310	102.812	10.677	1.00	50.35	Al
ATOM	29685	O4' GUA	489	171.456	107.438	10.712	1.00	48.08	Al6S	ATOM	29738	C2' CYT	491	164.594	106.295	12.968	1.00	55.05	Al
ATOM	29686	C1' GUA	489	170.783	106.756	9.670	1.00	48.08	Al6S	ATOM	29739	O2' CYT	491	165.870	106.099	13.539	1.00	55.05	Al
ATOM	29687	N9 GUA	489	170.690	105.341	10.036	1.00	49.94	Al6S	ATOM	29740	C3' CYT	491	163.893	107.566	13.442	1.00	55.05	Al
ATOM	29688	C4 GUA	489	170.386	104.300	9.195	1.00	49.94	Al6S	ATOM	29741	O3' CYT	491	164.283	107.872	14.771	1.00	55.05	Al
ATOM	29689	N3 GUA	489	170.089	104.406	7.887	1.00	49.94	Al6S	ATOM	29742	P	492	163.844	109.272	15.428	1.00	42.38	Al
ATOM	29690	C2 GUA	489	169.854	103.232	7.340	1.00	49.94	Al6S	ATOM	29743	O1P ADE	492	163.407	110.205	14.359	1.00	50.94	Al
ATOM	29691	N2 GUA	489	169.528	103.160	6.049	1.00	49.94	Al6S	ATOM	29744	O2P ADE	492	164.956	109.666	16.326	1.00	50.94	Al
ATOM	29692	N1 GUA	489	169.920	102.043	8.019	1.00	49.94	Al6S	ATOM	29745	O5' ADE	492	162.550	108.873	16.276	1.00	42.38	Al
ATOM	29693	C6 GUA	489	170.234	101.908	9.366	1.00	49.94	Al6S	ATOM	29746	C5' ADE	492	162.016	109.750	17.283	1.00	42.38	Al
ATOM	29694	O6 GUA	489	170.292	100.781	9.878	1.00	49.94	Al6S	ATOM	29747	C4' ADE	492	162.163	109.130	18.659	1.00	42.38	Al
ATOM	29695	C5 GUA	489	170.467	103.165	9.971	1.00	49.94	Al6S	ATOM	29748	O4' ADE	492	161.207	108.043	18.835	1.00	42.38	Al
ATOM	29696	N7 GUA	489	170.792	103.483	11.280	1.00	49.94	Al6S	ATOM	29749	C1' ADE	492	161.797	106.980	19.570	1.00	42.38	Al
ATOM	29697	C8 GUA	489	170.909	104.782	11.275	1.00	49.94	Al6S	ATOM	29750	N9 ADE	492	161.992	105.852	18.650	1.00	50.94	Al
ATOM	29698	C2' GUA	489	169.433	107.447	9.464	1.00	48.08	Al6S	ATOM	29751	C4 ADE	492	161.994	104.503	18.935	1.00	50.94	Al

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ATOM	29752	N3 ADE	492	161.769	103.908	20.118	1.00	50.94	A16S	ATOM	29805	O3' CYT	494	175.005	109.730	24.912	1.00	50.88	A1'
ATOM	29753	N2 ADE	492	161.883	102.586	20.012	1.00	50.94	A16S	ATOM	29806	P	495	176.254	110.676	24.592	1.00	60.51	A1'
ATOM	29754	N1 ADE	492	162.179	101.850	18.943	1.00	50.94	A16S	ATOM	29807	O1P URI	495	175.781	112.081	24.758	1.00	61.56	A1'
ATOM	29755	C6 ADE	492	162.402	102.478	17.775	1.00	50.94	A16S	ATOM	29808	O2P URI	495	176.906	110.261	23.320	1.00	61.56	A1'
ATOM	29756	N6 ADE	492	162.712	101.749	16.713	1.00	50.94	A16S	ATOM	29809	O5' URI	495	177.248	110.336	25.790	1.00	60.51	A1'
ATOM	29757	C5 ADE	492	162.302	103.869	17.749	1.00	50.94	A16S	ATOM	29810	C5' URI	495	178.144	109.201	25.734	1.00	60.51	A1'
ATOM	29758	N7 ADE	492	162.458	104.789	16.727	1.00	50.94	A16S	ATOM	29811	C4' URI	495	178.259	108.558	27.100	1.00	60.51	A1'
ATOM	29759	C8 ADE	492	162.257	105.944	17.308	1.00	50.94	A16S	ATOM	29812	O4' URI	495	177.084	107.737	27.340	1.00	60.51	A1'
ATOM	29760	C2' ADE	492	163.148	107.493	20.064	1.00	42.38	A16S	ATOM	29813	C1' URI	495	177.450	106.574	28.065	1.00	60.51	A1'
ATOM	29761	O2' ADE	492	162.981	108.038	21.351	1.00	42.38	A16S	ATOM	29814	N1 URI	495	177.144	105.385	27.251	1.00	61.56	A1'
ATOM	29762	C3' ADE	492	163.502	108.489	18.962	1.00	42.38	A16S	ATOM	29815	C6 URI	495	176.992	105.461	25.882	1.00	61.56	A1'
ATOM	29763	O3' ADE	492	164.596	109.421	19.049	1.00	42.38	A16S	ATOM	29816	C2 URI	495	177.022	104.170	27.905	1.00	61.56	A1'
ATOM	29764	P	493	165.012	110.112	20.426	1.00	47.11	A16S	ATOM	29817	O2 URI	495	177.143	104.051	29.112	1.00	61.56	A1'
ATOM	29765	O1P ADE	493	163.764	110.612	21.042	1.00	68.56	A16S	ATOM	29818	N3 URI	495	176.751	103.096	27.094	1.00	61.56	A1'
ATOM	29766	O2P ADE	493	166.094	111.063	20.094	1.00	68.56	A16S	ATOM	29819	C4 URI	495	176.579	103.106	25.727	1.00	61.56	A1'
ATOM	29767	O5' ADE	493	165.647	108.961	21.316	1.00	47.11	A16S	ATOM	29820	O4 URI	495	176.237	102.074	25.158	1.00	61.56	A1'
ATOM	29768	C5' ADE	493	165.612	109.060	22.749	1.00	47.11	A16S	ATOM	29821	C5 URI	495	176.723	104.392	25.119	1.00	61.56	A1'
ATOM	29769	C4' ADE	493	166.099	107.780	23.361	1.00	47.11	A16S	ATOM	29822	C2' URI	495	178.940	106.680	28.388	1.00	60.51	A1'
ATOM	29770	O4' ADE	493	165.355	106.683	22.781	1.00	47.11	A16S	ATOM	29823	O2' URI	495	179.108	107.254	29.667	1.00	60.51	A1'
ATOM	29771	C1' ADE	493	166.214	105.582	22.588	1.00	47.11	A16S	ATOM	29824	C3' URI	495	179.430	107.600	27.279	1.00	60.51	A1'
ATOM	29772	N9 ADE	493	166.218	105.258	21.167	1.00	68.56	A16S	ATOM	29825	O3' URI	495	180.634	108.283	27.645	1.00	60.51	A1'
ATOM	29773	C4 ADE	493	165.826	104.058	20.639	1.00	68.56	A16S	ATOM	29826	P	496	182.056	107.744	27.110	1.00	63.41	A1'
ATOM	29774	N3 ADE	493	165.368	102.992	21.312	1.00	68.56	A16S	ATOM	29827	O1P CYT	496	183.048	108.822	27.369	1.00	86.44	A1'
ATOM	29775	C2 ADE	493	165.092	102.002	20.481	1.00	68.56	A16S	ATOM	29828	O2P CYT	496	181.877	107.232	25.723	1.00	86.44	A1'
ATOM	29776	N1 ADE	493	165.681	103.037	18.504	1.00	68.56	A16S	ATOM	29829	O5' CYT	496	182.384	106.508	28.065	1.00	63.41	A1'
ATOM	29777	C6 ADE	493	165.817	102.972	17.176	1.00	68.56	A16S	ATOM	29830	C5' CYT	496	182.796	106.722	29.429	1.00	63.41	A1'
ATOM	29778	N6 ADE	493	166.005	104.167	19.275	1.00	68.56	A16S	ATOM	29831	C4' CYT	496	182.991	105.402	30.147	1.00	63.41	A1'
ATOM	29779	C5 ADE	493	166.494	105.426	18.943	1.00	68.56	A16S	ATOM	29832	O4' CYT	496	181.725	104.700	30.237	1.00	63.41	A1'
ATOM	29780	N7 ADE	493	166.600	106.033	20.098	1.00	68.56	A16S	ATOM	29833	C1' CYT	496	181.952	103.299	30.186	1.00	63.41	A1'
ATOM	29781	C8 ADE	493	167.596	105.949	23.130	1.00	47.11	A16S	ATOM	29834	N1 CYT	496	181.204	102.731	29.043	1.00	86.44	A1'
ATOM	29782	O2' ADE	493	167.707	105.479	24.455	1.00	47.11	A16S	ATOM	29835	C6 CYT	496	180.840	103.513	27.981	1.00	86.44	A1'
ATOM	29783	O2' ADE	493	167.557	107.467	23.068	1.00	47.11	A16S	ATOM	29836	C2 CYT	496	180.867	101.364	29.063	1.00	86.44	A1'
ATOM	29784	C3' ADE	493	168.387	108.033	24.070	1.00	47.11	A16S	ATOM	29837	O2 CYT	496	181.206	100.668	30.032	1.00	86.44	A1'
ATOM	29785	O3' ADE	493	168.986	109.512	23.875	1.00	50.88	A16S	ATOM	29838	N3 CYT	496	180.181	100.841	28.028	1.00	86.44	A1'
ATOM	29786	P	494	168.228	110.434	24.773	1.00	49.14	A16S	ATOM	29839	C4 CYT	496	179.826	101.616	27.004	1.00	86.44	A1'
ATOM	29787	O1P CYT	494	169.103	109.828	22.420	1.00	49.14	A16S	ATOM	29840	N4 CYT	496	179.141	101.054	26.010	1.00	86.44	A1'
ATOM	29788	O2P CYT	494	170.441	109.375	24.488	1.00	50.88	A16S	ATOM	29841	C5 CYT	496	180.157	103.003	26.953	1.00	86.44	A1'
ATOM	29789	O5' CYT	494	171.605	109.463	23.469	1.00	50.88	A16S	ATOM	29842	C2' CYT	496	183.461	103.071	30.090	1.00	63.41	A1'
ATOM	29790	C5' CYT	494	172.797	109.141	24.503	1.00	50.88	A16S	ATOM	29843	O2' CYT	496	183.983	102.834	31.381	1.00	63.41	A1'
ATOM	29791	C4' CYT	494	172.666	107.784	24.987	1.00	50.88	A16S	ATOM	29844	C3' CYT	496	183.940	104.397	29.514	1.00	63.41	A1'
ATOM	29792	O4' CYT	494	173.818	107.110	24.775	1.00	50.88	A16S	ATOM	29845	O3' CYT	496	185.290	104.635	29.863	1.00	63.41	A1'
ATOM	29793	C1' CYT	494	173.619	105.672	24.705	1.00	49.14	A16S	ATOM	29846	P	497	186.459	103.929	29.015	1.00	75.90	A1'
ATOM	29794	N1 CYT	494	173.284	105.057	23.536	1.00	49.14	A16S	ATOM	29847	O1P CYT	497	187.743	104.302	29.667	1.00	75.90	A1'
ATOM	29795	C6 CYT	494	173.228	105.057	23.536	1.00	49.14	A16S	ATOM	29848	O2P CYT	497	186.256	104.239	27.576	1.00	75.90	A1'
ATOM	29796	C2' CYT	494	173.715	104.938	25.885	1.00	49.14	A16S	ATOM	29849	O5' CYT	497	186.198	102.369	29.228	1.00	75.90	A1'
ATOM	29797	O2 CYT	494	174.037	105.528	26.935	1.00	49.14	A16S	ATOM	29850	C5' CYT	497	186.444	101.749	30.504	1.00	75.90	A1'
ATOM	29798	N3 CYT	494	173.462	103.613	25.862	1.00	49.14	A16S	ATOM	29851	C4' CYT	497	186.085	100.279	30.472	1.00	75.90	A1'
ATOM	29799	C4 CYT	494	173.129	103.021	24.723	1.00	49.14	A16S	ATOM	29852	O4' CYT	497	184.661	100.121	30.246	1.00	75.90	A1'
ATOM	29800	N4 CYT	494	172.889	101.715	24.751	1.00	49.14	A16S	ATOM	29853	C1' CYT	497	184.427	98.947	29.481	1.00	75.90	A1'
ATOM	29801	C5 CYT	494	173.030	103.743	23.502	1.00	49.14	A16S	ATOM	29854	N1 CYT	497	183.818	99.333	28.193	1.00	75.90	A1'
ATOM	29802	C2' CYT	494	174.528	107.791	23.580	1.00	50.88	A16S	ATOM	29855	C6 CYT	497	183.951	100.602	27.703	1.00	75.90	A1'
ATOM	29803	O2' CYT	494	175.913	107.520	23.606	1.00	50.88	A16S	ATOM	29856	C2 CYT	497	183.113	98.369	27.465	1.00	75.90	A1'
ATOM	29804	C3' CYT	494	174.173	109.249	23.865	1.00	50.88	A16S	ATOM	29857	O2 CYT	497	182.997	97.229	27.933	1.00	75.90	A1'

ATOM	29858	N3	CYT	497	182.580	98.705	26.271	1.00	75.90	A16S	ATOM	29911	O2P	GUA	500	192.772	92.515	21.417	1.00	72.92	A16
ATOM	29859	CA	CYT	497	182.731	99.942	25.797	1.00	75.90	A16S	ATOM	29912	O5	GUA	500	192.040	92.573	19.048	1.00	77.44	A16
ATOM	29860	N4	CYT	497	182.702	100.226	24.603	1.00	75.90	A16S	ATOM	29913	C5	GUA	500	191.402	92.072	17.863	1.00	77.44	A16
ATOM	29861	C5	CYT	497	183.431	100.944	26.522	1.00	75.90	A16S	ATOM	29914	C4	GUA	500	191.203	93.191	16.876	1.00	77.44	A16
ATOM	29862	C2	CYT	497	185.777	98.266	29.258	1.00	75.90	A16S	ATOM	29915	O1	GUA	500	190.626	94.319	17.584	1.00	77.44	A16
ATOM	29863	C2	CYT	497	185.982	97.282	30.248	1.00	75.90	A16S	ATOM	29916	C1	GUA	500	191.436	95.458	17.411	1.00	77.44	A16
ATOM	29864	O3	CYT	497	186.732	99.442	29.383	1.00	75.90	A16S	ATOM	29917	N9	GUA	500	191.410	96.222	18.651	1.00	72.92	A16
ATOM	29865	O3	CYT	497	188.039	99.024	29.717	1.00	75.90	A16S	ATOM	29918	C4	GUA	500	190.855	97.464	18.819	1.00	72.92	A16
ATOM	29866	P	GUA	498	189.109	98.777	28.544	1.00	67.61	A16S	ATOM	29919	N3	GUA	500	190.257	98.195	17.859	1.00	72.92	A16
ATOM	29867	O2P	GUA	498	190.433	98.597	29.199	1.00	82.41	A16S	ATOM	29920	C2	GUA	500	189.813	99.347	18.322	1.00	72.92	A16
ATOM	29868	O2P	GUA	498	188.944	99.840	27.508	1.00	82.41	A16S	ATOM	29921	N2	GUA	500	189.207	100.201	17.489	1.00	72.92	A16
ATOM	29869	O5	GUA	498	188.658	97.379	27.920	1.00	67.61	A16S	ATOM	29922	N1	GUA	500	189.933	99.746	19.634	1.00	72.92	A16
ATOM	29870	C5	GUA	498	188.679	96.178	28.708	1.00	67.61	A16S	ATOM	29923	C6	GUA	500	190.539	99.004	20.644	1.00	72.92	A16
ATOM	29871	C4	GUA	498	188.024	95.046	27.956	1.00	67.61	A16S	ATOM	29924	O6	GUA	500	190.582	99.448	21.801	1.00	72.92	A16
ATOM	29872	O4	GUA	498	186.632	95.376	27.726	1.00	67.61	A16S	ATOM	29925	C5	GUA	500	191.037	97.770	20.151	1.00	72.92	A16
ATOM	29873	N1	GUA	498	186.212	94.841	26.483	1.00	67.61	A16S	ATOM	29926	N7	GUA	500	191.706	96.746	20.804	1.00	72.92	A16
ATOM	29874	N9	GUA	498	185.853	95.939	25.594	1.00	82.41	A16S	ATOM	29927	C8	GUA	500	191.909	95.850	19.876	1.00	72.92	A16
ATOM	29875	C4	GUA	498	185.160	95.819	24.420	1.00	82.41	A16S	ATOM	29928	O2	GUA	500	192.817	94.951	17.005	1.00	77.44	A16
ATOM	29876	N3	GUA	498	184.568	94.673	23.912	1.00	82.41	A16S	ATOM	29929	C2	GUA	500	193.944	92.667	14.054	1.00	98.02	A16
ATOM	29877	C2	GUA	498	184.070	94.867	22.756	1.00	82.41	A16S	ATOM	29930	O3	GUA	500	193.305	94.831	12.835	1.00	98.02	A16
ATOM	29878	N2	GUA	498	183.531	93.827	22.113	1.00	82.41	A16S	ATOM	29931	O3	GUA	500	191.824	92.821	12.750	1.00	73.88	A16
ATOM	29879	N1	GUA	498	183.960	96.093	22.146	1.00	82.41	A16S	ATOM	29932	P	CYT	501	190.230	93.001	10.932	1.00	73.88	A16
ATOM	29880	C6	GUA	498	184.464	97.288	22.650	1.00	82.41	A16S	ATOM	29933	O1P	CYT	501	189.142	93.846	10.501	1.00	73.88	A16
ATOM	29881	O6	GUA	498	184.322	98.344	22.013	1.00	82.41	A16S	ATOM	29934	O2P	CYT	501	189.244	94.089	9.110	1.00	73.88	A16
ATOM	29882	C5	GUA	498	185.108	97.091	23.892	1.00	82.41	A16S	ATOM	29935	O5	CYT	501	188.861	95.491	8.830	1.00	98.02	A16
ATOM	29883	N7	GUA	498	185.743	97.998	24.728	1.00	82.41	A16S	ATOM	29936	C5	CYT	501	188.977	96.456	7.993	1.00	98.02	A16
ATOM	29884	C8	GUA	498	186.161	97.273	25.728	1.00	82.41	A16S	ATOM	29937	C4	CYT	501	188.360	95.821	7.555	1.00	98.02	A16
ATOM	29885	C2	GUA	498	187.388	94.073	25.886	1.00	67.61	A16S	ATOM	29938	O4	CYT	501	188.259	94.934	6.690	1.00	98.02	A16
ATOM	29886	O2	GUA	498	187.256	92.702	26.186	1.00	67.61	A16S	ATOM	29939	C1	CYT	501	187.999	97.098	7.302	1.00	98.02	A16
ATOM	29887	C3	GUA	498	188.573	94.744	26.568	1.00	67.61	A16S	ATOM	29940	N1	CYT	501	188.119	98.028	8.253	1.00	98.02	A16
ATOM	29888	O3	GUA	498	189.714	93.895	26.588	1.00	67.61	A16S	ATOM	29941	C6	CYT	501	187.756	99.277	7.955	1.00	98.02	A16
ATOM	29889	P	GUA	499	190.918	94.163	25.554	1.00	78.60	A16S	ATOM	29942	C2	CYT	501	188.618	97.722	9.551	1.00	98.02	A16
ATOM	29890	O1P	URI	499	192.046	93.272	25.910	1.00	79.35	A16S	ATOM	29943	O2	CYT	501	190.621	93.633	8.610	1.00	73.88	A16
ATOM	29891	O2P	URI	499	191.135	95.632	25.475	1.00	79.35	A16S	ATOM	29944	N3	CYT	501	190.527	92.657	7.598	1.00	73.88	A16
ATOM	29892	O5	URI	499	190.354	93.695	24.140	1.00	78.60	A16S	ATOM	29945	C4	CYT	501	191.330	93.198	9.893	1.00	73.88	A16
ATOM	29893	C5	URI	499	189.806	92.377	23.936	1.00	78.60	A16S	ATOM	29946	N4	CYT	501	192.186	92.034	9.762	1.00	73.88	A16
ATOM	29894	C4	URI	499	189.049	92.338	22.628	1.00	78.60	A16S	ATOM	29947	C5	CYT	501	191.558	90.556	9.481	1.00	54.05	A16
ATOM	29895	O4	URI	499	187.956	93.290	22.683	1.00	78.60	A16S	ATOM	29948	C2	CYT	501	192.619	89.739	8.846	1.00	69.23	A16
ATOM	29896	C1	URI	499	187.739	93.843	21.398	1.00	78.60	A16S	ATOM	29949	O2	CYT	501	190.240	90.652	8.826	1.00	69.23	A16
ATOM	29897	N6	URI	499	187.672	95.313	21.494	1.00	79.35	A16S	ATOM	29950	C3	CYT	501	191.313	89.955	10.941	1.00	54.05	A16
ATOM	29898	C1	URI	499	188.139	95.992	22.599	1.00	79.35	A16S	ATOM	29951	O3	CYT	501	190.157	89.135	11.239	1.00	54.05	A16
ATOM	29899	C2	URI	499	187.099	96.004	20.431	1.00	79.35	A16S	ATOM	29952	P	CYT	502	190.125	88.816	12.713	1.00	54.05	A16
ATOM	29900	O2	URI	499	186.705	95.456	19.411	1.00	79.35	A16S	ATOM	29953	O1P	CYT	502	190.126	90.049	13.460	1.00	54.05	A16
ATOM	29901	N3	URI	499	187.012	97.366	20.602	1.00	79.35	A16S	ATOM	29954	O2P	CYT	502	190.663	89.780	14.764	1.00	54.05	A16
ATOM	29902	C4	URI	499	187.438	98.099	21.688	1.00	79.35	A16S	ATOM	29955	O5	CYT	502	188.915	90.937	15.303	1.00	69.23	A16
ATOM	29903	O4	URI	499	187.220	99.312	21.721	1.00	79.35	A16S	ATOM	29956	C5	CYT	502	188.608	92.019	14.524	1.00	69.23	A16
ATOM	29904	C5	URI	499	188.046	97.324	22.727	1.00	79.35	A16S	ATOM	29957	C4	CYT	502	188.543	90.918	16.657	1.00	69.23	A16
ATOM	29905	O2	URI	499	188.783	93.264	20.440	1.00	78.60	A16S	ATOM	29958	O4	CYT	502	188.808	89.912	17.342	1.00	69.23	A16
ATOM	29906	C2	URI	499	188.189	92.219	19.698	1.00	78.60	A16S	ATOM	29959	C1	CYT	502						
ATOM	29907	C3	URI	499	189.850	92.746	21.399	1.00	78.60	A16S	ATOM	29960	N1	CYT	502						
ATOM	29908	O3	URI	499	190.509	91.616	20.843	1.00	78.60	A16S	ATOM	29961	C6	CYT	502						
ATOM	29909	P	GUA	500	192.046	91.724	20.395	1.00	77.44	A16S	ATOM	29962	C2	CYT	502						
ATOM	29910	O1P	GUA	500	192.486	90.340	20.071	1.00	72.92	A16S	ATOM	29963	O2	CYT	502						

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ATOM	29964	N3' CYT	502	187.907	91.991	17.186	1.00	69.23	Al6S	ATOM	30017	P	CYT	505	177.215	87.372	13.834	1.00	54.59	Al6
ATOM	29965	C4' CYT	502	187.634	93.049	16.423	1.00	69.23	Al6S	ATOM	30018	O1P	CYT	505	176.013	86.666	14.376	1.00	61.95	Al6
ATOM	29966	N4' CYT	502	187.025	94.091	16.997	1.00	69.23	Al6S	ATOM	30019	O2P	CYT	505	177.782	86.956	12.534	1.00	61.95	Al6
ATOM	29967	C5' CYT	502	187.978	93.088	15.039	1.00	69.23	Al6S	ATOM	30020	O5' CYT	505	176.917	88.934	13.735	1.00	54.59	Al6	
ATOM	29968	C2' CYT	502	188.962	88.419	14.760	1.00	54.05	Al6S	ATOM	30021	C5' CYT	505	176.509	89.682	14.899	1.00	54.59	Al6	
ATOM	29969	O2' CYT	502	189.774	87.540	15.507	1.00	54.05	Al6S	ATOM	30022	C4' CYT	505	176.077	91.075	14.508	1.00	54.59	Al6	
ATOM	29970	C3' CYT	502	188.925	88.061	13.271	1.00	54.05	Al6S	ATOM	30023	O4' CYT	505	177.222	91.846	14.069	1.00	54.59	Al6	
ATOM	29971	O3' CYT	502	189.117	86.651	13.121	1.00	54.05	Al6S	ATOM	30024	C1' CYT	505	176.816	92.765	13.074	1.00	54.59	Al6	
ATOM	29972	P ADE	503	187.849	85.668	12.934	1.00	51.61	Al6S	ATOM	30025	N1 CYT	505	177.613	92.548	11.856	1.00	61.95	Al6	
ATOM	29973	O2P ADE	503	188.324	84.249	12.972	1.00	66.20	Al6S	ATOM	30026	C6 CYT	505	178.040	91.301	11.489	1.00	61.95	Al6	
ATOM	29974	O2P ADE	503	187.063	86.149	11.765	1.00	66.20	Al6S	ATOM	30027	C2 CYT	505	177.925	93.659	11.068	1.00	61.95	Al6	
ATOM	29975	O5' ADE	503	186.961	85.916	14.230	1.00	51.61	Al6S	ATOM	30028	O2 CYT	505	177.532	94.785	11.436	1.00	61.95	Al6	
ATOM	29976	C5' ADE	503	187.265	85.271	15.468	1.00	51.61	Al6S	ATOM	30029	N3 CYT	505	178.648	93.486	9.933	1.00	61.95	Al6	
ATOM	29977	C4' ADE	503	186.410	85.840	16.563	1.00	51.61	Al6S	ATOM	30030	C4 CYT	505	179.064	92.269	9.589	1.00	61.95	Al6	
ATOM	29978	O4' ADE	503	186.753	87.232	16.787	1.00	51.61	Al6S	ATOM	30031	N4 CYT	505	179.784	92.153	8.477	1.00	61.95	Al6	
ATOM	29979	C1' ADE	503	185.600	87.950	17.193	1.00	51.61	Al6S	ATOM	30032	C5 CYT	505	178.763	91.119	10.374	1.00	61.95	Al6	
ATOM	29980	N9 ADE	503	185.415	89.105	16.310	1.00	66.20	Al6S	ATOM	30033	C2' CYT	505	175.319	92.580	12.836	1.00	54.59	Al6	
ATOM	29981	C4 ADE	503	184.969	90.351	16.689	1.00	66.20	Al6S	ATOM	30034	O2' CYT	505	174.617	93.568	13.561	1.00	54.59	Al6	
ATOM	29982	N3 ADE	503	184.627	90.756	17.926	1.00	66.20	Al6S	ATOM	30035	C3' CYT	505	175.092	91.166	13.356	1.00	54.59	Al6	
ATOM	29983	C2 ADE	503	184.238	92.033	17.914	1.00	66.20	Al6S	ATOM	30036	O3' CYT	505	173.756	90.955	13.786	1.00	54.59	Al6	
ATOM	29984	N1 ADE	503	184.156	92.885	16.884	1.00	66.20	Al6S	ATOM	30037	P ADE	506	172.716	90.230	12.802	1.00	50.37	Al6	
ATOM	29985	C6 ADE	503	184.504	92.445	15.653	1.00	66.20	Al6S	ATOM	30038	O1P ADE	506	171.379	90.277	13.440	1.00	62.20	Al6	
ATOM	29986	N6 ADE	503	184.417	93.293	14.625	1.00	66.20	Al6S	ATOM	30039	O2P ADE	506	173.284	88.922	12.394	1.00	62.20	Al6	
ATOM	29987	C5 ADE	503	184.940	91.111	15.533	1.00	66.20	Al6S	ATOM	30040	O5' ADE	506	172.687	91.189	11.537	1.00	50.37	Al6	
ATOM	29988	N7 ADE	503	185.366	90.364	14.445	1.00	66.20	Al6S	ATOM	30041	C5' ADE	506	172.274	92.560	11.665	1.00	50.37	Al6	
ATOM	29989	C8 ADE	503	185.636	89.187	14.957	1.00	66.20	Al6S	ATOM	30042	C4' ADE	506	172.393	93.265	10.336	1.00	50.37	Al6	
ATOM	29990	O2' ADE	503	184.429	86.969	17.202	1.00	51.61	Al6S	ATOM	30043	O4' ADE	506	173.784	93.533	10.036	1.00	50.37	Al6	
ATOM	29991	C2' ADE	503	184.266	86.497	18.523	1.00	51.61	Al6S	ATOM	30044	C1' ADE	506	174.018	93.343	8.653	1.00	50.37	Al6	
ATOM	29992	C3' ADE	503	184.928	85.873	16.267	1.00	51.61	Al6S	ATOM	30045	N9 ADE	506	174.959	92.232	8.506	1.00	62.20	Al6	
ATOM	29993	O3' ADE	503	184.326	84.610	16.507	1.00	51.61	Al6S	ATOM	30046	C4 ADE	506	175.880	92.072	7.502	1.00	62.20	Al6	
ATOM	29994	P GUA	504	183.087	84.148	15.598	1.00	63.04	Al6S	ATOM	30047	N3 ADE	506	176.113	92.903	6.472	1.00	62.20	Al6	
ATOM	29995	O1P GUA	504	182.610	82.839	16.076	1.00	51.74	Al6S	ATOM	30048	C2 ADE	506	177.078	92.423	5.694	1.00	62.20	Al6	
ATOM	29996	O2P GUA	504	183.480	84.321	14.172	1.00	51.74	Al6S	ATOM	30049	N1 ADE	506	177.782	91.288	5.813	1.00	62.20	Al6	
ATOM	29997	O5' GUA	504	181.959	85.209	15.949	1.00	63.04	Al6S	ATOM	30050	C6 ADE	506	177.519	90.469	6.853	1.00	62.20	Al6	
ATOM	29998	C5' GUA	504	181.228	85.882	14.921	1.00	63.04	Al6S	ATOM	30051	N6 ADE	506	178.207	89.328	6.955	1.00	62.20	Al6	
ATOM	29999	C4' GUA	504	180.746	87.209	15.435	1.00	63.04	Al6S	ATOM	30052	C5 ADE	506	176.521	90.873	7.764	1.00	62.20	Al6	
ATOM	30000	O4' GUA	504	181.828	88.177	15.393	1.00	63.04	Al6S	ATOM	30053	N7 ADE	506	176.022	90.294	8.923	1.00	62.20	Al6	
ATOM	30001	C1' GUA	504	181.304	89.469	15.122	1.00	63.04	Al6S	ATOM	30054	C8 ADE	506	175.102	91.135	9.323	1.00	62.20	Al6	
ATOM	30002	N9 GUA	504	181.851	89.952	13.856	1.00	51.74	Al6S	ATOM	30055	C2' ADE	506	172.670	93.053	7.991	1.00	50.37	Al6	
ATOM	30003	C4 GUA	504	181.674	91.210	13.332	1.00	51.74	Al6S	ATOM	30056	O2' ADE	506	172.131	94.266	7.510	1.00	50.37	Al6	
ATOM	30004	N3 GUA	504	181.002	92.221	13.918	1.00	51.74	Al6S	ATOM	30057	C3' ADE	506	171.885	92.464	9.153	1.00	50.37	Al6	
ATOM	30005	C2 GUA	504	180.978	93.302	13.162	1.00	51.74	Al6S	ATOM	30058	O3' ADE	506	170.483	92.594	9.036	1.00	50.37	Al6	
ATOM	30006	N2 GUA	504	180.357	94.409	13.598	1.00	51.74	Al6S	ATOM	30059	P GUA	507	169.632	91.454	8.291	1.00	52.62	Al6	
ATOM	30007	N1 GUA	504	181.561	93.384	11.927	1.00	51.74	Al6S	ATOM	30060	O1P GUA	507	168.342	91.310	9.024	1.00	41.76	Al6	
ATOM	30008	C6 GUA	504	182.258	92.361	11.302	1.00	51.74	Al6S	ATOM	30061	O2P GUA	507	170.468	90.254	8.055	1.00	41.76	Al6	
ATOM	30009	O6 GUA	504	182.742	92.550	10.179	1.00	51.74	Al6S	ATOM	30062	O5' GUA	507	169.384	92.125	6.875	1.00	52.62	Al6	
ATOM	30010	C5 GUA	504	182.299	91.190	12.108	1.00	51.74	Al6S	ATOM	30063	C5' GUA	507	168.401	91.628	5.979	1.00	52.62	Al6	
ATOM	30011	N7 GUA	504	182.884	89.954	11.876	1.00	51.74	Al6S	ATOM	30064	C4' GUA	507	167.788	92.778	5.249	1.00	52.62	Al6	
ATOM	30012	C8 GUA	504	182.597	89.254	12.939	1.00	51.74	Al6S	ATOM	30065	O4' GUA	507	166.920	93.491	6.155	1.00	52.62	Al6	
ATOM	30013	C2' GUA	504	179.788	89.329	15.016	1.00	63.04	Al6S	ATOM	30066	C1' GUA	507	166.995	94.880	5.889	1.00	52.62	Al6	
ATOM	30014	O2' GUA	504	179.204	89.633	16.266	1.00	63.04	Al6S	ATOM	30067	N9 GUA	507	167.339	95.587	7.124	1.00	41.76	Al6	
ATOM	30015	C3' GUA	504	179.650	87.864	14.622	1.00	63.04	Al6S	ATOM	30068	C4 GUA	507	167.249	96.948	7.344	1.00	41.76	Al6	
ATOM	30016	O3' GUA	504	178.381	87.310	14.929	1.00	63.04	Al6S	ATOM	30069	N3 GUA	507	166.868	97.874	6.443	1.00	41.76	Al6	

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ATOM	30070	C2' GUA	507	166.848	99.084	6.957	1.00	41.76	A16S	ATOM	30123	O1P GUA	510	178.488	103.155	0.554	1.00	51.36	A16S
ATOM	30071	N2' GUA	507	166.499	100.115	6.196	1.00	41.76	A16S	ATOM	30124	O2P GUA	510	177.728	100.870	-0.370	1.00	51.36	A16S
ATOM	30072	N1' GUA	507	167.166	99.370	8.252	1.00	41.76	A16S	ATOM	30125	O5' GUA	510	177.768	101.295	2.081	1.00	52.08	A16S
ATOM	30073	C6' GUA	507	167.552	98.435	9.206	1.00	41.76	A16S	ATOM	30126	C5' GUA	510	178.728	101.777	3.034	1.00	52.08	A16S
ATOM	30074	O6' GUA	507	167.784	98.796	10.370	1.00	41.76	A16S	ATOM	30127	C4' GUA	510	178.128	101.721	4.411	1.00	52.08	A16S
ATOM	30075	C5' GUA	507	167.600	97.129	8.661	1.00	41.76	A16S	ATOM	30128	O4' GUA	510	177.223	100.592	4.466	1.00	52.08	A16S
ATOM	30076	N7' GUA	507	167.943	95.920	9.252	1.00	41.76	A16S	ATOM	30129	C1' GUA	510	177.255	100.019	5.752	1.00	52.08	A16S
ATOM	30077	C8' GUA	507	167.778	95.037	8.304	1.00	41.76	A16S	ATOM	30130	N9' GUA	510	177.783	98.660	5.639	1.00	51.36	A16S
ATOM	30078	C2' GUA	507	167.958	95.090	4.719	1.00	52.62	A16S	ATOM	30131	C4' GUA	510	177.815	97.729	6.944	1.00	51.36	A16S
ATOM	30079	O2' GUA	507	167.180	95.207	3.544	1.00	52.62	A16S	ATOM	30132	N3' GUA	510	177.377	97.919	7.904	1.00	51.36	A16S
ATOM	30080	C3' GUA	507	168.793	93.814	4.769	1.00	52.62	A16S	ATOM	30133	C2' GUA	510	177.547	96.851	8.651	1.00	51.36	A16S
ATOM	30081	O3' GUA	507	169.334	93.436	3.504	1.00	52.62	A16S	ATOM	30134	N2' GUA	510	177.189	96.881	9.936	1.00	51.36	A16S
ATOM	30082	P' GUA	508	170.849	93.835	3.115	1.00	52.14	A16S	ATOM	30135	N1' GUA	510	178.087	95.681	8.194	1.00	51.36	A16S
ATOM	30083	O1P GUA	508	171.222	93.000	1.940	1.00	45.71	A16S	ATOM	30136	C6' GUA	510	178.544	95.460	6.899	1.00	51.36	A16S
ATOM	30084	O2P GUA	508	171.724	93.838	4.322	1.00	45.71	A16S	ATOM	30137	O6' GUA	510	179.014	94.360	6.594	1.00	51.36	A16S
ATOM	30085	O5' GUA	508	170.716	95.323	2.589	1.00	52.14	A16S	ATOM	30138	C5' GUA	510	178.385	96.608	6.090	1.00	51.36	A16S
ATOM	30086	C5' GUA	508	169.979	95.610	1.403	1.00	52.14	A16S	ATOM	30139	N7' GUA	510	178.720	96.829	4.763	1.00	51.36	A16S
ATOM	30087	C4' GUA	508	169.849	97.091	1.249	1.00	52.14	A16S	ATOM	30140	C8' GUA	510	178.342	98.057	4.536	1.00	51.36	A16S
ATOM	30088	O4' GUA	508	169.043	97.593	2.338	1.00	52.14	A16S	ATOM	30141	C2' GUA	510	178.143	100.908	6.616	1.00	52.08	A16S
ATOM	30089	C1' GUA	508	169.580	98.818	2.807	1.00	52.14	A16S	ATOM	30142	O2' GUA	510	177.338	101.917	7.180	1.00	52.08	A16S
ATOM	30090	N1' GUA	508	169.924	98.674	4.239	1.00	45.71	A16S	ATOM	30143	C3' GUA	510	179.075	101.504	5.577	1.00	52.08	A16S
ATOM	30091	C6' GUA	508	170.178	97.449	4.784	1.00	45.71	A16S	ATOM	30144	P' GUA	511	181.166	102.639	6.688	1.00	58.33	A16S
ATOM	30092	C2' GUA	508	169.976	99.819	5.035	1.00	45.71	A16S	ATOM	30145	O1P GUA	511	181.473	104.032	7.127	1.00	40.35	A16S
ATOM	30093	O2' GUA	508	169.748	100.921	4.518	1.00	45.71	A16S	ATOM	30147	O2P GUA	511	182.089	101.945	5.744	1.00	40.35	A16S
ATOM	30094	N3' GUA	508	170.272	99.700	6.345	1.00	45.71	A16S	ATOM	30148	O5' GUA	511	181.005	101.717	7.979	1.00	58.33	A16S
ATOM	30095	C4' GUA	508	170.516	98.501	8.866	1.00	45.71	A16S	ATOM	30149	C5' GUA	511	180.321	102.216	9.121	1.00	58.33	A16S
ATOM	30096	N4' GUA	508	170.811	98.432	6.164	1.00	45.71	A16S	ATOM	30150	C4' GUA	511	180.441	101.268	10.283	1.00	58.33	A16S
ATOM	30097	C5' GUA	508	170.472	97.318	6.081	1.00	45.71	A16S	ATOM	30151	O4' GUA	511	179.756	100.026	9.996	1.00	58.33	A16S
ATOM	30098	C2' GUA	508	170.766	99.180	1.913	1.00	52.14	A16S	ATOM	30152	C1' GUA	511	180.220	99.032	10.892	1.00	58.33	A16S
ATOM	30099	O2' GUA	508	170.328	100.036	0.879	1.00	52.14	A16S	ATOM	30153	N1' GUA	511	180.632	97.832	10.152	1.00	40.35	A16S
ATOM	30100	C3' GUA	508	171.175	97.816	1.387	1.00	52.14	A16S	ATOM	30154	C6' GUA	511	181.058	97.898	8.854	1.00	40.35	A16S
ATOM	30101	O3' GUA	508	171.871	97.877	0.153	1.00	52.14	A16S	ATOM	30155	C2' GUA	511	180.625	96.605	10.829	1.00	40.35	A16S
ATOM	30102	P' GUA	509	173.474	97.935	0.156	1.00	50.73	A16S	ATOM	30156	O2' GUA	511	180.164	96.557	11.986	1.00	40.35	A16S
ATOM	30103	O1P GUA	509	173.893	97.871	-1.258	1.00	46.24	A16S	ATOM	30157	N3' GUA	511	181.109	95.503	10.207	1.00	40.35	A16S
ATOM	30104	O2P GUA	509	173.801	96.929	1.112	1.00	46.24	A16S	ATOM	30158	C4' GUA	511	181.559	95.586	8.954	1.00	40.35	A16S
ATOM	30105	O5' GUA	509	173.989	96.929	0.760	1.00	50.73	A16S	ATOM	30159	N4' GUA	511	182.049	94.486	8.400	1.00	40.35	A16S
ATOM	30106	C5' GUA	509	173.497	100.581	0.029	1.00	50.73	A16S	ATOM	30160	C5' GUA	511	181.529	96.808	8.222	1.00	40.35	A16S
ATOM	30107	C4' GUA	509	173.761	101.800	0.888	1.00	50.73	A16S	ATOM	30161	C2' GUA	511	181.429	99.611	11.623	1.00	58.33	A16S
ATOM	30108	O4' GUA	509	172.872	101.789	2.080	1.00	50.73	A16S	ATOM	30162	O2' GUA	511	181.058	100.044	12.919	1.00	58.33	A16S
ATOM	30109	C1' GUA	509	173.528	102.342	3.152	1.00	50.73	A16S	ATOM	30163	C3' GUA	511	181.807	100.775	10.721	1.00	58.33	A16S
ATOM	30110	N1' GUA	509	173.552	101.346	4.226	1.00	46.24	A16S	ATOM	30164	O3' GUA	511	182.600	101.697	11.444	1.00	58.33	A16S
ATOM	30111	C6' GUA	509	173.609	100.009	3.952	1.00	46.24	A16S	ATOM	30165	P' GUA	512	184.203	101.550	11.386	1.00	50.12	A16S
ATOM	30112	C2' GUA	509	173.536	101.792	5.550	1.00	46.24	A16S	ATOM	30166	O1P GUA	512	184.778	102.627	12.232	1.00	59.36	A16S
ATOM	30113	O2' GUA	509	173.438	103.005	5.773	1.00	46.24	A16S	ATOM	30167	O2P GUA	512	184.604	101.449	9.957	1.00	59.36	A16S
ATOM	30114	N3' GUA	509	173.617	100.896	6.556	1.00	46.24	A16S	ATOM	30168	O5' GUA	512	184.495	100.139	12.067	1.00	50.12	A16S
ATOM	30115	C4' GUA	509	173.688	99.596	6.281	1.00	46.24	A16S	ATOM	30169	C5' GUA	512	184.399	99.984	13.490	1.00	50.12	A16S
ATOM	30116	N4' GUA	509	173.770	98.752	7.307	1.00	46.24	A16S	ATOM	30170	C4' GUA	512	185.095	98.721	13.944	1.00	50.12	A16S
ATOM	30117	C5' GUA	509	173.677	99.106	4.941	1.00	46.24	A16S	ATOM	30171	O4' GUA	512	184.345	97.561	13.508	1.00	50.12	A16S
ATOM	30118	C5' GUA	509	174.936	102.743	2.729	1.00	50.73	A16S	ATOM	30172	C1' GUA	512	185.231	96.489	13.244	1.00	50.12	A16S
ATOM	30119	O2' GUA	509	174.975	104.121	2.441	1.00	50.73	A16S	ATOM	30173	N9' GUA	512	185.119	96.157	11.829	1.00	59.36	A16S
ATOM	30120	C3' GUA	509	175.147	101.880	1.499	1.00	50.73	A16S	ATOM	30174	C4' GUA	512	185.278	94.921	11.233	1.00	59.36	A16S
ATOM	30121	O3' GUA	509	176.092	102.469	0.621	1.00	50.73	A16S	ATOM	30175	N3' GUA	512	185.502	93.747	11.865	1.00	59.36	A16S
ATOM	30122	P' GUA	510	177.611	101.954	0.644	1.00	52.08	A16S										

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ATOM	29116	O2' ADE	462	105.032	63.623	36.007	1.00109.25	Al6S	ATOM	29169	N3	GUA	465	119.002	69.751	30.077	1.00	97.92	Al'
ATOM	29117	O3' ADE	462	104.958	65.926	36.869	1.00109.25	Al6S	ATOM	29170	C2	GUA	465	118.455	70.866	29.606	1.00	97.92	Al'
ATOM	29118	O3' ADE	462	105.826	65.487	37.900	1.00109.25	Al6S	ATOM	29171	N2	GUA	465	118.299	71.035	28.289	1.00	97.92	Al'
ATOM	29119	P	463	107.355	65.968	37.901	1.00 98.29	Al6S	ATOM	29172	N1	GUA	465	118.033	71.903	30.390	1.00	97.92	Al'
ATOM	29120	O1P	463	107.994	65.480	39.144	1.00 90.48	Al6S	ATOM	29173	C6	GUA	465	118.143	71.952	31.772	1.00	97.92	Al'
ATOM	29121	O2P	463	107.382	67.422	37.577	1.00 90.48	Al6S	ATOM	29174	O6	GUA	465	117.690	72.925	32.388	1.00	97.92	Al'
ATOM	29122	O5'	463	107.989	65.140	36.703	1.00 98.29	Al6S	ATOM	29175	C5	GUA	465	118.781	70.788	32.290	1.00	97.92	Al'
ATOM	29123	C5'	463	107.866	63.709	36.671	1.00 98.29	Al6S	ATOM	29176	N7	GUA	465	119.119	70.453	33.594	1.00	97.92	Al'
ATOM	29124	C4'	463	108.568	63.148	35.460	1.00 98.29	Al6S	ATOM	29177	C8	GUA	465	119.639	69.259	33.504	1.00	97.92	Al'
ATOM	29125	O4'	463	107.817	63.408	34.243	1.00 98.29	Al6S	ATOM	29178	C2'	GUA	465	121.495	67.059	32.126	1.00	81.22	Al'
ATOM	29126	O1'	463	108.717	63.605	33.163	1.00 98.29	Al6S	ATOM	29179	O2'	GUA	465	121.940	66.142	31.149	1.00	81.22	Al'
ATOM	29127	N1	463	108.489	64.943	32.588	1.00 90.48	Al6S	ATOM	29180	C3'	GUA	465	121.350	66.321	33.444	1.00	81.22	Al'
ATOM	29128	C6	463	107.999	65.964	33.355	1.00 90.48	Al6S	ATOM	29181	O3'	GUA	465	122.317	65.310	33.619	1.00	81.22	Al'
ATOM	29129	C2	463	108.790	65.157	31.234	1.00 90.48	Al6S	ATOM	29182	P	ADE	466	123.836	65.711	33.822	1.00	64.20	Al'
ATOM	29130	O2	463	109.246	64.219	30.556	1.00 90.48	Al6S	ATOM	29183	O1P	ADE	466	124.467	64.676	34.680	1.00	83.84	Al'
ATOM	29131	N3	463	108.581	66.381	30.700	1.00 90.48	Al6S	ATOM	29184	O2P	ADE	466	123.845	67.132	34.272	1.00	83.84	Al'
ATOM	29132	C4	463	108.102	67.368	31.459	1.00 90.48	Al6S	ATOM	29185	O5'	ADE	466	124.407	65.619	32.334	1.00	64.20	Al'
ATOM	29133	N4	463	107.915	68.560	30.889	1.00 90.48	Al6S	ATOM	29186	C5'	ADE	466	125.068	64.430	31.842	1.00	64.20	Al'
ATOM	29134	C5	463	107.794	67.178	32.837	1.00 90.48	Al6S	ATOM	29187	C4'	ADE	466	126.074	64.808	30.781	1.00	64.20	Al'
ATOM	29135	C2'	463	110.137	63.447	33.704	1.00 98.29	Al6S	ATOM	29188	O4'	ADE	466	125.380	65.162	29.563	1.00	64.20	Al'
ATOM	29136	O2'	463	110.582	62.137	33.425	1.00 98.29	Al6S	ATOM	29189	N9	ADE	466	125.985	66.300	28.977	1.00	64.20	Al'
ATOM	29137	C3'	463	109.938	63.732	35.190	1.00 98.29	Al6S	ATOM	29190	C1'	ADE	466	124.990	67.373	28.953	1.00	83.84	Al'
ATOM	29138	O3'	463	110.919	63.157	36.034	1.00 98.29	Al6S	ATOM	29191	C4	ADE	466	125.138	68.638	28.440	1.00	83.84	Al'
ATOM	29139	P	464	112.183	64.037	36.476	1.00 84.37	Al6S	ATOM	29192	N3	ADE	466	126.226	69.157	27.849	1.00	83.84	Al'
ATOM	29140	O1P	464	113.043	63.188	37.347	1.00 88.86	Al6S	ATOM	29193	C2	ADE	466	126.001	70.414	27.480	1.00	83.84	Al'
ATOM	29141	O2P	464	111.693	65.353	36.977	1.00 88.86	Al6S	ATOM	29194	N1	ADE	466	124.894	71.157	27.627	1.00	83.84	Al'
ATOM	29142	O5'	464	112.931	64.271	35.087	1.00 84.37	Al6S	ATOM	29195	C6	ADE	466	123.820	70.603	28.229	1.00	83.84	Al'
ATOM	29143	C5'	464	113.233	63.147	34.224	1.00 84.37	Al6S	ATOM	29196	N6	ADE	466	122.714	71.341	28.382	1.00	83.84	Al'
ATOM	29144	C4'	464	113.741	63.614	32.879	1.00 84.37	Al6S	ATOM	29197	C5	ADE	466	123.932	69.275	28.661	1.00	83.84	Al'
ATOM	29145	O4'	464	112.670	64.119	32.041	1.00 84.37	Al6S	ATOM	29198	N7	ADE	466	123.040	68.428	29.293	1.00	83.84	Al'
ATOM	29146	C1'	464	113.181	65.132	31.191	1.00 84.37	Al6S	ATOM	29199	C8	ADE	466	123.713	67.319	29.441	1.00	83.84	Al'
ATOM	29147	N1	464	112.470	66.389	31.458	1.00 88.86	Al6S	ATOM	29200	C2'	ADE	466	127.228	66.648	29.797	1.00	64.20	Al'
ATOM	29148	C6	464	111.995	66.713	32.710	1.00 88.86	Al6S	ATOM	29201	O2'	ADE	466	128.380	66.090	29.203	1.00	64.20	Al'
ATOM	29149	C2	464	112.313	67.251	30.396	1.00 88.86	Al6S	ATOM	29202	C3'	ADE	466	126.895	66.031	31.145	1.00	64.20	Al'
ATOM	29150	O2	464	112.723	66.995	29.280	1.00 88.86	Al6S	ATOM	29203	O3'	ADE	466	128.058	65.665	31.860	1.00	64.20	Al'
ATOM	29151	N3	464	111.666	68.424	30.688	1.00 88.86	Al6S	ATOM	29204	P	CYT	467	128.579	66.601	33.052	1.00	61.05	Al'
ATOM	29152	C4	464	111.170	68.814	31.910	1.00 88.86	Al6S	ATOM	29205	O1P	CYT	467	129.902	66.086	33.504	1.00	71.59	Al'
ATOM	29153	O4	464	110.599	69.900	32.010	1.00 88.86	Al6S	ATOM	29206	O2P	CYT	467	127.467	66.736	34.035	1.00	71.59	Al'
ATOM	29154	C5'	464	111.370	67.866	32.966	1.00 88.86	Al6S	ATOM	29207	O5'	CYT	467	128.796	68.022	32.361	1.00	61.05	Al'
ATOM	29155	C2'	464	114.664	65.297	31.502	1.00 84.37	Al6S	ATOM	29208	C5'	CYT	467	129.731	68.203	31.280	1.00	61.05	Al'
ATOM	29156	O2'	464	115.445	64.531	30.613	1.00 84.37	Al6S	ATOM	29209	C4'	CYT	467	129.595	69.594	30.709	1.00	61.05	Al'
ATOM	29157	C3'	464	114.731	64.752	32.910	1.00 84.37	Al6S	ATOM	29210	O4'	CYT	467	128.272	69.750	30.138	1.00	61.05	Al'
ATOM	29158	O3'	464	116.014	64.333	33.239	1.00 84.37	Al6S	ATOM	29211	C1'	CYT	467	127.801	71.069	30.368	1.00	61.05	Al'
ATOM	29159	P	465	116.860	65.227	34.245	1.00 81.22	Al6S	ATOM	29212	N1	CYT	467	126.547	70.987	31.138	1.00	71.59	Al'
ATOM	29160	O1P	465	116.218	65.168	35.575	1.00 97.92	Al6S	ATOM	29213	C6	CYT	467	126.384	70.940	32.113	1.00	71.59	Al'
ATOM	29161	O2P	465	117.066	66.540	33.592	1.00 97.92	Al6S	ATOM	29214	C2	CYT	467	125.522	71.898	30.861	1.00	71.59	Al'
ATOM	29162	O5'	465	118.247	64.482	34.348	1.00 81.22	Al6S	ATOM	29215	O2	CYT	467	125.692	72.749	29.976	1.00	71.59	Al'
ATOM	29163	C5'	465	119.411	65.233	34.583	1.00 81.22	Al6S	ATOM	29216	N3	CYT	467	124.372	71.829	31.571	1.00	71.59	Al'
ATOM	29164	C4'	465	120.042	65.603	33.272	1.00 81.22	Al6S	ATOM	29217	C4	CYT	467	124.229	70.907	32.527	1.00	71.59	Al'
ATOM	29165	O4'	465	119.218	66.507	32.490	1.00 81.22	Al6S	ATOM	29218	N4	CYT	467	123.085	70.887	33.213	1.00	71.59	Al'
ATOM	29166	C1'	465	120.045	67.431	31.808	1.00 81.22	Al6S	ATOM	29219	C5	CYT	467	125.255	69.967	32.826	1.00	71.59	Al'
ATOM	29167	N9	465	119.646	68.772	32.223	1.00 97.92	Al6S	ATOM	29220	C2'	CYT	467	128.901	71.844	31.095	1.00	61.05	Al'
ATOM	29168	C4	465	119.138	69.783	31.422	1.00 97.92	Al6S	ATOM	29221	O2'	CYT	467	129.638	72.607	30.167	1.00	61.05	Al'

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ATOM	30176	C2' GUA	512	185.638	92.742	11.009	1.00	59.36	Al6S	30229	C3' URI	514	193.754	102.654	18.039	1.00	84.01	Al6E
ATOM	30177	N2' GUA	512	185.824	91.491	11.465	1.00	59.36	Al6S	30230	O3' URI	514	193.290	103.767	18.790	1.00	84.01	Al6E
ATOM	30178	N1' GUA	512	185.592	92.889	9.644	1.00	59.36	Al6S	30231	P ADE	515	192.873	105.135	18.047	1.00	93.81	Al6E
ATOM	30179	C6 GUA	512	185.379	94.092	8.977	1.00	59.36	Al6S	30232	O1P ADE	515	192.207	104.794	16.765	1.00	155.40	Al6E
ATOM	30180	O6 GUA	512	185.395	94.132	7.735	1.00	59.36	Al6S	30233	O2P ADE	515	194.044	106.049	18.044	1.00	155.40	Al6E
ATOM	30181	C5 GUA	512	185.189	95.161	9.881	1.00	59.36	Al6S	30234	O5' ADE	515	191.766	105.718	19.038	1.00	93.81	Al6E
ATOM	30182	N7 GUA	512	184.927	96.500	9.633	1.00	59.36	Al6S	30235	C5' ADE	515	191.701	105.233	20.404	1.00	93.81	Al6E
ATOM	30183	C8 GUA	512	184.885	97.047	10.814	1.00	59.36	Al6S	30236	C4' ADE	515	190.319	105.412	20.998	1.00	93.81	Al6E
ATOM	30184	C2' GUA	512	186.645	96.970	13.588	1.00	50.12	Al6S	30237	O4' ADE	515	190.108	106.783	21.397	1.00	93.81	Al6E
ATOM	30185	O2' GUA	512	186.963	96.583	14.910	1.00	50.12	Al6S	30238	C1' ADE	515	188.719	107.045	21.430	1.00	93.81	Al6E
ATOM	30186	C3' GUA	512	186.961	98.482	13.444	1.00	50.12	Al6S	30239	N9 ADE	515	188.453	108.344	20.801	1.00	155.40	Al6E
ATOM	30187	O3' GUA	512	187.475	99.184	14.226	1.00	50.12	Al6S	30240	C4 ADE	515	187.224	108.955	20.687	1.00	155.40	Al6E
ATOM	30188	P GUA	513	188.576	100.111	13.504	1.00	77.68	Al6S	30241	N3 ADE	515	186.034	108.488	21.111	1.00	155.40	Al6E
ATOM	30189	O1P GUA	513	189.242	100.887	14.576	1.00	79.47	Al6S	30242	C2 ADE	515	185.059	109.351	20.825	1.00	155.40	Al6E
ATOM	30190	O2P GUA	513	187.947	100.832	12.360	1.00	79.47	Al6S	30243	N1 ADE	515	185.130	110.540	20.208	1.00	155.40	Al6E
ATOM	30191	O5' GUA	513	189.637	99.074	12.920	1.00	77.68	Al6S	30244	C6 ADE	515	186.338	110.983	19.793	1.00	155.40	Al6E
ATOM	30192	C5' GUA	513	190.210	98.045	13.755	1.00	77.68	Al6S	30245	N6 ADE	515	186.406	112.166	19.171	1.00	155.40	Al6E
ATOM	30193	O4' GUA	513	191.559	97.612	13.220	1.00	77.68	Al6S	30246	C7 ADE	515	187.459	110.159	20.041	1.00	155.40	Al6E
ATOM	30194	C4' GUA	513	191.409	97.005	11.918	1.00	77.68	Al6S	30247	N5 ADE	515	188.811	110.306	19.757	1.00	155.40	Al6E
ATOM	30195	C1' GUA	513	192.601	97.192	11.181	1.00	77.68	Al6S	30248	C8 ADE	515	189.355	109.208	20.223	1.00	155.40	Al6E
ATOM	30196	N9 GUA	513	192.258	97.551	9.807	1.00	79.47	Al6S	30249	C2' ADE	515	187.975	105.823	20.871	1.00	93.81	Al6E
ATOM	30197	C4 GUA	513	191.785	98.755	9.358	1.00	79.47	Al6S	30250	O2' ADE	515	187.407	105.124	21.960	1.00	93.81	Al6E
ATOM	30198	N3 GUA	513	191.572	99.850	10.114	1.00	79.47	Al6S	30251	C3' ADE	515	189.094	105.040	20.174	1.00	93.81	Al6E
ATOM	30199	C2 GUA	513	191.089	100.853	9.396	1.00	79.47	Al6S	30252	O3' ADE	515	188.923	103.621	20.248	1.00	93.81	Al6E
ATOM	30200	N2 GUA	513	190.810	102.028	9.991	1.00	79.47	Al6S	30253	P ADE	516	187.557	102.918	19.762	1.00	70.43	Al6E
ATOM	30201	N1 GUA	513	190.842	100.780	8.042	1.00	79.47	Al6S	30254	O1P ADE	516	186.578	102.987	20.871	1.00	65.39	Al6E
ATOM	30202	C6 GUA	513	191.055	99.657	7.249	1.00	79.47	Al6S	30255	O2P ADE	516	187.968	101.602	19.257	1.00	65.39	Al6E
ATOM	30203	O6 GUA	513	190.791	99.692	6.044	1.00	79.47	Al6S	30256	O5' ADE	516	187.025	103.776	18.526	1.00	70.43	Al6E
ATOM	30204	C5 GUA	513	191.570	98.582	8.002	1.00	79.47	Al6S	30257	C5' ADE	516	185.922	104.703	18.676	1.00	70.43	Al6E
ATOM	30205	N7 GUA	513	191.917	97.299	7.605	1.00	79.47	Al6S	30258	O4' ADE	516	184.630	104.124	18.114	1.00	70.43	Al6E
ATOM	30206	C8 GUA	513	192.326	96.725	8.703	1.00	79.47	Al6S	30259	O4' ADE	516	184.872	102.825	17.522	1.00	70.43	Al6E
ATOM	30207	C2' GUA	513	193.533	98.129	11.962	1.00	77.68	Al6S	30260	C1' ADE	516	183.705	102.037	17.626	1.00	70.43	Al6E
ATOM	30208	O2' GUA	513	194.586	97.365	12.525	1.00	77.68	Al6S	30261	N9 ADE	516	184.072	100.648	17.910	1.00	65.39	Al6E
ATOM	30209	C3' GUA	513	192.601	98.708	13.028	1.00	77.68	Al6S	30262	C4 ADE	516	183.627	99.537	17.222	1.00	65.39	Al6E
ATOM	30210	O3' GUA	513	193.289	98.888	14.269	1.00	77.68	Al6S	30263	N3 ADE	516	182.759	99.500	16.199	1.00	65.39	Al6E
ATOM	30211	P URI	514	194.173	100.206	14.527	1.00	84.01	Al6S	30264	C2 ADE	516	182.567	98.248	15.785	1.00	65.39	Al6E
ATOM	30212	O1P URI	514	193.676	101.299	13.643	1.00	78.67	Al6S	30265	N1 ADE	516	183.102	97.113	16.233	1.00	65.39	Al6E
ATOM	30213	O2P URI	514	195.600	99.803	14.471	1.00	78.67	Al6S	30266	C6 ADE	516	183.968	97.175	17.236	1.00	65.39	Al6E
ATOM	30214	O5' URI	514	193.854	100.576	16.041	1.00	84.01	Al6S	30267	N6 ADE	516	184.496	96.035	17.696	1.00	65.39	Al6E
ATOM	30215	C5' URI	514	192.552	101.050	16.419	1.00	84.01	Al6S	30268	C5 ADE	516	184.259	98.452	17.797	1.00	65.39	Al6E
ATOM	30216	C4' URI	514	192.597	101.690	17.786	1.00	84.01	Al6S	30269	N7 ADE	516	185.079	98.864	18.841	1.00	65.39	Al6E
ATOM	30217	O4' URI	514	192.661	100.666	18.811	1.00	84.01	Al6S	30270	C8 ADE	516	184.926	100.171	18.870	1.00	65.39	Al6E
ATOM	30218	C1' URI	514	193.728	100.947	19.688	1.00	84.01	Al6S	30271	C2' ADE	516	182.704	102.730	18.557	1.00	70.43	Al6E
ATOM	30219	N6 URI	514	194.274	99.678	20.198	1.00	78.67	Al6S	30272	O2' ADE	516	181.595	103.134	17.793	1.00	70.43	Al6E
ATOM	30220	C6 URI	514	194.963	98.800	19.387	1.00	78.67	Al6S	30273	C3' ADE	516	183.525	103.882	19.137	1.00	70.43	Al6E
ATOM	30221	C2 URI	514	194.066	99.388	21.546	1.00	78.67	Al6S	30274	O3' ADE	516	182.836	105.113	19.531	1.00	70.43	Al6E
ATOM	30222	O2 URI	514	193.451	100.128	22.309	1.00	78.67	Al6S	30275	P URI	517	181.652	105.781	18.626	1.00	72.52	Al6E
ATOM	30223	N3 URI	514	194.596	98.196	21.971	1.00	78.67	Al6S	30276	O1P URI	517	181.888	105.547	17.175	1.00	77.19	Al6E
ATOM	30224	C4 URI	514	195.286	97.276	21.216	1.00	78.67	Al6S	30277	O2P URI	517	181.498	107.174	19.112	1.00	77.19	Al6E
ATOM	30225	O4 URI	514	195.645	96.216	21.742	1.00	78.67	Al6S	30278	O5' URI	517	180.319	105.017	19.052	1.00	72.52	Al6E
ATOM	30226	C5 URI	514	195.462	97.642	19.837	1.00	78.67	Al6S	30279	C5' URI	517	180.071	104.682	20.431	1.00	72.52	Al6E
ATOM	30227	C2' URI	514	194.705	101.824	18.905	1.00	84.01	Al6S	30280	C4' URI	517	178.586	104.629	20.710	1.00	72.52	Al6E
ATOM	30228	O2' URI	514	195.487	102.600	19.794	1.00	84.01	Al6S	30281	O4' URI	517	178.014	105.958	20.662	1.00	72.52	Al6E

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ATOM	30282	C1' URI	517	176.675	105.880	20.216	1.00	72.52	A16S	ATOM	30335	C3' CYT	519	178.546	93.000	17.911	1.00	60.22	A16S
ATOM	30283	N1' URI	517	176.509	106.758	19.048	1.00	77.19	A16S	ATOM	30336	O3' CYT	519	177.787	91.816	18.007	1.00	60.22	A16S
ATOM	30284	C6' URI	517	177.569	107.082	18.233	1.00	77.19	A16S	ATOM	30337	P GUA	520	176.749	91.641	19.210	1.00	61.62	A16S
ATOM	30285	C2' URI	517	175.244	107.253	18.794	1.00	77.19	A16S	ATOM	30338	O1P GUA	520	176.004	90.394	18.932	1.00	60.59	A16S
ATOM	30286	O2' URI	517	174.274	106.990	19.488	1.00	77.19	A16S	ATOM	30339	O2P GUA	520	176.006	92.910	19.404	1.00	60.59	A16S
ATOM	30287	N3' URI	517	175.152	108.068	17.694	1.00	77.19	A16S	ATOM	30340	O5' GUA	520	177.680	91.408	20.477	1.00	61.62	A16S
ATOM	30288	C4' URI	517	176.170	108.431	16.841	1.00	77.19	A16S	ATOM	30341	C5' GUA	520	178.182	90.097	20.792	1.00	61.62	A16S
ATOM	30289	O4' URI	517	175.924	109.160	15.881	1.00	77.19	A16S	ATOM	30342	C4' GUA	520	178.892	90.109	22.126	1.00	61.62	A16S
ATOM	30290	C5' URI	517	177.447	107.880	17.169	1.00	77.19	A16S	ATOM	30343	O4' GUA	520	180.113	90.877	22.007	1.00	61.62	A16S
ATOM	30291	C2' URI	517	176.353	104.411	19.938	1.00	72.52	A16S	ATOM	30344	C1' GUA	520	180.363	91.565	23.217	1.00	61.62	A16S
ATOM	30292	C2' URI	517	175.682	103.867	21.060	1.00	72.52	A16S	ATOM	30345	N9 GUA	520	180.296	92.994	22.939	1.00	60.59	A16S
ATOM	30293	C3' URI	517	177.742	103.811	19.750	1.00	72.52	A16S	ATOM	30346	C4 GUA	520	180.805	94.003	23.717	1.00	60.59	A16S
ATOM	30294	O3' URI	517	177.759	102.441	20.124	1.00	72.52	A16S	ATOM	30347	N3 GUA	520	181.458	93.847	24.889	1.00	60.59	A16S
ATOM	30295	P ADE	518	178.595	101.386	19.249	1.00	50.42	A16S	ATOM	30348	C2 GUA	520	181.841	95.007	25.396	1.00	60.59	A16S
ATOM	30296	O1P ADE	518	178.393	100.059	19.909	1.00	47.69	A16S	ATOM	30349	N2 GUA	520	182.511	95.032	26.555	1.00	60.59	A16S
ATOM	30297	O2P ADE	518	179.964	101.912	19.086	1.00	47.69	A16S	ATOM	30350	N1 GUA	520	181.600	96.226	24.803	1.00	60.59	A16S
ATOM	30298	O5' ADE	518	177.859	101.365	17.836	1.00	50.42	A16S	ATOM	30351	C6 GUA	520	180.932	96.410	23.597	1.00	60.59	A16S
ATOM	30299	C5' ADE	518	176.526	100.841	17.740	1.00	50.42	A16S	ATOM	30352	O6 GUA	520	180.779	97.551	23.142	1.00	60.59	A16S
ATOM	30300	C4' ADE	518	176.385	99.906	16.560	1.00	50.42	A16S	ATOM	30353	C5 GUA	520	180.512	95.171	23.042	1.00	60.59	A16S
ATOM	30301	O4' ADE	518	176.190	100.644	15.333	1.00	50.42	A16S	ATOM	30354	N7 GUA	520	179.821	94.899	21.869	1.00	60.59	A16S
ATOM	30302	C1' ADE	518	177.033	100.127	14.335	1.00	50.42	A16S	ATOM	30355	C8 GUA	520	179.715	93.599	21.852	1.00	60.59	A16S
ATOM	30303	N9 ADE	518	177.376	101.212	13.418	1.00	47.69	A16S	ATOM	30356	C2' GUA	520	179.291	91.143	24.217	1.00	61.62	A16S
ATOM	30304	C4 ADE	518	177.134	101.197	12.068	1.00	47.69	A16S	ATOM	30357	O2' GUA	520	179.750	90.042	24.981	1.00	61.62	A16S
ATOM	30305	N3 ADE	518	176.621	100.187	11.347	1.00	47.69	A16S	ATOM	30358	C3' GUA	520	178.154	90.757	23.289	1.00	61.62	A16S
ATOM	30306	C2 ADE	518	176.505	100.537	10.074	1.00	47.69	A16S	ATOM	30359	O3' GUA	520	177.224	89.897	23.934	1.00	61.62	A16S
ATOM	30307	N1 ADE	518	176.807	101.696	9.489	1.00	47.69	A16S	ATOM	30360	P GUA	521	175.926	90.533	24.632	1.00	66.62	A16S
ATOM	30308	C6 ADE	518	177.311	102.693	10.240	1.00	47.69	A16S	ATOM	30361	O1P GUA	521	174.935	89.457	24.893	1.00	65.62	A16S
ATOM	30309	N6 ADE	518	177.586	103.854	9.648	1.00	47.69	A16S	ATOM	30362	O2P GUA	521	175.554	91.694	23.790	1.00	65.62	A16S
ATOM	30310	C5 ADE	518	177.504	102.444	11.603	1.00	47.69	A16S	ATOM	30363	O5' GUA	521	176.462	91.080	26.026	1.00	66.62	A16S
ATOM	30311	N7 ADE	518	178.015	103.219	12.633	1.00	47.69	A16S	ATOM	30364	C5' GUA	521	176.967	90.173	27.023	1.00	66.62	A16S
ATOM	30312	C8 ADE	518	177.926	102.439	13.686	1.00	47.69	A16S	ATOM	30365	O4' GUA	521	177.603	90.934	28.165	1.00	66.62	A16S
ATOM	30313	C2' ADE	518	178.185	99.441	15.057	1.00	50.42	A16S	ATOM	30366	C4' GUA	521	178.741	91.686	27.670	1.00	65.62	A16S
ATOM	30314	O2' ADE	518	178.716	98.446	14.200	1.00	50.42	A16S	ATOM	30367	C1' GUA	521	178.864	92.895	28.396	1.00	66.62	A16S
ATOM	30315	C3' ADE	518	177.475	98.880	16.295	1.00	50.42	A16S	ATOM	30368	N9 GUA	521	178.698	94.000	27.464	1.00	65.62	A16S
ATOM	30316	O3' ADE	518	176.813	97.668	15.969	1.00	50.42	A16S	ATOM	30369	C4 GUA	521	179.074	95.303	27.675	1.00	65.62	A16S
ATOM	30317	P CYT	519	176.354	96.671	17.143	1.00	60.22	A16S	ATOM	30370	N3 GUA	521	179.663	95.788	28.791	1.00	65.62	A16S
ATOM	30318	O1P CYT	519	175.061	96.057	16.733	1.00	65.96	A16S	ATOM	30371	C2 GUA	521	179.920	97.083	28.690	1.00	65.62	A16S
ATOM	30319	O2P CYT	519	177.467	95.534	17.188	1.00	60.22	A16S	ATOM	30372	N2 GUA	521	180.516	97.730	29.701	1.00	65.62	A16S
ATOM	30320	O5' CYT	519	177.442	94.453	16.182	1.00	60.22	A16S	ATOM	30373	N1 GUA	521	179.616	97.843	27.585	1.00	65.62	A16S
ATOM	30321	C5' CYT	519	178.569	93.499	16.479	1.00	60.22	A16S	ATOM	30374	C6 GUA	521	179.006	97.368	26.429	1.00	65.62	A16S
ATOM	30322	C4' CYT	519	179.814	94.226	16.350	1.00	60.22	A16S	ATOM	30375	O6 GUA	521	178.775	98.143	25.493	1.00	65.62	A16S
ATOM	30323	O4' CYT	519	180.683	93.891	17.415	1.00	60.22	A16S	ATOM	30376	C5 GUA	521	178.729	95.975	26.520	1.00	65.62	A16S
ATOM	30324	N1' CYT	519	180.982	95.128	18.171	1.00	65.96	A16S	ATOM	30377	N7 GUA	521	178.137	95.112	25.608	1.00	65.62	A16S
ATOM	30325	C1' CYT	519	180.452	96.329	17.788	1.00	65.96	A16S	ATOM	30378	C8 GUA	521	178.137	93.954	26.208	1.00	65.62	A16S
ATOM	30326	C6 CYT	519	181.825	95.054	19.286	1.00	65.96	A16S	ATOM	30379	C2' GUA	521	177.781	92.907	29.470	1.00	66.62	A16S
ATOM	30327	C2' CYT	519	182.288	93.951	19.620	1.00	65.96	A16S	ATOM	30380	O2' GUA	521	178.319	92.399	30.676	1.00	66.62	A16S
ATOM	30328	O2' CYT	519	182.112	96.184	19.970	1.00	65.96	A16S	ATOM	30381	C3' GUA	521	176.742	91.975	28.866	1.00	66.62	A16S
ATOM	30329	N3 CYT	519	181.599	97.351	19.578	1.00	65.96	A16S	ATOM	30382	O3' GUA	521	175.905	91.414	29.866	1.00	66.62	A16S
ATOM	30330	C4 CYT	519	181.929	98.446	20.272	1.00	65.96	A16S	ATOM	30383	P ADE	522	174.599	92.218	30.336	1.00	77.97	A16S
ATOM	30331	N4 CYT	519	180.730	97.452	18.456	1.00	65.96	A16S	ATOM	30384	O1P ADE	522	173.800	91.343	31.231	1.00	67.47	A16S
ATOM	30332	C5 CYT	519	180.015	92.789	18.245	1.00	60.22	A16S	ATOM	30385	O2P ADE	522	173.973	92.784	29.122	1.00	67.47	A16S
ATOM	30333	C2' CYT	519	180.515	91.518	17.880	1.00	60.22	A16S	ATOM	30386	O5' ADE	522	175.179	93.448	31.166	1.00	77.97	A16S
ATOM	30334	O2' CYT	519	180.515	91.518	17.880	1.00	60.22	A16S	ATOM	30387	C5' ADE	522	176.050	93.249	32.296	1.00	77.97	A16S

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ATOM	30388	C4' ADE	522	176.631	94.572	32.748	1.00	77.97	Al6S	ATOM	30441	N1	GUA	524	170.097	101.878	27.094	1.00	57.27	Al6	
ATOM	30389	O4' ADE	522	177.503	95.113	31.719	1.00	77.97	Al6S	ATOM	30442	C6	GUA	524	170.238	100.820	27.990	1.00	57.27	Al6	
ATOM	30390	C1' ADE	522	177.391	96.529	31.690	1.00	77.97	Al6S	ATOM	30443	O6	GUA	524	170.099	99.662	27.600	1.00	57.27	Al6	
ATOM	30391	N9 ADE	522	176.928	96.935	30.361	1.00	67.47	Al6S	ATOM	30444	C5	GUA	524	170.541	101.274	29.287	1.00	57.27	Al6	
ATOM	30392	C4 ADE	522	176.982	98.208	29.841	1.00	67.47	Al6S	ATOM	30445	N7	GUA	524	170.761	100.569	30.463	1.00	57.27	Al6	
ATOM	30393	N3 ADE	522	177.473	99.312	30.430	1.00	67.47	Al6S	ATOM	30446	C8	GUA	524	170.999	101.497	31.353	1.00	57.27	Al6	
ATOM	30394	C2 ADE	522	177.357	100.368	29.624	1.00	67.47	Al6S	ATOM	30447	O2' GUA	524	169.778	104.763	31.556	1.00	62.17	Al6		
ATOM	30395	N1 ADE	522	176.846	100.440	28.392	1.00	67.47	Al6S	ATOM	30448	C2' GUA	524	169.958	106.160	31.462	1.00	62.17	Al6		
ATOM	30396	C6 ADE	522	176.364	99.314	27.828	1.00	67.47	Al6S	ATOM	30449	C3' GUA	524	169.258	104.297	32.904	1.00	62.17	Al6		
ATOM	30397	N6 ADE	522	175.861	99.387	26.597	1.00	67.47	Al6S	ATOM	30450	O3' GUA	524	168.197	105.095	33.370	1.00	62.17	Al6		
ATOM	30398	C5 ADE	522	176.425	98.124	28.579	1.00	67.47	Al6S	ATOM	30451	P	GUA	525	166.696	104.618	33.076	1.00	53.43	Al6	
ATOM	30399	N7 ADE	522	176.030	96.822	28.304	1.00	67.47	Al6S	ATOM	30452	O1P GUA	525	165.779	105.558	33.760	1.00	47.16	Al6		
ATOM	30400	C8 ADE	522	176.351	96.158	29.387	1.00	67.47	Al6S	ATOM	30453	O2P GUA	525	166.602	103.154	33.352	1.00	47.16	Al6		
ATOM	30401	C2' ADE	522	176.417	96.948	32.793	1.00	77.97	Al6S	ATOM	30454	O5' GUA	525	166.518	104.870	31.518	1.00	53.43	Al6		
ATOM	30402	O2' ADE	522	177.129	97.357	33.946	1.00	77.97	Al6S	ATOM	30455	C5' GUA	525	166.695	106.188	30.985	1.00	53.43	Al6		
ATOM	30403	C3' ADE	522	175.610	95.670	32.995	1.00	77.97	Al6S	ATOM	30456	C4' GUA	525	166.558	106.173	29.486	1.00	53.43	Al6		
ATOM	30404	O3' ADE	522	175.045	95.583	34.288	1.00	77.97	Al6S	ATOM	30457	O4' GUA	525	167.555	105.283	28.920	1.00	53.43	Al6		
ATOM	30405	P	GUA	523	173.531	96.050	34.515	1.00	65.23	Al6S	ATOM	30458	C1' GUA	525	167.051	104.697	27.739	1.00	53.43	Al6	
ATOM	30406	O1P GUA	523	173.147	95.610	35.885	1.00	71.25	Al6S	ATOM	30459	N9	GUA	525	167.063	103.246	27.892	1.00	47.16	Al6	
ATOM	30407	O2P GUA	523	172.726	95.599	33.350	1.00	71.25	Al6S	ATOM	30460	C4	GUA	525	166.840	102.328	26.892	1.00	47.16	Al6	
ATOM	30408	O5' GUA	523	173.607	97.643	34.463	1.00	65.23	Al6S	ATOM	30461	N3	GUA	525	166.604	102.612	25.592	1.00	47.16	Al6	
ATOM	30409	C5' GUA	523	174.150	98.392	35.564	1.00	65.23	Al6S	ATOM	30462	C2	GUA	525	166.393	101.517	24.878	1.00	47.16	Al6	
ATOM	30410	C4' GUA	523	174.167	99.868	35.247	1.00	65.23	Al6S	ATOM	30463	N2	GUA	525	166.145	101.621	23.569	1.00	47.16	Al6	
ATOM	30411	O4' GUA	523	175.040	100.103	34.115	1.00	65.23	Al6S	ATOM	30464	N1	GUA	525	166.409	100.245	25.397	1.00	47.16	Al6	
ATOM	30412	C1' GUA	523	174.536	101.175	33.331	1.00	65.23	Al6S	ATOM	30465	C6	GUA	525	166.647	99.929	26.727	1.00	47.16	Al6	
ATOM	30413	N9	GUA	523	174.256	100.685	31.982	1.00	71.25	Al6S	ATOM	30466	O6	GUA	525	166.624	98.752	27.087	1.00	47.16	Al6
ATOM	30414	C4	GUA	523	174.148	101.455	30.849	1.00	71.25	Al6S	ATOM	30467	C5	GUA	525	166.886	101.095	27.509	1.00	47.16	Al6
ATOM	30415	N3	GUA	523	174.318	102.791	30.780	1.00	71.25	Al6S	ATOM	30468	N7	GUA	525	167.168	101.233	28.860	1.00	47.16	Al6
ATOM	30416	C2	GUA	523	174.111	103.252	29.563	1.00	71.25	Al6S	ATOM	30469	C8	GUA	525	167.267	102.523	29.042	1.00	47.16	Al6
ATOM	30417	N2	GUA	523	174.241	104.556	29.317	1.00	71.25	Al6S	ATOM	30470	C2' GUA	525	165.641	105.249	27.511	1.00	53.43	Al6	
ATOM	30418	N1	GUA	523	173.761	102.467	28.498	1.00	71.25	Al6S	ATOM	30471	O2' GUA	525	165.718	106.340	26.614	1.00	53.43	Al6	
ATOM	30419	C6	GUA	523	173.579	101.088	28.541	1.00	71.25	Al6S	ATOM	30472	C3' GUA	525	165.239	105.681	28.918	1.00	53.43	Al6	
ATOM	30420	O6	GUA	523	173.249	100.474	27.517	1.00	71.25	Al6S	ATOM	30473	O3' GUA	525	164.251	106.712	28.905	1.00	53.43	Al6	
ATOM	30421	C5	GUA	523	173.806	100.577	29.842	1.00	71.25	Al6S	ATOM	30474	P	CYT	526	162.691	106.322	28.803	1.00	51.16	Al6
ATOM	30422	N7	GUA	523	173.731	99.276	30.323	1.00	71.25	Al6S	ATOM	30475	O1P CYT	526	161.895	107.561	28.957	1.00	50.80	Al6	
ATOM	30423	C8	GUA	523	174.012	99.386	31.592	1.00	71.25	Al6S	ATOM	30476	O2P CYT	526	162.397	105.157	29.666	1.00	50.80	Al6	
ATOM	30424	C2' GUA	523	173.271	101.693	34.017	1.00	65.23	Al6S	ATOM	30477	O5' CYT	526	162.529	105.820	27.307	1.00	51.16	Al6		
ATOM	30425	O2' GUA	523	173.584	102.827	34.797	1.00	65.23	Al6S	ATOM	30478	C5' CYT	526	162.720	106.717	26.220	1.00	51.16	Al6		
ATOM	30426	C3' GUA	523	172.844	100.481	34.885	1.00	65.23	Al6S	ATOM	30479	C4' CYT	526	162.472	106.006	24.920	1.00	51.16	Al6		
ATOM	30427	O3' GUA	523	172.053	100.845	35.946	1.00	65.23	Al6S	ATOM	30480	O4' CYT	526	163.531	105.046	24.659	1.00	51.16	Al6		
ATOM	30428	P	GUA	524	170.461	100.940	35.778	1.00	62.17	Al6S	ATOM	30481	C1' CYT	526	162.994	103.922	23.971	1.00	51.16	Al6	
ATOM	30429	O1P GUA	524	169.898	101.474	37.043	1.00	57.27	Al6S	ATOM	30482	N1	CYT	526	163.125	102.723	24.829	1.00	50.80	Al6	
ATOM	30430	O2P GUA	524	169.975	99.640	35.255	1.00	57.27	Al6S	ATOM	30483	C6	CYT	526	163.467	102.828	26.151	1.00	50.80	Al6	
ATOM	30431	O5' GUA	524	170.275	102.068	34.673	1.00	62.17	Al6S	ATOM	30484	C2	CYT	526	162.882	101.465	24.265	1.00	50.80	Al6	
ATOM	30432	C5' GUA	524	170.515	103.444	35.004	1.00	62.17	Al6S	ATOM	30485	O2	CYT	526	162.559	101.397	23.068	1.00	50.80	Al6	
ATOM	30433	C4' GUA	524	170.515	104.303	33.761	1.00	62.17	Al6S	ATOM	30486	N3	CYT	526	162.997	100.357	25.038	1.00	50.80	Al6	
ATOM	30434	O1' GUA	524	171.537	103.822	32.847	1.00	62.17	Al6S	ATOM	30487	C4	CYT	526	163.338	100.471	26.323	1.00	50.80	Al6	
ATOM	30435	C1' GUA	524	171.125	104.052	31.507	1.00	62.17	Al6S	ATOM	30488	N4	CYT	526	163.455	99.354	27.041	1.00	50.80	Al6	
ATOM	30436	N9	GUA	524	170.946	102.770	30.828	1.00	57.27	Al6S	ATOM	30489	C5	CYT	526	163.581	101.739	26.927	1.00	50.80	Al6
ATOM	30437	C4	GUA	524	170.658	102.630	29.498	1.00	57.27	Al6S	ATOM	30490	C2' CYT	526	161.519	104.223	23.709	1.00	51.16	Al6	
ATOM	30438	N3	GUA	524	170.516	103.644	28.615	1.00	57.27	Al6S	ATOM	30491	O2' CYT	526	161.363	104.893	22.474	1.00	51.16	Al6	
ATOM	30439	C2	GUA	524	170.234	103.210	27.409	1.00	57.27	Al6S	ATOM	30492	C3' CYT	526	161.208	105.170	24.847	1.00	51.16	Al6	
ATOM	30440	N2	GUA	524	170.068	104.096	26.415	1.00	57.27	Al6S	ATOM	30493	O3' CYT	526	160.048	105.898	24.565	1.00	51.16	Al6	

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ATOM	30494	P	EUA	527	158.642	105.286	25.001	1.00	51.07	Al6S	ATOM	30547	N3	GUA	529	155.215	93.974	29.986	1.00	58.48	Al6
ATOM	30495	OAP	GUA	527	157.595	106.287	24.670	1.00	51.71	Al6S	ATOM	30548	C2	GUA	529	155.837	94.309	31.102	1.00	58.48	Al6
ATOM	30496	O2P	GUA	527	158.779	104.793	26.399	1.00	51.71	Al6S	ATOM	30549	N2	GUA	529	156.354	93.357	31.888	1.00	58.48	Al6
ATOM	30497	O5	GUA	527	158.469	104.009	24.065	1.00	51.07	Al6S	ATOM	30550	N1	GUA	529	155.995	95.600	31.533	1.00	58.48	Al6
ATOM	30498	C5	GUA	527	158.341	104.153	22.641	1.00	51.07	Al6S	ATOM	30551	C6	GUA	529	155.524	96.729	30.872	1.00	58.48	Al6
ATOM	30499	O4	GUA	527	158.135	102.807	21.989	1.00	51.07	Al6S	ATOM	30552	C5	GUA	529	155.725	97.856	31.355	1.00	58.48	Al6
ATOM	30500	O4	GUA	527	159.274	101.958	22.266	1.00	51.07	Al6S	ATOM	30553	C6	GUA	529	154.845	96.382	29.670	1.00	58.48	Al6
ATOM	30501	C1	GUA	527	158.852	100.611	22.349	1.00	51.07	Al6S	ATOM	30554	N7	GUA	529	154.227	97.184	28.722	1.00	58.48	Al6
ATOM	30502	N9	GUA	527	159.302	100.056	23.620	1.00	51.71	Al6S	ATOM	30555	C8	GUA	529	153.763	96.341	27.839	1.00	58.48	Al6
ATOM	30503	N9	GUA	527	159.481	98.724	23.897	1.00	51.71	Al6S	ATOM	30556	C2	GUA	529	152.447	93.099	27.985	1.00	48.67	Al6
ATOM	30504	N3	GUA	527	159.268	97.708	23.043	1.00	51.71	Al6S	ATOM	30557	O2	GUA	529	152.625	91.705	27.820	1.00	48.67	Al6
ATOM	30505	C2	GUA	527	159.530	96.542	23.595	1.00	51.71	Al6S	ATOM	30558	C3	GUA	529	151.304	93.634	27.129	1.00	48.67	Al6
ATOM	30506	N2	GUA	527	159.385	95.423	22.878	1.00	51.71	Al6S	ATOM	30559	O3	GUA	529	150.197	92.737	27.071	1.00	48.67	Al6
ATOM	30507	N1	GUA	527	159.958	96.385	24.884	1.00	51.71	Al6S	ATOM	30560	P	ADE	530	149.225	92.571	28.348	1.00	51.69	Al6
ATOM	30508	C6	GUA	527	160.182	97.416	25.780	1.00	51.71	Al6S	ATOM	30561	O1P	ADE	530	147.838	92.243	27.845	1.00	57.89	Al6
ATOM	30509	O6	GUA	527	160.570	97.162	26.917	1.00	51.71	Al6S	ATOM	30562	O2P	ADE	530	149.411	93.733	29.262	1.00	57.89	Al6
ATOM	30510	C5	GUA	527	159.913	98.674	25.202	1.00	51.71	Al6S	ATOM	30563	O5	ADE	530	149.835	91.288	29.076	1.00	51.69	Al6
ATOM	30511	N7	GUA	527	160.007	99.950	25.740	1.00	51.71	Al6S	ATOM	30564	C5	ADE	530	149.193	90.006	28.981	1.00	51.69	Al6
ATOM	30512	C8	GUA	527	159.632	100.738	24.767	1.00	51.71	Al6S	ATOM	30565	C4	ADE	530	149.946	89.124	28.029	1.00	51.69	Al6
ATOM	30513	C2	GUA	527	157.333	100.569	22.156	1.00	51.07	Al6S	ATOM	30566	O4	ADE	530	151.291	88.930	28.526	1.00	51.69	Al6
ATOM	30514	O2	GUA	527	157.025	100.197	20.826	1.00	51.07	Al6S	ATOM	30567	C1	ADE	530	151.562	87.553	28.637	1.00	51.69	Al6
ATOM	30515	C3	GUA	527	156.937	102.006	22.469	1.00	51.07	Al6S	ATOM	30568	N9	ADE	530	152.464	87.370	29.766	1.00	57.89	Al6
ATOM	30516	O3	GUA	527	155.756	102.374	21.778	1.00	51.07	Al6S	ATOM	30569	C4	ADE	530	153.822	87.207	29.677	1.00	57.89	Al6
ATOM	30517	P	CYT	528	154.342	102.250	22.520	1.00	55.24	Al6S	ATOM	30570	N3	ADE	530	154.562	87.138	28.562	1.00	57.89	Al6
ATOM	30518	O1P	CYT	528	153.314	102.655	21.523	1.00	60.52	Al6S	ATOM	30571	C2	ADE	530	155.853	87.005	28.860	1.00	57.89	Al6
ATOM	30519	O2P	CYT	528	154.413	102.949	23.833	1.00	60.52	Al6S	ATOM	30572	N1	ADE	530	156.441	86.946	30.053	1.00	57.89	Al6
ATOM	30520	O5	CYT	528	154.209	100.695	22.839	1.00	55.24	Al6S	ATOM	30573	C6	ADE	530	155.668	87.025	31.154	1.00	57.89	Al6
ATOM	30521	C5	CYT	528	153.683	99.798	21.862	1.00	55.24	Al6S	ATOM	30574	N6	ADE	530	156.259	86.992	32.349	1.00	57.89	Al6
ATOM	30522	C4	CYT	528	153.929	98.359	22.259	1.00	55.24	Al6S	ATOM	30575	C5	ADE	530	154.281	87.151	30.973	1.00	57.89	Al6
ATOM	30523	O4	CYT	528	155.328	98.179	22.606	1.00	55.24	Al6S	ATOM	30576	N7	ADE	530	153.227	87.240	31.868	1.00	57.89	Al6
ATOM	30524	C1	CYT	528	155.458	97.039	23.436	1.00	55.24	Al6S	ATOM	30577	C8	ADE	530	152.173	87.361	31.101	1.00	57.89	Al6
ATOM	30525	N1	CYT	528	156.114	97.404	24.698	1.00	60.52	Al6S	ATOM	30578	O2	ADE	530	150.200	86.874	28.754	1.00	51.69	Al6
ATOM	30526	C6	CYT	528	156.143	98.693	25.145	1.00	60.52	Al6S	ATOM	30579	O2	ADE	530	150.278	85.507	28.411	1.00	51.69	Al6
ATOM	30527	C2	CYT	528	156.683	96.381	25.463	1.00	60.52	Al6S	ATOM	30580	C3	ADE	530	149.350	87.740	27.824	1.00	51.69	Al6
ATOM	30528	O2	CYT	528	156.672	95.227	25.023	1.00	60.52	Al6S	ATOM	30581	O3	ADE	530	149.519	87.360	26.452	1.00	51.69	Al6
ATOM	30529	N3	CYT	528	157.227	96.670	26.558	1.00	60.52	Al6S	ATOM	30582	P	GUA	531	148.622	88.061	25.301	1.00	44.72	Al6
ATOM	30530	C4	CYT	528	157.229	97.922	27.100	1.00	60.52	Al6S	ATOM	30583	O1P	GUA	531	147.262	88.386	25.851	1.00	56.68	Al6
ATOM	30531	N4	CYT	528	157.767	98.153	28.302	1.00	60.52	Al6S	ATOM	30584	O2P	GUA	531	148.733	87.267	24.044	1.00	56.68	Al6
ATOM	30532	C5	CYT	528	156.680	98.993	26.332	1.00	60.52	Al6S	ATOM	30585	O5	GUA	531	149.343	89.456	25.054	1.00	44.72	Al6
ATOM	30533	C2	CYT	528	154.053	96.527	23.728	1.00	55.24	Al6S	ATOM	30586	C5	GUA	531	150.364	89.596	24.065	1.00	44.72	Al6
ATOM	30534	O2	CYT	528	153.773	95.492	22.815	1.00	55.24	Al6S	ATOM	30587	C4	GUA	531	151.670	89.861	24.738	1.00	44.72	Al6
ATOM	30535	C3	CYT	528	153.211	97.765	23.464	1.00	55.24	Al6S	ATOM	30588	O4	GUA	531	152.102	88.553	25.405	1.00	44.72	Al6
ATOM	30536	O3	CYT	528	151.863	97.392	23.216	1.00	55.24	Al6S	ATOM	30589	C1	GUA	531	153.512	88.552	25.340	1.00	44.72	Al6
ATOM	30537	P	GUA	529	150.825	97.302	24.450	1.00	48.67	Al6S	ATOM	30590	N9	GUA	531	153.856	87.330	24.619	1.00	56.68	Al6
ATOM	30538	O1P	GUA	529	149.489	96.940	23.880	1.00	58.48	Al6S	ATOM	30591	C4	GUA	531	155.111	86.793	24.483	1.00	56.68	Al6
ATOM	30539	O2P	GUA	529	150.962	98.526	25.293	1.00	58.48	Al6S	ATOM	30592	N3	GUA	531	156.246	87.304	24.990	1.00	56.68	Al6
ATOM	30540	O5	GUA	529	151.367	96.080	25.317	1.00	48.67	Al6S	ATOM	30593	C2	GUA	531	157.296	86.565	24.693	1.00	56.68	Al6
ATOM	30541	C5	GUA	529	151.326	94.745	24.799	1.00	48.67	Al6S	ATOM	30594	N2	GUA	531	158.511	86.946	25.110	1.00	56.68	Al6
ATOM	30542	O4	GUA	529	151.961	93.782	25.768	1.00	48.67	Al6S	ATOM	30595	N1	GUA	531	157.238	85.403	23.964	1.00	56.68	Al6
ATOM	30543	C4	GUA	529	153.313	94.217	26.071	1.00	48.67	Al6S	ATOM	30596	C6	GUA	531	156.076	84.853	23.432	1.00	56.68	Al6
ATOM	30544	C1	GUA	529	153.654	93.834	27.393	1.00	48.67	Al6S	ATOM	30597	O6	GUA	531	156.127	83.790	22.784	1.00	56.68	Al6
ATOM	30545	N9	GUA	529	154.037	95.028	28.147	1.00	58.48	Al6S	ATOM	30598	C5	GUA	531	154.940	85.649	23.736	1.00	56.68	Al6
ATOM	30546	C4	GUA	529	154.744	95.051	29.327	1.00	58.48	Al6S	ATOM	30599	N7	GUA	531	153.605	85.473	23.402	1.00	56.68	Al6

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ATOM	30600	C8' GUA	531	153.001	86.491	23.947	1.00	56.68	Al6S	ATOM	30653	C4' URI	534	163.493	87.884	13.544	1.00	49.55	Al
ATOM	30601	C2' GUA	531	154.028	89.810	24.642	1.00	44.72	Al6S	ATOM	30654	O4' URI	534	162.664	87.082	14.414	1.00	49.55	Al
ATOM	30602	O2' GUA	531	154.361	90.750	25.644	1.00	44.72	Al6S	ATOM	30655	C1' URI	534	162.187	85.954	13.711	1.00	49.55	Al
ATOM	30603	C3' GUA	531	152.815	90.224	23.821	1.00	44.72	Al6S	ATOM	30656	N1 URI	534	160.721	85.959	13.756	1.00	42.87	Al
ATOM	30604	O3' GUA	531	152.788	91.618	23.547	1.00	44.72	Al6S	ATOM	30657	C6 URI	534	160.009	87.093	14.053	1.00	42.87	Al
ATOM	30605	P	532	152.989	92.136	22.038	1.00	46.73	Al6S	ATOM	30658	C2 URI	534	160.084	84.772	13.485	1.00	42.87	Al
ATOM	30606	O1P	532	152.605	93.567	21.995	1.00	44.01	Al6S	ATOM	30659	O2 URI	534	160.681	83.750	13.205	1.00	42.87	Al
ATOM	30607	O2P	532	152.327	91.171	21.095	1.00	44.01	Al6S	ATOM	30660	N3 URI	534	158.720	84.822	13.544	1.00	42.87	Al
ATOM	30608	O5' CYT	532	154.569	92.039	21.845	1.00	46.73	Al6S	ATOM	30661	C4 URI	534	157.948	85.915	13.831	1.00	42.87	Al
ATOM	30609	O6' CYT	532	155.470	92.733	22.719	1.00	46.73	Al6S	ATOM	30662	O4 URI	534	156.728	85.801	13.822	1.00	42.87	Al
ATOM	30610	C4' CYT	532	156.867	92.176	22.571	1.00	46.73	Al6S	ATOM	30663	C5 URI	534	158.679	87.112	14.098	1.00	42.87	Al
ATOM	30611	O4' CYT	532	156.899	90.812	23.042	1.00	46.73	Al6S	ATOM	30664	C2' URI	534	162.726	86.023	12.287	1.00	49.55	Al
ATOM	30612	C1' CYT	532	157.856	90.076	22.305	1.00	46.73	Al6S	ATOM	30665	O2' URI	534	163.866	85.192	12.200	1.00	49.55	Al
ATOM	30613	C6	532	157.194	88.916	21.676	1.00	44.01	Al6S	ATOM	30666	C3' URI	534	163.028	87.510	12.153	1.00	49.55	Al
ATOM	30614	C6	532	155.844	88.916	21.454	1.00	44.01	Al6S	ATOM	30667	O3' URI	534	164.033	87.772	11.200	1.00	49.55	Al
ATOM	30615	C2	532	157.973	87.839	21.304	1.00	44.01	Al6S	ATOM	30668	P	535	163.617	88.043	9.681	1.00	39.33	Al
ATOM	30616	O2	532	159.191	87.882	21.510	1.00	44.01	Al6S	ATOM	30669	O1P	535	164.850	88.457	8.954	1.00	44.88	Al
ATOM	30617	N3	532	157.389	86.770	20.725	1.00	44.01	Al6S	ATOM	30670	O2P	535	162.438	88.941	9.699	1.00	44.88	Al
ATOM	30618	C4	532	156.075	86.768	20.505	1.00	44.01	Al6S	ATOM	30671	O5' URI	535	163.114	86.618	9.170	1.00	39.33	Al
ATOM	30619	N4	532	155.545	85.701	19.916	1.00	44.01	Al6S	ATOM	30672	C5' URI	535	164.020	85.509	9.043	1.00	39.33	Al
ATOM	30620	C5	532	155.248	87.864	20.876	1.00	44.01	Al6S	ATOM	30673	C4' URI	535	163.264	84.265	8.650	1.00	39.33	Al
ATOM	30621	O2' CYT	532	158.483	91.011	21.278	1.00	46.73	Al6S	ATOM	30674	O4' URI	535	162.408	83.833	9.741	1.00	39.33	Al
ATOM	30622	C2' CYT	532	159.693	91.522	21.792	1.00	46.73	Al6S	ATOM	30675	C1' URI	535	161.217	83.260	9.220	1.00	39.33	Al
ATOM	30623	C3' CYT	532	157.428	92.097	21.160	1.00	46.73	Al6S	ATOM	30676	N1 URI	535	160.059	84.039	9.696	1.00	44.88	Al
ATOM	30624	O3' CYT	532	158.055	93.312	20.812	1.00	46.73	Al6S	ATOM	30677	C6 URI	535	160.203	85.293	10.239	1.00	44.88	Al
ATOM	30625	P	533	158.261	93.694	19.370	1.00	55.97	Al6S	ATOM	30678	C2 URI	535	158.805	83.471	9.553	1.00	44.88	Al
ATOM	30626	O1P	533	159.074	94.938	19.258	1.00	42.82	Al6S	ATOM	30679	O2 URI	535	158.641	82.351	9.109	1.00	44.88	Al
ATOM	30627	O2P	533	156.934	93.714	18.587	1.00	42.82	Al6S	ATOM	30680	N3 URI	535	157.751	84.262	9.949	1.00	44.88	Al
ATOM	30628	O5' GUA	533	159.135	92.503	18.655	1.00	55.97	Al6S	ATOM	30681	C4 URI	535	157.822	85.535	10.475	1.00	44.88	Al
ATOM	30629	C5' GUA	533	160.557	92.651	18.487	1.00	55.97	Al6S	ATOM	30682	O4 URI	535	156.778	86.167	10.703	1.00	44.88	Al
ATOM	30630	C4' GUA	533	161.208	91.348	18.068	1.00	55.97	Al6S	ATOM	30683	C5 URI	535	159.161	86.038	10.623	1.00	44.88	Al
ATOM	30631	O4' GUA	533	160.650	90.251	18.838	1.00	55.97	Al6S	ATOM	30684	C2' URI	535	161.326	83.285	7.694	1.00	39.33	Al
ATOM	30632	C1' GUA	533	160.908	89.032	18.165	1.00	55.97	Al6S	ATOM	30685	O2' URI	535	161.816	82.043	7.242	1.00	39.33	Al
ATOM	30633	N9	533	159.677	88.270	17.992	1.00	42.82	Al6S	ATOM	30686	C3' URI	535	162.317	84.416	7.475	1.00	39.33	Al
ATOM	30634	C4	533	159.623	86.963	17.583	1.00	42.82	Al6S	ATOM	30687	O3' URI	535	162.982	84.318	6.235	1.00	39.33	Al
ATOM	30635	N3	533	160.690	86.178	17.311	1.00	42.82	Al6S	ATOM	30688	P	536	162.447	85.181	4.996	1.00	46.47	Al
ATOM	30636	C2	533	160.329	84.971	16.911	1.00	42.82	Al6S	ATOM	30689	O1P	536	163.410	85.074	3.862	1.00	40.00	Al
ATOM	30637	N2	533	161.270	84.074	16.588	1.00	42.82	Al6S	ATOM	30690	O2P	536	162.109	86.527	5.539	1.00	40.00	Al
ATOM	30638	N1	533	159.020	84.559	16.797	1.00	42.82	Al6S	ATOM	30691	O5' ADE	536	161.129	84.395	4.579	1.00	46.47	Al
ATOM	30639	C6	533	157.905	85.347	17.069	1.00	42.82	Al6S	ATOM	30692	C5' ADE	536	161.229	83.034	4.147	1.00	46.47	Al
ATOM	30640	O6	533	156.770	84.875	16.925	1.00	42.82	Al6S	ATOM	30693	C4' ADE	536	159.868	82.423	4.000	1.00	46.47	Al
ATOM	30641	C5	533	158.282	86.658	17.494	1.00	42.82	Al6S	ATOM	30694	O4' ADE	536	159.218	82.311	5.291	1.00	46.47	Al
ATOM	30642	N7	533	157.506	87.752	17.853	1.00	42.82	Al6S	ATOM	30695	C1' ADE	536	157.823	82.496	5.134	1.00	46.47	Al
ATOM	30643	C8	533	158.376	88.682	18.151	1.00	42.82	Al6S	ATOM	30696	N9	536	157.423	83.671	5.911	1.00	40.00	Al
ATOM	30644	C2' GUA	533	161.479	89.380	16.797	1.00	55.97	Al6S	ATOM	30697	C4 ADE	536	156.186	83.910	6.464	1.00	40.00	Al
ATOM	30645	O2' GUA	533	162.877	89.204	16.861	1.00	55.97	Al6S	ATOM	30698	N3 ADE	536	155.108	83.113	6.429	1.00	40.00	Al
ATOM	30646	C3' GUA	533	161.071	90.840	16.640	1.00	55.97	Al6S	ATOM	30699	C2 ADE	536	154.078	83.691	7.050	1.00	40.00	Al
ATOM	30647	O3' GUA	533	161.938	91.470	15.700	1.00	55.97	Al6S	ATOM	30700	N1 ADE	536	154.011	84.880	7.659	1.00	40.00	Al
ATOM	30648	P	534	161.647	91.304	14.119	1.00	49.55	Al6S	ATOM	30701	C6 ADE	536	155.115	85.646	7.685	1.00	40.00	Al
ATOM	30649	O1P	534	162.603	92.165	13.380	1.00	42.87	Al6S	ATOM	30702	N6 ADE	536	155.058	86.820	8.307	1.00	40.00	Al
ATOM	30650	O2P	534	160.185	91.447	13.866	1.00	42.87	Al6S	ATOM	30703	C5 ADE	536	156.271	85.154	7.055	1.00	40.00	Al
ATOM	30651	O5' URI	534	162.023	89.787	13.805	1.00	49.55	Al6S	ATOM	30704	N7 ADE	536	157.540	85.688	6.893	1.00	40.00	Al
ATOM	30652	C5' URI	534	163.380	89.337	13.925	1.00	49.55	Al6S	ATOM	30705	C8 ADE	536	158.185	84.769	6.218	1.00	40.00	Al

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ATOM	30706	C2' ADE	536	157.553	82.683	3.639	1.00	46.47	A16S	ATOM	30759	C6	CYT	539	150.592	92.611	-0.171	1.00	32.75	A16
ATOM	30707	O2' ADE	536	157.262	81.430	3.068	1.00	46.47	A16S	ATOM	30760	C2	CYT	539	149.970	94.160	1.552	1.00	32.75	A16
ATOM	30708	C3' ADE	536	158.893	83.205	3.149	1.00	46.47	A16S	ATOM	30761	O2	CYT	539	149.113	94.906	2.047	1.00	32.75	A16
ATOM	30709	C3' ADE	536	159.115	82.972	1.769	1.00	46.47	A16S	ATOM	30762	N3	CYT	539	151.168	93.952	2.149	1.00	32.75	A16
ATOM	30710	P	537	158.982	84.195	0.733	1.00	46.20	A16S	ATOM	30763	C4	CYT	539	152.054	93.110	1.602	1.00	32.75	A16
ATOM	30711	O1P	537	159.544	83.773	-0.593	1.00	38.58	A16S	ATOM	30764	N4	CYT	539	153.239	92.971	2.190	1.00	32.75	A16
ATOM	30712	O2P	537	159.504	85.437	1.394	1.00	38.58	A16S	ATOM	30765	C5	CYT	539	151.767	92.386	0.420	1.00	32.75	A16
ATOM	30713	O5' CYT	537	157.408	84.357	0.587	1.00	46.20	A16S	ATOM	30766	C2' CYT	539	148.638	95.020	-1.281	1.00	38.17	A16	
ATOM	30714	C5' CYT	537	156.615	83.288	0.080	1.00	46.20	A16S	ATOM	30767	O2' CYT	539	147.403	95.687	-1.415	1.00	38.17	A16	
ATOM	30715	C3' CYT	537	155.153	83.550	0.336	1.00	46.20	A16S	ATOM	30768	C3' CYT	539	149.047	94.350	-2.578	1.00	38.17	A16	
ATOM	30716	O4' CYT	537	154.882	83.493	1.761	1.00	46.20	A16S	ATOM	30769	O3' CYT	539	148.846	95.175	-3.709	1.00	38.17	A16	
ATOM	30717	C1' CYT	537	153.819	84.376	2.073	1.00	46.20	A16S	ATOM	30770	P	GUA	540	150.033	96.150	-4.190	1.00	36.99	A16
ATOM	30718	N1	537	154.297	85.377	3.037	1.00	38.58	A16S	ATOM	30771	O1P	GUA	540	149.501	96.867	-5.374	1.00	52.26	A16
ATOM	30719	C6	537	155.561	85.881	2.962	1.00	38.58	A16S	ATOM	30772	O2P	GUA	540	151.301	95.371	-4.308	1.00	52.26	A16
ATOM	30720	C2	537	153.426	85.819	4.024	1.00	38.58	A16S	ATOM	30773	O5' GUA	540	150.193	97.185	-2.992	1.00	36.99	A16	
ATOM	30721	O2	537	152.298	85.322	4.089	1.00	38.58	A16S	ATOM	30774	C5' GUA	540	149.031	97.858	-2.480	1.00	36.99	A16	
ATOM	30722	N3	537	153.832	86.772	4.889	1.00	38.58	A16S	ATOM	30775	C4' GUA	540	149.390	98.725	-1.311	1.00	36.99	A16	
ATOM	30723	C4	537	155.063	87.267	4.800	1.00	38.58	A16S	ATOM	30776	O4' GUA	540	149.823	97.921	-0.196	1.00	36.99	A16	
ATOM	30724	N4	537	155.425	88.209	5.673	1.00	38.58	A16S	ATOM	30777	C1' GUA	540	150.842	98.607	0.502	1.00	36.99	A16	
ATOM	30725	C5	537	153.365	85.036	0.770	1.00	46.20	A16S	ATOM	30778	N9	GUA	540	151.997	97.723	0.575	1.00	52.26	A16
ATOM	30726	C2' CYT	537	155.980	86.819	3.814	1.00	38.58	A16S	ATOM	30779	C4	GUA	540	153.034	97.821	1.459	1.00	52.26	A16
ATOM	30727	O2' CYT	537	152.271	84.324	0.229	1.00	46.20	A16S	ATOM	30780	N3	GUA	540	153.180	98.772	2.396	1.00	52.26	A16
ATOM	30728	C3' CYT	537	154.610	84.904	-0.092	1.00	46.20	A16S	ATOM	30781	C2	GUA	540	154.277	98.598	3.106	1.00	52.26	A16
ATOM	30729	O3' CYT	537	154.298	84.974	-1.475	1.00	46.20	A16S	ATOM	30782	N2	GUA	540	154.590	99.467	4.081	1.00	52.26	A16
ATOM	30730	P	538	154.244	86.412	-2.202	1.00	41.28	A16S	ATOM	30783	N1	GUA	540	155.153	97.567	2.918	1.00	52.26	A16
ATOM	30731	O1P	538	154.205	86.157	-3.674	1.00	40.11	A16S	ATOM	30784	C6	GUA	540	155.017	96.573	1.962	1.00	52.26	A16
ATOM	30732	O2P	538	155.283	87.312	-1.625	1.00	40.11	A16S	ATOM	30785	O6	GUA	540	155.869	95.683	1.877	1.00	52.26	A16
ATOM	30733	C5' CYT	538	152.840	87.020	-1.774	1.00	41.28	A16S	ATOM	30786	C5	GUA	540	153.849	96.752	1.187	1.00	52.26	A16
ATOM	30734	C5' CYT	538	151.619	86.499	-2.299	1.00	41.28	A16S	ATOM	30787	N7	GUA	540	153.341	95.998	0.140	1.00	52.26	A16
ATOM	30735	C4' CYT	538	150.466	87.323	-1.805	1.00	41.28	A16S	ATOM	30788	C8	GUA	540	152.247	96.616	-0.198	1.00	52.26	A16
ATOM	30736	O4' CYT	538	150.337	87.183	-0.365	1.00	41.28	A16S	ATOM	30789	C2' GUA	540	151.093	99.947	-0.200	1.00	36.99	A16	
ATOM	30737	C1' CYT	538	149.859	88.393	0.196	1.00	41.28	A16S	ATOM	30790	O2' GUA	540	150.379	100.989	0.435	1.00	36.99	A16	
ATOM	30738	N1	538	150.826	88.872	1.207	1.00	40.11	A16S	ATOM	30791	C3' GUA	540	150.528	99.679	-1.581	1.00	36.99	A16	
ATOM	30739	C6	538	152.134	88.491	1.157	1.00	40.11	A16S	ATOM	30792	O3' GUA	540	149.987	100.840	-2.143	1.00	36.99	A16	
ATOM	30740	C2	538	150.384	89.742	2.226	1.00	40.11	A16S	ATOM	30793	P	GUA	541	150.680	101.473	-3.420	1.00	30.86	A16
ATOM	30741	O2	538	149.191	90.049	2.287	1.00	40.11	A16S	ATOM	30794	O1P	GUA	541	149.777	102.516	-3.985	1.00	48.17	A16
ATOM	30742	N3	538	151.269	90.215	3.125	1.00	40.11	A16S	ATOM	30795	O2P	GUA	541	151.105	100.326	-4.272	1.00	48.17	A16
ATOM	30743	C4	538	152.541	89.837	3.061	1.00	40.11	A16S	ATOM	30796	O5' GUA	541	151.940	102.205	-2.782	1.00	30.86	A16	
ATOM	30744	N4	538	153.376	90.315	3.975	1.00	40.11	A16S	ATOM	30797	C5' GUA	541	151.756	103.261	-1.842	1.00	30.86	A16	
ATOM	30745	C5	538	153.015	88.943	2.056	1.00	40.11	A16S	ATOM	30798	C4' GUA	541	153.018	103.482	-1.048	1.00	30.86	A16	
ATOM	30746	C2' CYT	538	149.654	89.373	-0.959	1.00	41.28	A16S	ATOM	30799	O4' GUA	541	153.293	102.340	-0.201	1.00	30.86	A16	
ATOM	30747	O2' CYT	538	148.306	89.312	-1.394	1.00	41.28	A16S	ATOM	30800	C1' GUA	541	154.685	102.151	-0.093	1.00	30.86	A16	
ATOM	30748	C3' CYT	538	150.600	88.815	-2.011	1.00	41.28	A16S	ATOM	30801	N9	GUA	541	154.969	100.841	-0.659	1.00	48.17	A16
ATOM	30749	O3' CYT	538	150.230	89.206	-3.317	1.00	41.28	A16S	ATOM	30802	C4	GUA	541	155.842	99.888	-0.185	1.00	48.17	A16
ATOM	30750	P	539	150.828	90.564	-3.925	1.00	38.17	A16S	ATOM	30803	N3	GUA	541	155.630	99.997	0.904	1.00	48.17	A16
ATOM	30751	O1P	539	150.417	90.654	-5.352	1.00	32.75	A16S	ATOM	30804	C2	GUA	541	157.343	98.901	1.111	1.00	48.17	A16
ATOM	30752	O2P	539	152.268	90.615	-3.557	1.00	32.75	A16S	ATOM	30805	N2	GUA	541	158.174	98.833	2.148	1.00	48.17	A16
ATOM	30753	O5' CYT	539	150.060	91.714	-3.141	1.00	38.17	A16S	ATOM	30806	N1	GUA	541	157.292	97.787	0.317	1.00	48.17	A16
ATOM	30754	C5' CYT	539	148.673	91.962	-3.411	1.00	38.17	A16S	ATOM	30807	C6	GUA	541	156.485	97.643	-0.807	1.00	48.17	A16
ATOM	30755	C4' CYT	539	148.173	93.113	-2.586	1.00	38.17	A16S	ATOM	30808	O6	GUA	541	156.492	96.570	-1.453	1.00	48.17	A16
ATOM	30756	O4' CYT	539	148.121	92.710	-1.203	1.00	38.17	A16S	ATOM	30809	C5	GUA	541	155.717	98.821	-1.047	1.00	48.17	A16
ATOM	30757	C1' CYT	539	148.446	93.811	-0.372	1.00	38.17	A16S	ATOM	30810	N7	GUA	541	154.801	99.106	-2.052	1.00	48.17	A16
ATOM	30758	N1	539	149.695	93.502	0.347	1.00	32.75	A16S	ATOM	30811	C8	GUA	541	154.387	100.310	-1.782	1.00	48.17	A16

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ATOM	30812	C2' GUA	541	155.368	103.295	-0.850	1.00	30.86	A16S	ATOM	30865	C1' URI	544	157.827	100.578	-10.765	1.00	34.49	A16
ATOM	30813	O2' GUA	541	155.678	104.316	0.065	1.00	30.86	A16S	ATOM	30866	N1 URI	544	158.917	100.736	-9.796	1.00	52.52	A16
ATOM	30814	C3' GUA	541	154.289	103.711	-1.846	1.00	30.86	A16S	ATOM	30867	C6 URI	544	159.194	101.950	-9.236	1.00	52.52	A16
ATOM	30815	O3' GUA	541	154.373	105.092	-2.176	1.00	30.86	A16S	ATOM	30868	C2 URI	544	159.640	99.605	-9.454	1.00	52.52	A16
ATOM	30816	P ADE	542	155.099	105.569	-3.523	1.00	40.84	A16S	ATOM	30869	O2 URI	544	159.440	98.503	-9.950	1.00	52.52	A16
ATOM	30817	O1P ADE	542	156.481	105.948	-3.152	1.00	40.84	A16S	ATOM	30870	N3 URI	544	160.602	99.809	-8.506	1.00	52.52	A16
ATOM	30818	O2P ADE	542	154.219	106.555	-4.180	1.00	45.92	A16S	ATOM	30871	C4 URI	544	160.903	100.999	-7.878	1.00	52.52	A16
ATOM	30819	O5' ADE	542	155.166	104.280	-4.446	1.00	40.84	A16S	ATOM	30872	O4 URI	544	161.695	101.002	-6.935	1.00	52.52	A16
ATOM	30820	C5' ADE	542	155.184	104.420	-5.883	1.00	40.84	A16S	ATOM	30873	C5 URI	544	160.132	102.116	-8.316	1.00	52.52	A16
ATOM	30821	C4' ADE	542	154.764	103.131	-6.529	1.00	40.84	A16S	ATOM	30874	C2' URI	544	156.456	100.550	-10.110	1.00	34.49	A16
ATOM	30822	O4' ADE	542	155.867	102.216	-6.505	1.00	40.84	A16S	ATOM	30875	O2' URI	544	156.205	99.247	-9.608	1.00	34.49	A16
ATOM	30823	C1' ADE	542	155.381	100.911	-6.378	1.00	40.84	A16S	ATOM	30876	C3' URI	544	155.568	100.981	-11.274	1.00	34.49	A16
ATOM	30824	N9 ADE	542	156.419	100.113	-5.718	1.00	45.92	A16S	ATOM	30877	O3' URI	544	155.303	99.847	-12.081	1.00	34.49	A16
ATOM	30825	C4 ADE	542	157.089	100.382	-4.547	1.00	45.92	A16S	ATOM	30878	P CYT	545	154.010	98.953	-11.789	1.00	35.85	A16
ATOM	30826	N3 ADE	542	156.938	101.447	-3.745	1.00	45.92	A16S	ATOM	30879	O1P CYT	545	153.604	99.148	-10.372	1.00	39.30	A16
ATOM	30827	C2 ADE	542	157.740	101.346	-2.681	1.00	45.92	A16S	ATOM	30880	O2P CYT	545	154.257	97.582	-12.297	1.00	39.30	A16
ATOM	30828	N1 ADE	542	158.614	100.381	-2.362	1.00	45.92	A16S	ATOM	30881	O5' CYT	545	152.890	99.608	-12.702	1.00	35.85	A16
ATOM	30829	C6 ADE	542	158.752	99.337	-3.204	1.00	45.92	A16S	ATOM	30882	C5' CYT	545	153.112	99.793	-14.091	1.00	35.85	A16
ATOM	30830	N6 ADE	542	159.642	98.390	-2.908	1.00	45.92	A16S	ATOM	30883	C4' CYT	545	151.969	99.230	-14.884	1.00	35.85	A16
ATOM	30831	C5 ADE	542	157.951	99.317	-4.352	1.00	45.92	A16S	ATOM	30884	O4' CYT	545	152.569	98.767	-16.107	1.00	35.85	A16
ATOM	30832	N7 ADE	542	157.837	98.404	-5.381	1.00	45.92	A16S	ATOM	30885	C1' CYT	545	152.398	97.379	-16.238	1.00	35.85	A16
ATOM	30833	C8 ADE	542	156.925	98.923	-6.165	1.00	45.92	A16S	ATOM	30886	N1 CYT	545	153.658	96.830	-16.753	1.00	39.30	A16
ATOM	30834	C2' ADE	542	154.000	100.968	-5.708	1.00	40.84	A16S	ATOM	30887	C6 CYT	545	154.819	96.917	-16.028	1.00	39.30	A16
ATOM	30835	O2' ADE	542	153.100	100.103	-6.352	1.00	40.84	A16S	ATOM	30888	C2 CYT	545	153.654	96.228	-17.994	1.00	39.30	A16
ATOM	30836	C3' ADE	542	153.647	102.461	-5.768	1.00	40.84	A16S	ATOM	30889	O2 CYT	545	152.593	96.169	-18.621	1.00	39.30	A16
ATOM	30837	O3' ADE	542	152.341	102.983	-6.108	1.00	40.84	A16S	ATOM	30890	N3 CYT	545	154.809	95.728	-18.489	1.00	39.30	A16
ATOM	30838	P URI	543	151.620	102.612	-7.497	1.00	39.19	A16S	ATOM	30891	C4 CYT	545	155.939	95.827	-17.782	1.00	39.30	A16
ATOM	30839	O1P URI	543	150.165	102.781	-7.260	1.00	57.85	A16S	ATOM	30892	N4 CYT	545	157.060	95.340	-18.319	1.00	39.30	A16
ATOM	30840	O2P URI	543	152.113	101.335	-8.033	1.00	57.85	A16S	ATOM	30893	C5 CYT	545	155.970	96.434	-16.500	1.00	39.30	A16
ATOM	30841	O5' URI	543	152.088	103.745	-8.495	1.00	39.19	A16S	ATOM	30894	C2' CYT	545	152.010	96.848	-14.863	1.00	35.85	A16
ATOM	30842	C5' URI	543	152.900	103.408	-9.619	1.00	39.19	A16S	ATOM	30895	O2' CYT	545	151.226	95.685	-15.016	1.00	35.85	A16
ATOM	30843	C4' URI	543	153.292	104.643	-10.369	1.00	39.19	A16S	ATOM	30896	C3' CYT	545	151.249	98.028	-14.272	1.00	35.85	A16
ATOM	30844	O4' URI	543	152.100	105.211	-10.968	1.00	39.19	A16S	ATOM	30897	O3' CYT	545	149.891	97.953	-14.754	1.00	35.85	A16
ATOM	30845	N1 URI	543	152.134	106.623	-10.875	1.00	39.19	A16S	ATOM	30898	P ADE	546	148.712	98.802	-14.048	1.00	32.76	A16
ATOM	30846	C1' URI	543	151.019	107.052	-10.012	1.00	57.85	A16S	ATOM	30899	O1P ADE	546	148.800	98.670	-12.568	1.00	35.45	A16
ATOM	30847	C6 URI	543	150.646	106.309	-8.918	1.00	57.85	A16S	ATOM	30900	O2P ADE	546	147.448	98.475	-14.743	1.00	35.45	A16
ATOM	30848	C2 URI	543	150.354	108.228	-10.327	1.00	57.85	A16S	ATOM	30901	O5' ADE	546	149.079	100.306	-14.398	1.00	32.76	A16
ATOM	30849	O2 URI	543	150.653	108.928	-11.278	1.00	57.85	A16S	ATOM	30902	C5' ADE	546	148.250	101.377	-13.956	1.00	32.76	A16
ATOM	30850	N3 URI	543	149.326	108.558	-9.476	1.00	57.85	A16S	ATOM	30903	C4' ADE	546	148.651	102.655	-14.639	1.00	32.76	A16
ATOM	30851	C4 URI	543	148.907	107.852	-8.366	1.00	57.85	A16S	ATOM	30904	O4' ADE	546	149.971	103.046	-14.229	1.00	32.76	A16
ATOM	30852	O4 URI	543	147.970	108.278	-7.687	1.00	57.85	A16S	ATOM	30905	C1' ADE	546	150.477	103.941	-15.186	1.00	32.76	A16
ATOM	30853	C5 URI	543	149.644	106.661	-8.110	1.00	57.85	A16S	ATOM	30906	N9 ADE	546	151.923	103.795	-15.221	1.00	35.45	A16
ATOM	30854	O2' URI	543	153.506	107.009	-10.313	1.00	39.19	A16S	ATOM	30907	C4 ADE	546	152.690	102.966	-16.001	1.00	35.45	A16
ATOM	30855	O2' URI	543	154.384	107.296	-11.392	1.00	39.19	A16S	ATOM	30908	N3 ADE	546	152.272	102.097	-16.936	1.00	35.45	A16
ATOM	30856	C3' URI	543	153.860	105.759	-9.512	1.00	39.19	A16S	ATOM	30909	C2 ADE	546	153.306	101.472	-17.487	1.00	35.45	A16
ATOM	30857	O3' URI	543	155.213	105.557	-9.039	1.00	39.19	A16S	ATOM	30910	N1 ADE	546	154.604	101.605	-17.227	1.00	35.45	A16
ATOM	30858	P URI	544	156.437	105.317	-10.057	1.00	34.49	A16S	ATOM	30911	C6 ADE	546	154.981	102.483	-16.273	1.00	35.45	A16
ATOM	30859	O1P URI	544	157.632	105.435	-9.182	1.00	52.52	A16S	ATOM	30912	N6 ADE	546	156.272	102.621	-15.995	1.00	35.45	A16
ATOM	30860	O2P URI	544	156.342	106.151	-11.285	1.00	52.52	A16S	ATOM	30913	C5 ADE	546	153.993	103.204	-15.625	1.00	35.45	A16
ATOM	30861	O5' URI	544	156.304	103.787	-10.481	1.00	34.49	A16S	ATOM	30914	N7 ADE	546	154.051	104.167	-14.633	1.00	35.45	A16
ATOM	30862	C5' URI	544	156.186	103.422	-11.866	1.00	34.49	A16S	ATOM	30915	C8 ADE	546	152.800	104.484	-14.431	1.00	35.45	A16
ATOM	30863	C4' URI	544	156.452	101.952	-12.053	1.00	34.49	A16S	ATOM	30916	C2' ADE	546	149.688	103.759	-16.490	1.00	32.76	A16
ATOM	30864	O4' URI	544	157.812	101.676	-11.652	1.00	34.49	A16S	ATOM	30917	O2' ADE	546	149.026	104.963	-16.839	1.00	32.76	A16

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ATOM	30918	C3' ADE	546	148.732	102.610	-16.152	1.00	32.76	Al6S	ATOM	30971	C2	GUA	549	149.221	103.765	-11.095	1.00	44.46	Al6
ATOM	30919	O3' ADE	546	147.425	102.892	-16.591	1.00	32.76	Al6S	ATOM	30972	N2	GUA	549	150.192	102.925	-11.442	1.00	44.46	Al6
ATOM	30920	P CYT	547	146.978	102.551	-18.082	1.00	30.53	Al6S	ATOM	30973	N1	GUA	549	148.556	103.451	-9.947	1.00	44.46	Al6
ATOM	30921	O1P CYT	547	147.464	101.187	-18.364	1.00	54.04	Al6S	ATOM	30974	C6	GUA	549	147.521	104.191	-9.396	1.00	44.46	Al6
ATOM	30922	O2P CYT	547	147.364	103.690	-18.973	1.00	54.04	Al6S	ATOM	30975	O6	GUA	549	147.017	103.834	-8.331	1.00	44.46	Al6
ATOM	30923	O5' CYT	547	145.392	102.509	-17.945	1.00	30.53	Al6S	ATOM	30976	C5	GUA	549	147.205	105.323	-10.189	1.00	44.46	Al6
ATOM	30924	C5' CYT	547	144.517	102.996	-18.987	1.00	30.53	Al6S	ATOM	30977	N7	GUA	549	146.245	106.307	-10.010	1.00	44.46	Al6
ATOM	30925	C4' CYT	547	143.209	103.444	-18.380	1.00	30.53	Al6S	ATOM	30978	C8	GUA	549	146.403	107.106	-11.028	1.00	44.46	Al6
ATOM	30926	O4' CYT	547	142.569	102.316	-17.735	1.00	30.53	Al6S	ATOM	30979	C2' GUA	549	146.873	107.285	-14.265	1.00	40.57	Al6	
ATOM	30927	C1' CYT	547	141.959	102.740	-16.531	1.00	30.53	Al6S	ATOM	30980	O2' GUA	549	147.035	106.041	-14.886	1.00	40.57	Al6	
ATOM	30928	N1' CYT	547	142.527	101.992	-15.404	1.00	54.04	Al6S	ATOM	30981	C3' GUA	549	147.340	108.460	-15.118	1.00	40.57	Al6	
ATOM	30929	C6 CYT	547	143.669	101.259	-15.537	1.00	54.04	Al6S	ATOM	30982	O3' GUA	549	148.529	108.045	-15.765	1.00	40.57	Al6	
ATOM	30930	C2 CYT	547	141.880	102.062	-14.176	1.00	54.04	Al6S	ATOM	30983	P GUA	550	149.082	108.836	-17.048	1.00	42.98	Al6	
ATOM	30931	O2 CYT	547	140.845	102.744	-14.082	1.00	54.04	Al6S	ATOM	30984	O1P GUA	550	148.983	110.301	-16.810	1.00	32.31	Al6	
ATOM	30932	N3 CYT	547	142.391	101.399	-13.118	1.00	54.04	Al6S	ATOM	30985	O2P GUA	550	148.485	108.230	-18.293	1.00	32.31	Al6	
ATOM	30933	C4 CYT	547	143.506	100.692	-13.252	1.00	54.04	Al6S	ATOM	30986	O5' GUA	550	150.622	108.469	-16.989	1.00	42.98	Al6	
ATOM	30934	N4 CYT	547	143.971	100.054	-12.178	1.00	54.04	Al6S	ATOM	30987	C5' GUA	550	151.384	108.761	-15.816	1.00	42.98	Al6	
ATOM	30935	C5 CYT	547	144.193	100.604	-14.493	1.00	54.04	Al6S	ATOM	30988	C4' GUA	550	152.832	108.453	-16.059	1.00	42.98	Al6	
ATOM	30936	C2' CYT	547	142.204	104.241	-16.365	1.00	30.53	Al6S	ATOM	30989	O4' GUA	550	153.054	107.022	-16.047	1.00	42.98	Al6	
ATOM	30937	O2' CYT	547	141.083	104.985	-16.770	1.00	30.53	Al6S	ATOM	30990	C1' GUA	550	154.089	106.699	-16.958	1.00	42.98	Al6	
ATOM	30938	C3' CYT	547	143.394	104.473	-17.274	1.00	30.53	Al6S	ATOM	30991	N9 GUA	550	153.590	105.723	-17.932	1.00	32.31	Al6	
ATOM	30939	O3' CYT	547	143.333	105.784	-17.797	1.00	30.53	Al6S	ATOM	30992	C4 GUA	550	154.356	104.835	-18.669	1.00	32.31	Al6	
ATOM	30940	P URI	548	144.278	106.920	-17.199	1.00	36.32	Al6S	ATOM	30993	N3 GUA	550	155.701	104.674	-18.586	1.00	32.31	Al6	
ATOM	30941	O1P URI	548	143.940	108.131	-17.980	1.00	55.32	Al6S	ATOM	30994	C2 GUA	550	156.144	103.746	-19.422	1.00	32.31	Al6	
ATOM	30942	O2P URI	548	145.688	106.440	-17.153	1.00	55.32	Al6S	ATOM	30995	N2 GUA	550	157.443	103.430	-19.443	1.00	32.31	Al6	
ATOM	30943	O5' URI	548	143.734	107.132	-15.725	1.00	36.32	Al6S	ATOM	30996	N1 GUA	550	155.342	103.053	-20.291	1.00	32.31	Al6	
ATOM	30944	C5' URI	548	142.500	107.828	-15.523	1.00	36.32	Al6S	ATOM	30997	C6 GUA	550	153.965	103.205	-20.403	1.00	32.31	Al6	
ATOM	30945	C4' URI	548	142.096	107.785	-14.081	1.00	36.32	Al6S	ATOM	30998	O6 GUA	550	153.344	102.531	-21.223	1.00	32.31	Al6	
ATOM	30946	O4' URI	548	141.834	106.415	-13.701	1.00	36.32	Al6S	ATOM	30999	C5 GUA	550	153.467	104.182	-19.490	1.00	32.31	Al6	
ATOM	30947	C1' URI	548	142.137	106.244	-12.333	1.00	36.32	Al6S	ATOM	31000	N7 GUA	550	152.173	104.622	-19.259	1.00	32.31	Al6	
ATOM	30948	N1 URI	548	143.130	105.167	-12.185	1.00	55.32	Al6S	ATOM	31001	C8 GUA	550	152.293	105.527	-18.325	1.00	32.31	Al6	
ATOM	30949	C6 URI	548	144.205	105.059	-13.029	1.00	55.32	Al6S	ATOM	31002	C2' GUA	550	154.562	108.008	-17.602	1.00	42.98	Al6	
ATOM	30950	C2 URI	548	142.962	104.277	-11.134	1.00	55.32	Al6S	ATOM	31003	O2' GUA	550	155.669	108.524	-16.900	1.00	42.98	Al6	
ATOM	30951	O2 URI	548	141.991	104.286	-10.396	1.00	55.32	Al6S	ATOM	31004	C3' GUA	550	153.358	108.908	-17.403	1.00	42.98	Al6	
ATOM	30952	N3 URI	548	143.971	103.365	-10.981	1.00	55.32	Al6S	ATOM	31005	O3' GUA	550	153.714	110.276	-17.359	1.00	42.98	Al6	
ATOM	30953	C4 URI	548	145.089	103.232	-11.760	1.00	55.32	Al6S	ATOM	31006	P GUA	551	154.019	111.064	-18.722	1.00	39.12	Al6	
ATOM	30954	O4 URI	548	145.964	102.439	-11.418	1.00	55.32	Al6S	ATOM	31007	O1P GUA	551	154.176	112.480	-18.325	1.00	38.72	Al6	
ATOM	30955	C5 URI	548	145.163	104.145	-12.859	1.00	55.32	Al6S	ATOM	31008	O2P GUA	551	153.054	110.702	-19.789	1.00	38.72	Al6	
ATOM	30956	C2' URI	548	142.629	107.590	-11.793	1.00	36.32	Al6S	ATOM	31009	O5' GUA	551	155.449	110.499	-19.117	1.00	39.12	Al6	
ATOM	30957	O2' URI	548	141.540	108.263	-11.180	1.00	36.32	Al6S	ATOM	31010	C5' GUA	551	155.810	110.246	-20.480	1.00	39.12	Al6	
ATOM	30958	C3' URI	548	143.107	108.281	-13.065	1.00	36.32	Al6S	ATOM	31011	C4' GUA	551	156.823	109.139	-20.529	1.00	39.12	Al6	
ATOM	30959	O3' URI	548	143.076	109.700	-12.940	1.00	36.32	Al6S	ATOM	31012	O4' GUA	551	156.166	107.869	-20.285	1.00	39.12	Al6	
ATOM	30960	P GUA	549	144.428	110.501	-12.585	1.00	40.57	Al6S	ATOM	31013	C1' GUA	551	156.813	106.849	-21.021	1.00	39.12	Al6	
ATOM	30961	O1P GUA	549	144.178	111.969	-12.707	1.00	44.46	Al6S	ATOM	31014	N9 GUA	551	155.818	106.165	-21.854	1.00	38.72	Al6	
ATOM	30962	O2P GUA	549	144.969	109.965	-11.313	1.00	44.46	Al6S	ATOM	31015	C4 GUA	551	156.048	105.172	-22.789	1.00	38.72	Al6	
ATOM	30963	O5' GUA	549	145.417	110.060	-13.754	1.00	40.57	Al6S	ATOM	31016	N3 GUA	551	157.246	104.651	-23.121	1.00	38.72	Al6	
ATOM	30964	C5' GUA	549	146.743	110.596	-13.838	1.00	40.57	Al6S	ATOM	31017	C2 GUA	551	157.139	103.723	-24.060	1.00	38.72	Al6	
ATOM	30965	C4' GUA	549	147.737	109.488	-14.071	1.00	40.57	Al6S	ATOM	31018	N2 GUA	551	158.233	103.112	-24.524	1.00	38.72	Al6	
ATOM	30966	O4' GUA	549	147.979	108.750	-12.839	1.00	40.57	Al6S	ATOM	31019	N1 GUA	551	155.955	103.329	-24.622	1.00	38.72	Al6	
ATOM	30967	C1' GUA	549	147.842	107.372	-13.092	1.00	40.57	Al6S	ATOM	31020	C6 GUA	551	154.710	103.850	-24.304	1.00	38.72	Al6	
ATOM	30968	N9 GUA	549	147.409	106.709	-11.871	1.00	44.46	Al6S	ATOM	31021	O6 GUA	551	153.706	103.434	-24.889	1.00	38.72	Al6	
ATOM	30969	C4 GUA	549	147.933	105.555	-11.333	1.00	44.46	Al6S	ATOM	31022	C5 GUA	551	154.805	104.850	-23.297	1.00	38.72	Al6	
ATOM	30970	N3 GUA	549	148.951	104.826	-11.841	1.00	44.46	Al6S	ATOM	31023	N7 GUA	551	153.816	105.612	-22.697	1.00	38.72	Al6	

Table 1 - 293/490

ATOM	16396	N	ASP	36	211.701	119.008	-78.710	1.00108.23	KS11	ATOM	16449	CH2	TRP	42	218.620	109.293	-64.361	1.00	46.20
ATOM	16397	CA	ASP	36	210.291	119.206	-79.013	1.00108.23	KS11	ATOM	16450	C	TRP	42	219.307	114.556	-66.201	1.00	75.69
ATOM	16398	CB	ASP	36	210.052	119.417	-80.515	1.00 94.09	KS11	ATOM	16451	O	TRP	42	220.443	114.087	-66.225	1.00	75.69
ATOM	16399	CG	ASP	36	209.890	118.106	-81.287	1.00 94.09	KS11	ATOM	16452	N	SER	43	218.735	114.994	-65.089	1.00	63.73
ATOM	16400	OD1	ASP	36	209.624	118.174	-82.509	1.00 94.09	KS11	ATOM	16453	CA	SER	43	219.423	114.940	-63.811	1.00	63.73
ATOM	16401	OD2	ASP	36	210.026	117.014	-80.689	1.00 94.09	KS11	ATOM	16454	CB	SER	43	220.076	116.287	-63.516	1.00	79.37
ATOM	16402	C	ASP	36	209.607	117.930	-78.544	1.00108.23	KS11	ATOM	16455	OG	SER	43	220.913	116.202	-62.380	1.00	79.37
ATOM	16403	O	ASP	36	208.469	117.640	-78.921	1.00108.23	KS11	ATOM	16456	C	SER	43	218.399	114.601	-62.731	1.00	63.73
ATOM	16404	N	GLY	37	210.330	117.152	-77.741	1.00 77.93	KS11	ATOM	16457	O	SER	43	217.272	114.212	-63.045	1.00	63.73
ATOM	16405	CA	GLY	37	209.761	115.930	-77.224	1.00 77.93	KS11	ATOM	16458	N	SER	44	218.786	114.747	-61.465	1.00	44.19
ATOM	16406	C	GLY	37	210.735	114.884	-76.728	1.00 77.93	KS11	ATOM	16459	CA	SER	44	217.881	114.455	-60.357	1.00	44.19
ATOM	16407	O	GLY	37	210.523	114.302	-75.664	1.00 77.93	KS11	ATOM	16460	CB	SER	44	217.214	113.098	-60.551	1.00	43.64
ATOM	16408	N	ASN	38	211.801	114.629	-77.082	1.00 60.10	KS11	ATOM	16461	OG	SER	44	218.072	112.068	-60.083	1.00	43.64
ATOM	16409	CA	ASN	38	212.747	113.598	-77.480	1.00 60.10	KS11	ATOM	16462	C	SER	44	218.639	114.404	-59.053	1.00	44.19
ATOM	16410	CB	ASN	38	213.389	112.981	-78.314	1.00 73.76	KS11	ATOM	16463	O	SER	44	219.861	114.304	-59.045	1.00	44.19
ATOM	16411	CG	ASN	38	212.446	112.943	-79.486	1.00 73.76	KS11	ATOM	16464	N	GLY	45	217.897	114.431	-57.950	1.00	44.49
ATOM	16412	OD1	ASN	38	212.159	113.975	-80.087	1.00 73.76	KS11	ATOM	16465	CA	GLY	45	218.513	114.369	-56.631	1.00	44.49
ATOM	16413	ND2	ASN	38	211.942	111.760	-79.812	1.00 73.76	KS11	ATOM	16466	C	GLY	45	219.531	113.249	-56.543	1.00	44.49
ATOM	16414	C	ASN	38	213.814	114.083	-76.123	1.00 60.10	KS11	ATOM	16467	O	GLY	45	220.571	113.389	-55.902	1.00	44.49
ATOM	16415	O	ASN	38	214.555	115.021	-76.392	1.00 60.10	KS11	ATOM	16468	N	GLY	46	219.230	112.128	-57.185	1.00	51.23
ATOM	16416	N	PRO	39	213.907	113.427	-74.972	1.00 58.35	KS11	ATOM	16469	CA	GLY	46	220.168	111.026	-57.166	1.00	51.23
ATOM	16417	CD	PRO	39	213.167	112.228	-74.537	1.00 53.00	KS11	ATOM	16470	C	GLY	46	221.395	111.397	-57.987	1.00	51.23
ATOM	16418	CA	PRO	39	214.904	113.825	-73.985	1.00 58.35	KS11	ATOM	16471	O	GLY	46	222.506	111.487	-57.452	1.00	51.23
ATOM	16419	CB	PRO	39	214.720	112.779	-72.881	1.00 53.00	KS11	ATOM	16472	N	VAL	47	221.175	111.611	-59.287	1.00	76.66
ATOM	16420	CG	PRO	39	214.138	111.581	-73.613	1.00 53.00	KS11	ATOM	16473	CA	VAL	47	222.216	111.987	-60.243	1.00	76.66
ATOM	16421	C	PRO	39	216.344	113.901	-74.505	1.00 58.35	KS11	ATOM	16474	CB	VAL	47	221.631	112.874	-61.374	1.00	52.12
ATOM	16422	O	PRO	39	216.834	112.981	-75.159	1.00 58.35	KS11	ATOM	16475	CG1	VAL	47	222.742	113.521	-62.193	1.00	52.12
ATOM	16423	N	ILE	40	217.001	115.023	-74.215	1.00 67.87	KS11	ATOM	16476	CG2	VAL	47	220.746	112.031	-62.270	1.00	52.12
ATOM	16424	CA	ILE	40	218.397	115.241	-74.585	1.00 67.87	KS11	ATOM	16477	C	VAL	47	223.346	112.732	-59.557	1.00	76.66
ATOM	16425	CB	ILE	40	218.731	116.722	-74.733	1.00 87.66	KS11	ATOM	16478	O	VAL	47	224.507	112.340	-59.665	1.00	76.66
ATOM	16426	CG2	ILE	40	220.194	116.887	-75.033	1.00 87.66	KS11	ATOM	16479	N	ILE	48	223.013	113.809	-58.858	1.00	57.32
ATOM	16427	CG1	ILE	40	217.910	117.343	-75.848	1.00 87.66	KS11	ATOM	16480	CA	ILE	48	224.028	114.560	-58.145	1.00	57.32
ATOM	16428	CD1	ILE	40	218.068	118.854	-75.917	1.00 87.66	KS11	ATOM	16481	CB	ILE	48	223.707	116.074	-58.133	1.00	72.29
ATOM	16429	C	ILE	40	219.907	114.734	-73.392	1.00 67.87	KS11	ATOM	16482	CG2	ILE	48	224.314	116.737	-59.339	1.00	72.29
ATOM	16430	O	ILE	40	219.031	115.427	-72.268	1.00 67.87	KS11	ATOM	16483	CG1	ILE	48	222.200	116.310	-58.138	1.00	72.29
ATOM	16431	N	THR	41	219.711	115.081	-71.026	1.00 71.23	KS11	ATOM	16484	CD1	ILE	48	221.607	116.476	-56.766	1.00	72.29
ATOM	16432	CA	THR	41	220.839	116.067	-70.716	1.00 75.51	KS11	ATOM	16485	C	ILE	48	224.126	114.029	-56.720	1.00	57.32
ATOM	16433	CB	THR	41	220.310	117.401	-70.680	1.00 75.51	KS11	ATOM	16486	O	ILE	48	223.277	114.317	-55.892	1.00	57.32
ATOM	16435	CG2	THR	41	221.923	115.979	-71.765	1.00 75.51	KS11	ATOM	16487	N	GLY	49	225.146	113.225	-56.446	1.00	74.94
ATOM	16436	C	THR	41	218.757	115.112	-69.843	1.00 71.23	KS11	ATOM	16488	CA	GLY	49	225.325	112.669	-55.111	1.00	74.94
ATOM	16437	O	THR	41	217.608	115.539	-69.966	1.00 71.23	KS11	ATOM	16489	C	GLY	49	223.646	111.016	-54.666	1.00	74.94
ATOM	16439	N	TRP	42	219.251	114.667	-68.692	1.00 75.69	KS11	ATOM	16490	O	GLY	49	223.526	112.971	-53.528	1.00	70.98
ATOM	16439	CA	TRP	42	218.463	114.659	-67.467	1.00 75.69	KS11	ATOM	16491	N	TYR	50	222.316	112.694	-52.731	1.00	70.98
ATOM	16440	CB	TRP	42	217.480	113.508	-67.481	1.00 46.20	KS11	ATOM	16492	CA	TYR	50	221.317	113.836	-52.924	1.00	55.92
ATOM	16441	CD2	TRP	42	218.101	112.180	-67.369	1.00 46.20	KS11	ATOM	16493	CB	TYR	50	221.795	115.141	-52.318	1.00	55.92
ATOM	16442	CE2	TRP	42	218.176	111.363	-66.193	1.00 46.20	KS11	ATOM	16495	CD1	TYR	50	221.411	116.362	-52.852	1.00	55.92
ATOM	16443	CE3	TRP	42	218.798	110.146	-66.567	1.00 46.20	KS11	ATOM	16496	CE1	TYR	50	221.868	117.549	-52.316	1.00	55.92
ATOM	16444	CE3	TRP	42	217.773	111.535	-64.862	1.00 46.20	KS11	ATOM	16497	CE2	TYR	50	222.649	115.143	-51.279	1.00	55.92
ATOM	16445	CD1	TRP	42	218.669	111.462	-68.369	1.00 46.20	KS11	ATOM	16498	CE2	TYR	50	223.111	116.326	-50.675	1.00	55.92
ATOM	16446	CE1	TRP	42	219.089	110.232	-67.901	1.00 46.20	KS11	ATOM	16499	C2	TYR	50	222.720	117.525	-51.228	1.00	55.92
ATOM	16447	C22	TRP	42	219.026	109.104	-65.658	1.00 46.20	KS11	ATOM	16500	OH	TYR	50	223.200	118.700	-50.696	1.00	55.92
ATOM	16448	C23	TRP	42	218.000	110.493	-63.955	1.00 46.20	KS11	ATOM	16501	C	TYR	50	221.601	111.356	-52.912	1.00	70.98

Table 2 - 156/482

ATOM	16502	O	TYR	50	221.144	111.023	-54.005	1.00	70.98	KS11	ATOM	16555	CA	PRO	58	215.412	121.969	-52.706	1.00	78.44	KS
ATOM	16503	N	LYS	51	221.495	110.609	-51.813	1.00	74.85	KS11	ATOM	16556	CB	PRO	58	214.868	123.305	-52.183	1.00	54.95	KS
ATOM	16504	CA	LYS	51	220.866	109.295	-51.816	1.00	74.85	KS11	ATOM	16557	CG	PRO	58	214.675	123.078	-50.687	1.00	54.95	KS
ATOM	16505	CB	LYS	51	221.779	108.275	-51.133	1.00	97.97	KS11	ATOM	16558	C	PRO	58	216.940	121.924	-52.778	1.00	78.44	KS
ATOM	16506	CG	LYS	51	222.792	107.630	-52.056	1.00	97.97	KS11	ATOM	16559	O	PRO	58	217.549	121.109	-52.093	1.00	78.44	KS
ATOM	16507	CD	LYS	51	222.818	106.114	-51.866	1.00	97.97	KS11	ATOM	16560	N	TYR	59	217.576	122.780	-53.565	1.00	92.26	KS
ATOM	16508	CE	LYS	51	221.453	105.492	-52.167	1.00	97.97	KS11	ATOM	16561	CA	TYR	59	219.038	122.720	-53.673	1.00	92.26	KS
ATOM	16509	NZ	LYS	51	221.415	104.017	-51.942	1.00	97.97	KS11	ATOM	16562	CB	TYR	59	219.723	122.779	-52.300	1.00	69.63	KS
ATOM	16510	C	LYS	51	219.484	109.203	-51.184	1.00	74.85	KS11	ATOM	16563	CG	TYR	59	221.229	122.804	-52.421	1.00	69.63	KS
ATOM	16511	O	LYS	51	218.473	109.097	-51.879	1.00	74.85	KS11	ATOM	16564	CDI	TYR	59	221.870	123.883	-53.028	1.00	69.63	KS
ATOM	16512	N	GLY	52	219.435	109.228	-49.861	1.00	73.89	KS11	ATOM	16565	CE1	TYR	59	223.246	123.888	-53.226	1.00	69.63	KS
ATOM	16513	CA	GLY	52	218.152	109.098	-49.197	1.00	73.89	KS11	ATOM	16566	CD2	TYR	59	222.013	121.722	-52.001	1.00	69.63	KS
ATOM	16514	C	GLY	52	217.291	110.338	-49.198	1.00	73.89	KS11	ATOM	16567	CE2	TYR	59	223.399	121.721	-52.197	1.00	69.63	KS
ATOM	16515	N	SER	53	216.669	110.574	-48.050	1.00	48.98	KS11	ATOM	16568	CZ	TYR	59	223.999	122.810	-52.815	1.00	69.63	KS
ATOM	16517	CA	SER	53	215.805	111.718	-47.852	1.00	48.98	KS11	ATOM	16569	OH	TYR	59	225.349	122.829	-53.055	1.00	69.63	KS
ATOM	16518	CB	SER	53	215.734	112.051	-46.370	1.00	68.44	KS11	ATOM	16570	C	TYR	59	219.374	121.385	-54.332	1.00	92.26	KS
ATOM	16519	OG	SER	53	215.076	113.284	-46.182	1.00	68.44	KS11	ATOM	16572	N	ALA	60	218.983	120.293	-53.680	1.00	43.29	KS
ATOM	16520	C	SER	53	216.213	112.966	-48.619	1.00	48.98	KS11	ATOM	16573	CA	ALA	60	219.177	118.969	-54.241	1.00	43.29	KS
ATOM	16521	O	SER	53	215.396	113.559	-49.307	1.00	48.98	KS11	ATOM	16574	CB	ALA	60	218.541	117.919	-53.364	1.00	49.65	KS
ATOM	16522	N	ARG	54	217.480	113.349	-48.513	1.00	52.29	KS11	ATOM	16575	C	ALA	60	218.428	119.040	-55.550	1.00	43.29	KS
ATOM	16523	CA	ARG	54	217.986	114.551	-49.162	1.00	52.29	KS11	ATOM	16576	O	ALA	60	218.562	118.167	-56.399	1.00	43.29	KS
ATOM	16524	CB	ARG	54	219.483	114.667	-48.952	1.00	118.36	KS11	ATOM	16577	N	ALA	61	217.617	120.088	-55.675	1.00	53.89	KS
ATOM	16525	CG	ARG	54	219.918	114.588	-47.521	1.00	118.36	KS11	ATOM	16578	CA	ALA	61	216.822	120.355	-56.862	1.00	53.89	KS
ATOM	16526	CD	ARG	54	221.270	115.231	-47.398	1.00	118.36	KS11	ATOM	16579	CB	ALA	61	215.464	120.905	-56.461	1.00	54.26	KS
ATOM	16527	NE	ARG	54	221.976	114.829	-46.189	1.00	118.36	KS11	ATOM	16580	C	ALA	61	217.575	121.381	-57.695	1.00	53.89	KS
ATOM	16528	CZ	ARG	54	223.099	115.404	-45.771	1.00	118.36	KS11	ATOM	16581	O	ALA	61	217.585	121.322	-58.919	1.00	53.89	KS
ATOM	16529	NH1	ARG	54	223.630	116.407	-46.466	1.00	118.36	KS11	ATOM	16582	N	GLN	62	218.200	122.336	-57.021	1.00	60.23	KS
ATOM	16530	NH2	ARG	54	223.702	114.970	-44.668	1.00	118.36	KS11	ATOM	16583	CA	GLN	62	218.964	123.368	-57.710	1.00	60.23	KS
ATOM	16531	C	ARG	54	217.704	114.751	-50.640	1.00	52.29	KS11	ATOM	16584	CB	GLN	62	219.518	124.373	-56.694	1.00	76.31	KS
ATOM	16532	O	ARG	54	217.916	115.831	-51.167	1.00	52.29	KS11	ATOM	16585	CG	GLN	62	220.233	125.559	-57.309	1.00	76.31	KS
ATOM	16533	N	LYS	55	217.244	113.736	-51.340	1.00	43.95	KS11	ATOM	16586	CD	GLN	62	220.686	126.578	-56.270	1.00	76.31	KS
ATOM	16534	CA	LYS	55	216.980	113.960	-52.749	1.00	43.95	KS11	ATOM	16587	OE1	GLN	62	221.440	126.253	-55.353	1.00	76.31	KS
ATOM	16535	CB	LYS	55	216.633	112.653	-53.446	1.00	25.69	KS11	ATOM	16588	NE2	GLN	62	220.229	127.821	-56.416	1.00	76.31	KS
ATOM	16536	CG	LYS	55	217.661	111.597	-53.389	1.00	25.69	KS11	ATOM	16589	C	GLN	62	220.112	122.685	-58.447	1.00	60.23	KS
ATOM	16537	CD	LYS	55	217.469	110.645	-54.570	1.00	25.69	KS11	ATOM	16590	O	GLN	62	220.370	122.943	-59.623	1.00	60.23	KS
ATOM	16538	CE	LYS	55	216.355	109.623	-54.357	1.00	25.69	KS11	ATOM	16591	N	LEU	63	220.789	121.789	-57.743	1.00	60.53	KS
ATOM	16539	NZ	LYS	55	216.884	108.278	-53.917	1.00	25.69	KS11	ATOM	16592	CA	LEU	63	221.907	121.083	-58.318	1.00	60.53	KS
ATOM	16540	C	LYS	55	215.811	114.934	-52.943	1.00	43.95	KS11	ATOM	16593	CB	LEU	63	222.615	120.264	-57.234	1.00	43.23	KS
ATOM	16541	O	LYS	55	215.793	115.747	-53.876	1.00	43.95	KS11	ATOM	16594	CG	LEU	63	223.176	121.136	-56.093	1.00	43.23	KS
ATOM	16542	N	GLY	56	214.825	114.834	-52.063	1.00	51.40	KS11	ATOM	16595	CD1	LEU	63	224.042	120.299	-55.161	1.00	43.23	KS
ATOM	16543	CA	GLY	56	213.653	115.669	-52.192	1.00	51.40	KS11	ATOM	16596	CD2	LEU	63	223.999	122.283	-56.660	1.00	43.23	KS
ATOM	16544	C	GLY	56	213.838	117.123	-51.847	1.00	51.40	KS11	ATOM	16597	C	LEU	63	221.437	120.210	-59.469	1.00	60.53	KS
ATOM	16545	O	GLY	56	213.075	117.981	-52.293	1.00	51.40	KS11	ATOM	16598	O	LEU	63	222.017	120.236	-60.562	1.00	60.53	KS
ATOM	16546	N	THR	57	214.854	117.417	-51.056	1.00	64.24	KS11	ATOM	16599	N	ALA	64	220.378	119.448	-59.246	1.00	58.09	KS
ATOM	16547	CA	THR	57	215.078	118.793	-50.657	1.00	64.24	KS11	ATOM	16600	CA	ALA	64	219.869	118.599	-60.316	1.00	58.09	KS
ATOM	16548	CB	THR	57	216.224	118.887	-49.655	1.00	56.09	KS11	ATOM	16601	CB	ALA	64	218.652	117.790	-59.829	1.00	38.44	KS
ATOM	16549	OG1	THR	57	216.977	120.078	-49.905	1.00	56.09	KS11	ATOM	16602	C	ALA	64	219.483	119.481	-61.505	1.00	58.09	KS
ATOM	16550	CG2	THR	57	217.124	117.726	-49.787	1.00	56.09	KS11	ATOM	16603	O	ALA	64	219.689	119.112	-62.661	1.00	58.09	KS
ATOM	16551	C	THR	57	215.406	119.735	-51.797	1.00	64.24	KS11	ATOM	16604	N	ALA	65	218.943	120.657	-61.207	1.00	57.57	KS
ATOM	16552	O	THR	57	215.911	119.315	-52.839	1.00	64.24	KS11	ATOM	16605	CA	ALA	65	218.512	121.592	-62.240	1.00	57.57	KS
ATOM	16553	N	PRO	58	215.081	121.026	-51.634	1.00	78.44	KS11	ATOM	16606	CB	ALA	65	217.757	122.768	-61.608	1.00	59.73	KS
ATOM	16554	CD	PRO	58	214.216	121.653	-50.624	1.00	54.95	KS11	ATOM	16607	C	ALA	65	219.687	122.103	-63.053	1.00	57.57	KS

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ATOM	16608	O	ALA	65	219.737	121.909	-64.266	1.00	57.57	KS11	ATOM	16661	CG	MET	73	224.282	125.007	-70.527	1.00	105.55	K
ATOM	16609	N	LEU	66	220.630	122.757	-62.382	1.00	71.26	KS11	ATOM	16662	SD	MET	73	223.606	126.667	-70.763	1.00	105.55	K
ATOM	16610	CA	LEU	66	221.804	123.294	-63.056	1.00	71.26	KS11	ATOM	16663	CE	MET	73	224.344	127.527	-69.362	1.00	105.55	K
ATOM	16611	CB	LEU	66	222.746	123.941	-62.047	1.00	45.46	KS11	ATOM	16664	C	MET	73	225.231	123.069	-73.761	1.00	84.38	K
ATOM	16612	CG	LEU	66	222.154	125.111	-61.260	1.00	45.46	KS11	ATOM	16665	O	MET	73	225.480	123.626	-74.826	1.00	84.38	K
ATOM	16613	CD1	LEU	66	223.137	125.575	-60.237	1.00	45.46	KS11	ATOM	16666	N	ALA	74	225.752	121.896	-74.430	1.00	99.15	K
ATOM	16614	CD2	LEU	66	221.806	126.252	-62.195	1.00	45.46	KS11	ATOM	16667	CA	ALA	74	226.662	121.207	-74.330	1.00	99.15	K
ATOM	16615	C	LEU	66	222.527	122.184	-63.801	1.00	71.26	KS11	ATOM	16668	CB	ALA	74	227.080	119.896	-73.726	1.00	58.41	K
ATOM	16616	O	LEU	66	222.988	122.387	-64.921	1.00	71.26	KS11	ATOM	16669	C	ALA	74	226.038	120.977	-75.706	1.00	99.15	K
ATOM	16617	N	ASP	67	222.625	121.010	-63.177	1.00	42.93	KS11	ATOM	16670	O	ALA	74	226.677	121.225	-76.724	1.00	99.15	K
ATOM	16618	CA	ASP	67	223.281	119.874	-63.811	1.00	42.93	KS11	ATOM	16671	N	TYR	75	224.800	120.492	-75.743	1.00	77.27	K
ATOM	16619	CB	ASP	67	223.142	118.619	-62.959	1.00	69.71	KS11	ATOM	16672	CA	TYR	75	222.822	119.478	-76.816	1.00	77.41	K
ATOM	16620	CD	ASP	67	223.940	117.455	-63.518	1.00	69.71	KS11	ATOM	16673	CB	TYR	75	222.958	117.995	-76.575	1.00	77.41	K
ATOM	16621	OD1	ASP	67	225.185	117.527	-63.473	1.00	69.71	KS11	ATOM	16674	CG	TYR	75	223.485	117.503	-75.383	1.00	77.41	K
ATOM	16622	OD2	ASP	67	223.338	116.477	-64.012	1.00	69.71	KS11	ATOM	16675	CD1	TYR	75	223.550	116.126	-75.135	1.00	77.41	K
ATOM	16623	C	ASP	67	222.597	119.640	-65.150	1.00	42.93	KS11	ATOM	16676	CE1	TYR	75	222.499	117.074	-77.522	1.00	77.41	K
ATOM	16624	O	ASP	67	223.180	119.841	-66.212	1.00	42.93	KS11	ATOM	16677	CD2	TYR	75	222.556	115.701	-77.284	1.00	77.41	K
ATOM	16625	N	ALA	68	221.342	119.221	-65.089	1.00	57.91	KS11	ATOM	16678	CE2	TYR	75	223.084	115.235	-76.089	1.00	77.41	K
ATOM	16626	CA	ALA	68	220.583	118.975	-66.296	1.00	57.91	KS11	ATOM	16679	CZ	TYR	75	223.157	113.880	-75.856	1.00	77.41	K
ATOM	16627	CB	ALA	68	219.107	118.868	-65.957	1.00	67.74	KS11	ATOM	16680	OH	TYR	75	223.755	121.597	-77.662	1.00	77.27	K
ATOM	16628	C	ALA	68	220.825	120.114	-67.289	1.00	57.91	KS11	ATOM	16681	C	TYR	75	222.882	121.654	-78.528	1.00	77.27	K
ATOM	16629	O	ALA	68	220.932	119.888	-68.497	1.00	57.91	KS11	ATOM	16682	O	TYR	75	224.413	122.669	-77.240	1.00	101.42	K
ATOM	16630	N	ALA	69	220.919	121.337	-66.778	1.00	57.09	KS11	ATOM	16683	N	GLY	76	224.094	123.974	-77.786	1.00	101.42	K
ATOM	16631	CA	ALA	69	221.160	122.484	-67.644	1.00	57.09	KS11	ATOM	16684	CA	GLY	76	223.098	124.629	-76.850	1.00	101.42	K
ATOM	16632	CB	ALA	69	221.036	123.784	-66.859	1.00	61.24	KS11	ATOM	16685	C	GLY	76	223.471	125.468	-76.032	1.00	101.42	K
ATOM	16633	C	ALA	69	222.549	122.371	-68.268	1.00	57.09	KS11	ATOM	16686	O	GLY	76	221.832	124.242	-76.968	1.00	89.46	K
ATOM	16634	O	ALA	69	222.688	122.450	-69.486	1.00	57.09	KS11	ATOM	16687	N	MET	77	220.769	124.755	-76.103	1.00	89.46	K
ATOM	16635	N	LYS	70	223.573	122.187	-67.439	1.00	56.04	KS11	ATOM	16688	CA	MET	77	220.543	123.787	-74.939	1.00	85.03	K
ATOM	16636	CA	LYS	70	224.933	122.053	-67.945	1.00	56.04	KS11	ATOM	16689	CB	MET	77	219.629	122.611	-75.243	1.00	85.03	K
ATOM	16637	CB	LYS	70	225.873	121.492	-66.868	1.00	123.54	KS11	ATOM	16690	CG	MET	77	217.720	123.328	-73.417	1.00	85.03	K
ATOM	16638	CG	LYS	70	226.614	122.538	-66.039	1.00	123.54	KS11	ATOM	16691	SD	MET	77	217.888	123.066	-75.169	1.00	85.03	K
ATOM	16639	CD	LYS	70	225.667	123.367	-65.174	1.00	123.54	KS11	ATOM	16692	CE	MET	77	220.987	126.146	-75.528	1.00	89.46	K
ATOM	16640	CE	LYS	70	226.433	124.353	-64.290	1.00	123.54	KS11	ATOM	16693	C	MET	77	221.832	126.342	-74.654	1.00	89.46	K
ATOM	16641	NZ	LYS	70	225.552	125.109	-63.350	1.00	123.54	KS11	ATOM	16694	O	MET	77	220.206	127.105	-76.008	1.00	70.88	K
ATOM	16642	C	LYS	70	224.936	121.114	-69.143	1.00	56.04	KS11	ATOM	16695	N	GLN	78	220.287	128.474	-75.523	1.00	70.88	K
ATOM	16643	O	LYS	70	225.166	121.532	-70.276	1.00	56.04	KS11	ATOM	16696	CA	GLN	78	220.523	129.442	-76.681	1.00	164.47	K
ATOM	16644	N	LYS	71	224.664	119.843	-68.891	1.00	54.57	KS11	ATOM	16697	CB	GLN	78	221.826	129.234	-77.419	1.00	164.47	K
ATOM	16645	CA	LYS	71	224.650	118.855	-69.953	1.00	54.57	KS11	ATOM	16698	CG	GLN	78	222.040	130.280	-78.489	1.00	164.47	K
ATOM	16646	CB	LYS	71	224.037	117.550	-69.444	1.00	52.91	KS11	ATOM	16699	CD	GLN	78	221.236	130.410	-79.412	1.00	164.47	K
ATOM	16647	CG	LYS	71	224.637	117.019	-68.144	1.00	52.91	KS11	ATOM	16700	OE1	GLN	78	223.123	131.041	-78.368	1.00	164.47	K
ATOM	16648	CD	LYS	71	224.030	115.661	-67.841	1.00	52.91	KS11	ATOM	16701	NE2	GLN	78	218.980	128.831	-74.832	1.00	70.88	K
ATOM	16649	CE	LYS	71	224.304	115.172	-66.433	1.00	52.91	KS11	ATOM	16702	C	GLN	78	218.981	129.414	-73.749	1.00	70.88	K
ATOM	16650	NZ	LYS	71	223.564	113.884	-66.245	1.00	52.91	KS11	ATOM	16703	O	GLN	78	217.870	128.468	-75.473	1.00	73.32	K
ATOM	16651	C	LYS	71	223.870	119.343	-71.172	1.00	54.57	KS11	ATOM	16704	N	SER	79	216.528	128.739	-74.966	1.00	73.32	K
ATOM	16652	O	LYS	71	224.167	118.966	-72.301	1.00	54.57	KS11	ATOM	16705	CA	SER	79	215.753	129.583	-75.983	1.00	118.75	K
ATOM	16653	N	ALA	72	222.870	120.182	-70.945	1.00	58.33	KS11	ATOM	16706	CB	SER	79	214.391	129.720	-75.613	1.00	118.75	K
ATOM	16654	CA	ALA	72	222.062	120.697	-72.039	1.00	58.33	KS11	ATOM	16707	OG	SER	79	215.760	127.450	-74.691	1.00	73.32	K
ATOM	16655	CB	ALA	72	220.769	121.248	-71.494	1.00	78.01	KS11	ATOM	16708	C	SER	79	215.906	126.462	-75.411	1.00	73.32	K
ATOM	16656	C	ALA	72	222.798	121.776	-72.825	1.00	58.33	KS11	ATOM	16709	O	SER	79	214.932	127.466	-73.651	1.00	65.56	K
ATOM	16657	O	ALA	72	222.689	121.845	-74.049	1.00	58.33	KS11	ATOM	16710	N	VAL	80	214.135	126.297	-73.290	1.00	65.56	K
ATOM	16658	N	MET	73	223.532	122.626	-72.115	1.00	84.38	KS11	ATOM	16711	CA	VAL	80	214.894	125.411	-72.276	1.00	57.94	K
ATOM	16659	CB	MET	73	224.288	123.699	-72.745	1.00	84.38	KS11	ATOM	16712	CB	VAL	80	215.096	126.162	-70.974	1.00	57.94	K
ATOM	16660	CA	MET	73	225.100	124.466	-71.698	1.00	105.55	KS11	ATOM	16713	CG1	VAL	80						K

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ATOM	16714	CG2 VAL	80	214.134	124.132	-72.036	1.00	57.94	KS11	ATOM	16767	C	THR	87	205.002	118.999	-55.184	1.00	91.63	KS
ATOM	16715	C VAL	80	212.795	126.715	-72.680	1.00	65.56	KS11	ATOM	16768	O	THR	87	204.679	117.922	-54.684	1.00	91.63	KS
ATOM	16716	O VAL	80	212.680	127.803	-72.105	1.00	65.56	KS11	ATOM	16769	N	GLY	88	206.143	119.612	-54.933	1.00	48.38	KS
ATOM	16717	N ASP	81	211.786	125.856	-72.829	1.00	70.64	KS11	ATOM	16770	CA	GLY	88	207.074	119.005	-54.022	1.00	48.38	KS
ATOM	16718	CA ASP	81	210.446	126.091	-72.274	1.00	70.64	KS11	ATOM	16771	C	GLY	88	208.092	120.039	-53.641	1.00	48.38	KS
ATOM	16719	CB ASP	81	209.355	125.779	-73.304	1.00	93.50	KS11	ATOM	16772	O	GLY	88	208.154	121.119	-54.243	1.00	48.38	KS
ATOM	16720	CG ASP	81	209.295	126.798	-74.427	1.00	93.50	KS11	ATOM	16773	N	ALA	89	208.879	119.721	-52.626	1.00	74.29	KS
ATOM	16721	OD1 ASP	81	209.149	128.002	-74.129	1.00	93.50	KS11	ATOM	16774	CA	ALA	89	209.910	120.629	-52.193	1.00	74.29	KS
ATOM	16722	OD2 ASP	81	209.384	126.394	-75.607	1.00	93.50	KS11	ATOM	16775	CB	ALA	89	210.821	119.925	-51.195	1.00	56.32	KS
ATOM	16723	C ASP	81	210.257	125.175	-71.063	1.00	70.64	KS11	ATOM	16776	C	ALA	89	210.690	121.020	-53.446	1.00	74.29	KS
ATOM	16724	O ASP	81	210.390	123.951	-71.169	1.00	70.64	KS11	ATOM	16777	O	ALA	89	210.818	120.231	-54.392	1.00	74.29	KS
ATOM	16725	N VAL	82	209.938	125.764	-69.915	1.00	63.28	KS11	ATOM	16778	N	GLY	90	211.176	122.250	-53.473	1.00	63.18	KS
ATOM	16726	CA VAL	82	209.764	124.976	-68.709	1.00	63.28	KS11	ATOM	16779	CA	GLY	90	211.968	122.687	-54.608	1.00	63.18	KS
ATOM	16727	CB VAL	82	210.227	125.743	-67.472	1.00	40.10	KS11	ATOM	16780	C	GLY	90	211.429	122.548	-56.024	1.00	63.18	KS
ATOM	16728	CG1 VAL	82	210.246	124.801	-66.260	1.00	40.10	KS11	ATOM	16781	O	GLY	90	212.137	122.124	-56.935	1.00	63.18	KS
ATOM	16729	CG2 VAL	82	211.598	126.324	-67.722	1.00	40.10	KS11	ATOM	16782	N	ARG	91	210.168	122.890	-56.214	1.00	65.54	KS
ATOM	16730	C VAL	82	208.343	124.502	-68.468	1.00	63.28	KS11	ATOM	16783	CA	ARG	91	209.601	122.862	-57.542	1.00	65.54	KS
ATOM	16731	O VAL	82	207.386	125.282	-68.513	1.00	63.28	KS11	ATOM	16784	CB	ARG	91	208.076	122.853	-57.481	1.00	94.84	KS
ATOM	16732	N ILE	83	208.229	123.209	-68.196	1.00	52.80	KS11	ATOM	16785	CG	ARG	91	207.425	122.716	-58.836	1.00	94.84	KS
ATOM	16733	CA ILE	83	206.953	122.565	-67.936	1.00	52.80	KS11	ATOM	16786	CD	ARG	91	206.138	123.509	-58.944	1.00	94.84	KS
ATOM	16734	CB ILE	83	206.702	121.489	-68.966	1.00	53.70	KS11	ATOM	16787	NE	ARG	91	205.235	123.264	-57.827	1.00	94.84	KS
ATOM	16735	CG2 ILE	83	205.328	120.900	-68.784	1.00	53.70	KS11	ATOM	16788	CZ	ARG	91	203.963	123.650	-57.797	1.00	94.84	KS
ATOM	16736	CG1 ILE	83	206.878	122.090	-70.353	1.00	53.70	KS11	ATOM	16789	NH1	ARG	91	203.436	124.297	-58.828	1.00	94.84	KS
ATOM	16737	CD1 ILE	83	207.345	121.082	-71.364	1.00	53.70	KS11	ATOM	16790	NH2	ARG	91	203.221	123.398	-56.730	1.00	94.84	KS
ATOM	16738	C ILE	83	207.038	121.922	-66.559	1.00	52.80	KS11	ATOM	16791	C	ARG	91	210.075	124.210	-58.072	1.00	65.54	KS
ATOM	16739	O ILE	83	207.773	120.957	-66.358	1.00	52.80	KS11	ATOM	16792	O	ARG	91	210.823	124.297	-59.038	1.00	65.54	KS
ATOM	16740	N VAL	84	206.285	122.455	-65.607	1.00	52.31	KS11	ATOM	16793	N	GLU	92	209.654	125.263	-57.387	1.00	61.24	KS
ATOM	16741	CA VAL	84	206.333	121.922	-64.264	1.00	52.31	KS11	ATOM	16794	CA	GLU	92	210.010	126.612	-57.766	1.00	61.24	KS
ATOM	16742	CB VAL	84	206.230	123.044	-63.232	1.00	55.77	KS11	ATOM	16795	CB	GLU	92	209.263	127.614	-56.880	1.00	99.53	KS
ATOM	16743	CG1 VAL	84	207.014	122.667	-62.010	1.00	55.77	KS11	ATOM	16796	CG	GLU	92	208.584	128.772	-57.636	1.00	99.53	KS
ATOM	16744	CG2 VAL	84	206.754	124.337	-63.803	1.00	55.77	KS11	ATOM	16797	CD	GLU	92	207.534	128.306	-58.651	1.00	99.53	KS
ATOM	16745	C VAL	84	205.227	120.912	-64.010	1.00	52.31	KS11	ATOM	16798	OE1	GLU	92	206.709	127.433	-58.299	1.00	99.53	KS
ATOM	16746	O VAL	84	204.101	121.074	-64.476	1.00	52.31	KS11	ATOM	16799	OE2	GLU	92	207.525	128.821	-59.796	1.00	99.53	KS
ATOM	16747	N ARG	85	205.563	119.861	-63.274	1.00	71.42	KS11	ATOM	16800	C	GLU	92	211.518	126.811	-57.657	1.00	61.24	KS
ATOM	16748	CA ARG	85	204.603	118.825	-62.944	1.00	71.42	KS11	ATOM	16801	O	GLU	92	212.080	127.681	-58.312	1.00	61.24	KS
ATOM	16749	CB ARG	85	204.721	117.639	-63.890	1.00	57.21	KS11	ATOM	16802	N	GLN	93	212.186	126.016	-56.831	1.00	60.07	KS
ATOM	16750	CG ARG	85	204.078	117.869	-65.222	1.00	57.21	KS11	ATOM	16803	CA	GLN	93	213.632	126.159	-56.722	1.00	60.07	KS
ATOM	16751	CD ARG	85	204.209	116.643	-66.098	1.00	57.21	KS11	ATOM	16804	CB	GLN	93	214.199	125.232	-55.655	1.00	105.02	KS
ATOM	16752	NE ARG	85	203.639	116.883	-67.414	1.00	57.21	KS11	ATOM	16805	CG	GLN	93	214.828	125.978	-54.501	1.00	105.02	KS
ATOM	16753	CZ ARG	85	204.239	116.565	-68.552	1.00	57.21	KS11	ATOM	16806	CD	GLN	93	215.872	126.977	-54.962	1.00	105.02	KS
ATOM	16754	NH1 ARG	85	205.433	115.989	-68.542	1.00	57.21	KS11	ATOM	16807	OE1	GLN	93	216.981	126.605	-55.352	1.00	105.02	KS
ATOM	16755	NH2 ARG	85	203.648	116.833	-69.705	1.00	57.21	KS11	ATOM	16808	NE2	GLN	93	215.516	128.257	-54.931	1.00	105.02	KS
ATOM	16756	C ARG	85	204.840	118.342	-61.540	1.00	71.42	KS11	ATOM	16809	C	GLN	93	214.200	125.776	-58.077	1.00	60.07	KS
ATOM	16757	O ARG	85	205.971	118.031	-61.165	1.00	71.42	KS11	ATOM	16810	O	GLN	93	214.867	126.573	-58.738	1.00	60.07	KS
ATOM	16758	N GLY	86	203.761	118.271	-60.771	1.00	50.94	KS11	ATOM	16811	N	ALA	94	213.914	124.545	-58.489	1.00	71.49	KS
ATOM	16759	CA GLY	86	203.863	117.821	-59.401	1.00	50.94	KS11	ATOM	16812	CA	ALA	94	214.369	124.043	-59.775	1.00	71.49	KS
ATOM	16760	C GLY	86	204.059	118.976	-58.451	1.00	50.94	KS11	ATOM	16813	CB	ALA	94	213.597	122.782	-60.153	1.00	41.97	KS
ATOM	16761	O GLY	86	204.299	120.110	-58.850	1.00	50.94	KS11	ATOM	16814	C	ALA	94	214.141	125.110	-60.826	1.00	71.49	KS
ATOM	16762	N THR	87	203.914	118.682	-57.174	1.00	91.63	KS11	ATOM	16815	O	ALA	94	215.015	125.377	-61.649	1.00	71.49	KS
ATOM	16763	CA THR	87	204.101	119.681	-56.152	1.00	91.63	KS11	ATOM	16816	N	ILE	95	212.965	125.726	-60.790	1.00	54.04	KS
ATOM	16764	CB THR	87	202.827	120.003	-55.440	1.00	70.38	KS11	ATOM	16817	CA	ILE	95	212.637	126.748	-61.770	1.00	54.04	KS
ATOM	16765	OG1 THR	87	201.911	120.567	-56.377	1.00	70.38	KS11	ATOM	16818	CB	ILE	95	211.175	127.241	-61.611	1.00	58.51	KS
ATOM	16766	CG2 THR	87	203.098	120.988	-54.312	1.00	70.38	KS11	ATOM	16819	CG2	ILE	95	210.873	128.314	-62.645	1.00	58.51	KS

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ATOM	16820	CG1	ILE	95	210.202	126.078	-61.818	1.00	58.51	KS11	ATOM	16873	CA	LEU	103	219.367	129.311	-70.621	1.00	90.06
ATOM	16821	CD1	ILE	95	208.743	126.483	-61.770	1.00	58.51	KS11	ATOM	16874	CB	LEU	103	219.076	127.913	-70.090	1.00	64.11
ATOM	16822	C	ILE	95	213.591	127.944	-61.706	1.00	54.04	KS11	ATOM	16875	CG	LEU	103	220.145	126.908	-70.504	1.00	64.11
ATOM	16823	O	ILE	95	213.928	128.528	-62.735	1.00	54.04	KS11	ATOM	16876	CD1	LEU	103	219.602	125.483	-70.376	1.00	64.11
ATOM	16824	N	ARG	96	214.038	128.306	-60.510	1.00	57.75	KS11	ATOM	16877	CD2	LEU	103	220.540	127.177	-71.944	1.00	64.11
ATOM	16825	CA	ARG	96	214.959	129.431	-60.365	1.00	57.75	KS11	ATOM	16878	C	LEU	103	218.069	129.966	-71.070	1.00	90.06
ATOM	16826	CB	ARG	96	214.968	129.903	-58.912	1.00	57.75	KS11	ATOM	16879	O	LEU	103	217.140	129.286	-71.518	1.00	90.06
ATOM	16827	CG	ARG	96	213.597	130.393	-58.484	1.00	57.75	KS11	ATOM	16880	N	GLN	104	218.016	131.288	-70.950	1.00	91.85
ATOM	16828	CD	ARG	96	213.370	130.293	-56.993	1.00	57.75	KS11	ATOM	16881	CA	GLN	104	216.851	132.063	-71.352	1.00	91.85
ATOM	16829	NE	ARG	96	213.983	131.390	-56.261	1.00	57.75	KS11	ATOM	16882	CB	GLN	104	217.105	132.654	-72.743	1.00	91.85
ATOM	16830	CZ	ARG	96	213.814	131.585	-54.959	1.00	57.75	KS11	ATOM	16883	CG	GLN	104	216.364	133.946	-73.047	1.00	91.85
ATOM	16831	NH1	ARG	96	213.050	130.749	-54.264	1.00	57.75	KS11	ATOM	16884	CD	GLN	104	214.960	133.711	-73.564	1.00	91.85
ATOM	16832	NH2	ARG	96	214.400	132.611	-54.352	1.00	57.75	KS11	ATOM	16885	OE1	GLN	104	214.116	133.151	-72.866	1.00	91.85
ATOM	16833	C	ARG	96	216.350	129.005	-60.811	1.00	57.75	KS11	ATOM	16886	NE2	GLN	104	214.701	134.139	-74.798	1.00	91.85
ATOM	16834	O	ARG	96	217.092	129.779	-61.415	1.00	57.75	KS11	ATOM	16887	C	GLN	104	215.580	131.208	-71.346	1.00	91.85
ATOM	16835	N	ALA	97	216.702	127.762	-60.521	1.00	84.18	KS11	ATOM	16888	O	GLN	104	215.241	130.571	-72.343	1.00	91.85
ATOM	16836	CA	ALA	97	217.999	127.262	-60.935	1.00	84.18	KS11	ATOM	16889	N	VAL	105	214.905	131.181	-70.199	1.00	61.71
ATOM	16837	CB	ALA	97	218.168	125.808	-60.514	1.00	84.18	KS11	ATOM	16890	CA	VAL	105	213.663	130.430	-70.028	1.00	61.71
ATOM	16838	C	ALA	97	218.071	127.393	-62.455	1.00	84.18	KS11	ATOM	16891	CB	VAL	105	213.357	130.188	-68.546	1.00	46.62
ATOM	16839	O	ALA	97	219.090	127.822	-63.002	1.00	84.18	KS11	ATOM	16892	CG1	VAL	105	212.124	129.336	-68.426	1.00	46.62
ATOM	16840	N	LEU	98	216.986	127.037	-63.138	1.00	69.19	KS11	ATOM	16893	CG2	VAL	105	214.540	129.539	-67.853	1.00	46.62
ATOM	16841	CA	LEU	98	216.977	127.139	-64.591	1.00	69.19	KS11	ATOM	16894	C	VAL	105	212.528	131.277	-70.585	1.00	61.71
ATOM	16842	CB	LEU	98	215.729	126.511	-65.203	1.00	43.82	KS11	ATOM	16895	O	VAL	105	212.080	132.219	-69.929	1.00	61.71
ATOM	16843	CG	LEU	98	215.690	124.994	-65.239	1.00	43.82	KS11	ATOM	16896	N	LYS	106	212.044	130.947	-71.778	1.00	70.76
ATOM	16844	CD1	LEU	98	214.583	124.553	-66.179	1.00	43.82	KS11	ATOM	16897	CA	LYS	106	210.989	131.756	-72.373	1.00	70.76
ATOM	16845	CD2	LEU	98	217.039	124.464	-65.704	1.00	43.82	KS11	ATOM	16898	CB	LYS	106	210.926	131.530	-73.885	1.00	150.76
ATOM	16846	C	LEU	98	217.027	128.583	-65.007	1.00	69.19	KS11	ATOM	16899	CG	LYS	106	211.398	132.746	-74.675	1.00	150.76
ATOM	16847	O	LEU	98	217.899	128.976	-65.771	1.00	69.19	KS11	ATOM	16900	CD	LYS	106	210.827	132.772	-76.087	1.00	150.76
ATOM	16848	N	GLN	99	216.083	129.370	-64.505	1.00	126.50	KS11	ATOM	16901	CE	LYS	106	211.109	134.105	-76.773	1.00	150.76
ATOM	16849	CA	GLN	99	216.026	130.779	-64.849	1.00	126.50	KS11	ATOM	16902	NZ	LYS	106	210.440	134.208	-78.102	1.00	150.76
ATOM	16850	CB	GLN	99	215.130	131.530	-63.867	1.00	92.13	KS11	ATOM	16903	C	LYS	106	209.594	131.615	-71.778	1.00	70.76
ATOM	16851	CG	GLN	99	213.658	131.188	-64.040	1.00	92.13	KS11	ATOM	16904	O	LYS	106	208.800	132.552	-71.848	1.00	70.76
ATOM	16852	CD	GLN	99	212.742	132.341	-63.685	1.00	92.13	KS11	ATOM	16905	N	SER	107	209.283	130.464	-71.189	1.00	80.47
ATOM	16853	OE1	GLN	99	212.647	132.737	-62.526	1.00	92.13	KS11	ATOM	16906	CA	SER	107	207.959	130.281	-70.607	1.00	80.47
ATOM	16854	NE2	GLN	99	212.066	132.891	-64.690	1.00	92.13	KS11	ATOM	16907	CB	SER	107	206.961	129.841	-71.670	1.00	65.83
ATOM	16855	C	GLN	99	217.421	131.384	-64.897	1.00	126.50	KS11	ATOM	16908	OG	SER	107	207.023	128.436	-71.840	1.00	65.83
ATOM	16856	O	GLN	99	217.677	132.304	-65.673	1.00	126.50	KS11	ATOM	16909	C	SER	107	207.931	129.256	-69.495	1.00	80.47
ATOM	16857	N	ALA	100	218.324	130.864	-64.073	1.00	81.71	KS11	ATOM	16910	O	SER	107	208.748	128.342	-69.442	1.00	80.47
ATOM	16858	CA	ALA	100	219.703	131.333	-64.083	1.00	81.71	KS11	ATOM	16911	N	ILE	108	206.953	129.409	-68.618	1.00	59.51
ATOM	16859	CB	ALA	100	220.401	130.928	-62.800	1.00	57.84	KS11	ATOM	16912	CA	ILE	108	206.782	128.508	-67.496	1.00	59.51
ATOM	16860	C	ALA	100	220.344	130.636	-65.289	1.00	81.71	KS11	ATOM	16913	CB	ILE	108	207.133	129.213	-66.183	1.00	44.44
ATOM	16861	O	ALA	100	219.787	130.662	-66.389	1.00	81.71	KS11	ATOM	16914	CG2	ILE	108	206.997	128.250	-65.027	1.00	44.44
ATOM	16862	CA	SER	101	221.508	130.024	-65.093	1.00	72.23	KS11	ATOM	16915	CG1	ILE	108	208.566	129.749	-66.258	1.00	44.44
ATOM	16863	N	SER	101	222.178	129.288	-66.166	1.00	72.23	KS11	ATOM	16916	CD1	ILE	108	209.037	130.449	-64.980	1.00	44.44
ATOM	16864	CB	SER	101	221.669	127.846	-66.169	1.00	69.05	KS11	ATOM	16917	C	ILE	108	205.324	128.087	-67.480	1.00	59.51
ATOM	16865	OG	SER	101	220.260	127.815	-66.302	1.00	69.05	KS11	ATOM	16918	O	ILE	108	204.434	128.930	-67.507	1.00	59.51
ATOM	16866	C	SER	101	222.022	129.871	-67.577	1.00	72.23	KS11	ATOM	16919	N	VAL	109	205.082	126.784	-67.443	1.00	49.86
ATOM	16867	O	SER	101	222.106	129.143	-68.576	1.00	72.23	KS11	ATOM	16920	CA	VAL	109	203.721	126.283	-67.445	1.00	49.86
ATOM	16868	N	GLY	102	221.789	131.178	-67.650	1.00	177.10	KS11	ATOM	16921	CB	VAL	109	203.331	125.799	-68.833	1.00	49.11
ATOM	16869	CA	GLY	102	221.627	131.853	-68.927	1.00	177.10	KS11	ATOM	16922	CG1	VAL	109	201.952	125.184	-68.793	1.00	49.11
ATOM	16870	C	GLY	102	220.892	131.090	-70.015	1.00	177.10	KS11	ATOM	16923	CG2	VAL	109	203.384	126.946	-69.807	1.00	49.11
ATOM	16871	O	GLY	102	221.034	131.412	-71.195	1.00	177.10	KS11	ATOM	16924	C	VAL	109	203.513	125.124	-66.495	1.00	49.86
ATOM	16872	N	LEU	103	220.107	130.085	-69.637	1.00	90.06	KS11	ATOM	16925	O	VAL	109	204.378	124.248	-66.397	1.00	49.86

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ATOM	16926	N	ASP	110	202.372	125.112	-65.796	1.00	52.69	KS11	ATOM	16979	O	HIS	116	186.977	112.212	-62.880	1.00	46.09	K
ATOM	16927	CA	ASP	110	202.076	124.007	-64.891	1.00	52.69	KS11	ATOM	16980	N	ASN	117	188.714	112.209	-61.430	1.00	63.47	K
ATOM	16928	CB	ASP	110	201.391	124.474	-63.608	1.00	101.68	KS11	ATOM	16981	CA	ASN	117	188.241	111.135	-60.574	1.00	63.47	K
ATOM	16929	CG	ASP	110	201.119	123.313	-62.643	1.00	101.68	KS11	ATOM	16982	CB	ASN	117	186.899	111.498	-59.978	1.00	88.80	K
ATOM	16930	OD1	ASP	110	200.304	122.422	-62.984	1.00	101.68	KS11	ATOM	16983	CG	ASN	117	187.043	112.148	-58.635	1.00	88.80	K
ATOM	16931	OD2	ASP	110	201.730	123.282	-61.550	1.00	101.68	KS11	ATOM	16984	OD1	ASN	117	187.809	113.102	-58.470	1.00	88.80	K
ATOM	16932	C	ASP	110	201.180	123.014	-65.613	1.00	52.69	KS11	ATOM	16985	ND2	ASN	117	186.315	111.631	-57.652	1.00	88.80	K
ATOM	16933	O	ASP	110	200.067	123.347	-66.003	1.00	52.69	KS11	ATOM	16986	C	ASN	117	188.155	109.843	-61.379	1.00	63.47	K
ATOM	16934	N	ASP	111	201.685	121.794	-65.770	1.00	62.51	KS11	ATOM	16987	O	ASN	117	187.208	109.651	-62.141	1.00	63.47	K
ATOM	16935	CA	ASP	111	200.988	120.713	-66.462	1.00	62.51	KS11	ATOM	16988	N	GLY	118	189.149	108.968	-61.230	1.00	41.48	K
ATOM	16936	CB	ASP	111	201.728	120.434	-67.790	1.00	106.00	KS11	ATOM	16989	CA	GLY	118	189.141	107.722	-61.981	1.00	41.48	K
ATOM	16937	CG	ASP	111	201.074	119.340	-68.640	1.00	106.00	KS11	ATOM	16990	C	GLY	118	189.655	106.499	-61.229	1.00	41.48	K
ATOM	16938	OD1	ASP	111	201.463	118.155	-68.518	1.00	106.00	KS11	ATOM	16991	O	GLY	118	188.942	105.489	-61.118	1.00	41.48	K
ATOM	16939	OD2	ASP	111	200.174	119.668	-69.443	1.00	106.00	KS11	ATOM	16992	N	CYS	119	190.885	106.560	-60.717	1.00	40.82	K
ATOM	16940	C	ASP	111	200.923	119.443	-65.584	1.00	62.51	KS11	ATOM	16993	CA	CYS	119	191.451	105.418	-59.990	1.00	40.82	K
ATOM	16941	O	ASP	111	201.188	118.334	-66.051	1.00	62.51	KS11	ATOM	16994	CB	CYS	119	192.852	105.084	-60.520	1.00	56.07	K
ATOM	16942	N	THR	112	200.576	119.596	-64.308	1.00	55.72	KS11	ATOM	16995	SG	CYS	119	192.914	103.966	-61.931	1.00	56.07	K
ATOM	16943	CA	THR	112	200.493	118.423	-63.443	1.00	55.72	KS11	ATOM	16996	C	CYS	119	191.536	105.644	-58.488	1.00	40.82	K
ATOM	16944	CB	THR	112	200.382	118.783	-61.968	1.00	53.28	KS11	ATOM	16997	O	CYS	119	192.051	106.674	-58.045	1.00	40.82	K
ATOM	16945	OG1	THR	112	201.444	119.673	-61.603	1.00	53.28	KS11	ATOM	16998	N	ARG	120	191.056	104.678	-57.707	1.00	33.56	K
ATOM	16946	CG2	THR	112	200.485	117.523	-61.141	1.00	53.28	KS11	ATOM	16999	CA	ARG	120	191.088	104.793	-56.250	1.00	33.56	K
ATOM	16947	C	THR	112	199.273	117.603	-63.805	1.00	55.72	KS11	ATOM	17000	CB	ARG	120	190.434	103.574	-55.596	1.00	40.61	K
ATOM	16948	O	THR	112	198.198	118.143	-64.043	1.00	55.72	KS11	ATOM	17001	CG	ARG	120	190.712	103.495	-54.112	1.00	40.61	K
ATOM	16949	N	PRO	113	199.421	116.278	-63.852	1.00	53.59	KS11	ATOM	17002	CD	ARG	120	189.931	102.425	-53.379	1.00	40.61	K
ATOM	16950	CD	PRO	113	200.646	115.483	-63.668	1.00	46.60	KS11	ATOM	17003	NE	ARG	120	188.978	103.042	-52.455	1.00	40.61	K
ATOM	16951	CA	PRO	113	198.290	115.420	-64.199	1.00	53.59	KS11	ATOM	17004	CZ	ARG	120	188.615	102.539	-51.276	1.00	40.61	K
ATOM	16952	CB	PRO	113	198.961	114.098	-64.534	1.00	46.60	KS11	ATOM	17005	NH1	ARG	120	189.120	101.388	-50.841	1.00	40.61	K
ATOM	16953	CG	PRO	113	200.107	114.063	-63.572	1.00	46.60	KS11	ATOM	17006	NH2	ARG	120	187.747	103.195	-50.522	1.00	40.61	K
ATOM	16954	C	PRO	113	197.274	115.280	-63.081	1.00	53.59	KS11	ATOM	17007	C	ARG	120	192.510	104.928	-55.728	1.00	33.56	K
ATOM	16955	O	PRO	113	197.605	114.834	-61.977	1.00	53.59	KS11	ATOM	17008	O	ARG	120	193.338	104.025	-55.894	1.00	33.56	K
ATOM	16956	N	VAL	114	196.037	115.662	-63.381	1.00	58.65	KS11	ATOM	17009	N	PRO	121	192.825	106.059	-55.094	1.00	38.35	K
ATOM	16957	CA	VAL	114	194.943	115.575	-62.425	1.00	58.65	KS11	ATOM	17010	CD	PRO	121	192.110	107.338	-55.043	1.00	26.46	K
ATOM	16958	CB	VAL	114	194.360	116.956	-62.098	1.00	61.58	KS11	ATOM	17011	CA	PRO	121	194.186	106.204	-54.581	1.00	26.46	K
ATOM	16959	CG1	VAL	114	194.110	117.737	-63.380	1.00	61.58	KS11	ATOM	17012	CB	PRO	121	194.238	107.657	-54.122	1.00	26.46	K
ATOM	16960	CG2	VAL	114	193.053	116.790	-61.343	1.00	61.58	KS11	ATOM	17013	CG	PRO	121	192.816	108.033	-53.922	1.00	26.46	K
ATOM	16961	C	VAL	114	193.836	114.729	-63.020	1.00	58.65	KS11	ATOM	17014	C	PRO	121	194.490	105.247	-53.449	1.00	38.35	K
ATOM	16962	O	VAL	114	193.277	115.071	-64.055	1.00	58.65	KS11	ATOM	17015	O	PRO	121	193.593	104.823	-52.728	1.00	38.35	K
ATOM	16963	N	PRO	115	193.508	113.603	-62.376	1.00	54.02	KS11	ATOM	17016	N	LYS	122	195.759	104.891	-53.300	1.00	46.47	K
ATOM	16964	CD	PRO	115	194.059	113.033	-61.135	1.00	47.93	KS11	ATOM	17017	CA	LYS	122	196.151	104.006	-52.213	1.00	46.47	K
ATOM	16965	CA	PRO	115	192.442	112.755	-62.907	1.00	54.02	KS11	ATOM	17018	CB	LYS	122	197.641	103.698	-52.307	1.00	71.34	K
ATOM	16966	CB	PRO	115	192.604	111.469	-62.119	1.00	47.93	KS11	ATOM	17019	CG	LYS	122	198.443	104.833	-52.900	1.00	71.34	K
ATOM	16967	CG	PRO	115	193.029	111.973	-60.794	1.00	47.93	KS11	ATOM	17020	CD	LYS	122	199.920	104.575	-52.767	1.00	71.34	K
ATOM	16968	C	PRO	115	191.117	113.406	-62.623	1.00	54.02	KS11	ATOM	17021	CE	LYS	122	200.325	103.275	-53.418	1.00	71.34	K
ATOM	16969	O	PRO	115	190.977	114.110	-61.627	1.00	54.02	KS11	ATOM	17022	NZ	LYS	122	201.778	103.049	-53.191	1.00	71.34	K
ATOM	16970	N	HIS	116	190.151	113.186	-63.503	1.00	46.09	KS11	ATOM	17023	O	LYS	122	195.826	104.744	-50.914	1.00	46.47	K
ATOM	16971	CA	HIS	116	188.823	113.733	-63.298	1.00	46.09	KS11	ATOM	17024	O	LYS	122	195.724	105.974	-50.899	1.00	46.47	K
ATOM	16972	CB	HIS	116	188.205	114.025	-64.659	1.00	46.95	KS11	ATOM	17025	N	LYS	123	195.670	103.998	-49.829	1.00	38.85	K
ATOM	16973	CG	HIS	116	188.997	115.009	-65.468	1.00	46.95	KS11	ATOM	17026	CA	LYS	123	195.310	104.594	-48.549	1.00	38.85	K
ATOM	16974	CD2	HIS	116	188.912	115.383	-66.767	1.00	46.95	KS11	ATOM	17027	CB	LYS	123	195.478	103.593	-47.412	1.00	37.92	K
ATOM	16975	ND1	HIS	116	190.019	115.763	-64.924	1.00	46.95	KS11	ATOM	17028	CG	LYS	123	194.861	104.130	-46.159	1.00	37.92	K
ATOM	16976	CE1	HIS	116	190.527	116.553	-65.851	1.00	46.95	KS11	ATOM	17029	CD	LYS	123	195.441	103.537	-44.909	1.00	37.92	K
ATOM	16977	NE2	HIS	116	189.874	116.342	-66.980	1.00	46.95	KS11	ATOM	17030	CE	LYS	123	194.795	102.229	-44.589	1.00	37.92	K
ATOM	16978	C	HIS	116	188.072	112.641	-62.517	1.00	46.09	KS11	ATOM	17031	NZ	LYS	123	195.282	101.723	-43.274	1.00	37.92	K

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ATOM	17032	C	LYS	123	196.043	105.879	-48.193	1.00	38.85	KS11	ATOM	17085	OXT	SER	129	185.575	112.618	-45.504	1.00	192.79
ATOM	17033	O	LYS	123	195.438	106.806	-47.671	1.00	38.85	KS11	ATOM	17086	C	GLY	2	206.188	129.466	7.323	1.00	78.01
ATOM	17034	N	LYS	124	197.344	105.920	-48.461	1.00	45.41	KS11	ATOM	17087	O	GLY	2	206.347	129.669	6.122	1.00	78.01
ATOM	17035	CA	LYS	124	198.173	107.102	-48.190	1.00	45.41	KS11	ATOM	17088	N	GLY	2	205.773	127.147	7.926	1.00	78.01
ATOM	17036	CB	LYS	124	199.446	107.067	-49.054	1.00	115.73	KS11	ATOM	17089	CA	GLY	2	206.775	128.241	7.974	1.00	78.01
ATOM	17037	CG	LYS	124	200.760	106.817	-48.330	1.00	115.73	KS11	ATOM	17090	N	ASN	3	205.510	130.288	8.108	1.00	63.32
ATOM	17038	CD	LYS	124	201.199	108.018	-47.500	1.00	115.73	KS11	ATOM	17091	CA	ASN	3	204.886	131.491	7.569	1.00	63.32
ATOM	17039	CE	LYS	124	202.555	107.768	-46.820	1.00	115.73	KS11	ATOM	17092	CB	ASN	3	203.480	131.161	7.023	1.00	63.39
ATOM	17040	NZ	LYS	124	203.002	108.870	-45.913	1.00	115.73	KS11	ATOM	17093	CG	ASN	3	203.497	130.447	5.687	1.00	63.39
ATOM	17041	C	LYS	124	197.408	108.364	-48.539	1.00	45.41	KS11	ATOM	17094	OD1	ASN	3	203.534	131.077	4.634	1.00	63.39
ATOM	17042	O	LYS	124	197.353	109.301	-47.761	1.00	45.41	KS11	ATOM	17095	ND2	ASN	3	203.452	129.123	5.726	1.00	63.39
ATOM	17043	N	PHE	125	196.820	108.384	-49.725	1.00	64.93	KS11	ATOM	17096	C	ASN	3	204.758	132.625	8.590	1.00	63.32
ATOM	17044	CA	PHE	125	196.094	109.552	-50.185	1.00	64.93	KS11	ATOM	17097	O	ASN	3	204.327	132.402	9.746	1.00	63.32
ATOM	17045	CB	PHE	125	196.523	109.889	-51.614	1.00	42.98	KS11	ATOM	17098	N	LYS	4	204.967	133.846	8.147	1.00	52.29
ATOM	17046	CG	PHE	125	198.007	109.740	-51.854	1.00	42.98	KS11	ATOM	17099	CA	LYS	4	204.739	135.032	8.968	1.00	52.29
ATOM	17047	CD1	PHE	125	198.547	108.513	-52.196	1.00	42.98	KS11	ATOM	17100	CB	LYS	4	203.293	135.017	9.451	1.00	67.18
ATOM	17048	CD2	PHE	125	198.863	110.831	-51.718	1.00	42.98	KS11	ATOM	17101	CG	LYS	4	202.279	135.108	8.341	1.00	67.18
ATOM	17049	CE1	PHE	125	199.907	108.372	-52.400	1.00	42.98	KS11	ATOM	17102	CD	LYS	4	201.531	133.820	8.204	1.00	67.18
ATOM	17050	CE2	PHE	125	200.223	110.702	-51.920	1.00	42.98	KS11	ATOM	17103	CE	LYS	4	200.447	133.955	7.163	1.00	67.18
ATOM	17051	CZ	PHE	125	200.746	109.467	-52.263	1.00	42.98	KS11	ATOM	17104	NZ	LYS	4	199.658	132.687	7.064	1.00	67.18
ATOM	17052	C	PHE	125	194.597	109.302	-50.142	1.00	64.93	KS11	ATOM	17105	C	LYS	4	205.640	135.366	10.149	1.00	52.29
ATOM	17053	O	PHE	125	193.792	110.211	-50.371	1.00	64.93	KS11	ATOM	17106	O	LYS	4	205.758	134.582	11.095	1.00	52.29
ATOM	17054	N	ARG	126	194.230	108.056	-49.864	1.00	136.74	KS11	ATOM	17107	N	ILE	5	206.259	136.548	10.097	1.00	63.08
ATOM	17055	CA	ARG	126	192.828	107.681	-49.779	1.00	136.74	KS11	ATOM	17108	CA	ILE	5	207.118	136.981	11.193	1.00	63.08
ATOM	17056	CB	ARG	126	192.706	106.165	-49.608	1.00	86.73	KS11	ATOM	17109	CB	ILE	5	208.112	138.146	10.836	1.00	49.67
ATOM	17057	CG	ARG	126	191.505	105.541	-50.284	1.00	86.73	KS11	ATOM	17110	CG2	ILE	5	209.466	137.575	10.481	1.00	49.67
ATOM	17058	CD	ARG	126	190.229	105.855	-49.557	1.00	86.73	KS11	ATOM	17111	CG1	ILE	5	207.548	139.042	9.735	1.00	49.67
ATOM	17059	NE	ARG	126	189.145	106.048	-50.508	1.00	86.73	KS11	ATOM	17112	CD1	ILE	5	206.331	139.800	10.127	1.00	49.67
ATOM	17060	CZ	ARG	126	187.879	106.248	-50.165	1.00	86.73	KS11	ATOM	17113	C	ILE	5	206.202	137.503	12.250	1.00	63.08
ATOM	17061	NH1	ARG	126	187.534	106.274	-48.885	1.00	86.73	KS11	ATOM	17114	O	ILE	5	205.146	138.048	11.939	1.00	63.08
ATOM	17062	NH2	ARG	126	186.960	106.439	-51.103	1.00	86.73	KS11	ATOM	17115	N	HIS	6	206.605	137.318	13.499	1.00	57.74
ATOM	17063	C	ARG	126	192.301	108.410	-48.551	1.00	136.74	KS11	ATOM	17116	CA	HIS	6	205.833	137.805	14.620	1.00	57.74
ATOM	17064	O	ARG	126	191.829	107.800	-47.593	1.00	136.74	KS11	ATOM	17117	CB	HIS	6	206.709	137.811	15.858	1.00	63.64
ATOM	17065	N	LYS	127	192.417	109.730	-48.587	1.00	118.94	KS11	ATOM	17118	CG	HIS	6	205.968	138.148	17.100	1.00	63.64
ATOM	17066	CA	LYS	127	191.973	110.582	-47.501	1.00	118.94	KS11	ATOM	17119	CD2	HIS	6	205.388	139.302	17.500	1.00	63.64
ATOM	17067	CB	LYS	127	193.179	111.094	-46.707	1.00	151.52	KS11	ATOM	17120	ND1	HIS	6	205.727	137.226	18.094	1.00	63.64
ATOM	17068	CG	LYS	127	193.952	110.006	-45.980	1.00	151.52	KS11	ATOM	17121	CE1	HIS	6	205.030	137.800	19.059	1.00	63.64
ATOM	17069	CD	LYS	127	193.040	109.174	-45.078	1.00	151.52	KS11	ATOM	17122	NE2	HIS	6	204.811	139.060	18.722	1.00	63.64
ATOM	17070	CE	LYS	127	192.289	110.024	-44.037	1.00	151.52	KS11	ATOM	17123	C	HIS	6	205.420	139.226	14.238	1.00	57.74
ATOM	17071	NZ	LYS	127	191.148	110.824	-44.587	1.00	118.94	KS11	ATOM	17124	O	HIS	6	206.243	140.006	13.750	1.00	57.74
ATOM	17072	C	LYS	127	191.196	111.753	-48.082	1.00	118.94	KS11	ATOM	17125	N	PRO	7	204.138	139.575	14.424	1.00	59.94
ATOM	17073	O	LYS	127	191.405	112.907	-47.702	1.00	118.94	KS11	ATOM	17126	CD	PRO	7	203.008	138.784	14.938	1.00	46.07
ATOM	17074	N	ALA	128	190.299	111.447	-49.012	1.00	177.64	KS11	ATOM	17127	CA	PRO	7	203.711	140.927	14.056	1.00	59.94
ATOM	17075	CA	ALA	128	189.487	112.472	-49.652	1.00	177.64	KS11	ATOM	17128	CB	PRO	7	202.197	140.865	14.204	1.00	46.07
ATOM	17076	CB	ALA	128	189.228	112.091	-51.105	1.00	87.88	KS11	ATOM	17129	CG	PRO	7	202.006	139.851	15.268	1.00	46.07
ATOM	17077	C	ALA	128	188.166	112.665	-48.904	1.00	177.64	KS11	ATOM	17130	C	PRO	7	204.356	142.006	14.899	1.00	59.94
ATOM	17078	O	ALA	128	187.135	112.108	-49.289	1.00	177.64	KS11	ATOM	17131	O	PRO	7	204.528	143.133	14.439	1.00	59.94
ATOM	17079	N	SER	129	188.215	113.460	-47.835	1.00	180.11	KS11	ATOM	17132	N	ILE	8	204.726	141.659	16.126	1.00	74.77
ATOM	17080	CA	SER	129	187.047	113.753	-47.003	1.00	180.11	KS11	ATOM	17133	CA	ILE	8	205.382	142.615	17.010	1.00	74.77
ATOM	17081	CB	SER	129	185.828	114.081	-47.877	1.00	163.72	KS11	ATOM	17134	CB	ILE	8	205.279	142.178	18.488	1.00	60.61
ATOM	17082	OG	SER	129	186.037	115.273	-48.618	1.00	163.72	KS11	ATOM	17135	CG2	ILE	8	206.306	142.926	19.334	1.00	60.61
ATOM	17083	C	SER	129	186.708	112.616	-46.038	1.00	180.11	KS11	ATOM	17136	CG1	ILE	8	203.858	142.417	18.998	1.00	60.61
ATOM	17084	O	SER	129	187.586	111.752	-45.812	1.00	180.11	KS11	ATOM	17137	CD1	ILE	8	203.635	141.908	20.414	1.00	60.61

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ATOM	17138	C	ILE	8	206.858	142.747	16.627	1.00	74.77	CS3	ATOM	17191	C	THR	15	205.039	150.254	17.469	1.00	60.11
ATOM	17139	O	ILE	8	207.309	143.827	16.243	1.00	74.77	CS3	ATOM	17192	O	THR	15	204.072	150.216	18.229	1.00	60.11
ATOM	17140	N	GLY	9	207.607	141.650	16.739	1.00	65.76	CS3	ATOM	17193	N	ARG	16	206.118	149.536	17.709	1.00	67.27
ATOM	17141	CA	GLY	9	209.012	141.689	16.384	1.00	65.76	CS3	ATOM	17194	CA	ARG	16	206.117	148.678	18.871	1.00	67.27
ATOM	17142	C	GLY	9	209.213	142.416	15.065	1.00	65.76	CS3	ATOM	17195	CB	ARG	16	205.909	147.237	18.419	1.00	93.84
ATOM	17143	O	GLY	9	210.219	143.104	14.845	1.00	65.76	CS3	ATOM	17196	CG	ARG	16	205.217	146.379	19.429	1.00	93.84
ATOM	17144	N	PHE	10	208.229	142.279	14.185	1.00	58.04	CS3	ATOM	17197	CD	ARG	16	203.801	146.831	19.585	1.00	93.84
ATOM	17145	CA	PHE	10	208.294	142.901	12.880	1.00	58.04	CS3	ATOM	17198	NE	ARG	16	203.091	145.980	20.522	1.00	93.84
ATOM	17146	CB	PHE	10	207.197	142.337	11.977	1.00	39.06	CS3	ATOM	17199	CZ	ARG	16	201.798	146.105	20.792	1.00	93.84
ATOM	17147	CG	PHE	10	207.238	142.872	10.561	1.00	39.06	CS3	ATOM	17200	NH1	ARG	16	201.084	147.050	20.190	1.00	93.84
ATOM	17148	CD1	PHE	10	208.432	142.885	9.838	1.00	39.06	CS3	ATOM	17201	NH2	ARG	16	201.218	145.285	21.659	1.00	93.84
ATOM	17149	CE1	PHE	10	206.092	143.353	9.952	1.00	39.06	CS3	ATOM	17202	C	ARG	16	207.369	148.776	19.723	1.00	67.27
ATOM	17150	CE2	PHE	10	208.483	143.367	8.540	1.00	39.06	CS3	ATOM	17203	O	ARG	16	208.348	148.078	19.480	1.00	67.27
ATOM	17151	CE2	PHE	10	206.134	143.838	8.649	1.00	39.06	CS3	ATOM	17204	N	ASP	17	207.351	149.645	20.724	1.00	59.29
ATOM	17152	CZ	PHE	10	207.339	143.846	7.938	1.00	39.06	CS3	ATOM	17205	CA	ASP	17	208.510	149.748	21.600	1.00	59.29
ATOM	17153	C	PHE	10	208.175	144.410	12.929	1.00	58.04	CS3	ATOM	17206	CB	ASP	17	208.366	150.925	22.568	1.00	121.81
ATOM	17154	O	PHE	10	208.639	145.106	12.028	1.00	58.04	CS3	ATOM	17207	CG	ASP	17	206.947	151.117	23.043	1.00	121.81
ATOM	17155	N	ARG	11	207.571	144.928	13.985	1.00	73.28	CS3	ATOM	17208	OD1	ASP	17	206.690	152.129	23.729	1.00	121.81
ATOM	17156	CA	ARG	11	207.389	146.365	14.071	1.00	73.28	CS3	ATOM	17209	OD2	ASP	17	206.089	150.263	22.732	1.00	121.81
ATOM	17157	CB	ARG	11	205.905	146.656	14.204	1.00	118.68	CS3	ATOM	17210	C	ASP	17	208.638	148.430	22.356	1.00	59.29
ATOM	17158	CG	ARG	11	205.088	145.945	13.155	1.00	118.68	CS3	ATOM	17211	O	ASP	17	207.658	147.685	22.494	1.00	59.29
ATOM	17159	CD	ARG	11	203.747	145.611	13.716	1.00	118.68	CS3	ATOM	17212	N	TRP	18	209.851	148.136	22.818	1.00	80.88
ATOM	17160	NE	ARG	11	202.657	146.158	12.925	1.00	118.68	CS3	ATOM	17213	CA	TRP	18	210.135	146.896	23.538	1.00	80.88
ATOM	17161	CZ	ARG	11	201.459	146.427	13.434	1.00	118.68	CS3	ATOM	17214	CB	TRP	18	211.637	146.767	23.811	1.00	59.89
ATOM	17162	NH1	ARG	11	201.236	146.191	14.721	1.00	118.68	CS3	ATOM	17215	CG	TRP	18	212.486	146.529	22.602	1.00	59.89
ATOM	17163	NH2	ARG	11	200.497	146.944	12.677	1.00	118.68	CS3	ATOM	17216	CD2	TRP	18	212.677	147.418	21.505	1.00	59.89
ATOM	17164	C	ARG	11	208.157	147.047	15.188	1.00	73.28	CS3	ATOM	17217	CE2	TRP	18	213.598	146.809	20.627	1.00	59.89
ATOM	17165	O	ARG	11	208.073	148.263	15.336	1.00	73.28	CS3	ATOM	17218	CE3	TRP	18	212.165	148.673	21.177	1.00	59.89
ATOM	17166	N	LEU	12	208.914	146.277	15.961	1.00	60.96	CS3	ATOM	17219	CD1	TRP	18	213.271	145.437	22.353	1.00	59.89
ATOM	17167	CA	LEU	12	209.678	146.844	17.061	1.00	60.96	CS3	ATOM	17220	NE1	TRP	18	213.943	145.597	21.168	1.00	59.89
ATOM	17168	CB	LEU	12	210.718	145.842	17.540	1.00	49.93	CS3	ATOM	17221	CZ2	TRP	18	214.012	147.411	19.446	1.00	59.89
ATOM	17169	CG	LEU	12	210.062	144.957	18.597	1.00	49.93	CS3	ATOM	17222	CZ3	TRP	18	212.576	149.272	20.005	1.00	59.89
ATOM	17170	CD1	LEU	12	210.813	143.653	18.810	1.00	49.93	CS3	ATOM	17223	CH2	TRP	18	213.491	148.644	19.153	1.00	59.89
ATOM	17171	CD2	LEU	12	210.005	145.760	19.875	1.00	49.93	CS3	ATOM	17224	C	TRP	18	209.390	146.789	24.861	1.00	80.88
ATOM	17172	C	LEU	12	210.330	148.181	16.736	1.00	60.96	CS3	ATOM	17225	O	TRP	18	208.793	147.754	25.327	1.00	80.88
ATOM	17173	O	LEU	12	210.306	149.108	17.545	1.00	60.96	CS3	ATOM	17226	N	ALA	19	209.438	145.605	25.462	1.00	62.87
ATOM	17174	N	GLY	13	210.910	148.291	15.552	1.00	77.33	CS3	ATOM	17227	CA	ALA	19	208.780	145.359	26.740	1.00	62.87
ATOM	17175	CA	GLY	13	211.517	149.554	15.181	1.00	77.33	CS3	ATOM	17228	CB	ALA	19	207.992	144.041	26.692	1.00	70.76
ATOM	17176	C	GLY	13	210.520	150.666	15.467	1.00	77.33	CS3	ATOM	17229	C	ALA	19	209.829	145.304	27.838	1.00	62.87
ATOM	17177	O	GLY	13	210.667	151.392	16.442	1.00	77.33	CS3	ATOM	17230	O	ALA	19	209.639	144.644	28.852	1.00	62.87
ATOM	17178	N	ILE	14	209.505	150.804	14.619	1.00	91.89	CS3	ATOM	17231	N	ALA	20	210.946	145.989	27.609	1.00	70.00
ATOM	17179	CA	ILE	14	208.502	151.824	14.851	1.00	91.89	CS3	ATOM	17232	CA	ALA	20	212.051	146.051	28.571	1.00	70.00
ATOM	17180	CB	ILE	14	207.880	152.336	13.526	1.00	145.68	CS3	ATOM	17233	CB	ALA	20	212.762	144.685	28.690	1.00	28.50
ATOM	17181	CG2	ILE	14	206.786	153.377	13.807	1.00	145.68	CS3	ATOM	17234	C	ALA	20	213.042	147.122	28.124	1.00	70.00
ATOM	17182	CG1	ILE	14	208.972	152.999	12.680	1.00	145.68	CS3	ATOM	17235	O	ALA	20	213.059	147.513	26.957	1.00	70.00
ATOM	17183	CD1	ILE	14	208.449	153.867	11.533	1.00	145.68	CS3	ATOM	17236	N	ALA	21	213.860	147.606	29.052	1.00	108.78
ATOM	17184	C	ILE	14	207.433	151.218	15.749	1.00	91.89	CS3	ATOM	17237	CA	ALA	21	214.833	148.629	28.699	1.00	108.78
ATOM	17185	O	ILE	14	207.753	150.450	16.649	1.00	91.89	CS3	ATOM	17238	CB	ALA	21	214.178	150.012	28.748	1.00	21.07
ATOM	17186	N	THR	15	206.182	151.576	15.495	1.00	60.11	CS3	ATOM	17239	C	ALA	21	216.112	148.619	29.536	1.00	108.78
ATOM	17187	CA	THR	15	205.005	151.146	16.231	1.00	60.11	CS3	ATOM	17240	O	ALA	22	216.352	149.530	30.320	1.00	108.78
ATOM	17188	CB	THR	15	204.033	150.529	15.280	1.00	64.81	CS3	ATOM	17241	N	ALA	22	216.927	147.582	29.363	1.00	103.88
ATOM	17189	CG1	THR	15	203.697	151.497	14.279	1.00	64.81	CS3	ATOM	17242	CA	ALA	22	218.202	147.480	30.062	1.00	103.88
ATOM	17190	CG2	THR	15	202.789	150.070	16.015	1.00	64.81	CS3	ATOM	17243	CB	ALA	22	218.806	146.087	29.871	1.00	51.18

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ATOM	17244	C	ALA	22	219.104	148.539	29.423	1.00103.88	CS3	ATOM	17297	C	ARG	30	222.482	137.748	31.734	1.00	81.23
ATOM	17245	O	ALA	22	218.612	149.477	28.791	1.00103.88	CS3	ATOM	17298	O	ARG	30	221.921	136.701	32.064	1.00	81.23
ATOM	17246	N	ALA	23	220.418	148.389	29.571	1.00 63.55	CS3	ATOM	17299	N	HIS	31	222.584	138.797	32.543	1.00	63.69
ATOM	17247	CA	ALA	23	221.357	149.356	29.006	1.00 63.55	CS3	ATOM	17300	CA	HIS	31	222.054	138.788	33.901	1.00	63.69
ATOM	17248	CB	ALA	23	221.531	150.525	29.943	1.00 70.55	CS3	ATOM	17301	CB	HIS	31	223.136	139.246	34.870	1.00	69.85
ATOM	17249	C	ALA	23	222.704	148.716	28.738	1.00 63.55	CS3	ATOM	17302	CG	HIS	31	224.401	138.454	34.763	1.00	69.85
ATOM	17250	O	ALA	23	223.082	147.746	29.407	1.00 63.55	CS3	ATOM	17303	CD2	HIS	31	225.666	138.827	34.450	1.00	69.85
ATOM	17251	N	ALA	24	223.401	149.280	27.748	1.00130.93	CS3	ATOM	17304	ND1	HIS	31	224.442	137.090	34.973	1.00	69.85
ATOM	17252	CA	ALA	24	224.719	148.835	27.297	1.00130.93	CS3	ATOM	17305	CE1	HIS	31	225.680	136.658	34.795	1.00	69.85
ATOM	17253	CB	ALA	24	225.565	150.053	26.930	1.00 49.93	CS3	ATOM	17306	NE2	HIS	31	226.441	137.691	34.476	1.00	69.85
ATOM	17254	C	ALA	24	225.447	147.977	28.328	1.00130.93	CS3	ATOM	17307	C	HIS	31	220.838	139.696	33.980	1.00	63.69
ATOM	17255	O	ALA	24	226.397	148.433	28.964	1.00130.93	CS3	ATOM	17308	O	HIS	31	219.908	139.443	34.741	1.00	63.69
ATOM	17256	N	ALA	25	225.017	146.725	28.464	1.00 79.39	CS3	ATOM	17309	CA	LEU	32	220.855	140.760	33.187	1.00	79.74
ATOM	17257	CA	ALA	25	225.593	145.815	29.452	1.00 79.39	CS3	ATOM	17310	N	LEU	32	219.723	141.661	33.148	1.00	79.74
ATOM	17258	CB	ALA	25	224.461	145.251	30.341	1.00 68.59	CS3	ATOM	17311	CB	LEU	32	219.924	142.746	32.089	1.00	132.82
ATOM	17259	C	ALA	25	226.421	144.665	28.884	1.00 79.39	CS3	ATOM	17312	CG	LEU	32	221.026	143.771	32.372	1.00	132.82
ATOM	17260	O	ALA	25	226.151	143.506	29.187	1.00 79.39	CS3	ATOM	17313	CD1	LEU	32	221.221	144.659	31.148	1.00	132.82
ATOM	17261	N	ALA	26	227.443	144.975	28.095	1.00 60.92	CS3	ATOM	17314	CD2	LEU	32	220.663	144.599	33.601	1.00	132.82
ATOM	17262	CA	ALA	26	228.268	143.926	27.494	1.00 60.92	CS3	ATOM	17315	C	LEU	32	218.560	140.770	32.753	1.00	79.74
ATOM	17263	CB	ALA	26	229.540	144.539	26.896	1.00 45.27	CS3	ATOM	17316	O	LEU	32	217.671	140.510	33.565	1.00	79.74
ATOM	17264	C	ALA	26	228.630	142.754	28.429	1.00 60.92	CS3	ATOM	17317	N	LEU	33	218.596	140.275	31.514	1.00	92.10
ATOM	17265	O	ALA	26	228.873	141.642	27.967	1.00 60.92	CS3	ATOM	17318	CA	LEU	33	217.543	139.403	30.992	1.00	92.10
ATOM	17266	N	ALA	27	228.664	142.985	29.736	1.00 75.73	CS3	ATOM	17319	CB	LEU	33	218.023	138.600	29.787	1.00	76.19
ATOM	17267	CA	ALA	27	229.005	141.907	30.662	1.00 75.73	CS3	ATOM	17320	CG	LEU	33	218.172	139.290	28.440	1.00	76.19
ATOM	17268	CB	ALA	27	230.332	142.216	31.350	1.00 64.70	CS3	ATOM	17321	CD1	LEU	33	218.042	138.222	27.369	1.00	76.19
ATOM	17269	C	ALA	27	227.915	141.695	31.706	1.00 75.73	CS3	ATOM	17322	CD2	LEU	33	217.108	140.364	28.257	1.00	76.19
ATOM	17270	O	ALA	27	227.916	140.699	32.433	1.00 75.73	CS3	ATOM	17323	C	LEU	33	217.018	138.411	32.004	1.00	92.10
ATOM	17271	N	ALA	28	226.983	142.636	31.778	1.00 87.30	CS3	ATOM	17324	O	LEU	33	215.860	138.490	32.424	1.00	92.10
ATOM	17272	CA	ALA	28	225.906	142.548	32.747	1.00 87.30	CS3	ATOM	17325	N	LEU	34	217.870	137.466	32.383	1.00	81.46
ATOM	17273	CB	ALA	28	225.776	143.895	33.484	1.00 54.36	CS3	ATOM	17326	CA	LEU	34	217.454	136.455	33.328	1.00	81.46
ATOM	17274	C	ALA	28	224.576	142.147	32.092	1.00 87.30	CS3	ATOM	17327	CB	LEU	34	218.657	135.786	33.991	1.00	35.79
ATOM	17275	O	ALA	28	223.589	141.894	32.783	1.00 87.30	CS3	ATOM	17328	CG	LEU	34	218.417	134.265	34.027	1.00	35.79
ATOM	17276	N	TYR	29	224.573	142.057	30.762	1.00 64.87	CS3	ATOM	17329	CD1	LEU	34	219.440	133.564	34.911	1.00	35.79
ATOM	17277	CA	TYR	29	223.381	141.710	29.968	1.00 64.87	CS3	ATOM	17330	CD2	LEU	34	217.005	133.977	34.524	1.00	35.79
ATOM	17278	CB	TYR	29	223.702	141.865	28.482	1.00 46.40	CS3	ATOM	17331	C	LEU	34	216.536	137.060	34.381	1.00	81.46
ATOM	17279	CG	TYR	29	222.516	142.216	27.613	1.00 46.40	CS3	ATOM	17332	O	LEU	34	215.423	136.579	34.577	1.00	81.46
ATOM	17280	CD1	TYR	29	222.421	143.469	27.003	1.00 46.40	CS3	ATOM	17333	N	GLU	35	216.986	138.126	35.037	1.00	70.32
ATOM	17281	CE1	TYR	29	221.340	143.792	26.181	1.00 46.40	CS3	ATOM	17334	CA	GLU	35	216.171	138.777	36.056	1.00	70.32
ATOM	17282	CD2	TYR	29	221.496	141.292	27.381	1.00 46.40	CS3	ATOM	17335	CB	GLU	35	216.883	140.021	36.593	1.00	184.28
ATOM	17283	CE2	TYR	29	220.413	141.606	26.566	1.00 46.40	CS3	ATOM	17336	CG	GLU	35	218.287	139.727	37.106	1.00	184.28
ATOM	17284	CZ	TYR	29	220.342	142.855	25.970	1.00 46.40	CS3	ATOM	17337	CD	GLU	35	218.969	140.939	37.712	1.00	184.28
ATOM	17285	OH	TYR	29	219.271	143.156	25.162	1.00 46.40	CS3	ATOM	17338	OE1	GLU	35	218.905	142.027	37.100	1.00	184.28
ATOM	17286	C	TYR	29	222.778	140.314	30.199	1.00 64.87	CS3	ATOM	17339	OE2	GLU	35	219.575	140.800	38.796	1.00	184.28
ATOM	17287	O	TYR	29	221.569	140.182	30.426	1.00 64.87	CS3	ATOM	17340	C	GLU	35	214.827	139.157	35.451	1.00	70.32
ATOM	17288	N	ARG	30	223.604	139.272	30.134	1.00 81.23	CS3	ATOM	17341	O	GLU	35	213.779	138.722	35.928	1.00	70.32
ATOM	17289	CA	ARG	30	223.100	137.912	30.340	1.00 81.23	CS3	ATOM	17342	N	ASP	36	214.867	139.955	34.388	1.00	71.66
ATOM	17290	CB	ARG	30	224.222	136.881	30.140	1.00 84.21	CS3	ATOM	17343	CA	ASP	36	213.657	140.390	33.698	1.00	71.66
ATOM	17291	CG	ARG	30	225.108	136.662	31.348	1.00 84.21	CS3	ATOM	17344	CB	ASP	36	214.014	140.973	32.328	1.00	118.10
ATOM	17292	CD	ARG	30	226.406	135.974	30.963	1.00 84.21	CS3	ATOM	17345	CG	ASP	36	214.727	142.302	32.428	1.00	118.10
ATOM	17293	NE	ARG	30	227.511	136.921	30.787	1.00 84.21	CS3	ATOM	17346	OD1	ASP	36	215.663	142.401	33.246	1.00	118.10
ATOM	17294	CZ	ARG	30	227.462	138.025	30.038	1.00 84.21	CS3	ATOM	17347	OD2	ASP	36	214.358	143.242	33.685	1.00	118.10
ATOM	17295	NH1	ARG	30	226.355	138.350	29.378	1.00 84.21	CS3	ATOM	17348	C	ASP	36	212.680	139.233	33.498	1.00	71.66
ATOM	17296	NH2	ARG	30	228.532	138.809	29.938	1.00 84.21	CS3	ATOM	17349	O	ASP	36	211.455	139.413	33.520	1.00	71.66

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ATOM	17350	N	GLN	37	213.221	138.041	33.302	1.00	92.31	CS3	ATOM	17403	CB	LEU	43	204.706	139.060	37.023	1.00	77.48	C
ATOM	17351	CA	GLN	37	212.370	136.897	33.082	1.00	92.31	CS3	ATOM	17404	CG	LEU	43	205.940	139.574	37.756	1.00	77.48	C
ATOM	17352	CB	GLN	37	213.010	135.980	32.053	1.00	129.47	CS3	ATOM	17405	CD1	LEU	43	206.266	140.970	37.241	1.00	77.48	C
ATOM	17353	CG	GLN	37	212.793	136.507	30.655	1.00	129.47	CS3	ATOM	17406	CD2	LEU	43	205.691	139.606	39.254	1.00	77.48	C
ATOM	17354	CD	GLN	37	213.754	135.925	29.667	1.00	129.47	CS3	ATOM	17407	C	LEU	43	203.077	137.253	36.549	1.00	65.64	C
ATOM	17355	OE1	GLN	37	214.924	136.310	29.618	1.00	129.47	CS3	ATOM	17408	O	LEU	43	201.916	137.668	36.517	1.00	65.64	C
ATOM	17356	NE2	GLN	37	213.275	134.977	28.873	1.00	129.47	CS3	ATOM	17409	N	GLU	44	203.533	136.343	35.697	1.00	97.35	C
ATOM	17357	C	GLN	37	211.991	136.142	34.334	1.00	92.31	CS3	ATOM	17410	CA	GLU	44	202.652	135.766	34.692	1.00	97.35	C
ATOM	17358	O	GLN	37	210.892	135.595	34.410	1.00	92.31	CS3	ATOM	17411	CB	GLU	44	203.438	135.303	33.463	1.00	147.38	C
ATOM	17359	N	ARG	38	212.879	136.098	35.321	1.00	81.31	CS3	ATOM	17412	CG	GLU	44	203.733	136.395	32.451	1.00	147.38	C
ATOM	17360	CA	ARG	38	212.525	135.411	36.551	1.00	81.31	CS3	ATOM	17413	CD	GLU	44	204.249	135.832	31.136	1.00	147.38	C
ATOM	17361	CB	ARG	38	213.683	135.432	37.549	1.00	99.45	CS3	ATOM	17414	OE1	GLU	44	203.551	134.982	30.538	1.00	147.38	C
ATOM	17362	CG	ARG	38	215.036	135.224	36.900	1.00	99.45	CS3	ATOM	17415	OE2	GLU	44	205.347	136.239	30.701	1.00	147.38	C
ATOM	17363	CD	ARG	38	216.049	134.549	37.814	1.00	99.45	CS3	ATOM	17416	C	GLU	44	201.906	134.584	35.274	1.00	97.35	C
ATOM	17364	NE	ARG	38	215.993	133.096	37.685	1.00	99.45	CS3	ATOM	17417	O	GLU	44	200.963	134.081	34.671	1.00	97.35	C
ATOM	17365	CZ	ARG	38	216.930	132.263	38.131	1.00	99.45	CS3	ATOM	17418	N	LYS	45	202.330	134.140	36.449	1.00	114.04	C
ATOM	17366	NH1	ARG	38	218.006	132.741	38.745	1.00	99.45	CS3	ATOM	17419	CA	LYS	45	201.690	133.005	37.088	1.00	114.04	C
ATOM	17367	NH2	ARG	38	216.798	130.952	37.949	1.00	99.45	CS3	ATOM	17420	CB	LYS	45	202.715	132.208	37.900	1.00	124.62	C
ATOM	17368	C	ARG	38	211.357	136.249	37.055	1.00	81.31	CS3	ATOM	17421	CG	LYS	45	202.188	130.898	38.484	1.00	124.62	C
ATOM	17369	O	ARG	38	210.406	135.738	37.650	1.00	81.31	CS3	ATOM	17422	CD	LYS	45	201.869	129.872	37.394	1.00	124.62	C
ATOM	17370	N	ILE	39	211.434	137.545	36.769	1.00	66.19	CS3	ATOM	17423	CE	LYS	45	201.536	128.513	37.995	1.00	124.62	C
ATOM	17371	CA	ILE	39	210.397	138.491	37.153	1.00	66.19	CS3	ATOM	17424	NZ	LYS	45	201.336	127.459	36.954	1.00	124.62	C
ATOM	17372	CB	ILE	39	210.757	139.918	36.690	1.00	56.79	CS3	ATOM	17425	C	LYS	45	200.566	133.468	37.997	1.00	114.04	C
ATOM	17373	CG2	ILE	39	209.553	140.841	36.822	1.00	56.79	CS3	ATOM	17426	O	LYS	45	199.399	133.483	37.610	1.00	114.04	C
ATOM	17374	CG1	ILE	39	211.943	140.438	37.503	1.00	56.79	CS3	ATOM	17427	N	GLU	46	200.930	133.862	39.209	1.00	158.39	C
ATOM	17375	CD1	ILE	39	212.453	141.796	37.048	1.00	56.79	CS3	ATOM	17428	CA	GLU	46	199.951	134.299	40.188	1.00	158.39	C
ATOM	17376	C	ILE	39	209.073	138.089	36.517	1.00	66.19	CS3	ATOM	17429	CB	GLU	46	200.635	134.540	41.535	1.00	188.68	C
ATOM	17377	O	ILE	39	208.161	137.614	37.202	1.00	66.19	CS3	ATOM	17430	CG	GLU	46	201.110	133.257	42.207	1.00	188.68	C
ATOM	17378	N	ARG	40	208.979	138.283	35.202	1.00	66.89	CS3	ATOM	17431	CD	GLU	46	199.965	132.302	42.513	1.00	188.68	C
ATOM	17379	CA	ARG	40	207.777	137.943	34.450	1.00	66.89	CS3	ATOM	17432	OE1	GLU	46	199.092	132.665	43.329	1.00	188.68	C
ATOM	17380	CB	ARG	40	208.064	137.998	32.954	1.00	63.83	CS3	ATOM	17433	OE2	GLU	46	199.936	131.193	41.936	1.00	188.68	C
ATOM	17381	CG	ARG	40	208.616	139.320	32.460	1.00	63.83	CS3	ATOM	17434	C	GLU	46	199.149	135.526	39.786	1.00	188.68	C
ATOM	17382	CD	ARG	40	209.198	139.160	31.070	1.00	63.83	CS3	ATOM	17435	O	GLU	46	197.974	135.637	40.133	1.00	158.39	C
ATOM	17383	NE	ARG	40	210.039	140.287	30.689	1.00	63.83	CS3	ATOM	17436	N	LEU	47	199.766	136.444	39.051	1.00	57.49	C
ATOM	17384	CZ	ARG	40	209.568	141.437	30.228	1.00	63.83	CS3	ATOM	17437	CA	LEU	47	199.046	137.648	38.645	1.00	57.49	C
ATOM	17385	NH1	ARG	40	208.258	141.603	30.091	1.00	63.83	CS3	ATOM	17438	CB	LEU	47	200.035	138.742	38.252	1.00	59.53	C
ATOM	17386	NH2	ARG	40	210.405	142.415	29.904	1.00	63.83	CS3	ATOM	17439	CG	LEU	47	199.545	140.151	38.579	1.00	59.53	C
ATOM	17387	C	ARG	40	207.323	136.539	34.819	1.00	66.89	CS3	ATOM	17440	CD1	LEU	47	199.333	140.276	40.090	1.00	59.53	C
ATOM	17388	O	ARG	40	206.149	136.209	34.726	1.00	66.89	CS3	ATOM	17441	CD2	LEU	47	200.553	141.173	38.099	1.00	59.53	C
ATOM	17389	N	GLY	41	208.267	135.711	35.241	1.00	87.99	CS3	ATOM	17442	C	LEU	47	198.045	137.407	37.498	1.00	57.49	C
ATOM	17390	CA	GLY	41	207.929	134.356	35.618	1.00	87.99	CS3	ATOM	17443	O	LEU	47	197.443	138.347	36.966	1.00	57.49	C
ATOM	17391	C	GLY	41	206.769	134.309	36.585	1.00	87.99	CS3	ATOM	17444	N	TYR	48	197.862	136.135	37.146	1.00	71.15	C
ATOM	17392	O	GLY	41	205.677	133.881	36.232	1.00	87.99	CS3	ATOM	17445	CA	TYR	48	196.958	135.718	36.075	1.00	71.15	C
ATOM	17393	N	LEU	42	207.005	134.759	37.810	1.00	118.81	CS3	ATOM	17446	CB	TYR	48	196.922	134.184	36.026	1.00	90.19	C
ATOM	17394	CA	LEU	42	205.968	134.756	38.826	1.00	118.81	CS3	ATOM	17447	CG	TYR	48	196.035	133.587	34.951	1.00	90.19	C
ATOM	17395	CB	LEU	42	206.549	135.224	40.164	1.00	123.08	CS3	ATOM	17448	CD1	TYR	48	195.884	134.207	33.701	1.00	90.19	C
ATOM	17396	CG	LEU	42	207.683	134.369	40.745	1.00	123.08	CS3	ATOM	17449	CE1	TYR	48	195.071	133.648	32.710	1.00	90.19	C
ATOM	17397	CD1	LEU	42	208.242	135.040	41.991	1.00	123.08	CS3	ATOM	17450	CD2	TYR	48	195.355	132.390	35.179	1.00	90.19	C
ATOM	17398	CD2	LEU	42	207.171	132.968	41.071	1.00	123.08	CS3	ATOM	17451	CE2	TYR	48	194.543	131.824	34.199	1.00	90.19	C
ATOM	17399	C	LEU	42	204.795	135.642	38.426	1.00	118.81	CS3	ATOM	17452	CZ	TYR	48	194.403	132.457	32.973	1.00	90.19	C
ATOM	17400	O	LEU	42	203.638	135.235	38.519	1.00	118.81	CS3	ATOM	17453	OH	TYR	48	193.575	131.900	32.029	1.00	90.19	C
ATOM	17401	N	LEU	43	205.100	136.846	37.962	1.00	65.64	CS3	ATOM	17454	C	TYR	48	195.547	136.275	36.225	1.00	71.15	C
ATOM	17402	CA	LEU	43	204.068	137.795	37.574	1.00	65.64	CS3	ATOM	17455	O	TYR	48	195.050	137.009	35.360	1.00	71.15	C

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ATOM	17456	N	SER	49	194.920	135.902	37.336	1.00105.52	CS3	ATOM	17509	O	ASP	56	209.127	145.019	31.311	1.00123.61
ATOM	17457	CA	SER	49	193.564	136.298	37.700	1.00105.52	CS3	ATOM	17510	N	ILE	57	209.090	146.956	32.462	1.00 79.38
ATOM	17458	CB	SER	49	193.445	136.316	39.212	1.00104.42	CS3	ATOM	17511	CA	ILE	57	210.402	146.801	33.113	1.00 79.38
ATOM	17459	OG	SER	49	194.373	137.245	39.736	1.00104.42	CS3	ATOM	17512	CB	ILE	57	210.993	145.368	33.009	1.00 38.16
ATOM	17460	C	SER	49	193.091	137.642	37.172	1.00105.52	CS3	ATOM	17513	CG2	ILE	57	212.447	145.386	33.420	1.00 38.16
ATOM	17461	O	SER	49	191.912	137.815	36.880	1.00105.52	CS3	ATOM	17514	CG1	ILE	57	210.213	144.391	33.895	1.00 38.16
ATOM	17462	N	ALA	50	193.993	138.606	37.071	1.00 93.08	CS3	ATOM	17515	CD1	ILE	57	210.767	142.936	33.887	1.00 38.16
ATOM	17463	CA	ALA	50	193.600	139.914	36.579	1.00 93.08	CS3	ATOM	17516	C	ILE	57	211.491	147.719	32.571	1.00 79.38
ATOM	17464	CB	ALA	50	193.676	140.926	37.695	1.00 77.01	CS3	ATOM	17517	O	ILE	57	211.849	147.651	31.394	1.00 79.38
ATOM	17465	C	ALA	50	194.457	140.364	35.412	1.00 93.08	CS3	ATOM	17518	N	GLU	58	212.020	148.556	33.459	1.00 82.24
ATOM	17466	O	ALA	50	195.569	140.839	35.603	1.00 93.08	CS3	ATOM	17519	CA	GLU	58	213.106	149.479	33.156	1.00 82.24
ATOM	17467	N	GLY	51	193.931	140.193	34.204	1.00 64.73	CS3	ATOM	17520	CG	GLU	58	212.596	150.911	33.205	1.00125.71
ATOM	17468	CA	GLY	51	194.621	140.598	32.987	1.00 64.73	CS3	ATOM	17521	CB	GLU	58	211.184	151.032	32.662	1.00125.71
ATOM	17469	C	GLY	51	196.138	140.565	32.865	1.00 64.73	CS3	ATOM	17522	CD	GLU	58	210.841	152.434	32.202	1.00125.71
ATOM	17470	O	GLY	51	196.799	141.602	32.956	1.00 64.73	CS3	ATOM	17523	OE1	GLU	58	209.646	152.700	31.939	1.00125.71
ATOM	17471	N	LEU	52	196.697	139.381	32.634	1.00112.86	CS3	ATOM	17524	OE2	GLU	58	211.767	153.266	32.093	1.00125.71
ATOM	17472	CA	LEU	52	198.139	139.240	32.456	1.00112.86	CS3	ATOM	17525	C	GLU	58	214.090	149.196	34.291	1.00 82.24
ATOM	17473	CB	LEU	52	198.529	137.768	32.377	1.00152.00	CS3	ATOM	17526	O	GLU	58	213.688	148.665	35.325	1.00 82.24
ATOM	17474	CG	LEU	52	198.633	136.936	33.646	1.00152.00	CS3	ATOM	17527	N	ALA	59	215.368	149.512	34.128	1.00 67.37
ATOM	17475	CD1	LEU	52	198.972	135.504	33.259	1.00152.00	CS3	ATOM	17528	CA	ALA	59	216.298	149.200	35.206	1.00 67.37
ATOM	17476	CD2	LEU	52	199.707	137.517	34.563	1.00152.00	CS3	ATOM	17529	CB	ALA	59	216.944	147.827	34.954	1.00 24.04
ATOM	17477	C	LEU	52	198.559	139.897	31.147	1.00112.86	CS3	ATOM	17530	C	ALA	59	217.372	150.246	35.466	1.00 67.37
ATOM	17478	O	LEU	52	199.002	139.210	30.226	1.00112.86	CS3	ATOM	17531	O	ALA	59	217.451	151.256	34.764	1.00 67.37
ATOM	17479	N	ALA	53	198.421	141.212	31.045	1.00121.60	CS3	ATOM	17532	N	ALA	60	218.170	149.988	36.506	1.00141.44
ATOM	17480	CA	ALA	53	198.801	141.883	29.811	1.00121.60	CS3	ATOM	17533	CA	ALA	60	219.280	150.845	36.934	1.00141.44
ATOM	17481	CB	ALA	53	197.601	142.546	29.188	1.00 30.53	CS3	ATOM	17534	CB	ALA	60	218.821	152.303	37.067	1.00 23.16
ATOM	17482	C	ALA	53	199.889	142.908	30.035	1.00121.60	CS3	ATOM	17535	C	ALA	60	219.859	150.339	38.266	1.00141.44
ATOM	17483	O	ALA	53	199.718	143.841	30.821	1.00121.60	CS3	ATOM	17536	O	ALA	60	220.222	151.127	39.141	1.00141.44
ATOM	17484	N	ARG	54	201.011	142.725	29.344	1.00107.59	CS3	ATOM	17537	N	ALA	61	219.929	149.012	38.393	1.00144.24
ATOM	17485	CA	ARG	54	202.145	143.641	29.436	1.00107.59	CS3	ATOM	17538	CA	ALA	61	220.458	148.308	39.569	1.00144.24
ATOM	17486	CB	ARG	54	201.727	145.023	28.923	1.00132.73	CS3	ATOM	17539	CB	ALA	61	221.932	147.967	39.348	1.00 89.96
ATOM	17487	CG	ARG	54	201.853	145.211	27.423	1.00132.73	CS3	ATOM	17540	C	ALA	61	220.293	149.005	40.915	1.00144.24
ATOM	17488	CD	ARG	54	203.254	145.668	27.065	1.00132.73	CS3	ATOM	17541	O	ALA	61	221.273	149.231	41.629	1.00144.24
ATOM	17489	NE	ARG	54	203.369	146.032	25.658	1.00132.73	CS3	ATOM	17542	N	ALA	62	219.053	149.325	41.268	1.00140.34
ATOM	17490	CZ	ARG	54	204.384	146.725	25.151	1.00132.73	CS3	ATOM	17543	CA	ALA	62	218.767	149.993	42.533	1.00140.34
ATOM	17491	NH1	ARG	54	205.370	147.128	25.942	1.00132.73	CS3	ATOM	17544	CB	ALA	62	219.381	151.387	42.539	1.00119.88
ATOM	17492	NH2	ARG	54	204.415	147.015	23.856	1.00132.73	CS3	ATOM	17545	C	ALA	62	217.262	150.086	42.730	1.00140.34
ATOM	17493	C	ARG	54	202.804	143.800	30.809	1.00107.59	CS3	ATOM	17546	O	ALA	62	216.764	150.073	43.859	1.00140.34
ATOM	17494	O	ARG	54	202.179	144.245	31.771	1.00107.59	CS3	ATOM	17547	N	ALA	63	216.544	150.182	41.619	1.00186.37
ATOM	17495	N	VAL	55	204.077	143.429	30.881	1.00 69.88	CS3	ATOM	17548	CA	ALA	63	215.095	150.273	41.661	1.00186.37
ATOM	17496	CA	VAL	55	204.883	143.569	32.089	1.00 69.88	CS3	ATOM	17549	CB	ALA	63	214.669	151.675	42.074	1.00 93.28
ATOM	17497	CB	VAL	55	205.312	142.203	32.674	1.00 52.76	CS3	ATOM	17550	C	ALA	63	214.494	149.920	40.311	1.00186.37
ATOM	17498	CG1	VAL	55	206.363	142.407	33.769	1.00 52.76	CS3	ATOM	17551	O	ALA	63	213.956	150.782	39.618	1.00186.37
ATOM	17499	CG2	VAL	55	204.104	141.471	33.230	1.00 52.76	CS3	ATOM	17552	N	VAL	64	214.611	148.652	39.932	1.00 84.66
ATOM	17500	C	VAL	55	206.129	144.288	31.597	1.00 69.88	CS3	ATOM	17553	CA	VAL	64	214.045	148.188	38.680	1.00 84.66
ATOM	17501	O	VAL	55	207.119	143.648	31.275	1.00 69.88	CS3	ATOM	17554	CB	VAL	64	214.066	146.656	38.600	1.00 76.59
ATOM	17502	N	ASP	56	206.075	145.612	31.523	1.00123.61	CS3	ATOM	17555	CG1	VAL	64	214.891	146.211	37.395	1.00 76.59
ATOM	17503	CA	ASP	56	207.201	146.395	31.034	1.00123.61	CS3	ATOM	17556	CG2	VAL	64	214.625	146.078	39.891	1.00 76.59
ATOM	17504	CB	ASP	56	206.904	147.874	30.441	1.00139.97	CS3	ATOM	17557	C	VAL	64	212.594	148.648	38.687	1.00 84.66
ATOM	17505	CG	ASP	56	205.681	148.299	30.441	1.00139.97	CS3	ATOM	17558	O	VAL	64	211.859	148.346	39.622	1.00 84.66
ATOM	17506	OD1	ASP	56	205.673	148.121	29.203	1.00139.97	CS3	ATOM	17559	N	ALA	65	212.184	149.384	37.660	1.00 88.72
ATOM	17507	OD2	ASP	56	204.726	148.800	31.072	1.00139.97	CS3	ATOM	17560	CA	ALA	65	210.814	149.879	37.587	1.00 88.72
ATOM	17508	C	ASP	56	208.563	146.061	31.627	1.00123.61	CS3	ATOM	17561	CB	ALA	65	210.609	150.672	36.305	1.00 76.19

ATOM	17562	C	ALA	65	209.797	148.748	37.670	1.00	88.72	CS3	ATOM	17615	C	ALA	73	193.561	145.738	40.541	1.00	84.33	C
ATOM	17563	O	ALA	65	209.328	148.408	38.755	1.00	88.72	CS3	ATOM	17616	O	ALA	73	194.343	145.400	41.435	1.00	84.33	C
ATOM	17564	N	VAL	66	209.464	148.164	36.523	1.00	66.19	CS3	ATOM	17617	N	ALA	74	192.242	145.653	40.660	1.00	140.56	C
ATOM	17565	CA	VAL	66	208.488	147.074	36.449	1.00	66.19	CS3	ATOM	17618	CA	ALA	74	191.610	145.137	41.864	1.00	140.56	C
ATOM	17566	CB	VAL	66	208.659	146.020	37.572	1.00	52.67	CS3	ATOM	17619	CB	ALA	74	190.142	144.810	41.578	1.00	104.58	C
ATOM	17567	CG1	VAL	66	207.527	145.012	37.497	1.00	52.67	CS3	ATOM	17620	C	ALA	74	192.337	143.890	42.362	1.00	140.56	C
ATOM	17568	CG2	VAL	66	209.986	145.308	37.430	1.00	52.67	CS3	ATOM	17621	O	ALA	74	193.132	143.954	43.300	1.00	140.56	C
ATOM	17569	C	VAL	66	207.062	147.575	36.542	1.00	66.19	CS3	ATOM	17622	N	ALA	75	192.062	142.761	41.715	1.00	111.77	C
ATOM	17570	O	VAL	66	206.577	147.904	37.618	1.00	66.19	CS3	ATOM	17623	CA	ALA	75	192.662	141.482	42.079	1.00	111.77	C
ATOM	17571	N	THR	67	206.396	147.617	35.402	1.00	111.63	CS3	ATOM	17624	CB	ALA	75	192.444	140.472	40.951	1.00	26.26	C
ATOM	17572	CA	THR	67	205.015	148.051	35.342	1.00	111.63	CS3	ATOM	17625	C	ALA	75	194.149	141.594	42.400	1.00	111.77	C
ATOM	17573	CB	THR	67	204.834	149.107	34.275	1.00	60.42	CS3	ATOM	17626	O	ALA	75	194.686	140.815	43.189	1.00	111.77	C
ATOM	17574	OG1	THR	67	205.689	150.213	34.570	1.00	60.42	CS3	ATOM	17627	N	ALA	76	194.809	142.570	41.791	1.00	125.93	C
ATOM	17575	CG2	THR	67	203.398	149.567	34.220	1.00	60.42	CS3	ATOM	17628	CA	ALA	76	196.236	142.764	42.004	1.00	125.93	C
ATOM	17576	C	THR	67	204.158	146.851	34.990	1.00	111.63	CS3	ATOM	17629	CB	ALA	76	196.804	143.655	40.914	1.00	68.56	C
ATOM	17577	O	THR	67	204.573	145.986	34.221	1.00	111.63	CS3	ATOM	17630	C	ALA	76	196.554	143.355	43.368	1.00	125.93	C
ATOM	17578	N	VAL	68	202.961	146.791	35.552	1.00	87.53	CS3	ATOM	17631	O	ALA	76	197.356	142.798	44.116	1.00	125.93	C
ATOM	17579	CA	VAL	68	202.084	145.675	35.268	1.00	87.53	CS3	ATOM	17632	N	ALA	77	195.915	144.478	43.686	1.00	163.20	C
ATOM	17580	CB	VAL	68	202.015	144.710	36.455	1.00	72.39	CS3	ATOM	17633	CA	ALA	77	196.136	145.172	44.951	1.00	163.20	C
ATOM	17581	CG1	VAL	68	201.011	143.632	36.165	1.00	72.39	CS3	ATOM	17634	CB	ALA	77	195.560	146.579	44.869	1.00	37.28	C
ATOM	17582	CG2	VAL	68	203.379	144.090	36.705	1.00	72.39	CS3	ATOM	17635	C	ALA	77	195.597	144.460	46.194	1.00	163.20	C
ATOM	17583	C	VAL	68	200.682	146.132	34.922	1.00	87.53	CS3	ATOM	17636	O	ALA	77	196.302	144.353	47.196	1.00	163.20	C
ATOM	17584	O	VAL	68	199.931	146.598	35.780	1.00	87.53	CS3	ATOM	17637	N	ALA	78	194.352	143.986	46.125	1.00	149.88	C
ATOM	17585	N	HIS	69	200.338	145.997	33.650	1.00	82.41	CS3	ATOM	17638	CA	ALA	78	194.625	142.245	47.236	1.00	84.18	C
ATOM	17586	CA	HIS	69	199.024	146.379	33.174	1.00	82.41	CS3	ATOM	17639	CB	ALA	78	193.172	144.224	48.317	1.00	149.88	C
ATOM	17587	HIS	HIS	69	199.117	146.665	31.689	1.00	62.83	CS3	ATOM	17640	C	ALA	78	192.801	145.360	48.025	1.00	149.88	C
ATOM	17588	CG	HIS	69	200.231	147.606	31.357	1.00	62.83	CS3	ATOM	17641	O	ALA	78	193.143	143.740	49.561	1.00	112.70	C
ATOM	17589	CD2	HIS	69	201.549	147.565	31.669	1.00	62.83	CS3	ATOM	17642	N	ALA	79	192.670	144.530	50.698	1.00	112.70	C
ATOM	17590	ND1	HIS	69	200.034	148.800	30.693	1.00	62.83	CS3	ATOM	17643	CA	ALA	79	192.842	143.742	51.999	1.00	91.51	C
ATOM	17591	CE1	HIS	69	201.180	149.453	30.615	1.00	62.83	CS3	ATOM	17644	CB	ALA	79	193.430	145.847	50.774	1.00	112.70	C
ATOM	17592	NE2	HIS	69	202.115	148.727	31.201	1.00	62.83	CS3	ATOM	17645	C	ALA	79	194.249	146.061	51.667	1.00	112.70	C
ATOM	17593	C	HIS	69	198.121	145.208	33.506	1.00	82.41	CS3	ATOM	17646	O	ALA	80	193.144	146.717	49.812	1.00	155.87	C
ATOM	17594	O	HIS	69	198.493	144.050	33.304	1.00	82.41	CS3	ATOM	17647	N	ALA	80	193.762	148.029	49.696	1.00	155.87	C
ATOM	17595	N	VAL	70	196.937	145.510	34.026	1.00	93.74	CS3	ATOM	17648	CA	ALA	80	193.075	149.005	50.645	1.00	77.57	C
ATOM	17596	CA	VAL	70	196.045	144.456	34.471	1.00	93.74	CS3	ATOM	17649	CB	ALA	80	195.282	148.055	49.911	1.00	155.87	C
ATOM	17597	CB	VAL	70	196.095	144.408	36.005	1.00	105.47	CS3	ATOM	17650	C	ALA	80	195.866	149.135	50.036	1.00	155.87	C
ATOM	17598	CG1	VAL	70	195.259	143.280	36.522	1.00	105.47	CS3	ATOM	17651	O	ALA	80	195.916	146.879	49.943	1.00	100.69	C
ATOM	17599	CG2	VAL	70	197.532	144.265	36.467	1.00	105.47	CS3	ATOM	17652	N	ALA	81	197.371	146.776	50.128	1.00	100.69	C
ATOM	17600	C	VAL	70	194.580	144.478	34.020	1.00	93.74	CS3	ATOM	17653	CA	ALA	81	197.823	147.733	51.221	1.00	87.40	C
ATOM	17601	O	VAL	70	193.911	143.437	34.022	1.00	93.74	CS3	ATOM	17654	CB	ALA	81	197.837	145.361	50.474	1.00	100.69	C
ATOM	17602	N	ALA	71	194.067	145.642	33.641	1.00	78.46	CS3	ATOM	17655	C	ALA	81	198.989	144.993	50.235	1.00	100.69	C
ATOM	17603	CA	ALA	71	192.670	145.718	33.224	1.00	78.46	CS3	ATOM	17656	O	ALA	81	196.931	144.575	51.043	1.00	133.80	C
ATOM	17604	CB	ALA	71	192.439	144.836	32.007	1.00	62.65	CS3	ATOM	17657	N	ALA	82	197.231	143.211	51.456	1.00	133.80	C
ATOM	17605	C	ALA	71	191.762	145.271	34.377	1.00	78.46	CS3	ATOM	17658	CA	ALA	82	196.027	142.637	52.209	1.00	82.29	C
ATOM	17606	O	ALA	71	190.548	145.135	34.212	1.00	78.46	CS3	ATOM	17659	CB	ALA	82	197.648	142.258	50.332	1.00	133.80	C
ATOM	17607	N	ALA	72	192.372	145.034	35.538	1.00	80.36	CS3	ATOM	17660	C	ALA	82	197.457	141.043	50.454	1.00	133.80	C
ATOM	17608	CA	ALA	72	191.669	144.621	36.757	1.00	80.36	CS3	ATOM	17661	O	ALA	82	198.215	142.793	49.248	1.00	121.04	C
ATOM	17609	CB	ALA	72	191.175	143.172	36.637	1.00	36.65	CS3	ATOM	17662	N	ARG	83	198.652	141.956	48.125	1.00	121.04	C
ATOM	17610	C	ALA	72	192.616	144.762	37.954	1.00	80.36	CS3	ATOM	17663	CA	ARG	83	197.451	141.237	47.498	1.00	126.59	C
ATOM	17611	O	ALA	72	192.859	143.799	38.695	1.00	80.36	CS3	ATOM	17664	CB	ARG	83	197.734	139.834	46.967	1.00	126.59	C
ATOM	17612	N	ALA	73	193.144	145.974	38.126	1.00	84.33	CS3	ATOM	17665	CG	ARG	83	198.747	139.833	45.836	1.00	126.59	C
ATOM	17613	CA	ALA	73	194.069	146.285	39.210	1.00	84.33	CS3	ATOM	17666	CD	ARG	83	198.928	138.502	45.262	1.00	126.59	C
ATOM	17614	CB	ALA	73	194.265	147.788	39.303	1.00	39.47	CS3	ATOM	17667	NE	ARG	83						C

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ATOM	17668	CZ	ARG	83	197.998	137.855	44.566	1.00126.59	CS3	ATOM	17721	CG	GLU	89	207.045	141.328	51.296	1.00149.21
ATOM	17669	NH1	ARG	83	196.814	138.416	44.352	1.00126.59	CS3	ATOM	17722	CD	GLU	89	208.293	141.142	52.136	1.00149.21
ATOM	17670	NH2	ARG	83	198.251	136.645	44.084	1.00126.59	CS3	ATOM	17723	OE1	GLU	89	208.404	140.103	52.819	1.00149.21
ATOM	17671	C	ARG	83	199.409	142.716	47.034	1.00121.04	CS3	ATOM	17724	OE2	GLU	89	209.169	142.031	52.103	1.00149.21
ATOM	17672	O	ARG	83	199.114	142.571	45.852	1.00121.04	CS3	ATOM	17725	C	GLU	89	208.773	139.793	48.358	1.00115.00
ATOM	17673	N	ILE	84	200.365	143.542	47.442	1.00102.99	CS3	ATOM	17726	O	GLU	89	209.994	139.684	48.463	1.00115.00
ATOM	17674	CA	ILE	84	201.212	144.292	46.517	1.00102.99	CS3	ATOM	17727	N	GLU	90	208.015	138.895	47.728	1.00151.82
ATOM	17675	CB	ILE	84	200.719	145.720	46.264	1.00 80.98	CS3	ATOM	17728	CA	GLU	90	208.593	137.715	47.079	1.00151.82
ATOM	17676	CG2	ILE	84	201.579	146.377	45.197	1.00 80.98	CS3	ATOM	17729	CB	GLU	90	207.500	136.811	46.508	1.00171.91
ATOM	17677	CG1	ILE	84	199.276	145.695	45.769	1.00 80.98	CS3	ATOM	17730	CG	GLU	90	206.934	135.800	47.477	1.00171.91
ATOM	17678	CD1	ILE	84	198.719	147.074	45.437	1.00 80.98	CS3	ATOM	17731	CD	GLU	90	206.130	134.723	46.770	1.00171.91
ATOM	17679	C	ILE	84	202.523	144.349	47.268	1.00102.99	CS3	ATOM	17732	OE1	GLU	90	205.111	135.063	46.129	1.00171.91
ATOM	17680	O	ILE	84	203.607	144.316	46.679	1.00102.99	CS3	ATOM	17733	OE2	GLU	90	206.524	133.539	46.851	1.00171.91
ATOM	17681	N	ARG	85	202.395	144.445	48.588	1.00107.39	CS3	ATOM	17734	C	GLU	90	209.496	138.146	45.938	1.00151.82
ATOM	17682	CA	ARG	85	203.539	144.436	49.483	1.00107.39	CS3	ATOM	17735	O	GLU	90	210.392	137.412	45.517	1.00151.82
ATOM	17683	CB	ARG	85	203.117	144.818	50.903	1.00160.37	CS3	ATOM	17736	N	LEU	91	209.234	139.347	45.442	1.00 81.92
ATOM	17684	CG	ARG	85	204.109	144.389	51.976	1.00160.37	CS3	ATOM	17737	CA	LEU	91	209.980	139.922	44.340	1.00 81.92
ATOM	17685	CD	ARG	85	203.397	144.116	53.286	1.00160.37	CS3	ATOM	17738	CB	LEU	91	209.216	141.136	43.811	1.00 78.37
ATOM	17686	NE	ARG	85	202.866	145.334	53.887	1.00160.37	CS3	ATOM	17739	CG	LEU	91	209.968	142.172	42.992	1.00 78.37
ATOM	17687	CZ	ARG	85	201.980	145.351	54.880	1.00160.37	CS3	ATOM	17740	CD1	LEU	91	208.977	142.922	42.109	1.00 78.37
ATOM	17688	NH1	ARG	85	201.520	144.211	55.380	1.00160.37	CS3	ATOM	17741	CD2	LEU	91	210.723	143.105	43.940	1.00 78.37
ATOM	17689	NH2	ARG	85	201.560	146.507	55.382	1.00160.37	CS3	ATOM	17742	C	LEU	91	211.406	140.296	44.724	1.00 81.92
ATOM	17690	C	ARG	85	203.926	142.966	49.449	1.00107.39	CS3	ATOM	17743	O	LEU	91	212.308	140.287	43.886	1.00 81.92
ATOM	17691	O	ARG	85	205.099	142.609	49.487	1.00107.39	CS3	ATOM	17744	N	ALA	92	211.608	140.633	45.992	1.00 96.29
ATOM	17692	N	VAL	86	202.909	142.117	49.373	1.00 98.26	CS3	ATOM	17745	CA	ALA	92	212.936	140.990	46.466	1.00 96.29
ATOM	17693	CA	VAL	86	203.128	140.687	49.310	1.00 98.26	CS3	ATOM	17746	CB	ALA	92	212.834	141.914	47.663	1.00 75.59
ATOM	17694	CB	VAL	86	201.783	139.914	49.285	1.00108.87	CS3	ATOM	17747	C	ALA	92	213.676	139.706	46.834	1.00 96.29
ATOM	17695	CG1	VAL	86	202.036	138.414	49.403	1.00108.87	CS3	ATOM	17748	O	ALA	92	214.893	139.712	47.013	1.00 96.29
ATOM	17696	CG2	VAL	86	200.887	140.388	50.424	1.00108.87	CS3	ATOM	17749	N	LYS	93	212.926	138.610	46.952	1.00114.44
ATOM	17697	C	VAL	86	203.902	140.440	48.018	1.00 98.26	CS3	ATOM	17750	CA	LYS	93	213.497	137.294	47.256	1.00114.44
ATOM	17698	O	VAL	86	204.841	139.643	47.988	1.00 98.26	CS3	ATOM	17751	CB	LYS	93	212.418	136.341	47.785	1.00121.54
ATOM	17699	N	LEU	87	203.513	141.137	46.952	1.00108.99	CS3	ATOM	17752	CG	LYS	93	211.842	136.697	49.147	1.00121.54
ATOM	17700	CA	LEU	87	204.196	140.994	45.669	1.00108.99	CS3	ATOM	17753	CD	LYS	93	212.769	136.298	50.287	1.00121.54
ATOM	17701	CB	LEU	87	203.516	141.837	44.582	1.00 88.78	CS3	ATOM	17754	CE	LYS	93	212.069	136.468	51.636	1.00121.54
ATOM	17702	CG	LEU	87	202.150	141.371	44.064	1.00 88.78	CS3	ATOM	17755	NZ	LYS	93	212.882	135.972	52.786	1.00121.54
ATOM	17703	CD1	LEU	87	201.679	142.300	42.953	1.00 88.78	CS3	ATOM	17756	C	LYS	93	214.051	136.750	45.933	1.00114.44
ATOM	17704	CD2	LEU	87	202.255	139.938	43.556	1.00 88.78	CS3	ATOM	17757	O	LYS	93	214.755	135.737	45.890	1.00114.44
ATOM	17705	C	LEU	87	205.636	141.453	45.832	1.00108.99	CS3	ATOM	17758	N	LEU	94	213.698	137.439	44.852	1.00110.59
ATOM	17706	O	LEU	87	206.558	140.636	45.863	1.00108.99	CS3	ATOM	17759	CA	LEU	94	214.145	137.091	43.511	1.00110.59
ATOM	17707	N	ARG	88	205.816	142.765	45.942	1.00 80.30	CS3	ATOM	17760	CB	LEU	94	213.041	137.372	42.486	1.00 71.44
ATOM	17708	CA	ARG	88	207.138	143.351	46.117	1.00 80.30	CS3	ATOM	17761	CG	LEU	94	212.074	136.281	42.024	1.00 71.44
ATOM	17709	CB	ARG	88	206.991	144.793	46.597	1.00119.14	CS3	ATOM	17762	CD1	LEU	94	211.005	136.916	41.140	1.00 71.44
ATOM	17710	CG	ARG	88	206.349	145.698	45.566	1.00119.14	CS3	ATOM	17763	CD2	LEU	94	212.826	135.199	41.260	1.00 71.44
ATOM	17711	CD	ARG	88	206.091	147.085	46.116	1.00119.14	CS3	ATOM	17764	C	LEU	94	215.338	137.973	43.189	1.00110.59
ATOM	17712	NE	ARG	88	206.132	148.098	45.063	1.00119.14	CS3	ATOM	17765	O	LEU	94	216.437	137.490	42.913	1.00110.59
ATOM	17713	CZ	ARG	88	205.818	149.380	45.239	1.00119.14	CS3	ATOM	17766	N	THR	95	215.099	139.278	43.244	1.00124.35
ATOM	17714	NH1	ARG	88	205.430	149.814	46.433	1.00119.14	CS3	ATOM	17767	CA	THR	95	216.114	140.270	42.944	1.00124.35
ATOM	17715	NH2	ARG	88	205.908	150.234	44.224	1.00119.14	CS3	ATOM	17768	CB	THR	95	215.631	141.219	41.859	1.00 79.55
ATOM	17716	C	ARG	88	208.007	142.550	47.094	1.00 80.30	CS3	ATOM	17769	OG1	THR	95	214.581	142.048	42.381	1.00 79.55
ATOM	17717	O	ARG	88	209.236	142.602	47.028	1.00 80.30	CS3	ATOM	17770	CG2	THR	95	215.111	140.426	40.668	1.00 79.55
ATOM	17718	N	GLU	89	207.359	141.805	47.988	1.00115.00	CS3	ATOM	17771	C	THR	95	216.471	141.117	44.149	1.00124.35
ATOM	17719	CA	GLU	89	208.054	140.983	48.979	1.00115.00	CS3	ATOM	17772	O	THR	95	215.620	141.819	44.703	1.00124.35
ATOM	17720	CB	GLU	89	207.068	140.484	50.038	1.00149.21	CS3	ATOM	17773	N	GLY	96	217.733	141.056	44.551	1.00105.67

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ATOM	17774	CA	GLY	96	218.160	141.858	45.676	1.00105.67	CS3	ATOM	17827	C	VAL	103	198.674	149.854	37.642	1.00	71.74
ATOM	17775	C	GLY	96	218.468	143.256	45.176	1.00105.67	CS3	ATOM	17828	O	VAL	103	197.807	150.436	38.295	1.00	71.74
ATOM	17776	O	GLY	96	219.540	143.792	45.455	1.00105.67	CS3	ATOM	17829	N	GLN	104	198.877	150.064	36.346	1.00	80.45
ATOM	17777	N	LYS	97	217.539	143.852	44.435	1.00 83.52	CS3	ATOM	17830	CA	GLN	104	197.996	150.935	35.595	1.00	80.45
ATOM	17778	CA	LYS	97	217.764	145.191	43.904	1.00 83.52	CS3	ATOM	17831	CB	GLN	104	198.770	151.941	34.747	1.00	87.74
ATOM	17779	CB	LYS	97	217.755	145.177	42.375	1.00146.82	CS3	ATOM	17832	CG	GLN	104	199.656	151.351	33.689	1.00	87.74
ATOM	17780	CG	LYS	97	218.192	143.882	41.730	1.00146.82	CS3	ATOM	17833	CD	GLN	104	199.931	152.349	32.585	1.00	87.74
ATOM	17781	CD	LYS	97	217.874	143.931	40.245	1.00146.82	CS3	ATOM	17834	OE1	GLN	104	200.279	153.499	32.848	1.00	87.74
ATOM	17782	CE	LYS	97	217.517	142.557	39.711	1.00146.82	CS3	ATOM	17835	NE2	GLN	104	199.773	151.915	31.340	1.00	87.74
ATOM	17783	NZ	LYS	97	216.803	142.606	38.395	1.00146.82	CS3	ATOM	17836	C	GLN	104	197.222	149.965	34.720	1.00	80.45
ATOM	17784	C	LYS	97	216.724	146.202	44.367	1.00 83.52	CS3	ATOM	17837	O	GLN	104	197.777	149.348	33.814	1.00	80.45
ATOM	17785	O	LYS	97	216.858	147.393	44.089	1.00 83.52	CS3	ATOM	17838	N	GLU	105	195.940	149.812	35.033	1.00	102.23
ATOM	17786	N	ASN	98	215.692	145.738	45.064	1.00 68.17	CS3	ATOM	17839	CA	GLU	105	195.058	148.897	34.324	1.00	102.23
ATOM	17787	CA	ASN	98	214.634	146.640	45.522	1.00 68.17	CS3	ATOM	17840	CB	GLU	105	193.652	148.960	34.918	1.00	151.30
ATOM	17788	CB	ASN	98	215.230	147.809	46.323	1.00121.01	CS3	ATOM	17841	CG	GLU	105	193.442	148.051	36.111	1.00	151.30
ATOM	17789	CG	ASN	98	214.217	148.911	46.601	1.00121.01	CS3	ATOM	17842	CD	GLU	105	192.022	148.113	36.638	1.00	151.30
ATOM	17790	OD1	ASN	98	213.114	148.654	47.091	1.00121.01	CS3	ATOM	17843	OE1	GLU	105	191.079	148.019	35.822	1.00	151.30
ATOM	17791	ND2	ASN	98	214.593	150.149	46.296	1.00121.01	CS3	ATOM	17844	OE2	GLU	105	191.849	148.247	37.866	1.00	151.30
ATOM	17792	C	ASN	98	213.891	147.160	44.293	1.00 68.17	CS3	ATOM	17845	O	GLU	105	194.958	149.080	32.822	1.00	102.23
ATOM	17793	O	ASN	98	214.250	148.195	43.711	1.00 68.17	CS3	ATOM	17846	O	GLU	105	195.505	150.022	32.247	1.00	102.23
ATOM	17794	N	VAL	99	212.848	146.433	43.903	1.00 91.51	CS3	ATOM	17847	N	VAL	106	194.233	148.155	32.205	1.00	107.30
ATOM	17795	CA	VAL	99	212.074	146.803	42.728	1.00 91.51	CS3	ATOM	17848	CA	VAL	106	194.015	148.154	30.773	1.00	107.30
ATOM	17796	CB	VAL	99	211.467	145.547	42.079	1.00133.66	CS3	ATOM	17849	CB	VAL	106	194.318	146.771	30.193	1.00	128.23
ATOM	17797	CG1	VAL	99	210.851	145.887	40.730	1.00133.66	CS3	ATOM	17850	CG1	VAL	106	194.231	146.811	28.680	1.00	128.23
ATOM	17798	CG2	VAL	99	212.559	144.491	41.909	1.00133.66	CS3	ATOM	17851	CG2	VAL	106	195.694	146.315	30.657	1.00	128.23
ATOM	17799	C	VAL	99	210.990	147.831	43.034	1.00 91.51	CS3	ATOM	17852	C	VAL	106	192.566	148.526	30.473	1.00	107.30
ATOM	17800	O	VAL	99	210.861	148.287	44.163	1.00 91.51	CS3	ATOM	17853	O	VAL	106	191.645	147.733	30.674	1.00	107.30
ATOM	17801	N	ALA	100	210.218	148.203	42.022	1.00 71.47	CS3	ATOM	17854	N	GLN	107	192.383	149.750	30.001	1.00	92.89
ATOM	17802	CA	ALA	100	209.176	149.196	42.203	1.00 71.47	CS3	ATOM	17855	CA	GLN	107	191.074	150.285	29.664	1.00	92.89
ATOM	17803	CB	ALA	100	209.724	150.556	41.854	1.00 22.33	CS3	ATOM	17856	CB	GLN	107	191.178	151.793	29.472	1.00	145.31
ATOM	17804	C	ALA	100	207.927	148.916	41.374	1.00 71.47	CS3	ATOM	17857	CG	GLN	107	192.529	152.350	29.879	1.00	145.31
ATOM	17805	O	ALA	100	207.684	149.573	40.360	1.00 71.47	CS3	ATOM	17858	CD	GLN	107	193.683	151.683	29.136	1.00	145.31
ATOM	17806	N	LEU	101	207.125	147.953	41.815	1.00 75.38	CS3	ATOM	17859	OE1	GLN	107	193.761	151.737	27.907	1.00	145.31
ATOM	17807	CA	LEU	101	205.905	147.604	41.102	1.00 75.38	CS3	ATOM	17860	NE2	GLN	107	194.578	151.043	29.883	1.00	145.31
ATOM	17808	CB	LEU	101	205.042	146.664	41.938	1.00 77.91	CS3	ATOM	17861	C	GLN	107	190.538	149.638	28.391	1.00	92.89
ATOM	17809	CG	LEU	101	205.327	145.186	41.721	1.00 77.91	CS3	ATOM	17862	O	GLN	107	190.972	149.954	27.276	1.00	92.89
ATOM	17810	CD1	LEU	101	204.260	144.353	42.428	1.00 77.91	CS3	ATOM	17863	N	ASN	108	189.585	148.732	28.585	1.00	92.62
ATOM	17811	CD2	LEU	101	205.334	144.891	40.225	1.00 77.91	CS3	ATOM	17864	CA	ASN	108	188.931	147.984	27.516	1.00	92.62
ATOM	17812	C	LEU	101	205.061	148.798	40.688	1.00 75.38	CS3	ATOM	17865	CB	ASN	108	188.671	148.864	26.290	1.00	125.59
ATOM	17813	O	LEU	101	205.302	149.933	41.091	1.00 75.38	CS3	ATOM	17866	CG	ASN	108	187.546	148.328	25.424	1.00	125.59
ATOM	17814	N	ASN	102	204.060	148.510	39.871	1.00106.84	CS3	ATOM	17867	OD1	ASN	108	187.536	147.152	25.059	1.00	125.59
ATOM	17815	CA	ASN	102	203.139	149.512	39.372	1.00106.84	CS3	ATOM	17868	ND2	ASN	108	186.589	149.189	25.094	1.00	125.59
ATOM	17816	CB	ASN	102	203.782	150.331	38.269	1.00 77.82	CS3	ATOM	17869	C	ASN	108	189.761	146.777	27.113	1.00	92.62
ATOM	17817	CG	ASN	102	204.763	151.323	38.802	1.00 77.82	CS3	ATOM	17870	O	ASN	108	190.450	146.797	26.098	1.00	92.62
ATOM	17818	OD1	ASN	102	204.380	152.289	39.464	1.00 77.82	CS3	ATOM	17871	N	PRO	109	189.715	145.708	27.922	1.00	54.14
ATOM	17819	ND2	ASN	102	206.043	151.092	38.537	1.00 77.82	CS3	ATOM	17872	CD	PRO	109	189.037	145.609	29.226	1.00	90.48
ATOM	17820	C	ASN	102	201.936	148.797	38.821	1.00106.84	CS3	ATOM	17873	CA	PRO	109	190.465	144.483	27.642	1.00	54.14
ATOM	17821	O	ASN	102	202.030	147.643	38.409	1.00106.84	CS3	ATOM	17874	CB	PRO	109	190.008	143.540	28.754	1.00	90.48
ATOM	17822	N	VAL	103	200.801	149.479	38.812	1.00 71.74	CS3	ATOM	17875	CG	PRO	109	189.780	144.466	29.891	1.00	90.48
ATOM	17823	CA	VAL	103	199.603	148.865	38.298	1.00 71.74	CS3	ATOM	17876	C	PRO	109	190.127	143.937	26.260	1.00	54.14
ATOM	17824	CB	VAL	103	198.837	148.106	39.403	1.00 62.72	CS3	ATOM	17877	O	PRO	109	190.840	143.095	25.721	1.00	54.14
ATOM	17825	CG1	VAL	103	197.480	147.655	38.881	1.00 62.72	CS3	ATOM	17878	N	ASN	110	189.027	144.415	25.696	1.00	94.41
ATOM	17826	CG2	VAL	103	199.635	146.884	39.846	1.00 62.72	CS3	ATOM	17879	CA	ASN	110	188.612	143.962	24.386	1.00	94.41

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ATOM	17880	CB	ASN	110	187.159	144.347	24.141	1.00128.87	CS3	ATOM	17933	CA	GLN	118	193.361	134.293	27.140	1.00 78.18
ATOM	17881	CG	ASN	110	186.204	143.295	24.645	1.00128.87	CS3	ATOM	17934	CB	GLN	118	193.892	135.111	28.321	1.00 95.91
ATOM	17882	OD1	ASN	110	186.299	142.851	25.790	1.00128.87	CS3	ATOM	17935	CG	GLN	118	195.265	135.721	28.042	1.00 95.91
ATOM	17883	ND2	ASN	110	185.281	142.880	23.789	1.00128.87	CS3	ATOM	17936	CD	GLN	118	195.962	136.231	29.284	1.00 95.91
ATOM	17884	C	ASN	110	189.501	144.490	23.279	1.00 94.41	CS3	ATOM	17937	OE1	GLN	118	195.510	137.177	29.929	1.00 95.91
ATOM	17885	O	ASN	110	189.483	143.969	22.168	1.00 94.41	CS3	ATOM	17938	NE2	GLN	118	197.078	135.602	29.625	1.00 95.91
ATOM	17886	N	LEU	111	190.284	145.519	23.578	1.00 61.00	CS3	ATOM	17939	C	GLN	118	191.860	134.036	27.279	1.00 78.18
ATOM	17887	CA	LEU	111	191.188	146.073	22.578	1.00 61.00	CS3	ATOM	17940	O	GLN	118	191.434	132.976	27.755	1.00 78.18
ATOM	17888	CB	LEU	111	191.024	147.589	22.487	1.00 47.70	CS3	ATOM	17941	N	ARG	119	191.067	135.014	26.851	1.00 84.60
ATOM	17889	CG	LEU	111	189.788	148.030	21.699	1.00 47.70	CS3	ATOM	17942	CA	ARG	119	189.615	134.910	26.897	1.00 84.60
ATOM	17890	CD1	LEU	111	189.916	149.516	21.328	1.00 47.70	CS3	ATOM	17943	CB	ARG	119	188.992	136.104	26.172	1.00115.69
ATOM	17891	CD2	LEU	111	189.662	147.189	20.426	1.00 47.70	CS3	ATOM	17944	CG	ARG	119	188.048	136.933	27.011	1.00115.69
ATOM	17892	C	LEU	111	192.648	145.700	22.841	1.00 61.00	CS3	ATOM	17945	CD	ARG	119	186.643	136.361	27.028	1.00115.69
ATOM	17893	O	LEU	111	193.578	146.295	22.277	1.00 61.00	CS3	ATOM	17946	NE	ARG	119	185.731	137.195	27.812	1.00115.69
ATOM	17894	N	SER	112	192.830	144.696	23.694	1.00 48.58	CS3	ATOM	17947	CZ	ARG	119	185.542	138.500	27.615	1.00115.69
ATOM	17895	CA	SER	112	194.401	144.294	24.031	1.00 48.58	CS3	ATOM	17948	NH1	ARG	119	186.202	139.143	26.657	1.00115.69
ATOM	17896	CB	SER	112	195.659	143.723	25.534	1.00120.50	CS3	ATOM	17949	NH2	ARG	119	184.686	139.167	28.379	1.00115.69
ATOM	17897	OG	SER	112	194.250	142.764	23.592	1.00 48.58	CS3	ATOM	17950	C	ARG	119	189.219	133.628	26.182	1.00 84.60
ATOM	17898	C	SER	112	194.730	141.856	24.245	1.00 48.58	CS3	ATOM	17951	O	ARG	119	188.510	132.778	26.728	1.00 84.60
ATOM	17899	O	SER	112	193.730	141.856	24.245	1.00 48.58	CS3	ATOM	17952	N	VAL	120	189.707	133.503	24.952	1.00 55.40
ATOM	17900	N	ALA	113	194.939	142.561	22.479	1.00 56.43	CS3	ATOM	17953	CA	VAL	120	189.422	132.359	24.112	1.00 55.40
ATOM	17901	CA	ALA	113	195.134	141.240	21.916	1.00 56.43	CS3	ATOM	17954	CB	VAL	120	189.907	132.594	22.694	1.00 40.64
ATOM	17902	CB	ALA	113	196.200	141.309	20.840	1.00 48.47	CS3	ATOM	17955	CG1	VAL	120	189.677	131.338	21.872	1.00 40.64
ATOM	17903	C	ALA	113	195.502	140.172	22.952	1.00 56.43	CS3	ATOM	17956	CG2	VAL	120	189.184	133.799	22.089	1.00 40.64
ATOM	17904	O	ALA	113	194.846	139.128	23.038	1.00 56.43	CS3	ATOM	17957	C	VAL	120	190.047	131.071	24.598	1.00 55.40
ATOM	17905	N	PRO	114	196.543	140.428	23.766	1.00 55.33	CS3	ATOM	17958	O	VAL	120	189.432	130.009	24.518	1.00 55.40
ATOM	17906	CD	PRO	114	197.250	141.712	23.928	1.00 34.39	CS3	ATOM	17959	N	ALA	121	191.276	131.148	25.085	1.00 53.41
ATOM	17907	CA	PRO	114	196.979	139.462	24.783	1.00 55.33	CS3	ATOM	17960	CA	ALA	121	191.927	129.938	25.555	1.00 53.41
ATOM	17908	CB	PRO	114	197.969	140.258	25.626	1.00 34.39	CS3	ATOM	17961	CB	ALA	121	193.380	130.200	25.865	1.00 62.70
ATOM	17909	CG	PRO	114	198.487	141.296	24.668	1.00 34.39	CS3	ATOM	17962	C	ALA	121	191.210	129.426	26.788	1.00 53.41
ATOM	17910	C	PRO	114	195.836	138.935	25.618	1.00 55.33	CS3	ATOM	17963	O	ALA	121	191.169	128.216	27.029	1.00 53.41
ATOM	17911	O	PRO	114	195.726	137.730	25.849	1.00 55.33	CS3	ATOM	17964	N	GLU	122	190.648	130.354	27.564	1.00 82.04
ATOM	17912	N	LEU	115	194.989	139.850	26.077	1.00 67.60	CS3	ATOM	17965	CA	GLU	122	189.913	130.005	28.779	1.00 82.04
ATOM	17913	CA	LEU	115	193.846	139.489	26.903	1.00 67.60	CS3	ATOM	17966	CB	GLU	122	189.548	131.264	29.564	1.00180.00
ATOM	17914	CB	LEU	115	193.155	140.756	27.400	1.00 83.91	CS3	ATOM	17967	CG	GLU	122	190.677	131.823	30.399	1.00180.00
ATOM	17915	CG	LEU	115	194.083	141.617	28.258	1.00 83.91	CS3	ATOM	17968	CD	GLU	122	190.235	133.008	31.232	1.00180.00
ATOM	17916	CD1	LEU	115	193.393	142.913	28.643	1.00 83.91	CS3	ATOM	17969	OE1	GLU	122	189.231	132.877	31.967	1.00180.00
ATOM	17917	CD2	LEU	115	194.488	140.825	29.498	1.00 83.91	CS3	ATOM	17970	OE2	GLU	122	190.894	134.066	31.155	1.00180.00
ATOM	17918	C	LEU	115	192.875	138.633	26.112	1.00 67.60	CS3	ATOM	17971	C	GLU	122	188.637	129.243	28.434	1.00 82.04
ATOM	17919	O	LEU	115	192.533	137.524	26.525	1.00 67.60	CS3	ATOM	17972	O	GLU	122	188.423	128.120	28.890	1.00 82.04
ATOM	17920	N	VAL	116	192.449	139.158	24.967	1.00 54.16	CS3	ATOM	17973	N	GLN	123	187.784	129.863	27.631	1.00 64.47
ATOM	17921	CA	VAL	116	191.531	138.456	24.080	1.00 54.16	CS3	ATOM	17974	CA	GLN	123	186.549	129.220	27.232	1.00 64.47
ATOM	17922	CB	VAL	116	191.469	139.148	22.712	1.00 36.37	CS3	ATOM	17975	CB	GLN	123	185.831	130.068	26.176	1.00 98.33
ATOM	17923	CG1	VAL	116	190.497	138.407	21.799	1.00 36.37	CS3	ATOM	17976	CG	GLN	123	185.599	131.511	26.602	1.00 98.33
ATOM	17924	CG2	VAL	116	191.044	140.598	22.882	1.00 36.37	CS3	ATOM	17977	CD	GLN	123	184.618	132.237	25.701	1.00 98.33
ATOM	17925	C	VAL	116	191.946	136.995	23.862	1.00 54.16	CS3	ATOM	17978	OE1	GLN	123	183.515	131.748	25.448	1.00 98.33
ATOM	17926	O	VAL	116	191.101	136.098	23.793	1.00 54.16	CS3	ATOM	17979	NE2	GLN	123	185.008	133.413	25.218	1.00 98.33
ATOM	17927	N	ALA	117	193.247	136.755	23.749	1.00 64.51	CS3	ATOM	17980	C	GLN	123	186.885	127.839	26.678	1.00 64.47
ATOM	17928	CA	ALA	117	193.728	135.399	23.542	1.00 64.51	CS3	ATOM	17981	O	GLN	123	186.311	126.842	27.099	1.00 64.47
ATOM	17929	CB	ALA	117	195.237	135.385	23.390	1.00 32.43	CS3	ATOM	17982	N	ILE	124	187.830	127.781	25.745	1.00 54.52
ATOM	17930	C	ALA	117	193.328	134.527	24.706	1.00 64.51	CS3	ATOM	17983	CA	ILE	124	188.224	126.508	25.158	1.00 54.52
ATOM	17931	O	ALA	117	192.741	133.455	24.525	1.00 64.51	CS3	ATOM	17984	CB	ILE	124	189.459	126.662	24.227	1.00 55.00
ATOM	17932	N	GLN	118	193.652	135.006	25.903	1.00 78.18	CS3	ATOM	17985	CG2	ILE	124	190.036	125.277	23.857	1.00 55.00

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ATOM	17986	CG1	ILE	124	189.059	127.432	22.967	1.00	55.00	CS3	ATOM	18039	CB	VAL	130	186.745	126.110	18.882	1.00	44.53	CS
ATOM	17987	CD1	ILE	124	190.220	127.680	22.010	1.00	55.00	CS3	ATOM	18040	CG1	VAL	130	187.773	126.990	18.195	1.00	44.53	CS
ATOM	17988	C	ILE	124	188.579	125.541	26.273	1.00	54.52	CS3	ATOM	18041	CG2	VAL	130	187.422	125.186	19.895	1.00	44.53	CS
ATOM	17989	O	ILE	124	188.160	124.372	26.271	1.00	54.52	CS3	ATOM	18042	C	VAL	130	185.135	128.009	18.609	1.00	46.95	CS
ATOM	17990	N	GLU	125	189.362	126.049	27.218	1.00	77.08	CS3	ATOM	18043	O	VAL	130	185.287	129.215	18.807	1.00	46.95	CS
ATOM	17991	CA	GLU	125	189.825	125.285	28.364	1.00	77.08	CS3	ATOM	18044	N	ARG	131	184.471	127.526	17.566	1.00	54.92	CS
ATOM	17992	CB	GLU	125	190.697	126.187	29.231	1.00	47.14	CS3	ATOM	18045	CA	ARG	131	183.926	128.417	16.558	1.00	54.92	CS
ATOM	17993	CG	GLU	125	191.642	125.471	30.156	1.00	47.14	CS3	ATOM	18046	CB	ARG	131	182.982	127.657	15.630	1.00	170.67	CS
ATOM	17994	CD	GLU	125	192.524	126.448	30.905	1.00	47.14	CS3	ATOM	18047	CG	ARG	131	183.691	126.626	14.782	1.00	170.67	CS
ATOM	17995	OE1	GLU	125	191.978	127.262	31.686	1.00	47.14	CS3	ATOM	18048	CD	ARG	131	182.722	125.885	13.893	1.00	170.67	CS
ATOM	17996	OE2	GLU	125	193.757	126.410	30.706	1.00	47.14	CS3	ATOM	18049	NE	ARG	131	183.354	124.741	13.248	1.00	170.67	CS
ATOM	17997	C	GLU	125	188.640	124.745	29.169	1.00	77.08	CS3	ATOM	18050	CZ	ARG	131	182.686	123.842	12.610	1.00	170.67	CS
ATOM	17998	O	GLU	125	188.700	123.636	29.704	1.00	77.08	CS3	ATOM	18051	NH1	ARG	131	181.363	123.786	12.532	1.00	170.67	CS
ATOM	17999	N	ARG	126	187.564	125.527	29.245	1.00	69.32	CS3	ATOM	18052	NH2	ARG	131	183.338	122.771	12.057	1.00	170.67	CS
ATOM	18000	CA	ARG	126	186.372	125.116	29.979	1.00	69.32	CS3	ATOM	18053	C	ARG	131	183.210	129.612	17.161	1.00	54.92	CS
ATOM	18001	CB	ARG	126	185.448	126.305	30.231	1.00	111.81	CS3	ATOM	18054	O	ARG	131	183.460	130.752	16.767	1.00	54.92	CS
ATOM	18002	CG	ARG	126	186.019	127.339	31.189	1.00	111.81	CS3	ATOM	18055	N	ARG	132	182.319	129.362	18.118	1.00	77.68	CS
ATOM	18003	CD	ARG	126	185.024	128.454	31.432	1.00	111.81	CS3	ATOM	18056	CA	ARG	132	181.584	130.457	18.747	1.00	77.68	CS
ATOM	18004	NE	ARG	126	185.676	129.656	31.930	1.00	111.81	CS3	ATOM	18057	CB	ARG	132	180.642	129.925	19.828	1.00	173.69	CS
ATOM	18005	CZ	ARG	126	185.092	130.847	31.980	1.00	111.81	CS3	ATOM	18058	CG	ARG	132	179.615	128.946	19.302	1.00	173.69	CS
ATOM	18006	NH1	ARG	126	183.837	130.990	31.562	1.00	111.81	CS3	ATOM	18059	CD	ARG	132	178.480	128.734	20.287	1.00	173.69	CS
ATOM	18007	NH2	ARG	126	185.767	131.898	32.431	1.00	111.81	CS3	ATOM	18060	NE	ARG	132	177.484	127.807	19.755	1.00	173.69	CS
ATOM	18008	C	ARG	126	185.629	124.050	29.203	1.00	69.32	CS3	ATOM	18061	CZ	ARG	132	176.314	127.552	20.331	1.00	173.69	CS
ATOM	18009	O	ARG	126	185.209	123.050	29.781	1.00	69.32	CS3	ATOM	18062	NH1	ARG	132	175.984	128.156	21.465	1.00	173.69	CS
ATOM	18010	N	ARG	127	185.469	124.292	27.902	1.00	73.89	CS3	ATOM	18063	NH2	ARG	132	175.472	126.691	19.774	1.00	173.69	CS
ATOM	18011	CA	ARG	127	184.821	123.390	26.945	1.00	73.89	CS3	ATOM	18064	C	ARG	132	182.588	131.402	19.368	1.00	77.68	CS
ATOM	18012	CB	ARG	127	184.238	122.155	27.623	1.00	63.14	CS3	ATOM	18065	O	ARG	132	182.742	132.551	18.942	1.00	67.43	CS
ATOM	18013	CG	ARG	127	185.297	121.180	28.065	1.00	63.14	CS3	ATOM	18066	N	ALA	133	183.280	130.885	20.374	1.00	67.43	CS
ATOM	18014	CD	ARG	127	184.753	120.216	29.077	1.00	63.14	CS3	ATOM	18067	CA	ALA	133	184.289	131.639	21.089	1.00	31.55	CS
ATOM	18015	NE	ARG	127	185.813	119.708	29.935	1.00	63.14	CS3	ATOM	18068	CB	ALA	133	185.291	130.695	21.687	1.00	67.43	CS
ATOM	18016	CZ	ARG	127	185.873	118.458	30.389	1.00	63.14	CS3	ATOM	18069	C	ALA	133	184.990	132.600	20.151	1.00	67.43	CS
ATOM	18017	NH1	ARG	127	184.923	117.585	30.058	1.00	63.14	CS3	ATOM	18070	O	ALA	133	185.035	133.807	20.391	1.00	40.08	CS
ATOM	18018	NH2	ARG	127	186.882	118.080	31.178	1.00	63.14	CS3	ATOM	18071	N	ILE	134	185.526	132.059	19.070	1.00	40.08	CS
ATOM	18019	C	ARG	127	183.753	124.024	26.081	1.00	73.89	CS3	ATOM	18072	CA	ILE	134	186.242	132.873	18.115	1.00	40.08	CS
ATOM	18020	O	ARG	127	182.776	123.372	25.725	1.00	73.89	CS3	ATOM	18073	CB	ILE	134	186.794	132.008	16.976	1.00	50.10	CS
ATOM	18021	N	PHE	128	183.942	125.290	25.728	1.00	67.28	CS3	ATOM	18074	CG2	ILE	134	187.793	132.792	16.182	1.00	50.10	CS
ATOM	18022	CA	PHE	128	182.984	125.972	24.873	1.00	67.28	CS3	ATOM	18075	CG1	ILE	134	187.509	130.787	17.554	1.00	50.10	CS
ATOM	18023	CB	PHE	128	183.051	127.476	25.119	1.00	113.04	CS3	ATOM	18076	CD1	ILE	134	188.084	129.863	16.508	1.00	50.10	CS
ATOM	18024	CG	PHE	128	182.536	127.873	26.466	1.00	113.04	CS3	ATOM	18077	C	ILE	134	185.369	133.979	17.533	1.00	40.08	CS
ATOM	18025	CD1	PHE	128	183.111	127.353	27.622	1.00	113.04	CS3	ATOM	18078	O	ILE	134	185.702	135.164	17.653	1.00	40.08	CS
ATOM	18026	CD2	PHE	128	181.438	128.718	26.582	1.00	113.04	CS3	ATOM	18079	N	LYS	135	184.259	133.595	16.903	1.00	60.65	CS
ATOM	18027	CE1	PHE	128	182.596	127.665	28.872	1.00	113.04	CS3	ATOM	18080	CA	LYS	135	183.350	134.562	16.291	1.00	60.65	CS
ATOM	18028	CE2	PHE	128	180.915	129.036	27.828	1.00	113.04	CS3	ATOM	18081	CB	LYS	135	182.055	133.889	15.843	1.00	94.86	CS
ATOM	18029	CZ	PHE	128	181.493	128.509	28.977	1.00	113.04	CS3	ATOM	18082	CG	LYS	135	182.224	132.818	14.794	1.00	94.86	CS
ATOM	18030	C	PHE	128	183.254	125.642	23.406	1.00	67.28	CS3	ATOM	18083	CD	LYS	135	180.878	132.216	14.438	1.00	94.86	CS
ATOM	18031	O	PHE	128	184.290	125.055	23.068	1.00	67.28	CS3	ATOM	18084	CE	LYS	135	181.016	131.041	13.481	1.00	94.86	CS
ATOM	18032	N	ALA	129	182.311	125.992	22.537	1.00	68.35	CS3	ATOM	18085	NZ	LYS	135	179.688	130.474	13.100	1.00	94.86	CS
ATOM	18033	CA	ALA	129	182.466	125.718	21.116	1.00	68.35	CS3	ATOM	18086	C	LYS	135	183.014	135.641	17.303	1.00	60.65	CS
ATOM	18034	CB	ALA	129	181.138	125.840	20.413	1.00	68.35	CS3	ATOM	18087	O	LYS	135	183.055	136.836	16.984	1.00	60.65	CS
ATOM	18035	C	ALA	129	183.465	126.695	20.523	1.00	68.35	CS3	ATOM	18088	N	GLN	136	182.684	135.200	18.523	1.00	55.29	CS
ATOM	18036	O	ALA	129	183.186	127.897	20.399	1.00	68.35	CS3	ATOM	18089	CA	GLN	136	182.336	136.094	19.628	1.00	68.89	CS
ATOM	18037	N	VAL	130	184.631	126.168	20.161	1.00	46.95	CS3	ATOM	18090	CB	GLN	136	182.081	135.279	20.892	1.00	68.89	CS
ATOM	18038	CA	VAL	130	185.688	126.986	19.592	1.00	46.95	CS3	ATOM	18091	CG	GLN	136	180.625	134.937	21.147	1.00	68.89	CS

ATOM	18092	CD	GLN	136	180.464	133.937	22.282	1.00	68.89	CS3	ATOM	18145	CA	GLU	143	182.424	145.533	18.846	1.00	99.27
ATOM	18093	OE1	GLN	136	181.230	133.945	23.255	1.00	68.89	CS3	ATOM	18146	CB	GLU	143	181.671	144.486	19.677	1.00	100.66.14
ATOM	18094	NE2	GLN	136	179.459	133.074	22.169	1.00	68.89	CS3	ATOM	18147	CG	GLU	143	180.262	144.886	20.109	1.00	100.66.14
ATOM	18095	C	GLN	136	183.418	137.138	19.902	1.00	55.29	CS3	ATOM	18148	CD	GLU	143	179.433	143.690	20.575	1.00	100.66.14
ATOM	18096	O	GLN	136	183.163	138.341	19.786	1.00	55.29	CS3	ATOM	18149	OE1	GLU	143	179.839	143.019	21.551	1.00	100.66.14
ATOM	18097	N	ALA	137	184.619	136.673	20.262	1.00	53.68	CS3	ATOM	18150	OE2	GLU	143	178.377	143.420	19.961	1.00	100.66.14
ATOM	18098	CA	ALA	137	185.756	137.556	20.551	1.00	53.68	CS3	ATOM	18151	C	GLU	143	182.828	146.713	19.731	1.00	99.27
ATOM	18099	CB	ALA	137	187.000	136.732	20.839	1.00	57.77	CS3	ATOM	18152	O	GLU	143	181.984	147.520	20.111	1.00	99.27
ATOM	18100	C	ALA	137	186.019	138.496	19.381	1.00	53.68	CS3	ATOM	18153	N	SER	144	184.114	146.824	20.046	1.00	66.31
ATOM	18101	O	ALA	137	186.252	139.692	19.567	1.00	53.68	CS3	ATOM	18154	CA	SER	144	184.595	147.917	20.887	1.00	66.31
ATOM	18102	N	VAL	138	185.995	137.953	18.169	1.00	56.17	CS3	ATOM	18155	CB	SER	144	185.139	147.357	22.214	1.00	66.83
ATOM	18103	CA	VAL	138	186.207	138.791	17.004	1.00	56.17	CS3	ATOM	18156	OG	SER	144	186.172	146.403	22.016	1.00	66.83
ATOM	18104	CB	VAL	138	186.494	138.866	14.499	1.00	41.24	CS3	ATOM	18157	C	SER	144	185.661	148.782	20.204	1.00	66.31
ATOM	18105	CG1	VAL	138	187.264	136.870	15.805	1.00	41.24	CS3	ATOM	18158	O	SER	144	186.740	149.004	20.758	1.00	66.31
ATOM	18106	CG2	VAL	138	185.055	139.784	16.990	1.00	56.17	CS3	ATOM	18159	N	GLY	145	185.341	149.284	19.011	1.00	96.86
ATOM	18107	C	VAL	138	185.269	140.992	16.943	1.00	56.17	CS3	ATOM	18160	CA	GLY	145	186.278	150.107	18.263	1.00	96.86
ATOM	18108	O	VAL	138	183.835	139.259	17.050	1.00	125.73	CS3	ATOM	18161	C	GLY	145	186.978	149.261	17.220	1.00	96.86
ATOM	18109	N	GLN	139	182.643	140.093	17.067	1.00	125.73	CS3	ATOM	18162	O	GLY	145	186.322	148.653	16.381	1.00	96.86
ATOM	18110	CA	GLN	139	181.388	139.256	16.804	1.00	114.29	CS3	ATOM	18163	N	ALA	146	188.307	149.220	17.279	1.00	75.59
ATOM	18111	CB	GLN	139	180.498	139.802	15.694	1.00	114.29	CS3	ATOM	18164	CA	ALA	146	189.138	148.423	16.362	1.00	75.59
ATOM	18112	CG	GLN	139	180.100	141.256	15.905	1.00	114.29	CS3	ATOM	18165	CB	ALA	146	189.039	146.919	16.712	1.00	36.44
ATOM	18113	CD	GLN	139	179.557	141.897	15.006	1.00	114.29	CS3	ATOM	18166	C	ALA	146	188.844	148.613	14.884	1.00	75.59
ATOM	18114	OE1	GLN	139	180.364	141.779	17.095	1.00	114.29	CS3	ATOM	18167	O	ALA	146	187.694	148.587	14.453	1.00	75.59
ATOM	18115	NE2	GLN	139	182.548	140.712	18.450	1.00	125.73	CS3	ATOM	18168	N	LYS	147	189.895	148.797	14.100	1.00	53.50
ATOM	18116	C	GLN	139	181.505	140.652	19.102	1.00	125.73	CS3	ATOM	18169	CA	LYS	147	189.711	148.961	12.669	1.00	53.50
ATOM	18117	O	GLN	139	183.653	141.295	18.897	1.00	62.87	CS3	ATOM	18170	CB	LYS	147	190.860	149.769	12.063	1.00	77.42
ATOM	18118	N	ARG	140	183.720	141.923	20.208	1.00	62.87	CS3	ATOM	18171	CG	LYS	147	190.767	151.278	12.212	1.00	77.42
ATOM	18119	CA	ARG	140	184.009	140.868	21.276	1.00	80.83	CS3	ATOM	18172	CD	LYS	147	191.879	151.901	11.373	1.00	77.42
ATOM	18120	CB	ARG	140	183.389	141.136	22.626	1.00	80.83	CS3	ATOM	18173	CE	LYS	147	192.020	153.411	11.548	1.00	77.42
ATOM	18121	CG	ARG	140	183.937	140.147	23.637	1.00	80.83	CS3	ATOM	18174	NZ	LYS	147	193.258	153.926	10.869	1.00	77.42
ATOM	18122	CD	ARG	140	183.425	138.792	23.447	1.00	80.83	CS3	ATOM	18175	C	LYS	147	189.662	147.572	12.028	1.00	53.50
ATOM	18123	NE	ARG	140	184.069	137.686	23.826	1.00	80.83	CS3	ATOM	18176	O	LYS	147	189.352	147.435	10.835	1.00	53.50
ATOM	18124	CZ	ARG	140	185.261	137.772	24.407	1.00	80.83	CS3	ATOM	18177	N	GLY	148	189.970	146.556	12.836	1.00	47.80
ATOM	18125	NH1	ARG	140	183.517	136.489	23.646	1.00	80.83	CS3	ATOM	18178	CA	GLY	148	189.971	145.185	12.368	1.00	47.80
ATOM	18126	NH2	ARG	140	184.857	142.933	20.128	1.00	62.87	CS3	ATOM	18179	C	GLY	148	190.466	144.252	13.461	1.00	47.80
ATOM	18127	C	ARG	140	184.639	144.129	20.276	1.00	62.87	CS3	ATOM	18180	O	GLY	148	191.136	144.699	14.391	1.00	47.80
ATOM	18128	O	ARG	140	186.072	142.441	19.884	1.00	77.53	CS3	ATOM	18181	N	ALA	149	190.146	142.962	13.353	1.00	43.01
ATOM	18129	N	VAL	141	187.232	143.316	19.739	1.00	77.53	CS3	ATOM	18182	CA	ALA	149	190.556	141.980	14.342	1.00	43.01
ATOM	18130	CA	VAL	141	188.459	142.558	19.184	1.00	57.77	CS3	ATOM	18183	CB	ALA	149	189.595	142.007	15.489	1.00	66.05
ATOM	18131	CB	VAL	141	189.563	143.558	18.798	1.00	57.77	CS3	ATOM	18184	C	ALA	149	190.582	140.586	13.712	1.00	43.01
ATOM	18132	CG1	VAL	141	188.967	141.554	20.219	1.00	57.77	CS3	ATOM	18185	O	ALA	149	189.925	140.364	12.690	1.00	43.01
ATOM	18133	CG2	VAL	141	186.804	144.324	18.692	1.00	77.53	CS3	ATOM	18186	N	LYS	150	191.334	139.662	14.325	1.00	52.10
ATOM	18134	C	VAL	141	187.212	145.486	18.690	1.00	77.53	CS3	ATOM	18187	CA	LYS	150	191.466	138.287	13.839	1.00	52.10
ATOM	18135	O	VAL	141	185.963	143.840	17.793	1.00	72.79	CS3	ATOM	18188	CB	LYS	150	192.491	138.230	12.709	1.00	92.73
ATOM	18136	N	MET	142	185.444	144.655	16.726	1.00	72.79	CS3	ATOM	18189	CG	LYS	150	193.001	136.822	12.426	1.00	92.73
ATOM	18137	CA	MET	142	184.805	143.758	15.669	1.00	70.92	CS3	ATOM	18190	CD	LYS	150	194.016	136.806	11.302	1.00	92.73
ATOM	18138	CB	MET	142	184.864	144.319	14.269	1.00	70.92	CS3	ATOM	18191	CE	LYS	150	193.371	137.230	10.002	1.00	92.73
ATOM	18139	CG	MET	142	186.548	144.781	13.828	1.00	70.92	CS3	ATOM	18192	NZ	LYS	150	192.165	136.396	9.768	1.00	92.73
ATOM	18140	SD	MET	142	186.216	146.195	12.776	1.00	70.92	CS3	ATOM	18193	C	LYS	150	191.878	137.297	14.943	1.00	52.10
ATOM	18141	CE	MET	142	184.398	145.531	17.373	1.00	72.79	CS3	ATOM	18194	O	LYS	150	192.773	137.581	15.748	1.00	52.10
ATOM	18142	C	MET	142	184.398	145.531	17.373	1.00	72.79	CS3	ATOM	18195	N	VAL	151	191.244	136.123	14.964	1.00	50.43
ATOM	18143	O	MET	142	183.529	144.882	18.144	1.00	99.27	CS3	ATOM	18196	CA	VAL	151	191.530	135.109	15.979	1.00	50.43
ATOM	18144	N	GLU	143							ATOM	18197	CB	VAL	151	190.385	135.038	16.993	1.00	42.57

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ATOM	18198	CG1 VAL	151	190.640	133.918	18.023	1.00	42.57	CS3	ATOM	18251	CA	GLY	159	188.753	117.403	21.422	1.00	58.72	CS
ATOM	18199	CG2 VAL	151	190.234	136.390	17.665	1.00	42.57	CS3	ATOM	18252	C	GLY	159	188.779	116.318	20.374	1.00	58.72	CS
ATOM	18200	C VAL	151	191.722	133.732	15.361	1.00	50.43	CS3	ATOM	18253	O	GLY	159	188.954	115.137	20.676	1.00	58.72	CS
ATOM	18201	O VAL	151	190.979	133.347	14.466	1.00	50.43	CS3	ATOM	18254	N	ALA	160	188.609	116.730	19.128	1.00	71.73	CS
ATOM	18202	N ILE	152	192.695	132.981	15.867	1.00	46.00	CS3	ATOM	18255	CA	ALA	160	188.609	115.803	18.018	1.00	71.73	CS
ATOM	18203	CA ILE	152	193.022	131.663	15.337	1.00	46.00	CS3	ATOM	18256	CB	ALA	160	187.970	116.467	16.815	1.00	44.51	CS
ATOM	18204	CB ILE	152	194.320	131.743	14.518	1.00	31.08	CS3	ATOM	18257	C	ALA	160	190.019	115.353	17.664	1.00	71.73	CS
ATOM	18205	CG2 ILE	152	194.659	130.380	13.926	1.00	31.08	CS3	ATOM	18258	O	ALA	160	190.989	116.074	17.895	1.00	71.73	CS
ATOM	18206	CG1 ILE	152	194.186	132.806	13.430	1.00	31.08	CS3	ATOM	18259	N	GLU	161	190.135	114.147	17.122	1.00	78.35	CS
ATOM	18207	CD1 ILE	152	195.512	133.254	12.857	1.00	31.08	CS3	ATOM	18260	CA	GLU	161	191.429	113.654	16.673	1.00	78.35	CS
ATOM	18208	C ILE	152	193.259	130.639	16.444	1.00	46.00	CS3	ATOM	18261	CB	GLU	161	191.337	112.177	16.314	1.00	115.84	CS
ATOM	18209	O ILE	152	194.197	130.786	17.240	1.00	46.00	CS3	ATOM	18262	CG	GLU	161	190.401	111.412	17.215	1.00	115.84	CS
ATOM	18210	N VAL	153	192.437	129.598	16.509	1.00	45.37	CS3	ATOM	18263	CD	GLU	161	190.052	110.039	16.684	1.00	115.84	CS
ATOM	18211	CA VAL	153	192.645	128.586	17.539	1.00	45.37	CS3	ATOM	18264	OE1	GLU	161	190.969	109.203	16.543	1.00	115.84	CS
ATOM	18212	CB VAL	153	191.311	128.112	18.161	1.00	47.11	CS3	ATOM	18265	OE2	GLU	161	188.857	109.801	16.409	1.00	115.84	CS
ATOM	18213	CG1 VAL	153	191.558	126.930	19.102	1.00	47.11	CS3	ATOM	18266	C	GLU	161	191.560	114.475	15.396	1.00	78.35	CS
ATOM	18214	CG2 VAL	153	190.657	129.260	18.915	1.00	47.11	CS3	ATOM	18267	O	GLU	161	190.544	114.867	14.819	1.00	78.35	CS
ATOM	18215	C VAL	153	193.337	127.421	16.848	1.00	45.37	CS3	ATOM	18268	N	GLN	162	192.777	114.751	14.951	1.00	56.56	CS
ATOM	18216	O VAL	153	192.995	127.087	15.719	1.00	45.37	CS3	ATOM	18269	CA	GLN	162	192.956	115.542	13.731	1.00	56.56	CS
ATOM	18217	N SER	154	194.313	126.822	17.527	1.00	75.67	CS3	ATOM	18270	CB	GLN	162	191.920	115.162	12.669	1.00	100.89	CS
ATOM	18218	CA SER	154	195.086	125.712	16.986	1.00	75.67	CS3	ATOM	18271	CG	GLN	162	192.183	113.859	11.954	1.00	100.89	CS
ATOM	18219	CB SER	154	196.061	125.178	18.014	1.00	74.66	CS3	ATOM	18272	CD	GLN	162	193.184	114.023	10.840	1.00	100.89	CS
ATOM	18220	OG SER	154	195.433	124.172	18.794	1.00	74.66	CS3	ATOM	18273	OE1	GLN	162	193.078	114.952	10.042	1.00	100.89	CS
ATOM	18221	C SER	154	194.213	124.564	16.560	1.00	75.67	CS3	ATOM	18274	NE2	GLN	162	194.159	113.120	10.771	1.00	100.89	CS
ATOM	18222	O SER	154	193.131	124.764	16.016	1.00	75.67	CS3	ATOM	18275	C	GLN	162	192.824	117.027	14.002	1.00	56.56	CS
ATOM	18223	N GLY	155	194.674	123.348	16.843	1.00	43.49	CS3	ATOM	18276	O	GLN	162	191.742	117.584	13.823	1.00	56.56	CS
ATOM	18224	CA GLY	155	193.926	122.179	16.425	1.00	43.49	CS3	ATOM	18277	N	ALA	163	193.919	117.661	14.420	1.00	35.82	CS
ATOM	18225	C GLY	155	193.631	121.226	17.542	1.00	43.49	CS3	ATOM	18278	CA	ALA	163	193.914	119.092	14.707	1.00	35.82	CS
ATOM	18226	O GLY	155	194.257	121.292	18.596	1.00	43.49	CS3	ATOM	18279	CB	ALA	163	195.325	119.559	15.057	1.00	95.52	CS
ATOM	18227	N ARG	156	192.697	120.318	17.256	1.00	57.73	CS3	ATOM	18280	C	ALA	163	193.397	119.816	13.464	1.00	35.82	CS
ATOM	18228	CA ARG	156	192.154	119.284	18.154	1.00	57.73	CS3	ATOM	18281	O	ALA	163	193.511	119.294	12.349	1.00	35.82	CS
ATOM	18229	CB ARG	156	193.066	118.935	19.327	1.00	56.32	CS3	ATOM	18282	N	ARG	164	192.847	121.015	13.634	1.00	71.68	CS
ATOM	18230	CG ARG	156	194.139	117.943	18.950	1.00	56.32	CS3	ATOM	18283	CA	ARG	164	192.307	121.703	12.478	1.00	71.68	CS
ATOM	18231	CD ARG	156	194.156	116.714	19.851	1.00	56.32	CS3	ATOM	18284	CB	ARG	164	190.774	121.615	12.483	1.00	75.45	CS
ATOM	18232	NE ARG	156	192.964	115.893	19.706	1.00	56.32	CS3	ATOM	18285	CG	ARG	164	190.240	120.198	12.631	1.00	75.45	CS
ATOM	18233	CZ ARG	156	192.824	114.685	20.248	1.00	56.32	CS3	ATOM	18286	CD	ARG	164	188.765	120.050	12.235	1.00	75.45	CS
ATOM	18234	NH1 ARG	156	193.804	114.158	20.975	1.00	56.32	CS3	ATOM	18287	NE	ARG	164	187.824	120.682	13.159	1.00	75.45	CS
ATOM	18235	NH2 ARG	156	191.705	113.996	20.054	1.00	56.32	CS3	ATOM	18288	CZ	ARG	164	187.499	121.968	13.136	1.00	75.45	CS
ATOM	18236	C ARG	156	190.877	119.891	18.665	1.00	57.73	CS3	ATOM	18289	NH1	ARG	164	188.041	122.781	12.232	1.00	75.45	CS
ATOM	18237	O ARG	156	190.340	119.477	19.682	1.00	57.73	CS3	ATOM	18290	NH2	ARG	164	186.618	122.436	14.011	1.00	75.45	CS
ATOM	18238	N ILE	157	190.411	120.896	17.929	1.00	51.81	CS3	ATOM	18291	C	ARG	164	192.709	123.146	12.264	1.00	71.68	CS
ATOM	18239	CA ILE	157	189.179	121.586	18.248	1.00	51.81	CS3	ATOM	18292	O	ARG	164	193.212	123.488	11.196	1.00	71.68	CS
ATOM	18240	CB ILE	157	188.643	122.358	17.032	1.00	45.69	CS3	ATOM	18293	N	THR	165	192.476	123.996	13.254	1.00	53.32	CS
ATOM	18241	CG1 ILE	157	187.244	122.797	17.296	1.00	45.69	CS3	ATOM	18294	CA	THR	165	192.784	125.425	13.129	1.00	53.32	CS
ATOM	18242	CG2 ILE	157	189.546	123.564	16.728	1.00	45.69	CS3	ATOM	18295	CB	THR	165	193.968	125.681	12.165	1.00	69.17	CS
ATOM	18243	CD1 ILE	157	189.052	124.469	15.591	1.00	45.69	CS3	ATOM	18296	OG1	THR	165	195.089	124.887	12.569	1.00	69.17	CS
ATOM	18244	C ILE	157	188.145	120.559	18.661	1.00	51.81	CS3	ATOM	18297	CG2	THR	165	194.353	127.154	12.162	1.00	69.17	CS
ATOM	18245	O ILE	157	188.095	119.466	18.098	1.00	51.81	CS3	ATOM	18298	C	THR	165	191.558	126.166	12.578	1.00	53.32	CS
ATOM	18246	N GLY	158	187.337	120.908	19.657	1.00	71.65	CS3	ATOM	18299	O	THR	165	191.268	126.080	11.385	1.00	47.82	CS
ATOM	18247	CA GLY	158	186.310	119.998	20.130	1.00	71.65	CS3	ATOM	18300	N	GLU	166	190.855	126.896	13.447	1.00	47.82	CS
ATOM	18248	C GLY	158	186.860	118.655	20.573	1.00	71.65	CS3	ATOM	18301	CA	GLU	166	189.656	127.632	13.057	1.00	47.82	CS
ATOM	18249	O GLY	158	186.149	117.653	20.554	1.00	71.65	CS3	ATOM	18302	CB	GLU	166	188.565	127.444	14.117	1.00	108.63	CS
ATOM	18250	N GLY	159	188.131	118.633	20.963	1.00	58.72	CS3	ATOM	18303	CG	GLU	166	187.143	127.393	13.571	1.00	108.63	CS

ATOM	18304	CD	GLU	166	186.855	126.120	12.784	1.00108.63	CS3	ATOM	18357	N	VAL	173	193.292	143.828	8.638	1.00	67.02
ATOM	18305	OE1	GLU	166	187.507	125.893	11.743	1.00108.63	CS3	ATOM	18358	CA	VAL	173	194.307	143.205	9.487	1.00	67.02
ATOM	18306	OE2	GLU	166	185.974	125.344	13.207	1.00108.63	CS3	ATOM	18359	CB	VAL	173	193.862	141.825	9.994	1.00	52.21
ATOM	18307	C	GLU	166	189.963	129.118	12.865	1.00 47.82	CS3	ATOM	18360	CG1	VAL	173	194.798	141.352	11.106	1.00	52.21
ATOM	18308	O	GLU	166	190.720	129.722	13.628	1.00 47.82	CS3	ATOM	18361	CG2	VAL	173	192.439	141.890	10.485	1.00	52.21
ATOM	18309	N	TRP	167	189.359	129.696	11.838	1.00 84.97	CS3	ATOM	18362	C	VAL	173	195.527	143.045	8.573	1.00	67.02
ATOM	18310	CA	TRP	167	189.557	131.092	11.474	1.00 84.97	CS3	ATOM	18363	O	VAL	173	195.959	141.930	8.275	1.00	67.02
ATOM	18311	CB	TRP	167	189.280	131.239	9.994	1.00 90.22	CS3	ATOM	18364	N	PRO	174	196.086	144.175	8.105	1.00	68.22
ATOM	18312	CG	TRP	167	190.429	131.674	9.220	1.00 90.22	CS3	ATOM	18365	CD	PRO	174	195.588	145.529	8.416	1.00	62.02
ATOM	18313	CD2	TRP	167	190.574	132.929	8.570	1.00 90.22	CS3	ATOM	18366	CA	PRO	174	197.246	144.256	7.212	1.00	62.02
ATOM	18314	CE2	TRP	167	191.815	132.918	7.919	1.00 90.22	CS3	ATOM	18367	CB	PRO	174	197.218	145.718	6.768	1.00	68.22
ATOM	18315	CE3	TRP	167	189.769	134.072	8.476	1.00 90.22	CS3	ATOM	18368	CG	PRO	174	196.740	146.410	7.991	1.00	62.02
ATOM	18316	CD1	TRP	167	191.550	130.963	8.956	1.00 90.22	CS3	ATOM	18369	C	PRO	174	198.613	143.859	7.771	1.00	68.22
ATOM	18317	NE1	TRP	167	192.394	131.699	8.171	1.00 90.22	CS3	ATOM	18370	O	PRO	174	199.480	144.721	7.957	1.00	68.22
ATOM	18318	CZ2	TRP	167	192.280	134.004	7.176	1.00 90.22	CS3	ATOM	18371	N	LEU	175	198.822	142.565	8.001	1.00	47.31
ATOM	18319	CZ3	TRP	167	190.223	135.148	7.743	1.00 90.22	CS3	ATOM	18372	CA	LEU	175	200.098	142.088	8.532	1.00	47.31
ATOM	18320	CH2	TRP	167	190.223	135.148	7.743	1.00 90.22	CS3	ATOM	18373	CB	LEU	175	200.081	140.563	8.650	1.00	40.12
ATOM	18321	C	TRP	167	191.469	135.109	7.101	1.00 90.22	CS3	ATOM	18374	CG	LEU	175	199.041	139.969	9.606	1.00	40.12
ATOM	18322	O	TRP	167	188.644	132.046	12.215	1.00 84.97	CS3	ATOM	18375	CD1	LEU	175	199.265	138.467	9.753	1.00	40.12
ATOM	18323	N	ALA	168	188.117	131.703	13.261	1.00 84.97	CS3	ATOM	18376	CD2	LEU	175	199.162	140.633	10.982	1.00	40.12
ATOM	18324	CA	ALA	168	188.475	133.242	11.640	1.00 44.29	CS3	ATOM	18377	C	LEU	175	201.320	142.523	7.711	1.00	47.31
ATOM	18325	CB	ALA	168	187.599	134.319	12.143	1.00 44.29	CS3	ATOM	18378	O	LEU	175	202.448	142.406	8.170	1.00	47.31
ATOM	18326	C	ALA	168	187.161	134.059	13.560	1.00 44.29	CS3	ATOM	18379	N	HIS	176	201.099	143.022	6.502	1.00	60.25
ATOM	18327	O	ALA	168	188.230	135.686	12.084	1.00 44.29	CS3	ATOM	18380	CA	HIS	176	202.209	143.459	5.662	1.00	60.25
ATOM	18328	N	ALA	169	189.214	135.938	12.779	1.00 44.29	CS3	ATOM	18381	CB	HIS	176	201.929	143.162	4.183	1.00	58.04
ATOM	18329	CA	ALA	169	187.645	136.585	11.298	1.00 52.92	CS3	ATOM	18382	CG	HIS	176	202.421	141.827	3.714	1.00	58.04
ATOM	18330	CB	ALA	169	188.203	137.919	11.178	1.00 52.92	CS3	ATOM	18383	CD2	HIS	176	203.320	141.500	2.758	1.00	58.04
ATOM	18331	C	ALA	169	189.375	137.874	10.261	1.00 65.94	CS3	ATOM	18384	ND1	HIS	176	201.924	140.634	4.194	1.00	58.04
ATOM	18332	O	ALA	169	186.254	138.631	9.995	1.00 52.92	CS3	ATOM	18385	CE1	HIS	176	202.488	139.630	3.549	1.00	58.04
ATOM	18333	N	GLN	170	187.477	140.226	11.036	1.00 34.96	CS3	ATOM	18386	NE2	HIS	176	203.339	140.128	2.670	1.00	58.04
ATOM	18334	CA	GLN	170	186.645	141.365	10.633	1.00 34.96	CS3	ATOM	18387	C	HIS	176	202.458	144.954	5.809	1.00	60.25
ATOM	18335	CB	GLN	170	185.638	141.721	11.725	1.00 96.33	CS3	ATOM	18388	O	HIS	176	203.585	145.381	6.056	1.00	60.25
ATOM	18336	CG	GLN	170	184.479	140.750	11.835	1.00 96.33	CS3	ATOM	18389	N	THR	177	201.400	145.741	5.629	1.00	75.92
ATOM	18337	CD	GLN	170	183.444	141.197	12.849	1.00 96.33	CS3	ATOM	18390	CA	THR	177	201.486	147.195	5.728	1.00	75.92
ATOM	18338	OE1	GLN	170	182.867	142.283	12.730	1.00 96.33	CS3	ATOM	18391	CB	THR	177	200.107	147.861	5.853	1.00	69.26
ATOM	18339	NE2	GLN	170	183.202	140.361	13.853	1.00 96.33	CS3	ATOM	18392	OG1	THR	177	199.466	147.884	4.573	1.00	69.26
ATOM	18340	C	GLN	170	187.523	142.575	10.335	1.00 34.96	CS3	ATOM	18393	CG2	THR	177	200.254	149.292	6.371	1.00	69.26
ATOM	18341	O	GLN	170	188.630	142.689	10.858	1.00 34.96	CS3	ATOM	18394	C	THR	177	202.254	147.586	6.954	1.00	75.92
ATOM	18342	N	GLY	171	187.029	143.464	9.478	1.00 57.60	CS3	ATOM	18395	O	THR	177	203.134	148.436	6.913	1.00	75.92
ATOM	18343	CA	GLY	171	187.785	144.647	9.113	1.00 57.60	CS3	ATOM	18396	N	LEU	178	201.909	146.948	8.056	1.00	65.23
ATOM	18344	C	GLY	171	189.171	144.337	8.576	1.00 57.60	CS3	ATOM	18397	CA	LEU	178	202.551	147.264	9.305	1.00	65.23
ATOM	18345	O	GLY	171	189.459	143.204	8.194	1.00 57.60	CS3	ATOM	18398	CB	LEU	178	202.551	147.264	9.305	1.00	65.23
ATOM	18346	N	ARG	172	190.030	145.352	8.544	1.00 59.82	CS3	ATOM	18399	CG	LEU	178	203.369	146.065	9.821	1.00	105.41
ATOM	18347	CA	ARG	172	191.400	145.214	8.063	1.00 59.82	CS3	ATOM	18400	CD1	LEU	178	202.593	144.759	10.079	1.00	105.41
ATOM	18348	CB	ARG	172	191.972	146.570	7.699	1.00 98.15	CS3	ATOM	18401	CD2	LEU	178	203.219	143.955	11.219	1.00	105.41
ATOM	18349	CD	ARG	172	191.383	147.226	6.498	1.00 98.15	CS3	ATOM	18402	C	LEU	178	201.170	145.088	10.436	1.00	105.41
ATOM	18350	CD	ARG	172	192.137	148.515	6.284	1.00 98.15	CS3	ATOM	18403	O	LEU	178	203.400	148.550	9.286	1.00	65.23
ATOM	18351	NE	ARG	172	192.040	149.007	4.917	1.00 98.15	CS3	ATOM	18404	N	ARG	179	204.639	148.521	9.278	1.00	65.23
ATOM	18352	CZ	ARG	172	192.817	149.967	4.420	1.00 98.15	CS3	ATOM	18405	CA	ARG	179	202.693	149.680	9.202	1.00	104.39
ATOM	18353	NH1	ARG	172	193.744	150.532	5.189	1.00 98.15	CS3	ATOM	18406	CB	ARG	179	203.327	150.979	9.339	1.00	104.39
ATOM	18354	NH2	ARG	172	192.676	150.355	3.155	1.00 98.15	CS3	ATOM	18407	CG	ARG	179	202.317	152.111	9.176	1.00	93.34
ATOM	18355	C	ARG	172	192.322	144.607	9.106	1.00 59.82	CS3	ATOM	18408	CD	ARG	179	201.660	152.112	7.825	1.00	93.34
ATOM	18356	O	ARG	172	192.163	144.844	10.302	1.00 59.82	CS3	ATOM	18409	NE	ARG	179	200.918	153.390	7.538	1.00	93.34
															200.637	153.501	6.111	1.00	93.34

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ATOM	18410	CZ	ARG	179	199.942	154.487	5.556	1.00	93.34	CS3	ATOM	18463	CG	PHE	186	200.352	132.159	21.860	1.00	44.80	CS
ATOM	18411	NH1	ARG	179	199.443	155.461	6.308	1.00	93.34	CS3	ATOM	18464	CD1	PHE	186	199.574	131.351	21.037	1.00	44.80	CS
ATOM	18412	NH2	ARG	179	199.747	154.503	4.243	1.00	93.34	CS3	ATOM	18465	CD2	PHE	186	201.229	131.554	22.748	1.00	44.80	CS
ATOM	18413	C	ARG	179	203.464	150.621	10.789	1.00	104.39	CS3	ATOM	18466	CB1	PHE	186	199.674	129.951	21.101	1.00	44.80	CS
ATOM	18414	O	ARG	179	204.366	151.042	11.506	1.00	104.39	CS3	ATOM	18467	CB2	PHE	186	201.337	130.157	22.822	1.00	44.80	CS
ATOM	18415	N	ALA	180	202.503	149.777	11.157	1.00	197.34	CS3	ATOM	18468	CZ	PHE	186	200.560	129.357	21.998	1.00	44.80	CS
ATOM	18416	CA	ALA	180	202.356	149.144	12.440	1.00	197.34	CS3	ATOM	18469	C	PHE	186	198.422	133.555	23.478	1.00	58.47	CS
ATOM	18417	CB	ALA	180	203.734	148.827	13.008	1.00	102.05	CS3	ATOM	18470	O	PHE	186	198.838	133.984	24.553	1.00	58.47	CS
ATOM	18418	C	ALA	180	201.459	149.765	13.499	1.00	197.34	CS3	ATOM	18471	N	ALA	187	197.594	132.523	23.372	1.00	61.47	CS
ATOM	18419	O	ALA	180	201.383	150.983	13.677	1.00	197.34	CS3	ATOM	18472	CA	ALA	187	197.098	131.815	24.539	1.00	61.47	CS
ATOM	18420	N	ASN	181	200.759	148.853	14.165	1.00	90.77	CS3	ATOM	18473	CB	ALA	187	195.622	132.104	24.718	1.00	94.98	CS
ATOM	18421	CA	ASN	181	199.834	149.066	15.267	1.00	90.77	CS3	ATOM	18474	C	ALA	187	197.340	130.324	24.330	1.00	61.47	CS
ATOM	18422	CB	ASN	181	199.252	150.472	15.326	1.00	64.63	CS3	ATOM	18475	O	ALA	187	197.153	129.809	23.227	1.00	61.47	CS
ATOM	18423	CG	ASN	181	199.081	150.935	16.752	1.00	64.63	CS3	ATOM	18476	N	LEU	188	197.710	129.632	25.399	1.00	56.83	CS
ATOM	18424	OD1	ASN	181	199.290	150.151	17.683	1.00	64.63	CS3	ATOM	18477	CA	LEU	188	198.055	128.219	25.331	1.00	56.83	CS
ATOM	18425	ND2	ASN	181	198.709	152.200	16.940	1.00	64.63	CS3	ATOM	18478	CB	LEU	188	199.405	128.050	26.018	1.00	40.30	CS
ATOM	18426	C	ASN	181	198.733	148.048	15.133	1.00	90.77	CS3	ATOM	18479	CG	LEU	188	200.384	126.950	25.647	1.00	40.30	CS
ATOM	18427	O	ASN	181	197.577	148.354	14.860	1.00	90.77	CS3	ATOM	18480	CD1	LEU	188	200.417	126.885	26.282	1.00	40.30	CS
ATOM	18428	N	ILE	182	199.158	146.811	15.315	1.00	63.18	CS3	ATOM	18481	CD2	LEU	188	197.070	127.224	25.933	1.00	40.30	CS
ATOM	18429	CA	ILE	182	198.324	145.636	15.255	1.00	63.18	CS3	ATOM	18482	C	LEU	188	197.482	126.342	26.685	1.00	56.83	CS
ATOM	18430	CB	ILE	182	198.626	144.812	13.971	1.00	44.98	CS3	ATOM	18483	O	LEU	188	195.784	127.340	25.606	1.00	49.61	CS
ATOM	18431	CG1	ILE	182	198.016	143.427	14.080	1.00	44.98	CS3	ATOM	18484	N	ALA	189	194.750	126.428	26.137	1.00	49.61	CS
ATOM	18432	CG2	ILE	182	198.123	145.570	12.738	1.00	44.98	CS3	ATOM	18485	CB	ALA	189	193.569	126.399	25.186	1.00	34.60	CS
ATOM	18433	CD1	ILE	182	198.088	144.745	11.445	1.00	44.98	CS3	ATOM	18486	CB	ALA	189	195.200	124.994	26.400	1.00	49.61	CS
ATOM	18434	C	ILE	182	198.746	144.846	16.492	1.00	63.18	CS3	ATOM	18487	C	ALA	189	195.416	124.256	25.455	1.00	49.61	CS
ATOM	18435	O	ILE	182	199.734	144.119	16.462	1.00	63.18	CS3	ATOM	18488	O	ALA	189	195.350	124.602	27.666	1.00	67.24	CS
ATOM	18436	N	ASP	183	198.022	145.005	17.591	1.00	50.02	CS3	ATOM	18489	N	ARG	190	195.736	123.219	28.004	1.00	67.24	CS
ATOM	18437	CA	ASP	183	198.387	144.287	18.797	1.00	50.02	CS3	ATOM	18490	CB	ARG	190	196.569	123.161	29.283	1.00	109.87	CS
ATOM	18438	CB	ASP	183	197.497	144.711	19.966	1.00	82.48	CS3	ATOM	18491	CG	ARG	190	197.894	123.873	29.188	1.00	109.87	CS
ATOM	18439	CG	ASP	183	198.026	144.228	21.306	1.00	82.48	CS3	ATOM	18492	CG	ARG	190	198.808	123.464	30.325	1.00	109.87	CS
ATOM	18440	OD1	ASP	183	197.326	144.422	22.321	1.00	82.48	CS3	ATOM	18493	CD	ARG	190	200.110	124.115	30.226	1.00	109.87	CS
ATOM	18441	OD2	ASP	183	199.138	143.660	21.342	1.00	82.48	CS3	ATOM	18494	NE	ARG	190	201.188	123.735	30.905	1.00	109.87	CS
ATOM	18442	C	ASP	183	198.282	142.781	18.567	1.00	50.02	CS3	ATOM	18495	CZ	ARG	190	201.116	122.702	31.735	1.00	109.87	CS
ATOM	18443	O	ASP	183	197.347	142.295	17.931	1.00	50.02	CS3	ATOM	18496	NH1	ARG	190	202.339	124.382	30.752	1.00	109.87	CS
ATOM	18444	N	TYR	184	199.257	142.050	19.089	1.00	55.34	CS3	ATOM	18497	NH2	ARG	190	194.417	122.498	28.228	1.00	67.24	CS
ATOM	18445	CA	TYR	184	199.300	140.607	18.947	1.00	55.34	CS3	ATOM	18498	C	ARG	190	193.589	122.972	29.006	1.00	67.24	CS
ATOM	18446	CB	TYR	184	200.604	140.206	18.263	1.00	53.04	CS3	ATOM	18499	O	ARG	190	194.208	121.349	27.589	1.00	59.48	CS
ATOM	18447	CG	TYR	184	200.766	138.713	18.105	1.00	53.04	CS3	ATOM	18500	N	THR	191	192.906	120.723	27.724	1.00	59.48	CS
ATOM	18448	CD1	TYR	184	199.987	138.003	17.188	1.00	53.04	CS3	ATOM	18501	CA	THR	191	191.934	121.348	26.723	1.00	66.58	CS
ATOM	18449	CE1	TYR	184	200.114	136.634	17.054	1.00	53.04	CS3	ATOM	18502	CB	THR	191	192.355	120.983	25.407	1.00	66.58	CS
ATOM	18450	CD2	TYR	184	201.678	138.007	18.885	1.00	53.04	CS3	ATOM	18503	OG1	THR	191	191.924	122.877	26.815	1.00	66.58	CS
ATOM	18451	CE2	TYR	184	201.817	136.636	18.761	1.00	53.04	CS3	ATOM	18504	CG2	THR	191	192.714	119.225	27.551	1.00	59.48	CS
ATOM	18452	CH	TYR	184	201.033	135.952	17.843	1.00	53.04	CS3	ATOM	18505	C	THR	191	192.412	118.787	26.446	1.00	59.48	CS
ATOM	18453	O	TYR	184	201.171	134.584	17.698	1.00	53.04	CS3	ATOM	18506	O	THR	191	192.841	118.456	28.629	1.00	57.13	CS
ATOM	18454	C	TYR	184	199.206	139.913	20.307	1.00	55.34	CS3	ATOM	18507	N	THR	192	192.598	116.999	28.627	1.00	57.13	CS
ATOM	18455	O	TYR	184	199.542	140.495	21.334	1.00	55.34	CS3	ATOM	18508	CA	THR	192	191.100	116.681	28.764	1.00	74.93	CS
ATOM	18456	N	GLY	185	198.760	138.663	20.311	1.00	48.29	CS3	ATOM	18509	CB	THR	192	190.438	117.738	29.459	1.00	74.93	CS
ATOM	18457	CA	GLY	185	198.652	137.926	21.555	1.00	48.29	CS3	ATOM	18510	OG1	THR	192	190.908	115.373	29.515	1.00	74.93	CS
ATOM	18458	C	GLY	185	198.597	136.430	21.309	1.00	48.29	CS3	ATOM	18511	CG2	THR	192	193.044	116.172	27.429	1.00	57.13	CS
ATOM	18459	O	GLY	185	198.290	135.994	20.204	1.00	48.29	CS3	ATOM	18512	C	THR	192	193.491	115.042	27.584	1.00	57.13	CS
ATOM	18460	N	PHE	186	198.890	135.637	22.331	1.00	58.47	CS3	ATOM	18513	O	THR	192	192.866	116.714	26.234	1.00	83.66	CS
ATOM	18461	CA	PHE	186	198.858	134.194	22.181	1.00	58.47	CS3	ATOM	18514	N	TYR	193	193.223	116.032	25.006	1.00	83.66	CS
ATOM	18462	CB	PHE	186	200.242	133.660	21.794	1.00	44.80	CS3	ATOM	18515	CA	TYR	193						

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ATOM	18516	CB	TYR	193	191.968	115.899	24.155	1.00	84.86	CS3	ATOM	18569	CG1	ILE	200	193.135	136.699	20.306	1.00	171.44	C
ATOM	18517	CG	TYR	193	191.249	117.215	23.953	1.00	84.86	CS3	ATOM	18570	CD1	ILE	200	193.561	135.251	20.438	1.00	171.44	C
ATOM	18518	CD1	TYR	193	191.734	118.170	23.058	1.00	84.86	CS3	ATOM	18571	C	ILE	200	195.408	138.336	17.765	1.00	54.44	C
ATOM	18519	CE1	TYR	193	191.077	119.384	22.870	1.00	84.86	CS3	ATOM	18572	O	ILE	200	196.508	138.716	18.131	1.00	54.44	C
ATOM	18520	CD2	TYR	193	190.086	117.509	24.662	1.00	84.86	CS3	ATOM	18573	N	PHE	201	194.733	138.921	16.791	1.00	48.25	C
ATOM	18521	CE2	TYR	193	189.420	118.721	24.483	1.00	84.86	CS3	ATOM	18574	CA	PHE	201	195.282	140.057	16.076	1.00	48.25	C
ATOM	18522	CZ	TYR	193	189.921	119.652	23.582	1.00	84.86	CS3	ATOM	18575	CB	PHE	201	195.445	139.737	14.578	1.00	51.74	C
ATOM	18523	OH	TYR	193	189.259	120.840	23.373	1.00	84.86	CS3	ATOM	18576	CG	PHE	201	196.473	138.675	14.272	1.00	51.74	C
ATOM	18524	C	TYR	193	194.309	116.784	24.232	1.00	83.66	CS3	ATOM	18577	CD1	PHE	201	196.326	137.375	14.749	1.00	51.74	C
ATOM	18525	O	TYR	193	194.262	116.860	23.004	1.00	83.66	CS3	ATOM	18578	CE1	PHE	201	197.586	138.978	13.494	1.00	51.74	C
ATOM	18526	N	GLY	194	195.281	117.344	24.946	1.00	72.27	CS3	ATOM	18579	CD2	PHE	201	197.271	136.395	14.457	1.00	51.74	C
ATOM	18527	CA	GLY	194	196.343	118.072	24.278	1.00	72.27	CS3	ATOM	18580	CE2	PHE	201	198.539	138.005	13.197	1.00	51.74	C
ATOM	18528	C	GLY	194	196.151	119.577	24.231	1.00	72.27	CS3	ATOM	18581	CZ	PHE	201	198.383	136.708	13.678	1.00	51.74	C
ATOM	18529	O	GLY	194	195.072	120.088	24.532	1.00	72.27	CS3	ATOM	18582	C	PHE	201	194.301	141.209	16.218	1.00	48.25	C
ATOM	18530	N	VAL	195	197.206	120.286	23.837	1.00	57.48	CS3	ATOM	18583	O	PHE	201	193.133	141.093	15.820	1.00	48.25	C
ATOM	18531	CA	VAL	195	197.168	121.737	23.769	1.00	57.48	CS3	ATOM	18584	N	ILE	202	194.750	142.323	16.779	1.00	56.66	C
ATOM	18532	CB	VAL	195	198.578	122.318	23.717	1.00	54.98	CS3	ATOM	18585	CA	ILE	202	193.856	143.457	16.915	1.00	56.66	C
ATOM	18533	CG1	VAL	195	198.548	123.781	24.152	1.00	54.98	CS3	ATOM	18586	CB	ILE	202	193.605	143.795	18.388	1.00	70.03	C
ATOM	18534	CG2	VAL	195	199.510	121.490	24.573	1.00	54.98	CS3	ATOM	18587	CG2	ILE	202	192.820	145.094	18.500	1.00	70.03	C
ATOM	18535	C	VAL	195	196.411	122.274	22.561	1.00	57.48	CS3	ATOM	18588	CG1	ILE	202	192.822	142.649	19.031	1.00	70.03	C
ATOM	18536	O	VAL	195	196.074	121.536	21.644	1.00	57.48	CS3	ATOM	18589	CD1	ILE	202	192.537	142.828	20.492	1.00	70.03	C
ATOM	18537	N	LEU	196	196.170	123.579	22.588	1.00	39.32	CS3	ATOM	18590	C	ILE	202	194.441	144.641	16.188	1.00	56.66	C
ATOM	18538	CA	LEU	196	195.467	124.334	21.561	1.00	39.32	CS3	ATOM	18591	O	ILE	202	195.556	145.061	16.461	1.00	56.66	C
ATOM	18539	CB	LEU	196	193.981	124.437	21.882	1.00	42.37	CS3	ATOM	18592	N	PHE	203	193.682	145.185	15.253	1.00	64.30	C
ATOM	18540	CG	LEU	196	192.869	123.412	21.659	1.00	42.37	CS3	ATOM	18593	CA	PHE	203	194.175	146.297	14.476	1.00	64.30	C
ATOM	18541	CD1	LEU	196	192.362	123.545	20.225	1.00	42.37	CS3	ATOM	18594	CB	PHE	203	193.845	146.071	13.004	1.00	40.19	C
ATOM	18542	CD2	LEU	196	193.325	122.012	22.017	1.00	42.37	CS3	ATOM	18595	CG1	PHE	203	194.276	147.188	12.113	1.00	40.19	C
ATOM	18543	C	LEU	196	196.046	125.747	21.660	1.00	39.32	CS3	ATOM	18596	CD1	PHE	203	195.481	147.855	12.344	1.00	40.19	C
ATOM	18544	O	LEU	196	195.960	126.379	22.720	1.00	39.32	CS3	ATOM	18597	CD2	PHE	203	193.486	147.576	11.036	1.00	40.19	C
ATOM	18545	N	GLY	197	196.637	126.241	20.579	1.00	55.85	CS3	ATOM	18598	CE1	PHE	203	195.892	148.899	11.512	1.00	40.19	C
ATOM	18546	CA	GLY	197	197.199	127.576	20.602	1.00	55.85	CS3	ATOM	18599	CE2	PHE	203	193.886	148.617	10.198	1.00	40.19	C
ATOM	18547	C	GLY	197	196.129	128.572	20.222	1.00	55.85	CS3	ATOM	18600	CZ	PHE	203	195.092	149.283	10.434	1.00	40.19	C
ATOM	18548	O	GLY	197	195.227	128.245	19.459	1.00	55.85	CS3	ATOM	18601	C	PHE	203	193.657	147.647	14.930	1.00	64.30	C
ATOM	18549	N	VAL	198	196.198	129.783	20.754	1.00	63.84	CS3	ATOM	18602	O	PHE	203	192.574	148.082	14.520	1.00	64.30	C
ATOM	18550	CA	VAL	198	195.198	130.769	20.406	1.00	63.84	CS3	ATOM	18603	N	LEU	204	194.457	148.303	15.773	1.00	71.79	C
ATOM	18551	CB	VAL	198	194.244	131.016	21.573	1.00	63.84	CS3	ATOM	18604	CA	LEU	204	194.164	149.633	16.323	1.00	71.79	C
ATOM	18552	CG1	VAL	198	193.189	132.022	21.175	1.00	54.07	CS3	ATOM	18605	CB	LEU	204	194.983	149.860	17.591	1.00	62.66	C
ATOM	18553	CG2	VAL	198	193.571	129.724	21.962	1.00	54.07	CS3	ATOM	18606	CG	LEU	204	195.138	148.618	18.469	1.00	62.66	C
ATOM	18554	C	VAL	198	195.897	132.058	20.024	1.00	63.84	CS3	ATOM	18607	CD1	LEU	204	196.164	148.862	19.554	1.00	62.66	C
ATOM	18555	O	VAL	198	196.625	132.635	20.835	1.00	63.84	CS3	ATOM	18608	CD2	LEU	204	193.783	148.252	19.071	1.00	62.66	C
ATOM	18556	N	LYS	199	195.685	132.503	18.787	1.00	56.36	CS3	ATOM	18609	C	LEU	204	194.611	150.644	15.283	1.00	71.79	C
ATOM	18557	CA	LYS	199	196.324	133.715	18.307	1.00	56.36	CS3	ATOM	18610	O	LEU	204	195.794	150.722	14.994	1.00	71.79	C
ATOM	18558	CB	LYS	199	197.091	133.433	17.015	1.00	82.35	CS3	ATOM	18611	N	GLY	205	193.679	151.400	14.716	1.00	79.01	C
ATOM	18559	CG	LYS	199	198.315	132.558	17.203	1.00	82.35	CS3	ATOM	18612	CA	GLY	205	194.034	152.392	13.712	1.00	79.01	C
ATOM	18560	CD	LYS	199	199.015	132.338	15.883	1.00	82.35	CS3	ATOM	18613	C	GLY	205	195.370	152.254	12.984	1.00	79.01	C
ATOM	18561	CE	LYS	199	200.122	131.317	16.024	1.00	82.35	CS3	ATOM	18614	O	GLY	205	195.413	151.896	11.809	1.00	79.01	C
ATOM	18562	NZ	LYS	199	200.793	131.053	14.723	1.00	82.35	CS3	ATOM	18615	N	GLU	206	196.453	152.562	13.693	1.00	141.89	C
ATOM	18563	C	LYS	199	195.316	134.817	18.072	1.00	56.36	CS3	ATOM	18616	CA	GLU	206	197.830	152.511	13.198	1.00	141.89	C
ATOM	18564	O	LYS	199	194.276	134.583	17.457	1.00	56.36	CS3	ATOM	18617	CB	GLU	206	197.985	151.598	11.973	1.00	73.82	C
ATOM	18565	N	ILE	200	195.629	136.020	18.559	1.00	54.44	CS3	ATOM	18618	CG	GLU	206	198.713	150.276	12.264	1.00	73.82	C
ATOM	18566	CA	ILE	200	194.735	137.166	18.430	1.00	54.44	CS3	ATOM	18619	CD	GLU	206	199.610	149.788	11.111	1.00	73.82	C
ATOM	18567	CB	ILE	200	194.231	137.636	19.804	1.00	171.44	CS3	ATOM	18620	OE1	GLU	206	199.683	148.564	10.911	1.00	73.82	C
ATOM	18568	CG2	ILE	200	193.693	139.057	19.705	1.00	171.44	CS3	ATOM	18621	OE2	GLU	206	200.251	150.624	10.435	1.00	73.82	C

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ATOM	18622	C	GLU	206	198.368	153.895	12.858	1.00141.89	CS3	ATOM	18675	OS' GUA	7	144.083	108.750	2.784	1.00 49.87	A
ATOM	18623	O	GLU	206	198.403	154.783	13.711	1.00141.89	CS3	ATOM	18676	C5' GUA	7	145.232	107.984	2.471	1.00 49.87	A
ATOM	18624	N	VAL	207	198.780	154.075	11.607	1.00 90.60	CS3	ATOM	18677	C4' GUA	7	146.125	108.755	1.544	1.00 49.87	A
ATOM	18625	CA	VAL	207	199.355	155.340	11.146	1.00 90.60	CS3	ATOM	18678	O4' GUA	7	145.412	108.993	0.324	1.00 49.87	A
ATOM	18626	CB	VAL	207	198.444	156.545	11.470	1.00 95.78	CS3	ATOM	18679	C1' GUA	7	145.990	110.095	-0.307	1.00 49.87	A
ATOM	18627	CG1	VAL	207	198.984	157.799	10.770	1.00 95.78	CS3	ATOM	18680	N9 GUA	7	145.027	110.698	-1.212	1.00 55.30	A
ATOM	18628	CG2	VAL	207	197.002	156.247	11.053	1.00 95.78	CS3	ATOM	18681	C4 GUA	7	145.245	110.900	-2.547	1.00 55.30	A
ATOM	18629	C	VAL	207	200.722	155.607	11.785	1.00 90.60	CS3	ATOM	18682	N3 GUA	7	146.379	110.588	-3.216	1.00 55.30	A
ATOM	18630	O	VAL	207	201.030	154.988	12.832	1.00 90.60	CS3	ATOM	18683	C2 GUA	7	146.292	110.892	-4.493	1.00 55.30	A
ATOM	18631	OXT	VAL	207	201.462	156.453	11.234	1.00124.85	CS3	ATOM	18684	N2 GUA	7	147.327	110.650	-5.307	1.00 55.30	A
ATOM	18632	OS' URI	5	133.811	110.964	1.588	1.00 67.30	Al6S	ATOM	18685	N1 GUA	7	145.185	111.458	-5.070	1.00 55.30	A	
ATOM	18633	C5' URI	5	133.840	110.069	2.709	1.00 67.30	Al6S	ATOM	18686	C6 GUA	7	144.011	111.792	-4.400	1.00 55.30	A	
ATOM	18634	C4' URI	5	135.051	110.270	3.603	1.00 67.30	Al6S	ATOM	18687	O6 GUA	7	143.073	112.311	-5.020	1.00 55.30	A	
ATOM	18635	O4' URI	5	135.080	111.639	4.064	1.00 67.30	Al6S	ATOM	18688	C5 GUA	7	144.088	111.468	-3.025	1.00 55.30	A	
ATOM	18636	C1' URI	5	135.711	111.691	5.326	1.00 67.30	Al6S	ATOM	18689	N7 GUA	7	143.162	111.630	-2.005	1.00 55.30	A	
ATOM	18637	N1 URI	5	135.022	112.670	6.184	1.00 81.68	Al6S	ATOM	18690	C8 GUA	7	143.764	111.157	-0.946	1.00 55.30	A	
ATOM	18638	C6 URI	5	134.272	113.685	5.621	1.00 81.68	Al6S	ATOM	18691	C2' GUA	7	146.650	110.979	0.750	1.00 49.87	A	
ATOM	18639	C2 URI	5	135.180	112.585	7.556	1.00 81.68	Al6S	ATOM	18692	O2' GUA	7	147.983	111.258	0.410	1.00 49.87	A	
ATOM	18640	O2 URI	5	135.764	111.668	8.103	1.00 81.68	Al6S	ATOM	18693	C3' GUA	7	146.502	110.146	2.018	1.00 49.87	A	
ATOM	18641	N3 URI	5	134.607	113.614	8.265	1.00 81.68	Al6S	ATOM	18694	O3' GUA	7	147.671	110.133	2.851	1.00 49.87	A	
ATOM	18642	C4 URI	5	133.881	114.679	7.757	1.00 81.68	Al6S	ATOM	18695	P ADE	8	149.024	109.381	2.380	1.00 41.85	A	
ATOM	18643	O4 URI	5	133.480	115.561	8.518	1.00 81.68	Al6S	ATOM	18696	O1P ADE	8	149.040	109.239	0.913	1.00 50.79	A	
ATOM	18644	C5 URI	5	133.712	114.662	6.341	1.00 81.68	Al6S	ATOM	18697	O2P ADE	8	149.146	108.166	3.218	1.00 50.79	A	
ATOM	18645	C2' URI	5	135.971	110.271	5.827	1.00 67.30	Al6S	ATOM	18698	O5' ADE	8	150.192	110.358	2.851	1.00 41.85	A	
ATOM	18646	O2' URI	5	137.357	110.072	5.693	1.00 67.30	Al6S	ATOM	18699	C5' ADE	8	150.729	111.377	2.006	1.00 41.85	A	
ATOM	18647	C3' URI	5	135.124	109.423	4.875	1.00 67.30	Al6S	ATOM	18700	C4' ADE	8	152.096	111.766	2.520	1.00 41.85	A	
ATOM	18648	O3' URI	5	135.648	108.122	4.525	1.00 67.30	Al6S	ATOM	18701	O4' ADE	8	151.924	112.284	3.857	1.00 41.85	A	
ATOM	18649	P GUA	6	136.886	107.453	5.336	1.00 54.45	Al6S	ATOM	18702	C1' ADE	8	153.025	111.893	4.636	1.00 41.85	A	
ATOM	18650	O1P GUA	6	136.772	106.017	4.982	1.00 57.28	Al6S	ATOM	18703	N9 ADE	8	152.620	111.623	6.009	1.00 50.79	A	
ATOM	18651	O2P GUA	6	136.965	107.838	6.769	1.00 57.28	Al6S	ATOM	18704	C4 ADE	8	153.491	111.607	7.066	1.00 50.79	A	
ATOM	18652	O5' GUA	6	138.189	108.037	4.621	1.00 54.45	Al6S	ATOM	18705	N3 ADE	8	154.814	111.797	7.022	1.00 50.79	A	
ATOM	18653	C5' GUA	6	138.700	107.430	3.430	1.00 54.45	Al6S	ATOM	18706	C2 ADE	8	155.336	111.730	8.244	1.00 50.79	A	
ATOM	18654	C4' GUA	6	139.687	108.341	2.717	1.00 54.45	Al6S	ATOM	18707	N1 ADE	8	154.731	111.516	9.413	1.00 50.79	A	
ATOM	18655	O4' GUA	6	139.008	109.430	2.050	1.00 54.45	Al6S	ATOM	18708	C6 ADE	8	153.397	111.336	9.417	1.00 50.79	A	
ATOM	18656	C1' GUA	6	139.916	110.500	1.886	1.00 54.45	Al6S	ATOM	18709	N6 ADE	8	152.789	111.139	10.584	1.00 50.79	A	
ATOM	18657	N9 GUA	6	139.261	111.740	2.290	1.00 57.28	Al6S	ATOM	18710	C5 ADE	8	152.728	111.374	8.183	1.00 50.79	A	
ATOM	18658	C4 GUA	6	139.235	112.308	3.538	1.00 57.28	Al6S	ATOM	18711	N7 ADE	8	151.396	111.222	7.839	1.00 50.79	A	
ATOM	18659	N3 GUA	6	139.824	111.819	4.640	1.00 57.28	Al6S	ATOM	18712	C8 ADE	8	151.388	111.371	6.535	1.00 50.79	A	
ATOM	18660	C2 GUA	6	139.591	112.574	5.691	1.00 57.28	Al6S	ATOM	18713	C2' ADE	8	153.781	110.760	3.948	1.00 41.85	A	
ATOM	18661	N2 GUA	6	140.073	112.219	6.875	1.00 57.28	Al6S	ATOM	18714	O2' ADE	8	155.099	111.178	3.704	1.00 41.85	A	
ATOM	18662	N1 GUA	6	138.860	113.729	5.659	1.00 57.28	Al6S	ATOM	18715	C3' ADE	8	153.016	110.549	2.648	1.00 41.85	A	
ATOM	18663	C6 GUA	6	138.254	114.257	4.527	1.00 57.28	Al6S	ATOM	18716	O3' ADE	8	154.075	110.425	1.668	1.00 41.85	A	
ATOM	18664	O6 GUA	6	137.622	115.320	4.597	1.00 57.28	Al6S	ATOM	18717	P GUA	9	154.168	111.393	0.367	1.00 31.48	A	
ATOM	18665	C5 GUA	6	138.476	113.450	3.403	1.00 57.28	Al6S	ATOM	18718	O1P GUA	9	153.687	112.775	0.590	1.00 39.27	A	
ATOM	18666	N7 GUA	6	138.044	113.604	2.099	1.00 57.28	Al6S	ATOM	18719	O2P GUA	9	153.621	110.616	-0.767	1.00 39.27	A	
ATOM	18667	C8 GUA	6	138.535	112.570	1.475	1.00 57.28	Al6S	ATOM	18720	O5' GUA	9	155.735	111.530	0.120	1.00 31.48	A	
ATOM	18668	C2' GUA	6	141.229	110.130	2.585	1.00 54.45	Al6S	ATOM	18721	C5' GUA	9	156.513	112.403	0.904	1.00 31.48	A	
ATOM	18669	O2' GUA	6	142.121	109.650	1.600	1.00 54.45	Al6S	ATOM	18722	C4' GUA	9	157.238	111.629	1.973	1.00 31.48	A	
ATOM	18670	C3' GUA	6	140.793	109.007	3.520	1.00 54.45	Al6S	ATOM	18723	O4' GUA	9	156.586	110.351	2.165	1.00 31.48	A	
ATOM	18671	O3' GUA	6	141.837	108.054	3.703	1.00 54.45	Al6S	ATOM	18724	C1' GUA	9	157.501	109.437	2.753	1.00 31.48	A	
ATOM	18672	P GUA	7	143.313	108.524	4.157	1.00 49.87	Al6S	ATOM	18725	N9 GUA	9	157.552	108.227	1.944	1.00 39.27	A	
ATOM	18673	O1P GUA	7	143.263	109.825	4.869	1.00 55.30	Al6S	ATOM	18726	C4 GUA	9	158.325	107.135	2.200	1.00 39.27	A	
ATOM	18674	O2P GUA	7	143.926	107.354	4.831	1.00 55.30	Al6S	ATOM	18727	N3 GUA	9	159.124	106.977	3.264	1.00 39.27	A	

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ATOM 18728	C2	GUA	9	159.769	105.824	3.222	1.00	39.27	Al6S	ATOM 18781	C2' GUA	11	169.486	106.113	2.413	1.00	43.41	
ATOM 18729	N2	GUA	9	160.594	105.485	4.220	1.00	39.27	Al6S	ATOM 18782	O2' GUA	11	170.379	105.567	3.356	1.00	43.41	
ATOM 18730	N1	GUA	9	159.648	104.916	2.206	1.00	39.27	Al6S	ATOM 18783	C3' GUA	11	169.392	107.608	2.619	1.00	43.41	
ATOM 18731	C6	GUA	9	158.830	105.072	1.101	1.00	39.27	Al6S	ATOM 18784	O3' GUA	11	170.675	108.153	2.866	1.00	43.41	
ATOM 18732	O6	GUA	9	158.804	104.205	0.238	1.00	39.27	Al6S	ATOM 18785	P	URI	12	171.484	108.804	1.651	1.00	41.44
ATOM 18733	C5	GUA	9	158.119	106.283	1.146	1.00	39.27	Al6S	ATOM 18786	O1P URI	12	172.776	109.305	2.181	1.00	44.93	
ATOM 18734	N7	GUA	9	157.196	106.810	0.261	1.00	39.27	Al6S	ATOM 18787	O2P URI	12	170.572	109.734	0.931	1.00	44.93	
ATOM 18735	C8	GUA	9	156.880	107.964	0.778	1.00	39.27	Al6S	ATOM 18788	O5' URI	12	171.754	107.552	0.708	1.00	41.44	
ATOM 18736	C2'	GUA	9	158.855	110.134	2.767	1.00	31.48	Al6S	ATOM 18789	C5' URI	12	172.675	106.541	1.086	1.00	41.44	
ATOM 18737	O2'	GUA	9	159.053	110.727	4.024	1.00	31.48	Al6S	ATOM 18790	C4' URI	12	172.737	105.471	0.027	1.00	41.44	
ATOM 18738	C3'	GUA	9	158.653	111.182	1.686	1.00	31.48	Al6S	ATOM 18791	O4' URI	12	171.452	104.797	-0.051	1.00	41.44	
ATOM 18739	O3'	GUA	9	159.582	112.234	1.848	1.00	31.48	Al6S	ATOM 18792	C1' URI	12	171.207	104.392	-1.381	1.00	41.44	
ATOM 18740	P	ADE	10	160.994	112.128	1.119	1.00	38.24	Al6S	ATOM 18793	N1 URI	12	170.020	105.107	-1.857	1.00	44.93	
ATOM 18741	O1P ADE	ADE	10	161.638	113.467	1.157	1.00	37.91	Al6S	ATOM 18794	C6 URI	12	169.715	106.354	-1.393	1.00	44.93	
ATOM 18742	O2P ADE	ADE	10	160.790	111.451	-0.185	1.00	37.91	Al6S	ATOM 18795	C2 URI	12	169.247	104.499	-2.806	1.00	44.93	
ATOM 18743	O5' ADE	ADE	10	161.781	111.128	2.065	1.00	38.24	Al6S	ATOM 18796	O2 URI	12	169.462	103.380	-3.210	1.00	44.93	
ATOM 18744	C5' ADE	ADE	10	162.055	111.472	3.407	1.00	38.24	Al6S	ATOM 18797	N3 URI	12	168.205	105.248	-3.267	1.00	44.93	
ATOM 18745	C4' ADE	ADE	10	162.924	110.412	4.033	1.00	38.24	Al6S	ATOM 18798	C4 URI	12	167.859	106.517	-2.874	1.00	44.93	
ATOM 18746	O4' ADE	ADE	10	162.166	109.175	4.127	1.00	38.24	Al6S	ATOM 18799	O4 URI	12	166.915	107.090	-3.430	1.00	44.93	
ATOM 18747	C1' ADE	ADE	10	163.006	108.078	3.823	1.00	38.24	Al6S	ATOM 18800	C5 URI	12	168.690	107.064	-1.858	1.00	44.93	
ATOM 18748	N9	ADE	10	162.561	107.518	2.554	1.00	37.91	Al6S	ATOM 18801	C2' URI	12	172.448	104.780	-2.190	1.00	41.44	
ATOM 18749	C4	ADE	10	162.868	106.274	2.074	1.00	37.91	Al6S	ATOM 18802	O2' URI	12	173.359	103.705	-2.176	1.00	41.44	
ATOM 18750	N3	ADE	10	163.626	105.342	2.670	1.00	37.91	Al6S	ATOM 18803	C3' URI	12	172.971	105.960	-1.387	1.00	41.44	
ATOM 18751	C2	ADE	10	163.706	104.253	1.915	1.00	37.91	Al6S	ATOM 18804	O3' URI	12	174.355	106.157	-1.608	1.00	41.44	
ATOM 18752	N1	ADE	10	163.150	104.005	0.721	1.00	37.91	Al6S	ATOM 18805	P	URI	13	174.853	107.409	-2.467	1.00	49.73
ATOM 18753	C6	ADE	10	162.388	104.962	0.154	1.00	37.91	Al6S	ATOM 18806	O1P URI	13	176.280	107.607	-2.167	1.00	47.52	
ATOM 18754	N6	ADE	10	161.826	104.704	-1.025	1.00	37.91	Al6S	ATOM 18807	O2P URI	13	173.901	108.502	-2.200	1.00	47.52	
ATOM 18755	C5	ADE	10	162.233	106.174	0.856	1.00	37.91	Al6S	ATOM 18808	O5' URI	13	174.695	106.958	-3.992	1.00	49.73	
ATOM 18756	N7	ADE	10	161.541	107.341	0.569	1.00	37.91	Al6S	ATOM 18809	C5' URI	13	175.047	105.641	-4.416	1.00	49.73	
ATOM 18757	C8	ADE	10	161.768	108.103	1.606	1.00	37.91	Al6S	ATOM 18810	C4' URI	13	175.275	105.590	-5.919	1.00	49.73	
ATOM 18758	O2'	ADE	10	164.428	108.623	3.729	1.00	38.24	Al6S	ATOM 18811	O4' URI	13	174.074	105.558	-6.696	1.00	49.73	
ATOM 18759	O2'	ADE	10	165.027	108.582	5.007	1.00	38.24	Al6S	ATOM 18812	C1' URI	13	174.462	105.751	-8.022	1.00	49.73	
ATOM 18760	C3'	ADE	10	164.159	110.035	3.235	1.00	38.24	Al6S	ATOM 18813	N1 URI	13	173.291	105.960	-8.870	1.00	47.52	
ATOM 18761	O3'	ADE	10	165.244	110.907	3.498	1.00	38.24	Al6S	ATOM 18814	C6 URI	13	172.462	107.026	-8.731	1.00	47.52	
ATOM 18762	P	GUA	11	166.561	110.825	2.587	1.00	43.41	Al6S	ATOM 18815	C2 URI	13	173.056	104.999	-9.819	1.00	47.52	
ATOM 18763	O1P GUA	GUA	11	167.568	111.733	3.185	1.00	49.54	Al6S	ATOM 18816	O2 URI	13	173.789	104.054	-9.979	1.00	47.52	
ATOM 18764	O2P GUA	GUA	11	166.168	110.998	1.171	1.00	49.54	Al6S	ATOM 18817	N3 URI	13	171.929	105.178	-10.569	1.00	47.52	
ATOM 18765	O5' GUA	GUA	11	167.087	109.341	2.818	1.00	43.41	Al6S	ATOM 18818	C4 URI	13	171.035	106.212	-10.468	1.00	47.52	
ATOM 18766	C5' GUA	GUA	11	167.772	109.003	4.013	1.00	43.41	Al6S	ATOM 18819	O4 URI	13	170.046	106.232	-11.198	1.00	47.52	
ATOM 18767	C4' GUA	GUA	11	168.499	107.698	3.842	1.00	43.41	Al6S	ATOM 18820	C5 URI	13	171.364	107.184	-9.478	1.00	47.52	
ATOM 18768	O4' GUA	GUA	11	167.537	106.630	3.651	1.00	43.41	Al6S	ATOM 18821	C2' URI	13	175.611	106.764	-8.014	1.00	49.73	
ATOM 18769	C1' GUA	GUA	11	168.050	105.690	2.721	1.00	43.41	Al6S	ATOM 18822	O2' URI	13	176.592	106.396	-8.970	1.00	49.73	
ATOM 18770	N9	GUA	11	167.194	105.742	1.546	1.00	49.54	Al6S	ATOM 18823	C3' URI	13	176.148	106.647	-6.578	1.00	49.73	
ATOM 18771	C4	GUA	11	167.039	104.772	0.581	1.00	49.54	Al6S	ATOM 18824	O3' URI	13	177.409	106.011	-6.735	1.00	49.73	
ATOM 18772	N3	GUA	11	167.650	103.571	0.552	1.00	49.54	Al6S	ATOM 18825	P	URI	14	178.742	106.727	-6.270	1.00	41.80
ATOM 18773	C2	GUA	11	167.297	102.862	-0.514	1.00	49.54	Al6S	ATOM 18826	O1P URI	14	179.828	106.060	-7.014	1.00	42.25	
ATOM 18774	N2	GUA	11	167.776	101.621	-0.693	1.00	49.54	Al6S	ATOM 18827	O2P URI	14	178.741	106.722	-4.775	1.00	42.25	
ATOM 18775	N1	GUA	11	166.437	103.305	-1.480	1.00	49.54	Al6S	ATOM 18828	O5' URI	14	178.591	108.215	-6.804	1.00	41.80	
ATOM 18776	C6	GUA	11	165.793	104.534	-1.475	1.00	49.54	Al6S	ATOM 18829	C5' URI	14	179.091	108.584	-8.064	1.00	41.80	
ATOM 18777	O6	GUA	11	165.026	104.831	-2.405	1.00	49.54	Al6S	ATOM 18830	C4' URI	14	179.310	110.068	-8.105	1.00	41.80	
ATOM 18778	C5	GUA	11	166.144	105.302	-0.325	1.00	49.54	Al6S	ATOM 18831	O4' URI	14	178.037	110.730	-7.950	1.00	41.80	
ATOM 18779	N7	GUA	11	165.734	106.567	0.071	1.00	49.54	Al6S	ATOM 18832	C1' URI	14	178.208	111.939	-7.233	1.00	41.80	
ATOM 18780	C8	GUA	11	166.382	106.785	1.182	1.00	49.54	Al6S	ATOM 18833	N1 URI	14	177.390	111.873	-6.014	1.00	42.25	

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ATOM	18834	C6	URI	14	177.090	110.677	-5.436	1.00	42.25	Al6S	ATOM	18887	O2' ADE	16	177.398	119.491	-4.426	1.00	41.06	A	
ATOM	18835	C2	URI	14	176.959	113.055	-5.465	1.00	42.25	Al6S	ATOM	18888	C3' ADE	16	177.273	117.070	-3.983	1.00	41.06	A	
ATOM	18836	O2	URI	14	177.150	114.138	-5.991	1.00	42.25	Al6S	ATOM	18889	O3' ADE	16	176.193	117.377	-3.128	1.00	41.06	A	
ATOM	18837	N3	URI	14	176.279	112.925	-4.286	1.00	42.25	Al6S	ATOM	18890	P	URI	17	174.741	116.776	-3.438	1.00	34.91	A
ATOM	18838	C4	URI	14	175.970	111.752	-3.636	1.00	42.25	Al6S	ATOM	18891	O1P	URI	17	173.785	117.316	-2.437	1.00	42.83	A
ATOM	18839	O4	URI	14	175.418	111.790	-2.526	1.00	42.25	Al6S	ATOM	18892	O2P	URI	17	174.886	115.306	-3.585	1.00	42.83	A
ATOM	18840	C5	URI	14	176.409	110.577	-4.303	1.00	42.25	Al6S	ATOM	18893	O5' URI	17	174.361	117.410	-4.845	1.00	34.91	A	
ATOM	18841	C2' URI	14	179.704	112.084	-6.949	1.00	41.80	Al6S	ATOM	18894	C5' URI	17	174.222	118.805	-4.970	1.00	34.91	A		
ATOM	18842	O2' URI	14	180.275	112.848	-7.982	1.00	41.80	Al6S	ATOM	18895	C4' URI	17	173.686	119.167	-6.328	1.00	34.91	A		
ATOM	18843	C3' URI	14	180.168	110.635	-6.994	1.00	41.80	Al6S	ATOM	18896	O4' URI	17	174.695	119.002	-7.351	1.00	34.91	A		
ATOM	18844	O3' URI	14	181.522	110.572	-7.403	1.00	41.80	Al6S	ATOM	18897	C1' URI	17	174.058	118.786	-8.594	1.00	34.91	A		
ATOM	18845	P	GUA	15	182.691	110.485	-6.312	1.00	45.33	Al6S	ATOM	18898	N1	URI	17	174.537	117.516	-9.143	1.00	42.83	A
ATOM	18846	O1P	GUA	15	183.943	110.426	-7.100	1.00	42.15	Al6S	ATOM	18899	C6	URI	17	175.112	116.570	-8.346	1.00	42.83	A
ATOM	18847	O2P	GUA	15	182.402	109.429	-5.310	1.00	42.15	Al6S	ATOM	18900	C2	URI	17	174.391	117.317	-10.488	1.00	42.83	A
ATOM	18848	O5' GUA	15	182.683	111.901	-5.593	1.00	45.33	Al6S	ATOM	18901	O2	URI	17	173.875	118.136	-11.222	1.00	42.83	A	
ATOM	18849	C5' GUA	15	183.430	112.097	-4.405	1.00	45.33	Al6S	ATOM	18902	N3	URI	17	174.869	116.123	-10.949	1.00	42.83	A	
ATOM	18850	C4' GUA	15	183.440	113.549	-4.033	1.00	45.33	Al6S	ATOM	18903	C4	URI	17	175.463	115.129	-10.208	1.00	42.83	A	
ATOM	18851	O4' GUA	15	184.253	114.292	-4.970	1.00	45.33	Al6S	ATOM	18904	O4	URI	17	175.837	114.099	-10.767	1.00	42.83	A	
ATOM	18852	C1' GUA	15	183.656	115.552	-5.234	1.00	45.33	Al6S	ATOM	18905	C5	URI	17	175.571	115.411	-8.818	1.00	42.83	A	
ATOM	18853	N9	GUA	15	183.314	115.581	-6.654	1.00	42.15	Al6S	ATOM	18906	C2' URI	17	172.552	118.799	-8.330	1.00	34.91	A	
ATOM	18854	C4	GUA	15	182.827	116.638	-7.383	1.00	42.15	Al6S	ATOM	18907	O2' URI	17	172.096	120.131	-8.517	1.00	34.91	A	
ATOM	18855	N3	GUA	15	182.545	117.861	-6.910	1.00	42.15	Al6S	ATOM	18908	C3' URI	17	172.503	118.383	-6.865	1.00	34.91	A	
ATOM	18856	C2	GUA	15	182.103	118.657	-7.864	1.00	42.15	Al6S	ATOM	18909	O3' URI	17	171.305	118.839	-6.245	1.00	34.91	A	
ATOM	18857	N2	GUA	15	181.776	119.913	-7.575	1.00	42.15	Al6S	ATOM	18910	P	CYT	18	170.092	117.821	-5.984	1.00	34.59	A
ATOM	18858	N1	GUA	15	181.944	118.279	-9.178	1.00	42.15	Al6S	ATOM	18911	O1P	CYT	18	169.156	118.532	-5.089	1.00	44.64	A
ATOM	18859	C6	GUA	15	182.214	117.016	-9.676	1.00	42.15	Al6S	ATOM	18912	O2P	CYT	18	170.576	116.472	-5.617	1.00	44.64	A
ATOM	18860	O6	GUA	15	182.007	116.759	-10.870	1.00	42.15	Al6S	ATOM	18913	O5' CYT	18	169.355	117.758	-7.377	1.00	34.59	A	
ATOM	18861	C5	GUA	15	182.700	116.163	-8.674	1.00	42.15	Al6S	ATOM	18914	C5' CYT	18	168.698	118.900	-7.863	1.00	34.59	A	
ATOM	18862	N7	GUA	15	183.087	114.837	-8.752	1.00	42.15	Al6S	ATOM	18915	C4' CYT	18	168.495	118.768	-9.333	1.00	34.59	A	
ATOM	18863	C8	GUA	15	183.440	114.533	-7.533	1.00	42.15	Al6S	ATOM	18916	O4' CYT	18	169.795	118.653	-9.959	1.00	34.59	A	
ATOM	18864	C2' GUA	15	182.483	115.678	-4.262	1.00	45.33	Al6S	ATOM	18917	C1' CYT	18	169.689	117.822	-11.103	1.00	34.59	A		
ATOM	18865	O2' GUA	15	182.993	116.193	-3.052	1.00	45.33	Al6S	ATOM	18918	N1	CYT	18	170.541	116.653	-10.903	1.00	44.64	A	
ATOM	18866	C3' GUA	15	182.087	114.221	-4.081	1.00	45.33	Al6S	ATOM	18919	C6	CYT	18	170.939	116.274	-9.654	1.00	44.64	A	
ATOM	18867	O3' GUA	15	181.421	113.992	-2.851	1.00	45.33	Al6S	ATOM	18920	C2	CYT	18	170.919	115.916	-12.020	1.00	44.64	A	
ATOM	18868	P	ADE	16	179.916	113.431	-2.858	1.00	41.06	Al6S	ATOM	18921	O2	CYT	18	170.543	116.305	-13.141	1.00	44.64	A
ATOM	18869	O1P	ADE	16	179.505	113.157	-1.451	1.00	39.99	Al6S	ATOM	18922	N3	CYT	18	171.674	114.801	-11.854	1.00	44.64	A
ATOM	18870	O2P	ADE	16	179.809	112.349	-3.876	1.00	39.99	Al6S	ATOM	18923	C4	CYT	18	172.043	114.430	-10.626	1.00	44.64	A
ATOM	18871	O5' ADE	16	179.073	114.691	-3.338	1.00	41.06	Al6S	ATOM	18924	N4	CYT	18	172.771	113.326	-10.496	1.00	44.64	A	
ATOM	18872	C5' ADE	16	178.856	115.768	-2.446	1.00	41.06	Al6S	ATOM	18925	C5	CYT	18	171.679	115.178	-9.471	1.00	44.64	A	
ATOM	18873	C4' ADE	16	178.574	117.032	-3.206	1.00	41.06	Al6S	ATOM	18926	C2' CYT	18	168.220	117.413	-11.211	1.00	34.59	A		
ATOM	18874	O4' ADE	16	179.577	117.191	-4.243	1.00	41.06	Al6S	ATOM	18927	O2' CYT	18	167.519	118.357	-11.995	1.00	34.59	A		
ATOM	18875	C1' ADE	16	179.015	117.932	-5.318	1.00	41.06	Al6S	ATOM	18928	C3' CYT	18	167.804	117.489	-9.757	1.00	34.59	A		
ATOM	18876	N9	ADE	16	179.140	117.154	-6.546	1.00	39.99	Al6S	ATOM	18929	O3' CYT	18	166.399	117.571	-9.591	1.00	34.59	A	
ATOM	18877	C4	ADE	16	178.790	117.607	-7.790	1.00	39.99	Al6S	ATOM	18930	P	CYT	19	165.565	116.253	-9.191	1.00	33.59	A
ATOM	18878	N3	ADE	16	178.287	118.814	-8.101	1.00	39.99	Al6S	ATOM	18931	O1P	CYT	19	164.170	116.737	-8.963	1.00	38.55	A
ATOM	18879	C2	ADE	16	178.054	118.893	-9.405	1.00	39.99	Al6S	ATOM	18932	O2P	CYT	19	166.272	115.513	-8.113	1.00	38.55	A
ATOM	18880	N1	ADE	16	178.254	117.971	-10.361	1.00	39.99	Al6S	ATOM	18933	O5' CYT	19	165.587	115.379	-10.520	1.00	33.59	A	
ATOM	18881	C6	ADE	16	178.755	116.776	-10.002	1.00	39.99	Al6S	ATOM	18934	C5' CYT	19	164.931	115.860	-11.674	1.00	33.59	A	
ATOM	18882	N6	ADE	16	178.937	115.871	-10.937	1.00	39.99	Al6S	ATOM	18935	C4' CYT	19	165.243	115.004	-12.869	1.00	33.59	A	
ATOM	18883	C5	ADE	16	179.046	116.566	-8.657	1.00	39.99	Al6S	ATOM	18936	O4' CYT	19	166.676	114.994	-13.128	1.00	33.59	A	
ATOM	18884	N7	ADE	16	179.548	115.474	-7.973	1.00	39.99	Al6S	ATOM	18937	C1' CYT	19	167.036	113.757	-13.725	1.00	33.59	A	
ATOM	18885	C8	ADE	16	179.589	115.875	-6.725	1.00	39.99	Al6S	ATOM	18938	N1	CYT	19	167.902	113.046	-12.780	1.00	38.55	A
ATOM	18886	C2' ADE	16	177.544	118.194	-4.974	1.00	41.06	Al6S	ATOM	18939	C6	CYT	19	167.926	113.398	-11.464	1.00	38.55	A	

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ATOM	18940	C2	CYT	19	168.701	112.021	-13.243	1.00	38.55	Al6S	ATOM	18993	P	GUA	22	162.056	101.422	-11.806	1.00	43.16
ATOM	18941	O2	CYT	19	168.646	111.729	-14.444	1.00	38.55	Al6S	ATOM	18994	O1P	GUA	22	161.058	100.568	-12.510	1.00	39.70
ATOM	18942	N3	CYT	19	169.512	111.370	-12.376	1.00	38.55	Al6S	ATOM	18995	O2P	GUA	22	161.598	102.564	-10.975	1.00	39.70
ATOM	18943	C4	CYT	19	169.518	111.717	-11.087	1.00	38.55	Al6S	ATOM	18996	O5	GUA	22	162.905	100.460	-10.877	1.00	43.16
ATOM	18944	N4	CYT	19	170.291	111.037	-10.248	1.00	38.55	Al6S	ATOM	18997	C5	GUA	22	163.334	99.219	-11.387	1.00	43.16
ATOM	18945	C5	CYT	19	168.718	112.768	-10.594	1.00	38.55	Al6S	ATOM	18998	C4	GUA	22	164.614	98.808	-10.733	1.00	43.16
ATOM	18946	C2	CYT	19	165.721	113.022	-13.982	1.00	33.59	Al6S	ATOM	18999	O4	GUA	22	165.496	99.955	-10.667	1.00	43.16
ATOM	18947	O2	CYT	19	165.179	113.505	-15.207	1.00	33.59	Al6S	ATOM	19000	C1	GUA	22	166.387	99.787	-9.580	1.00	43.16
ATOM	18948	C3	CYT	19	164.885	113.532	-12.816	1.00	33.59	Al6S	ATOM	19001	N9	GUA	22	166.300	100.942	-8.698	1.00	39.70
ATOM	18949	O3	CYT	19	163.503	113.364	-13.080	1.00	33.59	Al6S	ATOM	19002	C4	GUA	22	167.206	101.257	-7.727	1.00	39.70
ATOM	18950	P	URI	20	162.785	111.979	-12.714	1.00	37.27	Al6S	ATOM	19003	N3	GUA	22	168.318	100.556	-7.434	1.00	39.70
ATOM	18951	O1P	URI	20	161.453	112.047	-13.361	1.00	37.17	Al6S	ATOM	19004	C2	GUA	22	168.981	101.083	-6.432	1.00	39.70
ATOM	18952	O2P	URI	20	162.882	111.704	-11.263	1.00	37.17	Al6S	ATOM	19005	N2	GUA	22	170.105	100.508	-6.002	1.00	39.70
ATOM	18953	O5	URI	20	163.609	110.883	-13.518	1.00	37.27	Al6S	ATOM	19006	N1	GUA	22	168.594	102.217	-5.771	1.00	39.70
ATOM	18954	C5	URI	20	163.371	110.694	-14.914	1.00	37.27	Al6S	ATOM	19007	C6	GUA	22	167.466	102.967	-6.068	1.00	39.70
ATOM	18955	C4	URI	20	164.215	109.566	-15.454	1.00	37.27	Al6S	ATOM	19008	O6	GUA	22	167.226	103.989	-5.424	1.00	39.70
ATOM	18956	O4	URI	20	165.616	109.851	-15.221	1.00	37.27	Al6S	ATOM	19009	C5	GUA	22	166.731	102.398	-7.139	1.00	39.70
ATOM	18957	C1	URI	20	166.295	108.657	-14.886	1.00	37.27	Al6S	ATOM	19010	N7	GUA	22	165.545	102.797	-7.733	1.00	39.70
ATOM	18958	N1	URI	20	166.743	108.771	-13.499	1.00	37.17	Al6S	ATOM	19011	C8	GUA	22	165.330	101.902	-8.654	1.00	39.70
ATOM	18959	C6	URI	20	166.245	109.736	-12.667	1.00	37.17	Al6S	ATOM	19012	C2	GUA	22	165.966	98.515	-8.855	1.00	43.16
ATOM	18960	O2	URI	20	167.681	107.883	-13.069	1.00	37.17	Al6S	ATOM	19013	O2	GUA	22	166.772	97.476	-9.354	1.00	43.16
ATOM	18961	C2	URI	20	168.132	107.015	-13.779	1.00	37.17	Al6S	ATOM	19014	C3	GUA	22	164.508	98.420	-9.151	1.00	43.16
ATOM	18962	N3	URI	20	168.076	108.043	-11.774	1.00	37.17	Al6S	ATOM	19015	O3	GUA	22	163.983	97.110	-7.841	1.00	34.64
ATOM	18963	C4	URI	20	167.629	108.981	-10.890	1.00	37.17	Al6S	ATOM	19016	P	CYT	23	163.163	96.718	-7.961	1.00	38.60
ATOM	18964	O5	URI	20	168.086	109.869	-11.412	1.00	37.17	Al6S	ATOM	19017	O1P	CYT	23	162.686	95.316	-7.961	1.00	38.60
ATOM	18965	C4	URI	20	166.646	109.869	-11.412	1.00	37.17	Al6S	ATOM	19018	O2P	CYT	23	162.200	97.811	-7.612	1.00	38.60
ATOM	18966	C2	URI	20	165.309	107.513	-15.074	1.00	37.27	Al6S	ATOM	19019	O5	CYT	23	164.260	96.753	-6.691	1.00	34.64
ATOM	18967	O2	URI	20	165.414	107.042	-16.404	1.00	37.27	Al6S	ATOM	19020	C5	CYT	23	165.341	95.841	-6.729	1.00	34.64
ATOM	18968	C3	URI	20	163.993	108.224	-14.795	1.00	37.27	Al6S	ATOM	19021	C4	CYT	23	166.328	96.161	-5.654	1.00	34.64
ATOM	18969	O3	URI	20	162.907	107.571	-15.421	1.00	37.27	Al6S	ATOM	19022	O4	CYT	23	166.848	97.479	-5.907	1.00	34.64
ATOM	18970	P	GUA	21	161.906	106.701	-14.535	1.00	31.91	Al6S	ATOM	19023	C1	CYT	23	167.178	98.099	-4.676	1.00	34.64
ATOM	18971	O1P	GUA	21	160.852	106.124	-15.447	1.00	46.33	Al6S	ATOM	19024	N1	CYT	23	166.409	99.336	-4.568	1.00	38.60
ATOM	18972	O2P	GUA	21	161.501	107.576	-13.412	1.00	46.33	Al6S	ATOM	19025	C6	CYT	23	165.315	99.560	-5.351	1.00	38.60
ATOM	18973	O5	GUA	21	162.848	105.574	-13.932	1.00	31.91	Al6S	ATOM	19026	C2	CYT	23	166.821	100.283	-3.649	1.00	38.60
ATOM	18974	C5	GUA	21	163.427	104.598	-14.765	1.00	31.91	Al6S	ATOM	19027	O2	CYT	23	167.792	100.029	-2.932	1.00	38.60
ATOM	18975	C4	GUA	21	164.385	103.724	-13.978	1.00	31.91	Al6S	ATOM	19028	N3	CYT	23	166.146	101.446	-3.547	1.00	38.60
ATOM	18976	O4	GUA	21	165.543	104.500	-13.565	1.00	31.91	Al6S	ATOM	19029	C4	CYT	23	165.075	101.658	-4.308	1.00	38.60
ATOM	18977	C1	GUA	21	166.048	103.970	-12.353	1.00	46.33	Al6S	ATOM	19030	N4	CYT	23	164.428	102.812	-4.157	1.00	38.60
ATOM	18978	N9	GUA	21	165.943	105.005	-11.343	1.00	46.33	Al6S	ATOM	19031	C5	CYT	23	164.621	100.696	-5.252	1.00	38.60
ATOM	18979	C4	GUA	21	166.736	105.155	-10.240	1.00	46.33	Al6S	ATOM	19032	C2	CYT	23	166.827	97.111	-3.566	1.00	34.64
ATOM	18980	N3	GUA	21	167.763	104.358	-9.892	1.00	46.33	Al6S	ATOM	19033	O2	CYT	23	167.965	96.346	-3.217	1.00	34.64
ATOM	18981	C2	GUA	21	168.368	104.787	-8.807	1.00	46.33	Al6S	ATOM	19034	C3	CYT	23	165.761	96.286	-4.258	1.00	34.64
ATOM	18982	N2	GUA	21	169.440	104.143	-8.346	1.00	46.33	Al6S	ATOM	19035	O3	CYT	23	165.587	95.040	-3.619	1.00	34.64
ATOM	18983	N1	GUA	21	167.975	105.889	-8.104	1.00	46.33	Al6S	ATOM	19036	P	URI	24	164.406	94.884	-2.551	1.00	42.00
ATOM	18984	C6	GUA	21	166.911	106.717	-8.444	1.00	46.33	Al6S	ATOM	19037	O1P	URI	24	164.433	93.503	-2.009	1.00	46.28
ATOM	18985	O5	GUA	21	166.638	107.699	-7.741	1.00	46.33	Al6S	ATOM	19038	O2P	URI	24	163.164	95.415	-3.168	1.00	46.28
ATOM	18986	C6	GUA	21	166.275	106.282	-9.612	1.00	46.33	Al6S	ATOM	19039	O5	URI	24	164.853	95.865	-1.395	1.00	42.00
ATOM	18987	N7	GUA	21	165.206	106.822	-10.299	1.00	46.33	Al6S	ATOM	19040	C5	URI	24	166.018	95.584	-0.653	1.00	42.00
ATOM	18988	C8	GUA	21	165.042	106.027	-11.316	1.00	46.33	Al6S	ATOM	19041	C4	URI	24	166.198	96.608	0.423	1.00	42.00
ATOM	18989	O2	GUA	21	165.200	102.746	-12.004	1.00	31.91	Al6S	ATOM	19042	O4	URI	24	166.499	97.896	-0.176	1.00	42.00
ATOM	18990	C2	GUA	21	165.806	101.607	-12.573	1.00	31.91	Al6S	ATOM	19043	C1	URI	24	165.983	98.922	0.654	1.00	42.00
ATOM	18991	C3	GUA	21	163.886	103.093	-12.684	1.00	31.91	Al6S	ATOM	19044	N1	URI	24	165.001	99.702	-0.111	1.00	46.28
ATOM	18992	O3	GUA	21	163.109	101.924	-12.921	1.00	31.91	Al6S	ATOM	19045	C6	URI	24	164.480	99.252	-1.287	1.00	46.28

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ATOM	19046	C2	URI	24	164.613	100.906	0.422	1.00	46.28	Al6S	ATOM	19099	O1P	GUA	27	156.396	99.396	12.504	1.00	43.12	Al
ATOM	19047	O2	URI	24	165.064	101.333	1.464	1.00	46.28	Al6S	ATOM	19100	O2P	GUA	27	157.157	98.117	10.410	1.00	43.12	Al
ATOM	19048	N3	URI	24	163.677	101.591	-0.302	1.00	46.28	Al6S	ATOM	19101	O5'	GUA	27	155.226	99.679	10.313	1.00	48.29	Al
ATOM	19049	C4	URI	24	163.098	101.196	-1.479	1.00	46.28	Al6S	ATOM	19102	C5'	GUA	27	154.514	100.869	10.613	1.00	48.29	Al
ATOM	19050	O4	URI	24	162.207	101.889	-1.977	1.00	46.28	Al6S	ATOM	19103	C4'	GUA	27	153.185	100.856	9.904	1.00	48.29	Al
ATOM	19051	C5	URI	24	163.563	99.937	-1.973	1.00	46.28	Al6S	ATOM	19104	O4'	GUA	27	153.407	100.872	8.472	1.00	48.29	Al
ATOM	19052	C2'	URI	24	165.327	98.225	1.849	1.00	42.00	Al6S	ATOM	19105	C1'	GUA	27	152.399	100.112	7.825	1.00	48.29	Al
ATOM	19053	O2'	URI	24	166.288	98.016	2.859	1.00	42.00	Al6S	ATOM	19106	N9	GUA	27	153.038	98.995	7.145	1.00	43.12	Al
ATOM	19054	C3'	URI	24	164.952	96.901	1.229	1.00	42.00	Al6S	ATOM	19107	C4	GUA	27	152.505	98.251	6.127	1.00	43.12	Al
ATOM	19055	O3'	URI	24	164.699	95.916	2.206	1.00	42.00	Al6S	ATOM	19108	N3	GUA	27	151.303	98.444	5.554	1.00	43.12	Al
ATOM	19056	P	CYT	25	163.193	95.671	2.691	1.00	42.95	Al6S	ATOM	19109	C2	GUA	27	151.049	97.537	4.626	1.00	43.12	Al
ATOM	19057	O1P	CYT	25	163.155	94.388	3.448	1.00	42.76	Al6S	ATOM	19110	N2	GUA	27	149.891	97.575	3.940	1.00	43.12	Al
ATOM	19058	O2P	CYT	25	162.275	95.861	1.540	1.00	42.76	Al6S	ATOM	19111	N1	GUA	27	151.904	96.529	4.299	1.00	43.12	Al
ATOM	19059	O5'	CYT	25	162.972	96.866	3.709	1.00	42.95	Al6S	ATOM	19112	C6	GUA	27	153.143	96.317	4.872	1.00	43.12	Al
ATOM	19060	C5'	CYT	25	163.822	97.009	4.830	1.00	42.95	Al6S	ATOM	19113	O6	GUA	27	153.828	95.368	4.499	1.00	43.12	Al
ATOM	19061	C4'	CYT	25	163.577	98.331	5.502	1.00	42.95	Al6S	ATOM	19114	C5	GUA	27	153.432	97.281	5.860	1.00	43.12	Al
ATOM	19062	O4'	CYT	25	163.848	99.397	4.557	1.00	42.95	Al6S	ATOM	19115	N7	GUA	27	154.543	97.428	6.674	1.00	43.12	Al
ATOM	19063	C1'	CYT	25	162.985	100.490	4.827	1.00	42.95	Al6S	ATOM	19116	C8	GUA	27	154.267	98.461	7.413	1.00	43.12	Al
ATOM	19064	N1	CYT	25	162.192	100.780	3.621	1.00	42.76	Al6S	ATOM	19117	C2'	GUA	27	151.449	99.623	8.916	1.00	48.29	Al
ATOM	19065	C6	CYT	25	161.982	99.832	2.662	1.00	42.76	Al6S	ATOM	19118	O2'	GUA	27	150.408	100.551	9.107	1.00	48.29	Al
ATOM	19066	C2	CYT	25	161.664	102.051	3.479	1.00	42.76	Al6S	ATOM	19119	C3'	GUA	27	152.373	99.598	10.112	1.00	48.29	Al
ATOM	19067	O2	CYT	25	161.872	102.881	4.377	1.00	42.76	Al6S	ATOM	19120	O3'	GUA	27	151.641	99.660	11.309	1.00	48.29	Al
ATOM	19068	N3	CYT	25	160.948	102.351	2.372	1.00	42.76	Al6S	ATOM	19121	P	GUA	28	151.237	98.302	12.050	1.00	46.99	Al
ATOM	19069	C4	CYT	25	160.763	101.424	1.429	1.00	42.76	Al6S	ATOM	19122	O1P	GUA	28	150.502	98.711	13.275	1.00	47.43	Al
ATOM	19070	N4	CYT	25	160.085	101.770	0.335	1.00	42.76	Al6S	ATOM	19123	O2P	GUA	28	152.424	97.416	12.171	1.00	47.43	Al
ATOM	19071	C5	CYT	25	161.277	100.108	1.561	1.00	42.76	Al6S	ATOM	19124	O5'	GUA	28	150.175	97.636	11.070	1.00	46.99	Al
ATOM	19072	C2'	CYT	25	162.143	100.110	6.046	1.00	42.95	Al6S	ATOM	19125	C5'	GUA	28	148.901	98.233	10.895	1.00	46.99	Al
ATOM	19073	O2'	CYT	25	162.828	100.554	7.201	1.00	42.95	Al6S	ATOM	19126	O4'	GUA	28	148.145	97.568	9.772	1.00	46.99	Al
ATOM	19074	C3'	CYT	25	162.148	98.595	5.937	1.00	42.95	Al6S	ATOM	19127	C4'	GUA	28	148.862	97.717	8.516	1.00	46.99	Al
ATOM	19075	O3'	CYT	25	161.903	97.982	7.185	1.00	42.95	Al6S	ATOM	19128	C1'	GUA	28	148.591	96.600	7.677	1.00	46.99	Al
ATOM	19076	P	ADE	26	160.439	97.430	7.525	1.00	53.28	Al6S	ATOM	19129	N9	GUA	28	149.827	95.853	7.494	1.00	47.43	Al
ATOM	19077	O1P	ADE	26	160.592	96.506	8.669	1.00	42.42	Al6S	ATOM	19130	C4	GUA	28	150.010	94.778	6.662	1.00	47.43	Al
ATOM	19078	O2P	ADE	26	159.775	96.951	6.293	1.00	42.42	Al6S	ATOM	19131	N3	GUA	28	149.087	94.248	5.831	1.00	47.43	Al
ATOM	19079	O5'	ADE	26	159.687	98.732	8.039	1.00	53.28	Al6S	ATOM	19132	C2	GUA	28	149.560	93.206	5.171	1.00	47.43	Al
ATOM	19080	C5'	ADE	26	160.167	99.424	9.187	1.00	53.28	Al6S	ATOM	19133	N2	GUA	28	148.794	92.572	4.285	1.00	47.43	Al
ATOM	19081	C4'	ADE	26	159.521	100.776	9.295	1.00	53.28	Al6S	ATOM	19134	N1	GUA	28	150.825	92.711	5.324	1.00	47.43	Al
ATOM	19082	O4'	ADE	26	159.832	101.537	8.106	1.00	53.28	Al6S	ATOM	19135	C6	GUA	28	151.793	93.236	6.172	1.00	47.43	Al
ATOM	19083	C1'	ADE	26	158.811	102.484	7.881	1.00	53.28	Al6S	ATOM	19136	O6	GUA	28	152.907	92.703	6.241	1.00	47.43	Al
ATOM	19084	N9	ADE	26	158.335	102.345	6.514	1.00	42.42	Al6S	ATOM	19137	C5	GUA	28	151.309	94.370	6.875	1.00	47.43	Al
ATOM	19085	C4	ADE	26	157.880	103.371	5.728	1.00	42.42	Al6S	ATOM	19138	N7	GUA	28	151.940	95.193	7.802	1.00	47.43	Al
ATOM	19086	N3	ADE	26	157.829	104.673	6.045	1.00	42.42	Al6S	ATOM	19139	C8	GUA	28	151.023	96.058	8.137	1.00	47.43	Al
ATOM	19087	C2	ADE	26	157.286	105.373	5.058	1.00	42.42	Al6S	ATOM	19140	C2'	GUA	28	147.575	95.752	8.431	1.00	46.99	Al
ATOM	19088	N1	ADE	26	156.826	104.955	3.878	1.00	42.42	Al6S	ATOM	19141	O2'	GUA	28	146.281	96.224	8.116	1.00	46.99	Al
ATOM	19089	C6	ADE	26	156.902	103.636	3.588	1.00	42.42	Al6S	ATOM	19142	C3'	GUA	28	147.966	96.071	9.860	1.00	46.99	Al
ATOM	19090	N6	ADE	26	156.439	103.208	2.403	1.00	42.42	Al6S	ATOM	19143	O3'	GUA	28	146.954	95.717	10.772	1.00	46.99	Al
ATOM	19091	C5	ADE	26	157.460	102.787	4.554	1.00	42.42	Al6S	ATOM	19144	P	GUA	29	147.164	94.432	11.692	1.00	45.06	Al
ATOM	19092	N7	ADE	26	157.682	101.419	4.582	1.00	42.42	Al6S	ATOM	19145	O1P	GUA	29	146.007	94.348	12.616	1.00	43.08	Al
ATOM	19093	C8	ADE	26	158.209	101.210	5.763	1.00	42.42	Al6S	ATOM	19146	O2P	GUA	29	148.546	94.505	12.235	1.00	43.08	Al
ATOM	19094	O2'	ADE	26	157.712	102.231	8.914	1.00	53.28	Al6S	ATOM	19147	O5'	GUA	29	147.048	93.219	10.673	1.00	45.06	Al
ATOM	19095	C2'	ADE	26	157.912	103.129	9.981	1.00	53.28	Al6S	ATOM	19148	C5'	GUA	29	145.869	93.063	9.907	1.00	45.06	Al
ATOM	19096	C3'	ADE	26	158.005	100.799	9.341	1.00	53.28	Al6S	ATOM	19149	C4'	GUA	29	146.056	92.001	8.859	1.00	45.06	Al
ATOM	19097	O3'	ADE	26	157.558	100.600	10.678	1.00	53.28	Al6S	ATOM	19150	O4'	GUA	29	147.189	92.333	8.025	1.00	45.06	Al
ATOM	19098	P	GUA	27	156.606	99.348	11.032	1.00	48.29	Al6S	ATOM	19151	C1'	GUA	29	147.704	91.150	7.449	1.00	45.06	Al

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ATOM	19152	N9	GUA	29	149.134	91.070	7.714	1.00	43.08	Al6S	ATOM	19205	C8	GUA	31	145.077	78.671	7.524	1.00	56.24	/
ATOM	19153	C4	GUA	29	150.023	90.218	7.108	1.00	43.08	Al6S	ATOM	19206	C2' GUA	31	146.492	78.718	10.509	1.00	63.12	/	
ATOM	19154	N3	GUA	29	149.730	89.324	6.148	1.00	43.08	Al6S	ATOM	19207	O2' GUA	31	147.045	77.890	11.510	1.00	63.12	/	
ATOM	19155	C2	GUA	29	150.791	88.637	5.771	1.00	43.08	Al6S	ATOM	19208	O3' GUA	31	146.139	80.139	10.940	1.00	63.12	/	
ATOM	19156	N2	GUA	29	150.687	87.721	4.806	1.00	43.08	Al6S	ATOM	19209	O3' GUA	31	146.785	80.624	12.125	1.00	63.12	/	
ATOM	19157	N1	GUA	29	152.032	88.798	6.304	1.00	43.08	Al6S	ATOM	19210	P	ADE	32	146.724	79.780	13.506	1.00	47.90	/
ATOM	19158	C6	GUA	29	152.360	89.709	7.295	1.00	43.08	Al6S	ATOM	19211	O1P ADE	32	145.860	78.605	13.290	1.00	50.42	/	
ATOM	19159	O6	GUA	29	153.520	89.765	7.715	1.00	43.08	Al6S	ATOM	19212	O2P ADE	32	146.398	80.732	14.595	1.00	50.42	/	
ATOM	19160	C5	GUA	29	151.234	90.471	7.697	1.00	43.08	Al6S	ATOM	19213	O5' ADE	32	148.221	79.305	13.740	1.00	47.90	/	
ATOM	19161	N7	GUA	29	151.122	91.485	8.636	1.00	43.08	Al6S	ATOM	19214	C5' ADE	32	149.290	80.165	13.396	1.00	47.90	/	
ATOM	19162	C8	GUA	29	149.856	91.807	8.612	1.00	43.08	Al6S	ATOM	19215	C4' ADE	32	150.167	79.514	12.359	1.00	47.90	/	
ATOM	19163	O2' GUA	29	146.908	89.996	8.050	1.00	45.06	Al6S	ATOM	19216	O4' ADE	32	150.428	80.470	11.304	1.00	47.90	/		
ATOM	19164	C2' GUA	29	145.821	89.754	7.188	1.00	45.06	Al6S	ATOM	19217	C1' ADE	32	151.787	80.395	10.920	1.00	47.90	/		
ATOM	19165	C3' GUA	29	146.415	90.617	9.342	1.00	45.06	Al6S	ATOM	19218	N9	ADE	32	152.423	81.675	11.253	1.00	50.42	/	
ATOM	19166	O3' GUA	29	145.257	89.946	9.791	1.00	45.06	Al6S	ATOM	19219	C4	ADE	32	153.682	82.108	10.902	1.00	50.42	/	
ATOM	19167	P	URI	30	145.397	88.728	10.814	1.00	71.04	Al6S	ATOM	19220	N3	ADE	32	154.615	81.438	10.205	1.00	50.42	/
ATOM	19168	O1P URI	30	144.020	88.308	11.140	1.00	44.45	Al6S	ATOM	19221	C2	ADE	32	155.702	82.178	10.042	1.00	50.42	/	
ATOM	19169	O2P URI	30	146.307	89.149	11.898	1.00	44.45	Al6S	ATOM	19222	N1	ADE	32	155.950	83.422	10.459	1.00	50.42	/	
ATOM	19170	O5' URI	30	146.118	87.579	9.975	1.00	71.04	Al6S	ATOM	19223	C6	ADE	32	154.994	84.073	11.155	1.00	50.42	/	
ATOM	19171	C5' URI	30	145.395	86.710	9.088	1.00	71.04	Al6S	ATOM	19224	N6	ADE	32	155.239	85.323	11.563	1.00	50.42	/	
ATOM	19172	C4' URI	30	146.251	85.506	8.741	1.00	71.04	Al6S	ATOM	19225	C5	ADE	32	153.792	83.391	11.404	1.00	50.42	/	
ATOM	19173	O4' URI	30	147.504	86.000	8.226	1.00	71.04	Al6S	ATOM	19226	N7	ADE	32	152.635	83.756	12.075	1.00	50.42	/	
ATOM	19174	C1' URI	30	148.552	85.155	8.637	1.00	71.04	Al6S	ATOM	19227	C8	ADE	32	151.861	82.706	11.964	1.00	50.42	/	
ATOM	19175	N1	URI	30	149.705	85.975	9.015	1.00	44.45	Al6S	ATOM	19228	C2' ADE	32	152.373	79.157	11.602	1.00	47.90	/	
ATOM	19176	C6	URI	30	149.567	87.155	9.698	1.00	44.45	Al6S	ATOM	19229	O2' ADE	32	152.146	78.040	10.772	1.00	47.90	/	
ATOM	19177	C2	URI	30	150.943	85.502	8.648	1.00	44.45	Al6S	ATOM	19230	C3' ADE	32	151.532	79.085	12.865	1.00	47.90	/	
ATOM	19178	O2	URI	30	151.089	84.463	8.022	1.00	44.45	Al6S	ATOM	19231	O3' ADE	32	151.479	77.766	13.400	1.00	47.90	/	
ATOM	19179	N3	URI	30	152.000	86.288	9.029	1.00	44.45	Al6S	ATOM	19232	P	ADE	33	152.164	77.454	14.826	1.00	44.73	/
ATOM	19180	C4	URI	30	151.938	87.474	9.722	1.00	44.45	Al6S	ATOM	19233	O1P ADE	33	151.643	76.136	15.285	1.00	46.04	/	
ATOM	19181	O4	URI	30	152.981	88.041	10.038	1.00	44.45	Al6S	ATOM	19234	O2P ADE	33	151.984	78.652	15.681	1.00	46.04	/	
ATOM	19182	C5	URI	30	150.613	87.905	10.053	1.00	44.45	Al6S	ATOM	19235	O5' ADE	33	153.721	77.287	14.491	1.00	44.73	/	
ATOM	19183	C2' URI	30	148.051	84.190	9.714	1.00	71.04	Al6S	ATOM	19236	C5' ADE	33	154.191	76.188	13.706	1.00	44.73	/		
ATOM	19184	O2' URI	30	148.169	82.851	9.275	1.00	71.04	Al6S	ATOM	19237	C4' ADE	33	155.560	76.489	13.138	1.00	44.73	/		
ATOM	19185	C3' URI	30	146.610	84.650	9.953	1.00	71.04	Al6S	ATOM	19238	O4' ADE	33	155.478	77.656	12.281	1.00	44.73	/		
ATOM	19186	O3' URI	30	145.801	83.470	10.045	1.00	71.04	Al6S	ATOM	19239	C1' ADE	33	156.648	78.445	12.429	1.00	44.73	/		
ATOM	19187	P	GUA	31	144.817	83.038	8.830	1.00	63.12	Al6S	ATOM	19240	N9	ADE	33	156.247	79.743	12.965	1.00	46.04	/
ATOM	19188	O1P GUA	31	145.601	82.786	7.592	1.00	56.24	Al6S	ATOM	19241	C4	ADE	33	156.998	80.891	12.991	1.00	46.04	/	
ATOM	19189	O2P GUA	31	143.663	83.968	8.788	1.00	56.24	Al6S	ATOM	19242	N3	ADE	33	158.238	81.064	12.515	1.00	46.04	/	
ATOM	19190	O5' GUA	31	144.262	81.635	9.334	1.00	63.12	Al6S	ATOM	19243	C2	ADE	33	158.660	82.310	12.735	1.00	46.04	/	
ATOM	19191	C5' GUA	31	143.998	81.414	10.721	1.00	63.12	Al6S	ATOM	19244	N1	ADE	33	158.032	83.321	13.329	1.00	46.04	/	
ATOM	19192	C4' GUA	31	144.643	80.135	11.155	1.00	63.12	Al6S	ATOM	19245	C6	ADE	33	156.780	83.115	13.794	1.00	46.04	/	
ATOM	19193	O4' GUA	31	144.130	79.094	10.312	1.00	63.12	Al6S	ATOM	19246	N6	ADE	33	156.146	84.127	14.388	1.00	46.04	/	
ATOM	19194	C1' GUA	31	145.149	78.176	10.012	1.00	63.12	Al6S	ATOM	19247	C5	ADE	33	156.219	81.838	13.622	1.00	46.04	/	
ATOM	19195	N9	GUA	31	145.049	77.827	8.601	1.00	56.24	Al6S	ATOM	19248	N7	ADE	33	154.987	81.305	13.973	1.00	46.04	/
ATOM	19196	C4	GUA	31	144.899	76.564	8.101	1.00	56.24	Al6S	ATOM	19249	C8	ADE	33	155.052	80.063	13.559	1.00	46.04	/
ATOM	19197	N3	GUA	31	144.824	75.434	8.827	1.00	56.24	Al6S	ATOM	19250	C2' ADE	33	157.600	77.695	13.362	1.00	44.73	/	
ATOM	19198	C2	GUA	31	144.698	74.372	8.065	1.00	56.24	Al6S	ATOM	19251	O2' ADE	33	158.515	76.940	12.610	1.00	44.73	/	
ATOM	19199	N2	GUA	31	144.633	73.169	8.616	1.00	56.24	Al6S	ATOM	19252	C3' ADE	33	156.632	76.829	14.161	1.00	44.73	/	
ATOM	19200	N1	GUA	31	144.638	74.410	6.704	1.00	56.24	Al6S	ATOM	19253	O3' ADE	33	157.260	75.638	14.629	1.00	44.73	/	
ATOM	19201	C6	GUA	31	144.715	75.559	5.933	1.00	56.24	Al6S	ATOM	19254	P	CYT	34	157.828	75.563	16.139	1.00	44.47	/
ATOM	19202	O6	GUA	31	144.667	75.478	4.698	1.00	56.24	Al6S	ATOM	19255	O1P	CYT	34	158.256	74.162	16.355	1.00	45.73	/
ATOM	19203	C5	GUA	31	144.854	76.713	6.738	1.00	56.24	Al6S	ATOM	19256	O2P	CYT	34	156.858	76.185	17.077	1.00	45.73	/
ATOM	19204	N7	GUA	31	144.964	78.048	6.386	1.00	56.24	Al6S	ATOM	19257	O5' CYT	34	159.139	76.456	16.117	1.00	44.47	/	

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ATOM	19258	C5' CYT	34	160.297	76.006	15.458	1.00	44.47	A16S	19311	N4	CYT	36	158.920	82.593	22.779	1.00	42.00	A
ATOM	19259	C4' CYT	34	161.342	77.080	15.487	1.00	44.47	A16S	19312	C5	CYT	36	161.225	84.136	23.137	1.00	42.00	A
ATOM	19260	O4' CYT	34	160.893	78.210	14.700	1.00	44.47	A16S	19313	C2'	CYT	36	163.835	84.217	26.058	1.00	55.96	A
ATOM	19261	C1' CYT	34	161.366	79.411	15.286	1.00	44.47	A16S	19314	O2'	CYT	36	164.632	85.231	26.626	1.00	55.96	A
ATOM	19262	N1 CYT	34	160.204	80.204	15.703	1.00	45.73	A16S	19315	C3'	CYT	36	164.483	82.848	26.162	1.00	55.96	A
ATOM	19263	C6 CYT	34	158.982	79.617	15.895	1.00	45.73	A16S	19316	O3'	CYT	36	165.084	82.669	27.429	1.00	55.96	A
ATOM	19264	C2 CYT	34	160.367	81.578	15.896	1.00	45.73	A16S	19317	P	URI	37	164.330	81.797	28.538	1.00	52.72	A
ATOM	19265	O2 CYT	34	161.489	82.072	15.729	1.00	45.73	A16S	19318	O1P URI	URI	37	165.231	81.782	29.723	1.00	52.87	A
ATOM	19266	N3 CYT	34	159.301	82.326	16.262	1.00	45.73	A16S	19319	O2P URI	URI	37	163.882	80.517	27.909	1.00	52.87	A
ATOM	19267	C4 CYT	34	158.112	81.743	16.449	1.00	45.73	A16S	19320	O5'	URI	37	163.024	82.633	28.900	1.00	52.72	A
ATOM	19268	N4 CYT	34	157.093	82.510	16.828	1.00	45.73	A16S	19321	C5'	URI	37	163.126	83.974	29.360	1.00	52.72	A
ATOM	19269	C5 CYT	34	157.920	80.341	16.262	1.00	45.73	A16S	19322	C4'	URI	37	161.761	84.615	29.429	1.00	52.72	A
ATOM	19270	C2' CYT	34	162.252	78.999	16.456	1.00	44.47	A16S	19323	O4'	URI	37	161.250	84.895	28.097	1.00	52.72	A
ATOM	19271	O2' CYT	34	163.553	78.790	15.953	1.00	44.47	A16S	19324	C1'	URI	37	159.828	84.907	28.138	1.00	52.72	A
ATOM	19272	C3' CYT	34	161.608	77.684	16.848	1.00	44.47	A16S	19325	N1	URI	37	159.312	83.856	27.255	1.00	52.87	A
ATOM	19273	O3' CYT	34	162.494	76.863	17.579	1.00	44.47	A16S	19326	C6	URI	37	160.092	82.810	26.868	1.00	52.87	A
ATOM	19274	P GUA	35	162.577	77.007	19.174	1.00	51.03	A16S	19327	C2	URI	37	157.984	83.940	26.864	1.00	52.87	A
ATOM	19275	O1P GUA	35	163.611	76.041	19.605	1.00	48.09	A16S	19328	O2	URI	37	157.263	84.895	27.148	1.00	52.87	A
ATOM	19276	O2P GUA	35	161.224	76.946	19.765	1.00	48.09	A16S	19329	N3	URI	37	157.533	82.869	26.130	1.00	52.87	A
ATOM	19277	O5' GUA	35	163.178	78.462	19.407	1.00	51.03	A16S	19330	C4	URI	37	158.262	81.767	25.752	1.00	52.87	A
ATOM	19278	C5' GUA	35	164.552	78.718	19.142	1.00	51.03	A16S	19331	O4	URI	37	157.700	80.833	25.188	1.00	52.87	A
ATOM	19279	C4' GUA	35	164.930	80.077	19.649	1.00	51.03	A16S	19332	C5	URI	37	159.624	81.790	26.153	1.00	52.87	A
ATOM	19280	O4' GUA	35	164.234	81.088	18.883	1.00	51.03	A16S	19333	C2'	URI	37	159.431	84.569	29.573	1.00	52.72	A
ATOM	19281	C1' GUA	35	163.912	82.183	19.720	1.00	51.03	A16S	19334	O2'	URI	37	159.260	85.757	30.307	1.00	52.72	A
ATOM	19282	N9 GUA	35	162.463	82.317	19.735	1.00	48.09	A16S	19335	C3'	URI	37	160.647	83.785	30.030	1.00	52.72	A
ATOM	19283	C4 GUA	35	161.739	83.447	20.043	1.00	48.09	A16S	19336	O3'	URI	37	160.710	83.729	31.438	1.00	52.72	A
ATOM	19284	N3 GUA	35	162.244	84.641	20.412	1.00	48.09	A16S	19337	P	GUA	38	159.855	82.615	32.221	1.00	54.08	A
ATOM	19285	C2 GUA	35	161.294	85.533	20.631	1.00	48.09	A16S	19338	O1P GUA	GUA	38	160.032	82.890	33.667	1.00	61.01	A
ATOM	19286	N2 GUA	35	161.618	86.773	21.013	1.00	48.09	A16S	19339	O2P GUA	GUA	38	160.182	81.278	31.687	1.00	61.01	A
ATOM	19287	N1 GUA	35	159.958	85.274	20.495	1.00	48.09	A16S	19340	O5'	GUA	38	158.338	82.932	31.849	1.00	54.08	A
ATOM	19288	O6 GUA	35	159.414	84.053	20.123	1.00	48.09	A16S	19341	C5'	GUA	38	157.697	84.082	32.381	1.00	54.08	A
ATOM	19289	C6 GUA	35	158.188	83.923	20.040	1.00	48.09	A16S	19342	O4'	GUA	38	156.255	84.124	31.956	1.00	54.08	A
ATOM	19290	C5 GUA	35	160.420	83.086	19.888	1.00	48.09	A16S	19343	C4'	GUA	38	156.182	84.120	30.507	1.00	54.08	A
ATOM	19291	N7 GUA	35	160.314	81.754	19.512	1.00	48.09	A16S	19344	C1'	GUA	38	154.994	83.465	30.096	1.00	54.08	A
ATOM	19292	C8 GUA	35	161.549	81.340	19.433	1.00	48.09	A16S	19345	N9	GUA	38	155.373	82.300	29.307	1.00	61.01	A
ATOM	19293	C2' GUA	35	164.493	81.873	21.096	1.00	51.03	A16S	19346	C4	GUA	38	154.539	81.525	28.534	1.00	61.01	A
ATOM	19294	O2' GUA	35	165.810	82.364	21.153	1.00	51.03	A16S	19347	N3	GUA	38	153.218	81.723	28.343	1.00	61.01	A
ATOM	19295	C3' GUA	35	164.508	80.356	21.075	1.00	51.03	A16S	19348	C2	GUA	38	152.692	80.796	27.561	1.00	61.01	A
ATOM	19296	O3' GUA	35	165.476	79.852	21.978	1.00	51.03	A16S	19349	N2	GUA	38	151.393	80.834	27.246	1.00	61.01	A
ATOM	19297	P CYT	36	165.022	79.391	23.445	1.00	55.96	A16S	19350	N1	GUA	38	154.754	79.762	27.023	1.00	61.01	A
ATOM	19298	O1P CYT	36	166.163	78.655	24.029	1.00	42.00	A16S	19351	C6	GUA	38	153.398	79.540	27.203	1.00	61.01	A
ATOM	19299	O2P CYT	36	163.691	78.729	23.349	1.00	42.00	A16S	19352	O6	GUA	38	155.295	78.567	26.663	1.00	61.01	A
ATOM	19300	O5' CYT	36	164.860	80.763	24.231	1.00	55.96	A16S	19353	C5	GUA	38	155.338	80.524	28.029	1.00	61.01	A
ATOM	19301	C5' CYT	36	165.983	81.572	24.534	1.00	55.96	A16S	19354	N7	GUA	38	156.651	80.677	28.455	1.00	61.01	A
ATOM	19302	C4' CYT	36	165.519	82.910	25.052	1.00	55.96	A16S	19355	C8	GUA	38	156.625	81.743	29.207	1.00	61.01	A
ATOM	19303	O4' CYT	36	164.826	83.620	23.992	1.00	55.96	A16S	19356	C2'	GUA	38	154.250	83.065	31.371	1.00	54.08	A
ATOM	19304	C1' CYT	36	163.777	84.395	24.545	1.00	55.96	A16S	19357	O2'	GUA	38	153.357	84.093	31.751	1.00	54.08	A
ATOM	19305	N1 CYT	36	162.508	83.886	24.030	1.00	42.00	A16S	19358	C3'	GUA	38	155.404	82.933	32.349	1.00	54.08	A
ATOM	19306	C6 CYT	36	162.396	82.609	23.568	1.00	42.00	A16S	19359	O3'	GUA	38	154.948	83.075	33.682	1.00	54.08	A
ATOM	19307	C2 CYT	36	161.403	84.731	24.038	1.00	42.00	A16S	19360	P	GUA	39	154.702	81.769	34.586	1.00	54.50	A
ATOM	19308	O2 CYT	36	161.550	85.899	24.439	1.00	42.00	A16S	19361	O1P GUA	GUA	39	155.782	81.700	35.610	1.00	65.25	A
ATOM	19309	N3 CYT	36	160.208	84.265	23.610	1.00	42.00	A16S	19362	O2P GUA	GUA	39	154.464	80.611	33.687	1.00	65.25	A
ATOM	19310	C4 CYT	36	160.106	83.014	23.177	1.00	42.00	A16S	19363	O5'	GUA	39	153.343	82.104	35.337	1.00	54.50	A

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ATOM 19364	C5' GUA	39	152.110	82.015	34.654	1.00	54.50	Al6S	ATOM 19417	C6 GUA	41	142.129	85.875	28.189	1.00	65.76
ATOM 19365	C4' GUA	39	151.017	82.643	35.470	1.00	54.50	Al6S	ATOM 19418	O6 GUA	41	143.175	85.867	27.527	1.00	65.76
ATOM 19366	O4' GUA	39	151.253	84.073	35.554	1.00	54.50	Al6S	ATOM 19419	C5 GUA	41	141.846	85.195	29.399	1.00	65.76
ATOM 19367	C1' GUA	39	150.011	84.767	35.494	1.00	54.50	Al6S	ATOM 19420	N7 GUA	41	142.641	84.355	30.165	1.00	65.76
ATOM 19368	N9 GUA	39	149.976	85.575	34.278	1.00	65.25	Al6S	ATOM 19421	C8 GUA	41	141.880	84.021	31.169	1.00	65.76
ATOM 19369	C4 GUA	39	149.008	86.494	33.950	1.00	65.25	Al6S	ATOM 19422	C2' GUA	41	138.386	83.580	31.496	1.00	60.14
ATOM 19370	N3 GUA	39	147.946	86.826	34.709	1.00	65.25	Al6S	ATOM 19423	O2' GUA	41	137.156	84.057	31.998	1.00	60.14
ATOM 19371	C2 GUA	39	147.180	87.722	34.120	1.00	65.25	Al6S	ATOM 19424	C3' GUA	41	138.718	82.199	32.042	1.00	60.14
ATOM 19372	N2 GUA	39	146.077	88.157	34.734	1.00	65.25	Al6S	ATOM 19425	O3' GUA	41	137.533	81.436	32.183	1.00	60.14
ATOM 19373	N1 GUA	39	147.435	88.255	32.886	1.00	65.25	Al6S	ATOM 19426	P GUA	42	137.011	80.549	30.959	1.00	51.86
ATOM 19374	C6 GUA	39	148.520	87.931	32.087	1.00	65.25	Al6S	ATOM 19427	O1P GUA	42	135.914	79.684	31.457	1.00	61.50
ATOM 19375	O6 GUA	39	148.648	88.469	30.989	1.00	65.25	Al6S	ATOM 19428	O2P GUA	42	138.180	79.934	30.296	1.00	61.50
ATOM 19376	C5 GUA	39	149.356	86.968	32.707	1.00	65.25	Al6S	ATOM 19429	O5' GUA	42	136.393	81.611	29.955	1.00	51.86
ATOM 19377	N7 GUA	39	150.533	86.376	32.267	1.00	65.25	Al6S	ATOM 19430	C5' GUA	42	135.160	82.242	30.239	1.00	51.86
ATOM 19378	C8 GUA	39	150.866	85.561	33.233	1.00	65.25	Al6S	ATOM 19431	C4' GUA	42	134.812	83.211	29.138	1.00	51.86
ATOM 19379	C2' GUA	39	148.912	83.706	35.456	1.00	54.50	Al6S	ATOM 19432	O4' GUA	42	135.820	84.253	29.067	1.00	51.86
ATOM 19380	O2' GUA	39	148.438	83.415	36.753	1.00	54.50	Al6S	ATOM 19433	C1' GUA	42	135.942	84.693	27.730	1.00	51.86
ATOM 19381	C3' GUA	39	149.657	82.555	34.812	1.00	54.50	Al6S	ATOM 19434	N9 GUA	42	137.300	84.433	27.282	1.00	61.50
ATOM 19382	O3' GUA	39	149.034	81.312	35.035	1.00	54.50	Al6S	ATOM 19435	C4 GUA	42	137.895	85.001	26.190	1.00	61.50
ATOM 19383	P CYT	40	148.017	80.759	33.942	1.00	72.53	Al6S	ATOM 19436	N3 GUA	42	137.330	85.913	25.370	1.00	61.50
ATOM 19384	O1P CYT	40	147.794	79.312	34.191	1.00	67.18	Al6S	ATOM 19437	C2 GUA	42	138.143	86.265	24.390	1.00	61.50
ATOM 19385	O2P CYT	40	148.532	81.211	32.627	1.00	67.18	Al6S	ATOM 19438	N2 GUA	42	137.731	87.156	23.474	1.00	61.50
ATOM 19386	O5' CYT	40	146.678	81.557	34.250	1.00	72.53	Al6S	ATOM 19439	N1 GUA	42	139.414	85.766	24.234	1.00	61.50
ATOM 19387	C5' CYT	40	146.191	81.632	35.578	1.00	72.53	Al6S	ATOM 19440	C6 GUA	42	140.014	84.831	25.072	1.00	61.50
ATOM 19388	O4' CYT	40	144.969	82.504	35.643	1.00	72.53	Al6S	ATOM 19441	O6 GUA	42	141.165	84.448	24.844	1.00	61.50
ATOM 19389	O4' CYT	40	145.335	83.892	35.431	1.00	72.53	Al6S	ATOM 19442	C5 GUA	42	139.148	84.440	26.124	1.00	61.50
ATOM 19390	C1' CYT	40	144.233	84.579	34.864	1.00	72.53	Al6S	ATOM 19443	N7 GUA	42	139.341	83.544	27.167	1.00	61.50
ATOM 19391	N1 CYT	40	144.648	85.159	33.580	1.00	67.18	Al6S	ATOM 19444	C8 GUA	42	138.220	83.578	27.831	1.00	61.50
ATOM 19392	C6 CYT	40	145.816	84.788	32.982	1.00	67.18	Al6S	ATOM 19445	C2' GUA	42	134.937	83.901	26.899	1.00	51.86
ATOM 19393	C2' CYT	40	143.816	86.093	32.976	1.00	67.18	Al6S	ATOM 19446	O2' GUA	42	133.730	84.619	26.834	1.00	51.86
ATOM 19394	O2 CYT	40	142.761	86.415	33.549	1.00	67.18	Al6S	ATOM 19447	C3' GUA	42	134.792	82.643	27.733	1.00	51.86
ATOM 19395	N3 CYT	40	144.170	86.621	31.787	1.00	67.18	Al6S	ATOM 19448	O3' GUA	42	133.548	82.027	27.474	1.00	51.86
ATOM 19396	C4 CYT	40	145.303	86.243	31.202	1.00	67.18	Al6S	ATOM 19449	P CYT	43	133.469	80.789	26.460	1.00	48.10
ATOM 19397	N4 CYT	40	145.600	86.774	30.021	1.00	67.18	Al6S	ATOM 19450	O1P CYT	43	132.096	80.237	26.629	1.00	48.48
ATOM 19398	C5 CYT	40	146.178	85.300	31.800	1.00	67.18	Al6S	ATOM 19451	O2P CYT	43	134.652	79.904	26.652	1.00	48.48
ATOM 19399	C2' CYT	40	143.112	83.552	34.689	1.00	72.53	Al6S	ATOM 19452	O5' CYT	43	133.587	81.439	25.007	1.00	48.10
ATOM 19400	O2' CYT	40	142.292	83.556	35.838	1.00	72.53	Al6S	ATOM 19453	C5' CYT	43	132.621	82.366	24.525	1.00	48.10
ATOM 19401	C3' CYT	40	143.913	82.266	34.583	1.00	72.53	Al6S	ATOM 19454	C4' CYT	43	133.180	83.137	23.345	1.00	48.10
ATOM 19402	O3' CYT	40	143.118	81.119	34.857	1.00	72.53	Al6S	ATOM 19455	O4' CYT	43	134.355	83.888	23.761	1.00	48.10
ATOM 19403	P GUA	41	142.482	80.287	33.636	1.00	60.14	Al6S	ATOM 19456	C1' CYT	43	135.288	83.949	22.690	1.00	48.10
ATOM 19404	O1P GUA	41	141.906	79.037	34.196	1.00	65.76	Al6S	ATOM 19457	N1 CYT	43	136.515	83.262	23.101	1.00	48.48
ATOM 19405	O2P GUA	41	143.497	80.211	32.554	1.00	65.76	Al6S	ATOM 19458	C6 CYT	43	136.540	82.479	24.218	1.00	48.48
ATOM 19406	O5' GUA	41	141.273	81.196	33.142	1.00	60.14	Al6S	ATOM 19459	C2 CYT	43	137.656	83.407	22.319	1.00	48.48
ATOM 19407	C5' GUA	41	140.194	81.485	34.017	1.00	60.14	Al6S	ATOM 19460	O2 CYT	43	137.606	84.142	21.334	1.00	48.48
ATOM 19408	C4' GUA	41	139.291	82.529	33.410	1.00	60.14	Al6S	ATOM 19461	N3 CYT	43	138.780	82.736	22.655	1.00	48.48
ATOM 19409	O4' GUA	41	140.041	83.752	33.200	1.00	60.14	Al6S	ATOM 19462	C4 CYT	43	138.780	81.940	23.726	1.00	48.48
ATOM 19410	C1' GUA	41	139.538	84.420	32.056	1.00	60.14	Al6S	ATOM 19463	N4 CYT	43	139.880	81.250	23.994	1.00	48.48
ATOM 19411	N9 GUA	41	140.631	84.587	31.108	1.00	65.76	Al6S	ATOM 19464	C5 CYT	43	137.640	81.804	24.561	1.00	48.48
ATOM 19412	C4 GUA	41	140.603	85.346	29.970	1.00	65.76	Al6S	ATOM 19465	C2' CYT	43	134.643	83.256	21.495	1.00	48.10
ATOM 19413	N3 GUA	41	139.558	86.075	29.534	1.00	65.76	Al6S	ATOM 19466	O2' CYT	43	133.941	84.200	20.724	1.00	48.10
ATOM 19414	C2 GUA	41	139.830	86.701	28.404	1.00	65.76	Al6S	ATOM 19467	C3' CYT	43	133.694	82.296	22.191	1.00	48.10
ATOM 19415	N2 GUA	41	138.893	87.464	27.823	1.00	65.76	Al6S	ATOM 19468	O3' CYT	43	132.654	81.890	21.318	1.00	48.10
ATOM 19416	N1 GUA	41	141.039	86.623	27.756	1.00	65.76	Al6S	ATOM 19469	P GUA	44	132.759	80.464	20.585	1.00	54.33

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ATOM	19470	01P	GUA	44	131.494	80.322	19.807	1.00	48.48	Al6S	ATOM	19523	C2	GUA	46	144.070	72.914	19.389	1.00	46.17	A
ATOM	19471	02P	GUA	44	133.139	79.435	21.585	1.00	48.48	Al6S	ATOM	19524	N2	GUA	46	145.014	72.460	20.207	1.00	46.17	A
ATOM	19472	05'	GUA	44	134.002	80.590	19.593	1.00	54.33	Al6S	ATOM	19525	N1	GUA	46	142.789	72.841	19.851	1.00	46.17	A
ATOM	19473	C5'	GUA	44	133.853	81.243	18.349	1.00	54.33	Al6S	ATOM	19526	C6	GUA	46	141.663	73.239	19.149	1.00	46.17	A
ATOM	19474	C4'	GUA	44	135.193	81.630	17.777	1.00	54.33	Al6S	ATOM	19527	06	GUA	46	140.537	73.134	19.670	1.00	46.17	A
ATOM	19475	04'	GUA	44	136.081	82.063	18.835	1.00	54.33	Al6S	ATOM	19528	C5	GUA	46	142.002	73.734	17.866	1.00	46.17	A
ATOM	19476	C1'	GUA	44	137.416	81.974	18.369	1.00	54.33	Al6S	ATOM	19529	N7	GUA	46	141.196	74.215	16.843	1.00	46.17	A
ATOM	19477	N9	GUA	44	138.220	81.241	19.338	1.00	48.48	Al6S	ATOM	19530	C8	GUA	46	142.034	74.540	15.898	1.00	46.17	A
ATOM	19478	C4	GUA	44	139.577	81.081	19.287	1.00	48.48	Al6S	ATOM	19531	C2'	GUA	46	144.807	73.287	14.520	1.00	49.77	A
ATOM	19479	N3	GUA	44	140.392	81.585	18.342	1.00	48.48	Al6S	ATOM	19532	02'	GUA	46	146.170	73.299	14.182	1.00	49.77	A
ATOM	19480	C2	GUA	44	141.650	81.261	18.558	1.00	48.48	Al6S	ATOM	19533	C3'	GUA	46	143.909	73.580	13.331	1.00	49.77	A
ATOM	19481	N2	GUA	44	142.600	81.706	17.731	1.00	48.48	Al6S	ATOM	19534	03'	GUA	46	144.267	72.840	12.176	1.00	49.77	A
ATOM	19482	N1	GUA	44	142.073	80.489	19.607	1.00	48.48	Al6S	ATOM	19535	P	CYT	47	143.398	71.565	11.758	1.00	59.88	A
ATOM	19483	C6	GUA	44	141.250	79.959	20.590	1.00	48.48	Al6S	ATOM	19536	01P	CYT	47	142.148	71.999	11.098	1.00	58.96	A
ATOM	19484	06	GUA	44	141.739	79.279	21.500	1.00	48.48	Al6S	ATOM	19537	02P	CYT	47	143.323	70.684	12.939	1.00	58.96	A
ATOM	19485	C5	GUA	44	139.897	80.309	20.375	1.00	48.48	Al6S	ATOM	19538	05'	CYT	47	144.302	70.866	10.661	1.00	59.88	A
ATOM	19486	N7	GUA	44	138.762	79.992	21.100	1.00	48.48	Al6S	ATOM	19539	C5'	CYT	47	145.524	70.261	11.023	1.00	59.88	A
ATOM	19487	C8	GUA	44	137.791	80.567	20.449	1.00	48.48	Al6S	ATOM	19540	C4'	CYT	47	146.459	70.225	9.843	1.00	59.88	A
ATOM	19488	C2'	GUA	44	137.373	81.255	17.020	1.00	54.33	Al6S	ATOM	19541	04'	CYT	47	147.752	69.802	10.292	1.00	59.88	A
ATOM	19489	02'	GUA	44	137.414	82.222	15.999	1.00	54.33	Al6S	ATOM	19542	C1'	CYT	47	148.346	68.999	9.314	1.00	59.88	A
ATOM	19490	C3'	GUA	44	136.017	80.568	17.077	1.00	54.33	Al6S	ATOM	19543	N1	CYT	47	149.100	67.948	10.007	1.00	58.96	A
ATOM	19491	03'	GUA	44	135.535	80.354	15.752	1.00	54.33	Al6S	ATOM	19544	C6	CYT	47	148.782	67.604	11.292	1.00	58.96	A
ATOM	19492	P	URI	45	135.705	78.908	15.054	1.00	43.94	Al6S	ATOM	19545	C2	CYT	47	150.199	67.369	9.374	1.00	58.96	A
ATOM	19493	01P	URI	45	135.146	79.039	13.683	1.00	65.38	Al6S	ATOM	19546	02	CYT	47	150.396	67.605	8.174	1.00	58.96	A
ATOM	19494	02P	URI	45	135.165	77.865	15.971	1.00	65.38	Al6S	ATOM	19547	N3	CYT	47	151.012	66.560	10.086	1.00	58.96	A
ATOM	19495	05'	URI	45	137.283	78.720	14.940	1.00	43.94	Al6S	ATOM	19548	C4	CYT	47	150.735	66.291	11.365	1.00	58.96	A
ATOM	19496	C5'	URI	45	138.057	79.496	14.033	1.00	43.94	Al6S	ATOM	19549	N4	CYT	47	151.600	65.544	12.046	1.00	58.96	A
ATOM	19497	C4'	URI	45	139.536	79.358	14.352	1.00	43.94	Al6S	ATOM	19550	C5	CYT	47	149.567	66.791	12.003	1.00	58.96	A
ATOM	19498	04'	URI	45	139.769	79.729	15.739	1.00	43.94	Al6S	ATOM	19551	C2'	CYT	47	147.370	68.743	8.156	1.00	59.88	A
ATOM	19499	C1'	URI	45	140.854	78.972	16.253	1.00	43.94	Al6S	ATOM	19552	02'	CYT	47	147.884	69.419	7.024	1.00	59.88	A
ATOM	19500	N1	URI	45	140.371	78.161	17.377	1.00	65.38	Al6S	ATOM	19553	C3'	CYT	47	146.049	69.318	8.693	1.00	59.88	A
ATOM	19501	C6	URI	45	139.033	78.002	17.630	1.00	65.38	Al6S	ATOM	19554	03'	CYT	47	145.261	70.192	7.852	1.00	59.88	A
ATOM	19502	C2	URI	45	141.320	77.557	18.161	1.00	65.38	Al6S	ATOM	19555	P	CYT	48	145.472	70.274	6.257	1.00	48.03	A
ATOM	19503	02	URI	45	142.509	77.678	17.953	1.00	65.38	Al6S	ATOM	19556	01P	CYT	48	144.284	71.016	5.781	1.00	86.41	A
ATOM	19504	N3	URI	45	140.828	76.803	19.191	1.00	65.38	Al6S	ATOM	19557	02P	CYT	48	145.789	68.950	5.664	1.00	86.41	A
ATOM	19505	C4	URI	45	139.501	76.598	19.505	1.00	65.38	Al6S	ATOM	19558	05'	CYT	48	146.721	71.227	6.048	1.00	48.03	A
ATOM	19506	04	URI	45	139.207	75.894	20.478	1.00	65.38	Al6S	ATOM	19559	C5'	CYT	48	146.550	72.561	5.574	1.00	48.03	A
ATOM	19507	C5	URI	45	138.575	77.260	18.639	1.00	65.38	Al6S	ATOM	19560	C4'	CYT	48	147.634	72.918	4.569	1.00	48.03	A
ATOM	19508	C2'	URI	45	141.378	78.088	15.120	1.00	43.94	Al6S	ATOM	19561	04'	CYT	48	147.859	74.340	4.597	1.00	48.03	A
ATOM	19509	02'	URI	45	142.467	78.722	14.485	1.00	43.94	Al6S	ATOM	19562	C1'	CYT	48	149.232	74.621	4.715	1.00	48.03	A
ATOM	19510	C3'	URI	45	140.141	77.962	14.248	1.00	43.94	Al6S	ATOM	19563	N1	CYT	48	149.382	75.498	5.875	1.00	86.41	A
ATOM	19511	03'	URI	45	140.491	77.644	12.915	1.00	43.94	Al6S	ATOM	19564	C6	CYT	48	148.970	75.109	7.114	1.00	86.41	A
ATOM	19512	P	GUA	46	140.413	76.125	12.418	1.00	49.77	Al6S	ATOM	19565	C2	CYT	48	149.908	76.762	5.675	1.00	86.41	A
ATOM	19513	01P	GUA	46	140.574	76.147	10.948	1.00	46.17	Al6S	ATOM	19566	02	CYT	48	150.331	77.054	4.549	1.00	86.41	A
ATOM	19514	02P	GUA	46	139.219	75.473	13.001	1.00	46.17	Al6S	ATOM	19567	N3	CYT	48	149.944	77.635	6.701	1.00	86.41	A
ATOM	19515	05'	GUA	46	141.746	75.487	13.012	1.00	49.77	Al6S	ATOM	19568	C4	CYT	48	149.491	77.269	7.897	1.00	86.41	A
ATOM	19516	C5'	GUA	46	143.020	75.802	12.431	1.00	49.77	Al6S	ATOM	19569	N4	CYT	48	149.494	78.180	8.874	1.00	86.41	A
ATOM	19517	C4'	GUA	46	144.132	75.069	13.145	1.00	49.77	Al6S	ATOM	19570	C5	CYT	48	149.002	75.958	8.143	1.00	86.41	A
ATOM	19518	04'	GUA	46	144.249	75.574	14.502	1.00	49.77	Al6S	ATOM	19571	C2'	CYT	48	150.039	73.322	4.663	1.00	48.03	A
ATOM	19519	C1'	GUA	46	144.520	74.502	15.394	1.00	49.77	Al6S	ATOM	19572	02'	CYT	48	150.786	73.266	3.476	1.00	48.03	A
ATOM	19520	N9	GUA	46	143.343	74.290	16.230	1.00	46.17	Al6S	ATOM	19573	C3'	CYT	48	148.963	72.246	4.841	1.00	48.03	A
ATOM	19521	C4	GUA	46	143.328	73.776	17.503	1.00	46.17	Al6S	ATOM	19574	03'	CYT	48	148.996	71.068	4.009	1.00	48.03	A
ATOM	19522	N3	GUA	46	144.404	73.390	18.211	1.00	46.17	Al6S	ATOM	19575	P	URI	49	149.479	71.139	2.463	1.00	81.55	A

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ATOM	19576	O1P	URI	49	148.823	69.991	1.795	1.00	46.65	Al6S	ATOM	19629	N1	ADE	51	139.574	63.044	-3.826	1.00	56.64
ATOM	19577	O2P	URI	49	149.338	72.482	1.879	1.00	46.65	Al6S	ATOM	19630	C6	ADE	51	139.713	63.923	-2.820	1.00	56.64
ATOM	19578	O5	URI	49	151.031	70.837	2.576	1.00	81.55	Al6S	ATOM	19631	N6	ADE	51	138.689	64.721	-2.528	1.00	56.64
ATOM	19579	C5	URI	49	151.832	70.600	1.438	1.00	81.55	Al6S	ATOM	19632	C5	ADE	51	140.928	63.936	-2.133	1.00	56.64
ATOM	19580	C4	URI	49	152.878	69.582	1.789	1.00	81.55	Al6S	ATOM	19633	N7	ADE	51	141.387	64.698	-1.073	1.00	56.64
ATOM	19581	O4	URI	49	153.354	69.885	3.108	1.00	81.55	Al6S	ATOM	19634	C8	ADE	51	142.591	64.232	-0.845	1.00	56.64
ATOM	19582	C1	URI	49	153.667	68.700	3.785	1.00	81.55	Al6S	ATOM	19635	C2	ADE	51	145.244	62.783	-2.670	1.00	54.43
ATOM	19583	N1	URI	49	153.257	68.873	5.182	1.00	46.65	Al6S	ATOM	19636	O2	ADE	51	145.459	61.743	-3.589	1.00	54.43
ATOM	19584	C6	URI	49	152.058	69.433	5.503	1.00	46.65	Al6S	ATOM	19637	C3	ADE	51	146.448	63.159	-1.811	1.00	54.43
ATOM	19585	C2	URI	49	154.159	68.506	6.170	1.00	46.65	Al6S	ATOM	19638	O3	ADE	51	147.726	62.666	-2.245	1.00	54.43
ATOM	19586	O2	URI	49	155.220	67.962	5.936	1.00	46.65	Al6S	ATOM	19639	P	GUA	52	148.061	61.080	-2.171	1.00	53.30
ATOM	19587	N3	URI	49	153.778	68.806	7.447	1.00	46.65	Al6S	ATOM	19640	O1P	GUA	52	146.814	60.287	-2.128	1.00	73.94
ATOM	19588	C4	URI	49	152.611	69.405	7.835	1.00	46.65	Al6S	ATOM	19641	O2P	GUA	52	149.079	60.785	-3.202	1.00	73.94
ATOM	19589	O4	URI	49	152.426	69.632	9.023	1.00	46.65	Al6S	ATOM	19642	O5	GUA	52	148.727	60.872	-0.741	1.00	53.30
ATOM	19590	C5	URI	49	151.710	69.713	6.764	1.00	46.65	Al6S	ATOM	19643	C5	GUA	52	148.120	59.996	0.207	1.00	53.30
ATOM	19591	C2	URI	49	153.201	67.496	2.954	1.00	81.55	Al6S	ATOM	19644	C4	GUA	52	149.076	58.897	0.598	1.00	53.30
ATOM	19592	O2	URI	49	154.358	66.835	2.479	1.00	81.55	Al6S	ATOM	19645	O4	GUA	52	150.052	59.403	1.550	1.00	53.30
ATOM	19593	C3	URI	49	152.371	68.154	1.842	1.00	81.55	Al6S	ATOM	19646	C1	GUA	52	150.399	58.371	2.467	1.00	53.30
ATOM	19594	O3	URI	49	152.647	67.705	0.507	1.00	81.55	Al6S	ATOM	19647	N9	GUA	52	150.016	58.805	3.805	1.00	73.94
ATOM	19595	P	ADE	50	152.718	66.143	0.146	1.00	71.51	Al6S	ATOM	19648	C4	GUA	52	150.589	58.418	4.989	1.00	73.94
ATOM	19596	O1P	ADE	50	152.379	66.094	-1.296	1.00	59.21	Al6S	ATOM	19649	N3	GUA	52	151.567	57.502	5.135	1.00	73.94
ATOM	19597	O2P	ADE	50	154.015	65.588	0.599	1.00	59.21	Al6S	ATOM	19650	C2	GUA	52	151.917	57.349	6.406	1.00	73.94
ATOM	19598	O5	ADE	50	151.520	65.498	0.976	1.00	71.51	Al6S	ATOM	19651	N2	GUA	52	152.854	56.457	6.744	1.00	73.94
ATOM	19599	C5	ADE	50	150.566	64.644	0.349	1.00	71.51	Al6S	ATOM	19652	N1	GUA	52	151.369	58.055	7.439	1.00	73.94
ATOM	19600	C4	ADE	50	150.598	63.314	1.020	1.00	71.51	Al6S	ATOM	19653	C6	GUA	52	150.368	59.008	7.312	1.00	73.94
ATOM	19601	O4	ADE	50	151.952	62.857	0.945	1.00	71.51	Al6S	ATOM	19654	O6	GUA	52	149.958	59.604	8.314	1.00	73.94
ATOM	19602	C1	ADE	50	152.200	62.061	2.056	1.00	71.51	Al6S	ATOM	19655	C5	GUA	52	149.959	59.160	5.961	1.00	73.94
ATOM	19603	N9	ADE	50	153.629	61.955	2.281	1.00	59.21	Al6S	ATOM	19656	N7	GUA	52	148.974	59.962	5.406	1.00	73.94
ATOM	19604	C4	ADE	50	154.220	61.008	3.072	1.00	59.21	Al6S	ATOM	19657	C8	GUA	52	149.034	59.709	4.129	1.00	73.94
ATOM	19605	N3	ADE	50	153.605	60.076	3.816	1.00	59.21	Al6S	ATOM	19658	C2	GUA	52	149.660	57.113	2.010	1.00	53.30
ATOM	19606	C2	ADE	50	154.495	59.305	4.418	1.00	59.21	Al6S	ATOM	19659	O2	GUA	52	150.453	56.410	1.073	1.00	53.30
ATOM	19607	N1	ADE	50	155.827	59.354	4.360	1.00	59.21	Al6S	ATOM	19660	C3	GUA	52	148.450	57.721	1.324	1.00	53.30
ATOM	19608	C6	ADE	50	156.408	60.306	3.601	1.00	59.21	Al6S	ATOM	19661	O3	GUA	52	147.906	56.807	0.384	1.00	53.30
ATOM	19609	N6	ADE	50	157.735	60.356	3.540	1.00	59.21	Al6S	ATOM	19662	P	ADE	53	146.869	55.685	0.877	1.00	54.14
ATOM	19610	C5	ADE	50	155.576	61.186	2.920	1.00	59.21	Al6S	ATOM	19663	O1P	ADE	53	146.737	54.710	-0.236	1.00	70.34
ATOM	19611	N7	ADE	50	155.839	62.255	2.078	1.00	59.21	Al6S	ATOM	19664	O2P	ADE	53	145.642	56.342	1.432	1.00	70.34
ATOM	19612	C8	ADE	50	154.650	62.684	1.738	1.00	59.21	Al6S	ATOM	19665	O5	ADE	53	147.652	54.974	2.065	1.00	54.14
ATOM	19613	C2	ADE	50	151.290	62.490	3.202	1.00	71.51	Al6S	ATOM	19666	C5	ADE	53	148.783	54.155	1.796	1.00	54.14
ATOM	19614	O2	ADE	50	150.783	61.315	3.778	1.00	71.51	Al6S	ATOM	19667	C4	ADE	53	149.264	53.508	3.062	1.00	54.14
ATOM	19615	C3	ADE	50	150.246	63.376	2.504	1.00	71.51	Al6S	ATOM	19668	O4	ADE	53	149.828	54.509	3.947	1.00	54.14
ATOM	19616	O3	ADE	50	148.971	62.737	2.646	1.00	71.51	Al6S	ATOM	19669	C1	ADE	53	149.568	54.152	5.294	1.00	54.14
ATOM	19617	P	ADE	51	147.648	63.579	3.004	1.00	54.43	Al6S	ATOM	19670	N9	ADE	53	148.789	55.224	5.904	1.00	70.34
ATOM	19618	O1P	ADE	51	147.151	63.092	4.320	1.00	56.64	Al6S	ATOM	19671	C4	ADE	53	148.705	55.497	7.244	1.00	70.34
ATOM	19619	O2P	ADE	51	147.934	65.021	2.820	1.00	56.64	Al6S	ATOM	19672	N3	ADE	53	149.325	54.855	8.245	1.00	70.34
ATOM	19620	O5	ADE	51	146.584	63.112	1.909	1.00	54.43	Al6S	ATOM	19673	C2	ADE	53	149.000	55.388	9.417	1.00	70.34
ATOM	19621	C5	ADE	51	146.652	63.634	0.602	1.00	54.43	Al6S	ATOM	19674	N1	ADE	53	148.189	56.409	9.680	1.00	70.34
ATOM	19622	C4	ADE	51	146.160	62.638	-0.416	1.00	54.43	Al6S	ATOM	19675	C6	ADE	53	147.582	57.033	8.649	1.00	70.34
ATOM	19623	O4	ADE	51	144.729	62.503	-0.334	1.00	54.43	Al6S	ATOM	19676	N6	ADE	53	146.768	58.056	7.357	1.00	70.34
ATOM	19624	C1	ADE	51	144.181	62.418	-1.634	1.00	54.43	Al6S	ATOM	19677	C5	ADE	53	147.845	56.565	6.110	1.00	70.34
ATOM	19625	N9	ADE	51	142.950	63.203	-1.674	1.00	56.64	Al6S	ATOM	19678	N7	ADE	53	147.399	56.969	5.284	1.00	70.34
ATOM	19626	C4	ADE	51	141.887	63.026	-2.529	1.00	56.64	Al6S	ATOM	19679	C8	ADE	53	147.989	56.144	5.260	1.00	54.14
ATOM	19627	N3	ADE	51	141.779	62.133	-3.523	1.00	56.64	Al6S	ATOM	19680	O2	ADE	53	148.793	52.834	5.361	1.00	54.14
ATOM	19628	C2	ADE	51	140.590	62.228	-4.105	1.00	56.64	Al6S	ATOM	19681	O2	ADE	53	149.687	51.756		1.00	54.14

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ATOM	19682	C3' ADE	53	148.157	52.902	3.885	1.00	54.14	Al6S	ATOM	19735	C6	URI	56	141.932	50.073	15.798	1.00	74.03	A
ATOM	19683	O3' ADE	53	147.786	51.636	3.388	1.00	54.14	Al6S	ATOM	19736	C2	URI	56	141.498	51.735	17.466	1.00	74.03	A
ATOM	19684	P	54	146.388	51.001	3.843	1.00	47.90	Al6S	ATOM	19737	O2	URI	56	141.323	52.085	18.617	1.00	74.03	A
ATOM	19685	O1P	54	146.332	49.642	3.249	1.00	57.30	Al6S	ATOM	19738	N3	URI	56	141.487	52.622	16.422	1.00	74.03	A
ATOM	19686	O2P	54	145.285	51.956	3.572	1.00	57.30	Al6S	ATOM	19739	C4	URI	56	141.674	52.341	15.090	1.00	74.03	A
ATOM	19687	O5' CYT	54	146.571	50.901	5.421	1.00	47.90	Al6S	ATOM	19740	O4	URI	56	141.563	53.245	14.261	1.00	74.03	A
ATOM	19688	C5' CYT	54	145.466	50.908	6.302	1.00	47.90	Al6S	ATOM	19741	C5	URI	56	141.915	50.962	14.803	1.00	74.03	A
ATOM	19689	C4' CYT	54	145.961	51.067	7.713	1.00	47.90	Al6S	ATOM	19742	C2' URI	56	140.327	48.847	18.455	1.00	54.08	A	
ATOM	19690	O4' CYT	54	146.605	52.359	7.849	1.00	47.90	Al6S	ATOM	19743	O2' URI	56	140.128	48.514	19.816	1.00	54.08	A	
ATOM	19691	C1' CYT	54	146.426	52.842	9.171	1.00	47.90	Al6S	ATOM	19744	C3' URI	56	140.337	47.616	17.572	1.00	54.08	A	
ATOM	19692	N1	54	145.715	54.123	9.111	1.00	57.30	Al6S	ATOM	19745	O3' URI	56	139.400	46.672	18.034	1.00	54.08	A	
ATOM	19693	C6	54	145.074	54.514	7.976	1.00	57.30	Al6S	ATOM	19746	P	GUA	57	137.871	46.830	17.609	1.00	56.53	A
ATOM	19694	C2	54	145.687	54.926	10.249	1.00	57.30	Al6S	ATOM	19747	O1P	GUA	57	137.116	45.632	18.062	1.00	76.80	A
ATOM	19695	O2	54	146.306	54.560	11.261	1.00	57.30	Al6S	ATOM	19748	O2P	GUA	57	137.854	47.209	16.172	1.00	76.80	A
ATOM	19696	N3	54	144.995	56.078	10.223	1.00	57.30	Al6S	ATOM	19749	O5' GUA	57	137.381	48.076	18.464	1.00	56.53	A	
ATOM	19697	C4	54	144.350	56.437	9.120	1.00	57.30	Al6S	ATOM	19750	C5' GUA	57	137.029	47.923	19.824	1.00	56.53	A	
ATOM	19698	N4	54	143.657	57.564	9.150	1.00	57.30	Al6S	ATOM	19751	C4' GUA	57	136.319	49.156	20.311	1.00	56.53	A	
ATOM	19699	C5	54	143.382	55.651	7.939	1.00	57.30	Al6S	ATOM	19752	O4' GUA	57	137.239	50.277	20.231	1.00	56.53	A	
ATOM	19700	C2' CYT	54	145.614	51.797	9.938	1.00	47.90	Al6S	ATOM	19753	C1' GUA	57	136.534	51.444	19.842	1.00	56.53	A	
ATOM	19701	O2' CYT	54	146.496	51.015	10.717	1.00	47.90	Al6S	ATOM	19754	N9	GUA	57	137.017	51.847	18.525	1.00	76.80	A
ATOM	19702	C3' CYT	54	144.905	51.066	8.799	1.00	47.90	Al6S	ATOM	19755	C4	GUA	57	137.061	53.126	18.034	1.00	76.80	A
ATOM	19703	O3' CYT	54	144.566	49.725	9.121	1.00	47.90	Al6S	ATOM	19756	N3	GUA	57	136.682	54.240	18.594	1.00	76.80	A
ATOM	19704	P	55	143.480	49.425	10.262	1.00	49.60	Al6S	ATOM	19757	C2	GUA	57	136.854	55.324	17.966	1.00	76.80	A
ATOM	19705	O1P	55	142.848	48.126	9.918	1.00	72.69	Al6S	ATOM	19758	N2	GUA	57	136.537	56.525	18.473	1.00	76.80	A
ATOM	19706	O2P	55	142.631	50.631	10.451	1.00	72.69	Al6S	ATOM	19759	N1	GUA	57	137.351	55.314	16.690	1.00	76.80	A
ATOM	19707	O5' ADE	55	144.351	49.224	11.582	1.00	49.60	Al6S	ATOM	19760	C6	GUA	57	137.739	54.183	15.991	1.00	76.80	A
ATOM	19708	C5' ADE	55	145.287	48.159	11.682	1.00	49.60	Al6S	ATOM	19761	O6	GUA	57	138.167	54.290	14.843	1.00	76.80	A
ATOM	19709	C4' ADE	55	145.505	47.801	13.125	1.00	49.60	Al6S	ATOM	19762	C5	GUA	57	137.568	53.012	16.760	1.00	76.80	A
ATOM	19710	O4' ADE	55	146.304	48.812	13.781	1.00	49.60	Al6S	ATOM	19763	N7	GUA	57	137.841	51.685	16.455	1.00	76.80	A
ATOM	19711	C1' ADE	55	145.928	48.890	15.147	1.00	49.60	Al6S	ATOM	19764	C8	GUA	57	137.502	51.032	17.531	1.00	76.80	A
ATOM	19712	N9	55	145.597	50.278	15.463	1.00	72.69	Al6S	ATOM	19765	C2' GUA	57	135.049	51.073	19.817	1.00	56.53	A	
ATOM	19713	C4	55	145.185	50.739	16.686	1.00	72.69	Al6S	ATOM	19766	O2' GUA	57	134.473	51.300	21.087	1.00	56.53	A	
ATOM	19714	N3	55	145.001	50.021	17.803	1.00	72.69	Al6S	ATOM	19767	C3' GUA	57	135.129	49.594	19.477	1.00	56.53	A	
ATOM	19715	C2	55	144.597	50.801	18.801	1.00	72.69	Al6S	ATOM	19768	O3' GUA	57	133.940	48.920	19.847	1.00	56.53	A	
ATOM	19716	N1	55	144.377	52.117	18.810	1.00	72.69	Al6S	ATOM	19769	P	CYT	58	132.760	48.751	18.771	1.00	72.58	A
ATOM	19717	C6	55	144.572	52.811	17.669	1.00	72.69	Al6S	ATOM	19770	O1P	CYT	58	131.650	48.018	19.431	1.00	60.74	A
ATOM	19718	N6	55	144.356	54.129	17.680	1.00	72.69	Al6S	ATOM	19771	O2P	CYT	58	133.342	48.228	17.505	1.00	60.74	A
ATOM	19719	C5	55	144.995	52.095	16.534	1.00	72.69	Al6S	ATOM	19772	O5' CYT	58	132.233	50.236	18.535	1.00	72.58	A	
ATOM	19720	N7	55	145.273	52.485	15.233	1.00	72.69	Al6S	ATOM	19773	C5' CYT	58	131.509	50.904	19.562	1.00	72.58	A	
ATOM	19721	C8	55	145.626	51.372	14.641	1.00	72.69	Al6S	ATOM	19774	C4' CYT	58	131.340	53.010	19.128	1.00	72.58	A	
ATOM	19722	O2' ADE	55	144.750	47.932	15.374	1.00	49.60	Al6S	ATOM	19775	O4' CYT	58	132.641	53.010	19.128	1.00	72.58	A	
ATOM	19723	C2' ADE	55	145.179	46.744	16.016	1.00	49.60	Al6S	ATOM	19776	C1' CYT	58	132.582	54.034	18.148	1.00	72.58	A	
ATOM	19724	C3' ADE	55	144.239	47.703	13.955	1.00	49.60	Al6S	ATOM	19777	N1	CYT	58	133.409	53.619	17.009	1.00	60.74	A
ATOM	19725	O3' ADE	55	143.684	46.406	13.832	1.00	49.60	Al6S	ATOM	19778	C6	CYT	58	133.663	52.296	16.777	1.00	60.74	A
ATOM	19726	P	56	142.099	46.206	13.942	1.00	54.08	Al6S	ATOM	19779	C2	CYT	58	133.909	54.595	16.146	1.00	60.74	A
ATOM	19727	O1P	56	141.818	44.753	14.028	1.00	74.03	Al6S	ATOM	19780	O2	CYT	58	133.702	55.789	16.409	1.00	60.74	A
ATOM	19728	O2P	56	141.448	47.017	12.876	1.00	74.03	Al6S	ATOM	19781	N3	CYT	58	134.609	54.212	15.052	1.00	60.74	A
ATOM	19729	O5' URI	56	141.747	46.851	15.351	1.00	54.08	Al6S	ATOM	19782	C4	CYT	58	134.824	52.917	14.821	1.00	60.74	A
ATOM	19730	C5' URI	56	142.221	46.281	16.557	1.00	54.08	Al6S	ATOM	19783	N4	CYT	58	135.496	52.581	13.723	1.00	60.74	A
ATOM	19731	C4' URI	56	141.765	47.122	17.714	1.00	54.08	Al6S	ATOM	19784	C5	CYT	58	134.356	51.906	15.706	1.00	60.74	A
ATOM	19732	O4' URI	56	142.553	48.338	17.777	1.00	54.08	Al6S	ATOM	19785	C2' CYT	58	131.115	54.132	17.726	1.00	72.58	A	
ATOM	19733	C1' URI	56	141.726	49.417	18.187	1.00	54.08	Al6S	ATOM	19786	O2' CYT	58	130.426	54.985	18.613	1.00	72.58	A	
ATOM	19734	N1	56	141.724	50.424	17.113	1.00	74.03	Al6S	ATOM	19787	C3' CYT	58	130.663	52.696	17.920	1.00	72.58	A	

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ATOM	19788	O3' CYT	58	129.253	52.627	18.054	1.00	72.58	A16S	ATOM	19841	N9	GUA	61	118.604	51.537	10.890	1.00	41.51
ATOM	19789	P ADE	59	128.340	52.362	16.760	1.00	63.63	A16S	ATOM	19842	C4	GUA	61	117.468	51.622	10.131	1.00	41.51
ATOM	19790	O1P ADE	59	126.932	52.256	17.253	1.00	71.33	A16S	ATOM	19843	N3	GUA	61	116.572	52.620	10.167	1.00	41.51
ATOM	19791	O2P ADE	59	128.943	51.238	15.998	1.00	71.33	A16S	ATOM	19844	C2	GUA	61	115.594	52.430	9.297	1.00	41.51
ATOM	19792	O5' ADE	59	128.501	53.686	15.884	1.00	63.63	A16S	ATOM	19845	N2	GUA	61	114.621	53.354	9.169	1.00	41.51
ATOM	19793	C5' ADE	59	128.024	54.935	16.369	1.00	63.63	A16S	ATOM	19846	N1	GUA	61	115.495	51.335	8.481	1.00	41.51
ATOM	19794	C4' ADE	59	128.459	56.061	15.465	1.00	63.63	A16S	ATOM	19847	C6	GUA	61	116.400	50.287	8.442	1.00	41.51
ATOM	19795	O4' ADE	59	129.898	55.986	15.317	1.00	63.63	A16S	ATOM	19848	O6	GUA	61	116.205	49.326	7.677	1.00	41.51
ATOM	19796	C1' ADE	59	130.269	56.450	14.032	1.00	63.63	A16S	ATOM	19849	C5	GUA	61	117.466	50.490	9.348	1.00	41.51
ATOM	19797	N9 ADE	59	130.969	55.374	13.332	1.00	71.33	A16S	ATOM	19850	N7	GUA	61	118.580	49.707	9.614	1.00	41.51
ATOM	19798	C4 ADE	59	131.388	55.408	12.025	1.00	71.33	A16S	ATOM	19851	C8	GUA	61	119.225	50.367	10.535	1.00	41.51
ATOM	19799	N3 ADE	59	131.223	56.407	11.145	1.00	71.33	A16S	ATOM	19852	C2' GUA	61	118.329	52.411	13.213	1.00	54.41	
ATOM	19800	C2 ADE	59	131.763	56.091	9.973	1.00	71.33	A16S	ATOM	19853	O2' GUA	61	118.401	53.656	13.881	1.00	54.41	
ATOM	19801	N1 ADE	59	132.405	54.978	9.609	1.00	71.33	A16S	ATOM	19854	C3' GUA	61	119.175	51.382	13.935	1.00	54.41	
ATOM	19802	C6 ADE	59	132.558	53.996	10.518	1.00	71.33	A16S	ATOM	19855	O3' GUA	61	119.059	51.543	15.331	1.00	54.41	
ATOM	19803	N6 ADE	59	133.209	52.891	10.157	1.00	71.33	A16S	ATOM	19856	P URI	62	118.165	50.518	16.169	1.00	47.24	
ATOM	19804	C5 ADE	59	132.021	54.203	11.801	1.00	71.33	A16S	ATOM	19857	O1P URI	62	118.376	49.139	15.635	1.00	47.24	
ATOM	19805	N7 ADE	59	131.992	53.414	12.943	1.00	71.33	A16S	ATOM	19858	O2P URI	62	118.435	50.814	17.598	1.00	46.03	
ATOM	19806	C8 ADE	59	131.354	54.151	13.818	1.00	71.33	A16S	ATOM	19859	O5' URI	62	116.672	50.903	15.791	1.00	47.24	
ATOM	19807	C2' ADE	59	128.990	56.891	13.323	1.00	63.63	A16S	ATOM	19860	C5' URI	62	116.191	52.204	16.009	1.00	47.24	
ATOM	19808	O2' ADE	59	128.780	58.265	13.547	1.00	63.63	A16S	ATOM	19861	C4' URI	62	114.924	52.386	15.245	1.00	47.24	
ATOM	19809	C3' ADE	59	127.946	56.047	14.034	1.00	63.63	A16S	ATOM	19862	O4' URI	62	115.205	52.203	13.845	1.00	47.24	
ATOM	19810	O3' ADE	59	126.670	56.661	13.904	1.00	63.63	A16S	ATOM	19863	C1' URI	62	114.099	51.598	13.216	1.00	47.24	
ATOM	19811	P ADE	60	125.960	56.706	12.458	1.00	49.21	A16S	ATOM	19864	N1	URI	62	114.599	50.441	12.474	1.00	46.03
ATOM	19812	O1P ADE	60	126.986	57.129	11.485	1.00	63.40	A16S	ATOM	19865	C6	URI	62	115.796	49.852	12.799	1.00	46.03
ATOM	19813	O2P ADE	60	124.677	57.448	12.534	1.00	63.40	A16S	ATOM	19866	C2	URI	62	112.767	50.494	11.122	1.00	46.03
ATOM	19814	O5' ADE	60	125.639	55.184	12.122	1.00	49.21	A16S	ATOM	19867	O2	URI	62	112.184	50.739	16.714	1.00	47.24
ATOM	19815	C5' ADE	60	124.956	54.341	13.048	1.00	49.21	A16S	ATOM	19868	N3	URI	62	114.367	48.923	10.749	1.00	46.03
ATOM	19816	C4' ADE	60	123.830	53.641	12.345	1.00	49.21	A16S	ATOM	19869	C4	URI	62	115.570	48.300	10.996	1.00	46.03
ATOM	19817	O4' ADE	60	122.878	54.638	11.949	1.00	49.21	A16S	ATOM	19870	O4	URI	62	115.978	47.450	10.203	1.00	46.03
ATOM	19818	C1' ADE	60	122.321	54.296	10.706	1.00	49.21	A16S	ATOM	19871	C5	URI	62	116.298	48.827	12.110	1.00	46.03
ATOM	19819	N9 ADE	60	122.150	55.516	9.934	1.00	63.40	A16S	ATOM	19872	C2' URI	62	113.051	51.286	14.286	1.00	47.24	
ATOM	19820	C4 ADE	60	120.989	55.897	9.309	1.00	63.40	A16S	ATOM	19873	O2' URI	62	112.041	52.266	14.246	1.00	47.24	
ATOM	19821	N3 ADE	60	119.843	55.202	9.226	1.00	63.40	A16S	ATOM	19874	C3' URI	62	113.897	51.322	15.555	1.00	47.24	
ATOM	19822	C2 ADE	60	118.915	55.905	8.586	1.00	63.40	A16S	ATOM	19875	O3' URI	62	113.197	51.739	16.714	1.00	47.24	
ATOM	19823	N1 ADE	60	118.995	57.129	8.062	1.00	63.40	A16S	ATOM	19876	P	CYT	63	112.184	50.739	17.443	1.00	44.16
ATOM	19824	C6 ADE	60	120.164	57.797	8.162	1.00	63.40	A16S	ATOM	19877	O1P CYT	63	112.683	49.351	17.321	1.00	39.31	
ATOM	19825	N6 ADE	60	120.246	59.026	7.649	1.00	63.40	A16S	ATOM	19878	O2P CYT	63	111.930	51.319	18.789	1.00	39.31	
ATOM	19826	C5 ADE	60	121.228	57.157	8.811	1.00	63.40	A16S	ATOM	19879	O5' CYT	63	110.867	50.872	16.574	1.00	44.16	
ATOM	19827	N7 ADE	60	122.531	57.547	9.074	1.00	63.40	A16S	ATOM	19880	C5' CYT	63	109.954	49.820	16.554	1.00	44.16	
ATOM	19828	C8 ADE	60	123.037	56.532	9.730	1.00	63.40	A16S	ATOM	19881	C4' CYT	63	109.016	49.959	15.400	1.00	44.16	
ATOM	19829	C2' ADE	60	123.090	53.132	10.085	1.00	49.21	A16S	ATOM	19882	O4' CYT	63	109.756	50.138	14.175	1.00	44.16	
ATOM	19830	O2' ADE	60	122.210	52.043	9.914	1.00	49.21	A16S	ATOM	19883	C1' CYT	63	109.152	49.381	13.140	1.00	44.16	
ATOM	19831	C3' ADE	60	124.248	52.931	11.069	1.00	49.21	A16S	ATOM	19884	N1	CYT	63	110.168	48.462	12.621	1.00	39.31
ATOM	19832	O3' ADE	60	124.677	51.575	11.341	1.00	49.21	A16S	ATOM	19885	C6	CYT	63	111.299	48.209	13.342	1.00	39.31
ATOM	19833	P GUA	61	123.656	50.474	11.981	1.00	54.41	A16S	ATOM	19886	C2	CYT	63	109.978	47.867	11.371	1.00	39.31
ATOM	19834	O1P GUA	61	124.500	49.526	12.736	1.00	41.51	A16S	ATOM	19887	O2	CYT	63	108.940	48.124	10.744	1.00	39.31
ATOM	19835	O2P GUA	61	122.672	49.945	11.002	1.00	41.51	A16S	ATOM	19888	N3	CYT	63	110.931	47.044	10.878	1.00	39.31
ATOM	19836	O5' GUA	61	122.850	51.245	13.109	1.00	54.41	A16S	ATOM	19889	C4	CYT	63	112.046	46.826	11.581	1.00	39.31
ATOM	19837	C5' GUA	61	121.624	50.729	13.598	1.00	54.41	A16S	ATOM	19890	N4	CYT	63	112.980	46.036	11.061	1.00	39.31
ATOM	19838	C4' GUA	61	120.568	51.793	13.516	1.00	54.41	A16S	ATOM	19891	C5	CYT	63	112.260	47.415	12.859	1.00	39.31
ATOM	19839	O4' GUA	61	120.418	52.199	12.137	1.00	54.41	A16S	ATOM	19892	C2' CYT	63	107.912	48.700	13.720	1.00	44.16	
ATOM	19840	C1' GUA	61	119.065	52.499	11.877	1.00	54.41	A16S	ATOM	19893	O2' CYT	63	106.764	49.461	13.428	1.00	44.16	

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ATOM	19894	C3' CYT	63	108.251	48.674	15.204	1.00	44.16	Al6S	ATOM	19947	N9	GUA	66	104.135	44.399	8.797	1.00	42.58	A
ATOM	19895	O3' CYT	63	107.148	48.674	16.098	1.00	44.16	Al6S	ATOM	19948	C4	GUA	66	105.059	43.408	8.574	1.00	42.58	A
ATOM	19896	P	GUA	64	107.215	47.771	17.423	1.00	70.81	Al6S	19949	N3	GUA	66	104.914	42.369	7.726	1.00	42.58	A
ATOM	19897	O1P	GUA	64	106.362	48.413	18.444	1.00	44.79	Al6S	19950	C2	GUA	66	105.975	41.582	7.722	1.00	42.58	A
ATOM	19898	O2P	GUA	64	108.617	47.463	17.755	1.00	44.79	Al6S	19951	N2	GUA	66	105.992	40.505	6.929	1.00	42.58	A
ATOM	19899	O5'	GUA	64	106.501	46.433	16.958	1.00	70.81	Al6S	19952	N1	GUA	66	107.092	41.795	8.493	1.00	42.58	A
ATOM	19900	C5'	GUA	64	105.117	46.429	16.635	1.00	70.81	Al6S	19953	C6	GUA	66	107.261	42.856	9.375	1.00	42.58	A
ATOM	19901	C4'	GUA	64	104.545	45.063	16.877	1.00	70.81	Al6S	19954	O6	GUA	66	108.308	42.955	10.029	1.00	42.58	A
ATOM	19902	O4'	GUA	64	105.348	44.138	16.118	1.00	70.81	Al6S	19955	C5	GUA	66	106.127	43.712	9.386	1.00	42.58	A
ATOM	19903	C1'	GUA	64	105.256	42.871	16.715	1.00	70.81	Al6S	19956	N7	GUA	66	105.877	44.865	10.115	1.00	42.58	A
ATOM	19904	N9	GUA	64	106.558	42.219	16.692	1.00	44.79	Al6S	19957	C8	GUA	66	104.682	45.233	9.737	1.00	42.58	A
ATOM	19905	C4	GUA	64	106.818	41.036	16.053	1.00	44.79	Al6S	19958	C2'	GUA	66	101.922	43.356	8.447	1.00	64.53	A
ATOM	19906	N3	GUA	64	105.923	40.310	15.351	1.00	44.79	Al6S	19959	O2'	GUA	66	100.890	43.306	7.484	1.00	64.53	A
ATOM	19907	C2	GUA	64	106.461	39.230	14.832	1.00	44.79	Al6S	19960	C3'	GUA	66	101.388	43.790	9.794	1.00	64.53	A
ATOM	19908	N2	GUA	64	105.710	38.413	14.085	1.00	44.79	Al6S	19961	O3'	GUA	66	100.218	43.079	10.135	1.00	64.53	A
ATOM	19909	N1	GUA	64	107.772	38.874	15.000	1.00	44.79	Al6S	19962	P	CYT	67	100.324	41.787	11.078	1.00	58.36	A
ATOM	19910	C6	GUA	64	108.714	39.599	15.723	1.00	44.79	Al6S	19963	O1P	CYT	67	98.985	41.186	10.974	1.00	34.28	A
ATOM	19911	O6	GUA	64	109.876	39.179	15.812	1.00	44.79	Al6S	19964	O2P	CYT	67	100.856	42.185	12.398	1.00	34.28	A
ATOM	19912	C5	GUA	64	108.148	40.781	16.278	1.00	44.79	Al6S	19965	O5'	CYT	67	101.353	40.808	10.353	1.00	58.36	A
ATOM	19913	N7	GUA	64	108.718	41.789	17.047	1.00	44.79	Al6S	19966	C5'	CYT	67	100.939	40.070	9.211	1.00	58.36	A
ATOM	19914	C8	GUA	64	107.732	42.619	17.272	1.00	44.79	Al6S	19967	C4'	CYT	67	101.943	38.998	8.859	1.00	58.36	A
ATOM	19915	C2'	GUA	64	104.614	43.025	18.092	1.00	70.81	Al6S	19968	O4'	CYT	67	103.239	39.594	8.617	1.00	58.36	A
ATOM	19916	O2'	GUA	64	103.284	42.530	18.051	1.00	70.81	Al6S	19969	C1'	CYT	67	104.248	38.636	8.870	1.00	58.36	A
ATOM	19917	C3'	GUA	64	104.643	44.533	18.303	1.00	70.81	Al6S	19970	N1	CYT	67	105.197	39.192	9.835	1.00	34.28	A
ATOM	19918	O3'	GUA	64	103.513	44.783	19.152	1.00	70.81	Al6S	19971	C6	CYT	67	104.852	40.222	10.662	1.00	34.28	A
ATOM	19919	P	URI	65	102.237	45.615	18.631	1.00	62.99	Al6S	19972	C2	CYT	67	106.473	38.645	9.888	1.00	34.28	A
ATOM	19920	O1P	URI	65	101.039	44.973	19.211	1.00	92.38	Al6S	19973	O2	CYT	67	106.748	37.709	9.123	1.00	34.28	A
ATOM	19921	O2P	URI	65	102.478	47.060	18.863	1.00	92.38	Al6S	19974	N3	CYT	67	107.376	39.144	10.766	1.00	34.28	A
ATOM	19922	O5'	URI	65	102.175	45.369	17.073	1.00	62.99	Al6S	19975	C4	CYT	67	107.027	40.145	11.581	1.00	34.28	A
ATOM	19923	C5'	URI	65	100.960	45.037	16.452	1.00	62.99	Al6S	19976	N4	CYT	67	107.937	40.591	12.456	1.00	34.28	A
ATOM	19924	C4'	URI	65	100.426	46.221	15.701	1.00	62.99	Al6S	19977	C5	CYT	67	105.728	40.726	11.542	1.00	34.28	A
ATOM	19925	O4'	URI	65	99.813	47.162	16.582	1.00	62.99	Al6S	19978	C2'	CYT	67	103.555	37.372	9.364	1.00	58.36	A
ATOM	19926	C1'	URI	65	99.610	48.337	15.844	1.00	62.99	Al6S	19979	O2'	CYT	67	103.351	36.543	8.240	1.00	58.36	A
ATOM	19927	N1	URI	65	99.346	49.463	16.743	1.00	92.38	Al6S	19980	C3'	CYT	67	102.246	37.941	9.902	1.00	58.36	A
ATOM	19928	C6	URI	65	99.762	49.467	18.051	1.00	92.38	Al6S	19981	O3'	CYT	67	101.217	36.956	9.922	1.00	58.36	A
ATOM	19929	C2	URI	65	98.603	50.498	16.227	1.00	92.38	Al6S	19982	P	GUA	68	100.862	36.200	11.294	1.00	57.42	A
ATOM	19930	O2	URI	65	98.273	50.546	15.054	1.00	92.38	Al6S	19983	O1P	GUA	68	99.452	35.754	11.200	1.00	41.46	A
ATOM	19931	N3	URI	65	98.259	51.471	17.131	1.00	92.38	Al6S	19984	O2P	GUA	68	101.279	37.024	12.434	1.00	41.46	A
ATOM	19932	C4	URI	65	98.595	51.516	18.471	1.00	92.38	Al6S	19985	O5'	GUA	68	101.805	34.923	11.272	1.00	57.42	A
ATOM	19933	O4	URI	65	98.118	52.399	19.187	1.00	92.38	Al6S	19986	C5'	GUA	68	101.737	33.995	10.207	1.00	57.42	A
ATOM	19934	C5	URI	65	99.418	50.430	18.914	1.00	92.38	Al6S	19987	C4'	GUA	68	103.047	33.276	10.075	1.00	57.42	A
ATOM	19935	C2'	URI	65	100.672	48.408	14.744	1.00	62.99	Al6S	19988	O4'	GUA	68	104.088	34.246	9.795	1.00	57.42	A
ATOM	19936	O2'	URI	65	99.984	48.474	13.507	1.00	62.99	Al6S	19989	C1'	GUA	68	105.331	33.745	10.257	1.00	57.42	A
ATOM	19937	C3'	URI	65	101.415	47.073	14.924	1.00	62.99	Al6S	19990	N9	GUA	68	105.935	34.709	11.170	1.00	41.46	A
ATOM	19938	O3'	URI	65	101.582	46.422	13.673	1.00	62.99	Al6S	19991	C4	GUA	68	107.267	34.762	11.502	1.00	41.46	A
ATOM	19939	P	GUA	66	102.729	46.890	12.673	1.00	64.53	Al6S	19992	N3	GUA	68	108.235	33.967	11.003	1.00	41.46	A
ATOM	19940	O1P	GUA	66	104.011	46.405	13.223	1.00	42.58	Al6S	19993	C2	GUA	68	109.419	34.246	11.521	1.00	41.46	A
ATOM	19941	O2P	GUA	66	102.520	48.337	12.445	1.00	42.58	Al6S	19994	N2	GUA	68	110.503	33.565	11.118	1.00	41.46	A
ATOM	19942	O5'	GUA	66	102.412	46.091	11.338	1.00	64.53	Al6S	19995	N1	GUA	68	109.634	35.213	12.468	1.00	41.46	A
ATOM	19943	C5'	GUA	66	101.113	46.122	10.762	1.00	64.53	Al6S	19996	C6	GUA	68	108.658	36.039	13.007	1.00	41.46	A
ATOM	19944	C4'	GUA	66	101.088	45.254	9.537	1.00	64.53	Al6S	19997	O6	GUA	68	108.970	36.867	13.881	1.00	41.46	A
ATOM	19945	O4'	GUA	66	102.185	45.670	8.680	1.00	64.53	Al6S	19998	C5	GUA	68	107.375	35.769	12.437	1.00	41.46	A
ATOM	19946	C1'	GUA	66	102.836	44.532	8.142	1.00	64.53	Al6S	19999	N7	GUA	68	106.138	36.362	12.665	1.00	41.46	A

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ATOM	20000	C8	GUA	68	105.316	35.706	11.887	1.00	41.46	A16S	ATOM	20053	O2P	CYT	71	111.127	25.478	18.998	1.00	56.79
ATOM	20001	C2'	GUA	68	105.039	32.410	10.939	1.00	57.42	A16S	ATOM	20054	O5'	CYT	71	113.481	25.914	19.757	1.00	60.81
ATOM	20002	O2'	GUA	68	105.204	31.389	9.976	1.00	57.42	A16S	ATOM	20055	C5'	CYT	71	114.900	25.821	19.677	1.00	60.81
ATOM	20003	C3'	GUA	68	103.579	32.598	11.324	1.00	57.42	A16S	ATOM	20056	C4'	CYT	71	115.555	26.838	20.587	1.00	60.81
ATOM	20004	O3'	GUA	68	102.914	31.364	11.580	1.00	57.42	A16S	ATOM	20057	O4'	CYT	71	115.212	28.179	20.160	1.00	60.81
ATOM	20005	P	GUA	69	103.294	30.502	12.892	1.00	66.52	A16S	ATOM	20058	C1'	CYT	71	115.203	29.046	21.277	1.00	60.81
ATOM	20006	O1P	GUA	69	102.384	29.330	12.889	1.00	52.52	A16S	ATOM	20059	N1	CYT	71	113.882	29.671	21.383	1.00	56.79
ATOM	20007	O2P	GUA	69	103.348	31.367	14.091	1.00	52.52	A16S	ATOM	20060	C6	CYT	71	112.786	29.151	20.752	1.00	56.79
ATOM	20008	O5'	GUA	69	104.772	29.996	12.578	1.00	66.52	A16S	ATOM	20061	C2	CYT	71	113.769	30.816	22.155	1.00	56.79
ATOM	20009	C5'	GUA	69	105.665	29.653	13.623	1.00	66.52	A16S	ATOM	20062	O2	CYT	71	114.782	31.256	22.703	1.00	56.79
ATOM	20010	C4'	GUA	69	107.091	29.701	13.130	1.00	66.52	A16S	ATOM	20063	N3	CYT	71	112.568	31.415	22.287	1.00	56.79
ATOM	20011	O4'	GUA	69	107.439	31.065	12.765	1.00	66.52	A16S	ATOM	20064	C4	CYT	71	111.503	30.903	21.677	1.00	56.79
ATOM	20012	C1'	GUA	69	108.791	31.327	13.117	1.00	66.52	A16S	ATOM	20065	N4	CYT	71	110.342	31.525	21.844	1.00	56.79
ATOM	20013	N9	GUA	69	108.805	32.394	14.109	1.00	52.52	A16S	ATOM	20066	C5	CYT	71	111.586	29.730	20.872	1.00	56.79
ATOM	20014	C4	GUA	69	109.905	32.908	14.754	1.00	52.52	A16S	ATOM	20067	C2	CYT	71	115.522	28.208	22.506	1.00	60.81
ATOM	20015	N3	GUA	69	111.185	32.525	14.571	1.00	52.52	A16S	ATOM	20068	O2'	CYT	71	116.897	28.328	22.781	1.00	60.81
ATOM	20016	C2	GUA	69	112.017	33.192	15.357	1.00	52.52	A16S	ATOM	20069	C3'	CYT	71	115.117	26.818	22.034	1.00	60.81
ATOM	20017	N2	GUA	69	113.333	32.930	15.325	1.00	52.52	A16S	ATOM	20070	O3'	CYT	71	115.801	25.799	22.744	1.00	60.81
ATOM	20018	N1	GUA	69	111.624	34.161	16.239	1.00	52.52	A16S	ATOM	20071	P	CYT	72	115.043	25.012	23.921	1.00	77.89
ATOM	20019	C6	GUA	69	110.312	34.573	16.440	1.00	52.52	A16S	ATOM	20072	O1P	CYT	72	115.931	23.878	24.295	1.00	56.75
ATOM	20020	O6	GUA	69	110.062	35.462	17.271	1.00	52.52	A16S	ATOM	20073	O2P	CYT	72	113.638	24.744	23.515	1.00	56.75
ATOM	20021	C5	GUA	69	109.412	33.864	15.609	1.00	52.52	A16S	ATOM	20074	O5'	CYT	72	115.033	26.051	25.124	1.00	77.89
ATOM	20022	N7	GUA	69	108.033	33.961	15.494	1.00	52.52	A16S	ATOM	20075	C5'	CYT	72	116.242	26.381	25.787	1.00	77.89
ATOM	20023	C8	GUA	69	107.719	33.075	14.592	1.00	52.52	A16S	ATOM	20076	C4'	CYT	72	115.989	27.440	26.817	1.00	77.89
ATOM	20024	C2'	GUA	69	109.369	30.023	13.653	1.00	66.52	A16S	ATOM	20077	O4'	CYT	72	115.697	28.706	26.167	1.00	77.89
ATOM	20025	O2'	GUA	69	109.944	29.316	12.579	1.00	66.52	A16S	ATOM	20078	C1'	CYT	72	114.731	29.416	26.926	1.00	77.89
ATOM	20026	C3'	GUA	69	108.116	29.348	14.187	1.00	66.52	A16S	ATOM	20079	N1	CYT	72	113.502	29.519	26.131	1.00	56.75
ATOM	20027	O3'	GUA	69	108.246	27.944	14.272	1.00	66.52	A16S	ATOM	20080	C6	CYT	72	113.292	28.721	25.041	1.00	56.75
ATOM	20028	P	GUA	70	108.424	27.244	15.709	1.00	69.80	A16S	ATOM	20081	C2	CYT	72	112.539	30.431	26.526	1.00	56.75
ATOM	20029	O1P	GUA	70	108.156	25.800	15.502	1.00	51.03	A16S	ATOM	20082	O2	CYT	72	112.768	31.136	27.506	1.00	56.75
ATOM	20030	O2P	GUA	70	107.637	28.001	16.725	1.00	51.03	A16S	ATOM	20083	N3	CYT	72	111.379	30.518	25.842	1.00	56.75
ATOM	20031	O5'	GUA	70	109.978	27.411	16.004	1.00	69.80	A16S	ATOM	20084	C4	CYT	72	111.160	29.712	24.804	1.00	56.75
ATOM	20032	C5'	GUA	70	110.940	26.872	15.109	1.00	69.80	A16S	ATOM	20085	N4	CYT	72	109.975	29.788	24.195	1.00	56.75
ATOM	20033	C4'	GUA	70	112.323	27.284	15.532	1.00	69.80	A16S	ATOM	20086	C5	CYT	72	112.143	28.780	24.356	1.00	56.75
ATOM	20034	O4'	GUA	70	112.482	28.715	15.352	1.00	69.80	A16S	ATOM	20087	C2'	CYT	72	114.485	28.596	28.193	1.00	77.89
ATOM	20035	C1'	GUA	70	113.326	29.229	16.369	1.00	69.80	A16S	ATOM	20088	O2'	CYT	72	115.383	29.013	29.203	1.00	77.89
ATOM	20036	N9	GUA	70	112.575	30.238	17.106	1.00	51.03	A16S	ATOM	20089	C3'	CYT	72	114.771	27.194	27.680	1.00	77.89
ATOM	20037	C4	GUA	70	113.081	31.145	18.003	1.00	51.03	A16S	ATOM	20090	O3'	CYT	72	115.051	26.257	28.704	1.00	77.89
ATOM	20038	N3	GUA	70	114.364	31.229	18.402	1.00	51.03	A16S	ATOM	20091	P	GUA	73	113.881	25.294	29.234	1.00	93.75
ATOM	20039	C2	GUA	70	114.563	32.241	19.234	1.00	51.03	A16S	ATOM	20092	O1P	GUA	73	114.515	24.491	30.304	1.00	62.87
ATOM	20040	N2	GUA	70	115.799	32.478	19.715	1.00	51.03	A16S	ATOM	20093	O2P	GUA	73	113.230	24.603	28.095	1.00	62.87
ATOM	20041	N1	GUA	70	113.573	33.100	19.650	1.00	51.03	A16S	ATOM	20094	O5'	GUA	73	112.831	26.304	29.885	1.00	93.75
ATOM	20042	C6	GUA	70	112.239	33.038	19.253	1.00	51.03	A16S	ATOM	20095	C5'	GUA	73	113.255	27.164	30.928	1.00	93.75
ATOM	20043	O6	GUA	70	111.416	33.891	19.676	1.00	51.03	A16S	ATOM	20096	C4'	GUA	73	112.161	28.118	31.354	1.00	93.75
ATOM	20044	C5	GUA	70	112.015	31.944	18.356	1.00	51.03	A16S	ATOM	20097	O4'	GUA	73	111.852	29.077	30.317	1.00	93.75
ATOM	20045	N7	GUA	70	110.851	31.518	17.726	1.00	51.03	A16S	ATOM	20098	C1'	GUA	73	110.628	29.712	30.651	1.00	93.75
ATOM	20046	C8	GUA	70	111.231	30.498	17.005	1.00	51.03	A16S	ATOM	20099	N9	GUA	73	109.732	29.715	29.503	1.00	62.87
ATOM	20047	C2'	GUA	70	113.776	28.043	17.217	1.00	69.80	A16S	ATOM	20100	C4	GUA	73	108.642	30.527	29.363	1.00	62.87
ATOM	20048	O2'	GUA	70	114.970	27.508	16.684	1.00	69.80	A16S	ATOM	20101	N3	GUA	73	108.263	31.484	30.229	1.00	62.87
ATOM	20049	C3'	GUA	70	112.615	27.091	17.005	1.00	69.80	A16S	ATOM	20102	C2	GUA	73	107.159	32.082	29.846	1.00	62.87
ATOM	20050	O3'	GUA	70	112.970	25.755	17.301	1.00	69.80	A16S	ATOM	20103	N2	GUA	73	106.657	33.077	30.590	1.00	62.87
ATOM	20051	P	CYT	71	112.551	25.132	18.719	1.00	60.81	A16S	ATOM	20104	N1	GUA	73	106.469	31.757	28.703	1.00	62.87
ATOM	20052	O1P	CYT	71	112.956	23.703	18.656	1.00	56.79	A16S	ATOM	20105	C6	GUA	73	106.845	30.775	27.794	1.00	62.87

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ATOM	20106	O6	GUA	73	106.152	30.561	26.788	1.00	62.87	A16S	ATOM	20159	O2P	GUA	76	99.603	25.251	35.930	1.00	48.89	A
ATOM	20107	C5	GUA	73	108.039	30.135	28.192	1.00	62.87	A16S	ATOM	20160	O5'	GUA	76	97.684	26.687	35.272	1.00	54.22	A
ATOM	20108	N7	GUA	73	108.759	29.118	27.586	1.00	62.87	A16S	ATOM	20161	C5'	GUA	76	96.608	27.576	35.523	1.00	54.22	A
ATOM	20109	C8	GUA	73	109.762	28.908	28.395	1.00	62.87	A16S	ATOM	20162	C4'	GUA	76	95.627	27.539	34.388	1.00	54.22	A
ATOM	20110	C2'	GUA	73	110.019	28.918	31.809	1.00	93.75	A16S	ATOM	20163	O4'	GUA	76	96.300	27.937	33.170	1.00	54.22	A
ATOM	20111	O2'	GUA	73	110.305	29.601	33.008	1.00	93.75	A16S	ATOM	20164	C1'	GUA	76	95.711	27.276	32.067	1.00	54.22	A
ATOM	20112	C3'	GUA	73	110.783	27.603	31.714	1.00	93.75	A16S	ATOM	20165	N9	GUA	76	96.754	26.518	31.385	1.00	48.89	A
ATOM	20113	O3'	GUA	73	110.780	26.952	32.974	1.00	93.75	A16S	ATOM	20166	C4	GUA	76	96.704	26.032	30.101	1.00	48.89	A
ATOM	20114	P	CYT	74	109.449	26.208	33.487	1.00	73.61	A16S	ATOM	20167	N3	GUA	76	95.697	26.210	29.224	1.00	48.89	A
ATOM	20115	O1P	CYT	74	109.789	25.675	34.827	1.00	64.73	A16S	ATOM	20168	C2	GUA	76	95.920	25.586	28.081	1.00	48.89	A
ATOM	20116	O2P	CYT	74	108.923	25.287	32.445	1.00	64.73	A16S	ATOM	20169	N2	GUA	76	95.019	25.654	27.094	1.00	48.89	A
ATOM	20117	O5'	CYT	74	108.412	27.395	33.716	1.00	73.61	A16S	ATOM	20170	N1	GUA	76	97.040	24.821	27.821	1.00	48.89	A
ATOM	20118	C5'	CYT	74	108.518	28.227	34.868	1.00	73.61	A16S	ATOM	20171	C6	GUA	76	98.087	24.649	28.708	1.00	48.89	A
ATOM	20119	C4'	CYT	74	107.305	29.118	34.992	1.00	73.61	A16S	ATOM	20172	O6	GUA	76	99.043	23.948	28.377	1.00	48.89	A
ATOM	20120	O4'	CYT	74	107.272	30.063	33.888	1.00	73.61	A16S	ATOM	20173	C5	GUA	76	97.868	25.318	28.935	1.00	48.89	A
ATOM	20121	C1'	CYT	74	105.926	30.342	33.544	1.00	73.61	A16S	ATOM	20174	N7	GUA	76	98.656	25.383	31.077	1.00	48.89	A
ATOM	20122	N1	CYT	74	105.677	29.832	32.194	1.00	64.73	A16S	ATOM	20175	C8	GUA	76	97.960	26.114	31.906	1.00	48.89	A
ATOM	20123	C6	CYT	74	106.503	28.907	31.622	1.00	64.73	A16S	ATOM	20176	C2'	GUA	76	94.598	26.382	32.627	1.00	54.22	A
ATOM	20124	C2	CYT	74	104.549	30.282	31.520	1.00	64.73	A16S	ATOM	20177	O2'	GUA	76	93.355	27.046	32.615	1.00	54.22	A
ATOM	20125	O2	CYT	74	103.861	31.167	32.046	1.00	64.73	A16S	ATOM	20178	C3'	GUA	76	95.071	26.174	34.052	1.00	54.22	A
ATOM	20126	N3	CYT	74	104.236	29.749	30.320	1.00	64.73	A16S	ATOM	20179	O3'	GUA	76	93.990	25.836	34.902	1.00	54.22	A
ATOM	20127	N4	CYT	74	105.014	28.807	29.790	1.00	64.73	A16S	ATOM	20180	P	GUA	77	93.355	24.364	34.823	1.00	50.83	A
ATOM	20128	N4	CYT	74	104.636	28.263	28.636	1.00	64.73	A16S	ATOM	20181	O1P	GUA	77	94.457	23.373	34.836	1.00	50.62	A
ATOM	20129	C5	CYT	74	106.209	28.369	30.432	1.00	64.73	A16S	ATOM	20182	O2P	GUA	77	92.262	24.256	35.820	1.00	50.62	A
ATOM	20130	C2'	CYT	74	105.049	29.581	34.537	1.00	73.61	A16S	ATOM	20183	O5'	GUA	77	92.699	24.338	33.376	1.00	50.83	A
ATOM	20131	O2'	CYT	74	104.751	30.381	35.656	1.00	73.61	A16S	ATOM	20184	C5'	GUA	77	92.444	23.111	32.709	1.00	50.83	A
ATOM	20132	C3'	CYT	74	105.959	28.425	34.898	1.00	73.61	A16S	ATOM	20185	O4'	GUA	77	92.038	23.374	31.281	1.00	50.83	A
ATOM	20133	O3'	CYT	74	105.562	27.833	36.119	1.00	73.61	A16S	ATOM	20186	C4'	GUA	77	93.131	23.985	30.543	1.00	50.83	A
ATOM	20134	P	GUA	75	104.382	26.748	36.106	1.00	56.98	A16S	ATOM	20187	C1'	GUA	77	93.168	23.468	29.223	1.00	50.83	A
ATOM	20135	O1P	GUA	75	104.151	26.241	37.484	1.00	56.30	A16S	ATOM	20188	N9	GUA	77	94.433	22.759	29.051	1.00	50.62	A
ATOM	20136	O2P	GUA	75	104.681	25.786	35.019	1.00	56.30	A16S	ATOM	20189	C4	GUA	77	94.835	22.037	27.950	1.00	50.62	A
ATOM	20137	O5'	GUA	75	103.119	27.607	35.663	1.00	56.98	A16S	ATOM	20190	N3	GUA	77	94.115	21.826	26.831	1.00	50.62	A
ATOM	20138	C5'	GUA	75	102.647	28.674	36.471	1.00	56.98	A16S	ATOM	20191	C2	GUA	77	94.779	21.103	25.949	1.00	50.62	A
ATOM	20139	O4'	GUA	75	101.358	29.212	35.909	1.00	56.98	A16S	ATOM	20192	N2	GUA	77	94.216	20.803	24.779	1.00	50.62	A
ATOM	20140	C1'	GUA	75	101.612	29.884	34.644	1.00	56.98	A16S	ATOM	20193	N1	GUA	77	96.041	20.626	26.149	1.00	50.62	A
ATOM	20141	C1'	GUA	75	100.505	29.684	33.769	1.00	56.98	A16S	ATOM	20194	C6	GUA	77	96.800	20.833	27.291	1.00	50.62	A
ATOM	20142	N9	GUA	75	100.948	28.863	32.646	1.00	56.30	A16S	ATOM	20195	O6	GUA	77	97.935	20.365	27.366	1.00	50.62	A
ATOM	20143	C4	GUA	75	100.279	28.651	31.465	1.00	56.30	A16S	ATOM	20196	C5	GUA	77	96.106	21.600	28.244	1.00	50.62	A
ATOM	20144	N3	GUA	75	99.096	29.188	31.118	1.00	56.30	A16S	ATOM	20197	N7	GUA	77	96.493	22.022	29.506	1.00	50.62	A
ATOM	20145	C2	GUA	75	98.708	28.791	29.916	1.00	56.30	A16S	ATOM	20198	C8	GUA	77	95.469	22.700	29.949	1.00	50.62	A
ATOM	20146	N2	GUA	75	97.557	29.238	29.408	1.00	56.30	A16S	ATOM	20199	C2'	GUA	77	91.939	22.579	29.061	1.00	50.83	A
ATOM	20147	N1	GUA	75	99.422	27.930	29.127	1.00	56.30	A16S	ATOM	20200	O2'	GUA	77	90.871	23.353	28.546	1.00	50.83	A
ATOM	20148	O6	GUA	75	100.640	27.360	29.473	1.00	56.30	A16S	ATOM	20201	C3'	GUA	77	91.724	22.124	30.497	1.00	50.83	A
ATOM	20149	C6	GUA	75	101.195	26.578	28.697	1.00	56.30	A16S	ATOM	20202	O3'	GUA	77	90.390	21.750	30.757	1.00	50.83	A
ATOM	20150	C5	GUA	75	101.071	27.787	30.747	1.00	56.30	A16S	ATOM	20203	P	GUA	78	90.015	20.207	30.818	1.00	75.36	A
ATOM	20151	N7	GUA	75	102.220	27.473	31.453	1.00	56.30	A16S	ATOM	20204	O1P	GUA	78	88.560	20.129	31.068	1.00	55.57	A
ATOM	20152	C8	GUA	75	102.105	28.134	32.570	1.00	56.30	A16S	ATOM	20205	O2P	GUA	78	90.962	19.551	31.741	1.00	55.57	A
ATOM	20153	C2'	GUA	75	99.450	28.941	34.585	1.00	56.98	A16S	ATOM	20206	O5'	GUA	78	90.340	19.682	29.355	1.00	75.36	A
ATOM	20154	O2'	GUA	75	98.630	29.844	35.303	1.00	56.98	A16S	ATOM	20207	C5'	GUA	78	89.448	19.918	28.283	1.00	75.36	A
ATOM	20155	C3'	GUA	75	100.338	28.161	35.527	1.00	56.98	A16S	ATOM	20208	C4'	GUA	78	89.819	19.046	27.118	1.00	75.36	A
ATOM	20156	O3'	GUA	75	99.585	27.690	36.612	1.00	56.98	A16S	ATOM	20209	O4'	GUA	78	91.103	19.473	26.593	1.00	75.36	A
ATOM	20157	P	GUA	76	98.726	26.350	36.428	1.00	54.22	A16S	ATOM	20210	C1'	GUA	78	91.787	18.355	26.054	1.00	75.36	A
ATOM	20158	O1P	GUA	76	97.982	26.181	37.705	1.00	48.89	A16S	ATOM	20211	N9	GUA	78	93.070	18.214	26.733	1.00	55.57	A

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ATOM	20212	C4	GUA	78	94.168	17.542	26.253	1.00	55.57	A16S	ATOM	20265	O3' URI	80	93.741	11.412	34.993	1.00	75.33
ATOM	20213	N3	GUA	78	94.249	16.901	25.068	1.00	55.57	A16S	ATOM	20266	P URI	81	94.981	12.101	34.246	1.00	90.72
ATOM	20214	C2	GUA	78	95.438	16.355	24.884	1.00	55.57	A16S	ATOM	20267	O1P URI	81	95.509	13.162	35.138	1.00	78.80
ATOM	20215	N2	GUA	78	95.697	15.692	23.752	1.00	55.57	A16S	ATOM	20268	O2P URI	81	94.543	12.448	32.869	1.00	78.80
ATOM	20216	N1	GUA	78	96.459	16.421	25.794	1.00	55.57	A16S	ATOM	20269	O5' URI	81	96.072	10.945	34.173	1.00	90.72
ATOM	20217	C6	GUA	78	96.393	17.066	27.022	1.00	55.57	A16S	ATOM	20270	C5' URI	81	96.789	10.565	35.338	1.00	90.72
ATOM	20218	O6	GUA	78	97.371	17.052	27.774	1.00	55.57	A16S	ATOM	20271	C4' URI	81	97.672	9.379	35.049	1.00	90.72
ATOM	20219	C5	GUA	78	95.129	17.671	27.227	1.00	55.57	A16S	ATOM	20272	O4' URI	81	96.845	8.239	34.702	1.00	90.72
ATOM	20220	N7	GUA	78	94.651	18.415	28.295	1.00	55.57	A16S	ATOM	20273	C1' URI	81	97.504	7.455	33.720	1.00	90.72
ATOM	20221	C8	GUA	78	93.426	18.712	27.959	1.00	55.57	A16S	ATOM	20274	N1 URI	81	96.716	7.514	32.482	1.00	78.80
ATOM	20222	C2'	GUA	78	90.881	17.139	26.242	1.00	75.36	A16S	ATOM	20275	C6 URI	81	95.653	8.375	32.339	1.00	78.80
ATOM	20223	O2'	GUA	78	90.118	16.989	25.065	1.00	75.36	A16S	ATOM	20276	C2 URI	81	97.084	6.664	31.464	1.00	78.80
ATOM	20224	C3'	GUA	78	90.043	17.575	27.439	1.00	75.36	A16S	ATOM	20277	O2 URI	81	98.031	5.893	31.558	1.00	78.80
ATOM	20225	O3'	GUA	78	88.802	16.870	27.573	1.00	75.36	A16S	ATOM	20278	N3 URI	81	96.311	6.747	30.332	1.00	78.80
ATOM	20226	P	URI	79	88.786	15.285	27.879	1.00	148.52	A16S	ATOM	20279	C4 URI	81	95.233	7.575	30.124	1.00	78.80
ATOM	20227	O1P	URI	79	89.403	14.596	26.720	1.00	148.52	A16S	ATOM	20280	O4 URI	81	94.618	7.506	29.059	1.00	78.80
ATOM	20228	O2P	URI	79	87.401	14.944	28.280	1.00	174.35	A16S	ATOM	20281	C5 URI	81	94.918	8.434	31.225	1.00	78.80
ATOM	20229	O5'	URI	79	89.723	15.048	29.150	1.00	148.52	A16S	ATOM	20282	C2' URI	81	98.889	8.065	33.533	1.00	90.72
ATOM	20230	C5'	URI	79	91.123	15.319	29.100	1.00	148.52	A16S	ATOM	20283	O2' URI	81	99.791	7.484	34.452	1.00	90.72
ATOM	20231	C4'	URI	79	91.917	14.087	28.688	1.00	148.52	A16S	ATOM	20284	C3' URI	81	98.590	9.517	33.851	1.00	90.72
ATOM	20232	O4'	URI	79	93.262	14.531	28.365	1.00	148.52	A16S	ATOM	20285	O3' URI	81	99.761	10.245	34.159	1.00	90.72
ATOM	20233	C1'	URI	79	94.210	13.594	28.836	1.00	148.52	A16S	ATOM	20286	P URI	82	100.276	11.357	33.131	1.00	84.18
ATOM	20234	N1	URI	79	95.086	14.273	29.803	1.00	174.35	A16S	ATOM	20287	O1P URI	82	101.368	12.094	33.796	1.00	52.12
ATOM	20235	C6	URI	79	94.623	15.309	30.584	1.00	174.35	A16S	ATOM	20288	O2P URI	82	99.073	12.086	32.660	1.00	52.12
ATOM	20236	C2	URI	79	96.397	13.840	29.901	1.00	174.35	A16S	ATOM	20289	O5' URI	82	100.893	10.520	31.924	1.00	84.18
ATOM	20237	O2	URI	79	96.844	12.927	29.230	1.00	174.35	A16S	ATOM	20290	C5' URI	82	102.021	9.677	32.132	1.00	84.18
ATOM	20238	N3	URI	79	97.165	14.518	30.816	1.00	174.35	A16S	ATOM	20291	C4' URI	82	102.184	8.721	30.975	1.00	84.18
ATOM	20239	C4	URI	79	96.766	15.563	31.625	1.00	174.35	A16S	ATOM	20292	O4' URI	82	100.953	7.971	30.812	1.00	84.18
ATOM	20240	O4	URI	79	97.579	16.073	32.400	1.00	174.35	A16S	ATOM	20293	C1' URI	82	100.716	7.732	29.437	1.00	84.18
ATOM	20241	C5	URI	79	95.397	15.952	31.466	1.00	174.35	A16S	ATOM	20294	N1 URI	82	99.468	8.410	29.070	1.00	52.12
ATOM	20242	C2'	URI	79	93.451	12.379	29.381	1.00	148.52	A16S	ATOM	20295	C6 URI	82	98.853	9.285	29.932	1.00	52.12
ATOM	20243	O2'	URI	79	93.396	11.369	28.391	1.00	148.52	A16S	ATOM	20296	C2 URI	82	98.923	8.125	27.837	1.00	52.12
ATOM	20244	C3'	URI	79	92.081	12.973	29.727	1.00	148.52	A16S	ATOM	20297	O2 URI	82	99.462	7.400	27.033	1.00	52.12
ATOM	20245	O3'	URI	79	91.072	11.962	29.572	1.00	148.52	A16S	ATOM	20298	N3 URI	82	97.726	8.737	27.573	1.00	52.12
ATOM	20246	P	URI	80	90.202	11.466	30.842	1.00	75.35	A16S	ATOM	20299	C4 URI	82	97.044	9.608	28.392	1.00	52.12
ATOM	20247	O1P	URI	80	89.617	10.151	30.473	1.00	87.76	A16S	ATOM	20300	O4 URI	82	95.970	10.080	28.010	1.00	52.12
ATOM	20248	O2P	URI	80	89.296	12.586	31.230	1.00	87.76	A16S	ATOM	20301	C5 URI	82	97.690	9.882	29.643	1.00	52.12
ATOM	20249	O5'	URI	80	91.252	11.221	32.021	1.00	75.35	A16S	ATOM	20302	C2' URI	82	101.932	8.251	28.678	1.00	84.18
ATOM	20250	C5'	URI	80	90.965	11.665	33.349	1.00	75.35	A16S	ATOM	20303	O2' URI	82	102.872	7.202	28.557	1.00	84.18
ATOM	20251	C4'	URI	80	91.505	10.692	34.380	1.00	75.35	A16S	ATOM	20304	C3' URI	82	102.400	9.356	29.612	1.00	84.18
ATOM	20252	O4'	URI	80	90.889	9.386	34.214	1.00	75.35	A16S	ATOM	20305	O3' URI	82	103.767	9.691	29.403	1.00	84.18
ATOM	20253	C1'	URI	80	91.828	8.370	34.547	1.00	75.35	A16S	ATOM	20306	P ADE	83	104.138	11.088	28.702	1.00	81.19
ATOM	20254	N1	URI	80	92.038	7.519	33.363	1.00	87.76	A16S	ATOM	20307	O1P ADE	83	105.600	11.314	28.877	1.00	55.96
ATOM	20255	C6	URI	80	91.255	7.655	32.241	1.00	87.76	A16S	ATOM	20308	O2P ADE	83	103.167	12.117	29.181	1.00	55.96
ATOM	20256	C2	URI	80	93.045	6.573	33.411	1.00	87.76	A16S	ATOM	20309	O5' ADE	83	103.850	10.831	27.158	1.00	81.19
ATOM	20257	O2	URI	80	93.760	6.419	34.384	1.00	87.76	A16S	ATOM	20310	C5' ADE	83	104.573	9.850	26.437	1.00	81.19
ATOM	20258	N3	URI	80	93.183	5.814	32.275	1.00	87.76	A16S	ATOM	20311	C4' ADE	83	103.809	9.458	25.202	1.00	81.19
ATOM	20259	C4	URI	80	92.433	5.900	31.122	1.00	87.76	A16S	ATOM	20312	O4' ADE	83	102.507	8.964	25.608	1.00	81.19
ATOM	20260	O4	URI	80	92.671	5.140	30.185	1.00	87.76	A16S	ATOM	20313	C1' ADE	83	101.541	9.303	24.629	1.00	81.19
ATOM	20261	C5	URI	80	91.415	6.899	31.149	1.00	87.76	A16S	ATOM	20314	N9 ADE	83	100.539	10.161	25.256	1.00	55.96
ATOM	20262	C2'	URI	80	93.097	9.072	35.037	1.00	75.35	A16S	ATOM	20315	C4 ADE	83	99.303	10.462	24.742	1.00	55.96
ATOM	20263	O2'	URI	80	93.061	9.213	36.439	1.00	75.35	A16S	ATOM	20316	N3 ADE	83	98.781	10.036	23.579	1.00	55.96
ATOM	20264	C3'	URI	80	92.995	10.410	34.321	1.00	75.35	A16S	ATOM	20317	C2 ADE	83	97.549	10.511	23.418	1.00	55.96

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ATOM	20318	N1	ADE	83	96.836	11.315	24.223	1.00	55.96	A16S	ATOM	20371	O5' CYT	86	97.847	22.361	19.840	1.00	58.92	A
ATOM	20319	C6	ADE	83	97.401	11.741	25.374	1.00	55.96	A16S	ATOM	20372	C5' CYT	86	96.575	22.473	19.209	1.00	58.92	A
ATOM	20320	N6	ADE	83	96.706	12.568	26.155	1.00	55.96	A16S	ATOM	20373	C4' CYT	86	95.620	23.236	20.089	1.00	58.92	A
ATOM	20321	C5	ADE	83	98.699	11.291	25.670	1.00	55.96	A16S	ATOM	20374	O4' CYT	86	95.361	22.478	21.298	1.00	58.92	A
ATOM	20322	N7	ADE	83	99.542	11.514	26.749	1.00	55.96	A16S	ATOM	20375	C1' CYT	86	95.235	23.363	22.396	1.00	58.92	A
ATOM	20323	C8	ADE	83	100.618	10.824	26.454	1.00	55.96	A16S	ATOM	20376	N1 CYT	86	96.363	23.132	23.288	1.00	43.89	A
ATOM	20324	C2' ADE	83	102.286	10.008	23.498	1.00	81.19	A16S	ATOM	20377	C6 CYT	86	97.455	22.436	22.863	1.00	43.89	A	
ATOM	20325	O2' ADE	83	102.676	9.055	22.529	1.00	81.19	A16S	ATOM	20378	C2 CYT	86	96.312	23.646	24.570	1.00	43.89	A	
ATOM	20326	C3' ADE	83	103.465	10.593	24.258	1.00	81.19	A16S	ATOM	20379	O2 CYT	86	95.292	24.243	24.929	1.00	43.89	A	
ATOM	20327	O3' ADE	83	104.549	10.922	23.403	1.00	81.19	A16S	ATOM	20380	N3 CYT	86	97.370	23.482	25.392	1.00	43.89	A	
ATOM	20328	P CYT	84	104.887	12.467	23.121	1.00	74.25	A16S	ATOM	20381	C4 CYT	86	98.443	22.817	24.965	1.00	43.89	A	
ATOM	20329	O1P CYT	84	106.051	12.521	22.201	1.00	69.79	A16S	ATOM	20382	N4 CYT	86	99.479	22.693	25.794	1.00	43.89	A	
ATOM	20330	O2P CYT	84	104.949	13.178	24.426	1.00	69.79	A16S	ATOM	20383	C5 CYT	86	98.507	22.253	23.662	1.00	43.89	A	
ATOM	20331	O5' CYT	84	103.617	13.000	22.319	1.00	74.25	A16S	ATOM	20384	C2' CYT	86	95.277	24.778	21.830	1.00	58.92	A	
ATOM	20332	C5' CYT	84	103.315	12.498	21.021	1.00	74.25	A16S	ATOM	20385	O2' CYT	86	93.965	25.179	21.511	1.00	58.92	A	
ATOM	20333	C4' CYT	84	101.885	12.815	20.650	1.00	74.25	A16S	ATOM	20386	C3' CYT	86	96.134	24.567	20.594	1.00	58.92	A	
ATOM	20334	O4' CYT	84	100.990	12.231	21.639	1.00	74.25	A16S	ATOM	20387	O3' CYT	86	95.902	25.578	19.636	1.00	58.92	A	
ATOM	20335	C1' CYT	84	99.851	13.062	21.804	1.00	74.25	A16S	ATOM	20388	P CYT	87	96.711	26.956	19.736	1.00	58.66	A	
ATOM	20336	N1 CYT	84	99.863	13.604	23.168	1.00	69.79	A16S	ATOM	20389	O1P CYT	87	96.264	27.811	18.607	1.00	48.07	A	
ATOM	20337	C6 CYT	84	100.958	13.468	23.970	1.00	69.79	A16S	ATOM	20390	O2P CYT	87	98.146	26.617	19.892	1.00	48.07	A	
ATOM	20338	C2 CYT	84	98.722	14.277	23.632	1.00	69.79	A16S	ATOM	20391	O5' CYT	87	96.220	27.616	21.096	1.00	58.66	A	
ATOM	20339	O2 CYT	84	97.736	14.390	22.869	1.00	69.79	A16S	ATOM	20392	C5' CYT	87	94.915	28.149	21.195	1.00	58.66	A	
ATOM	20340	N3 CYT	84	98.721	14.789	24.885	1.00	69.79	A16S	ATOM	20393	C4' CYT	87	94.757	28.884	22.492	1.00	58.66	A	
ATOM	20341	C4 CYT	84	99.801	14.656	25.657	1.00	69.79	A16S	ATOM	20394	O4' CYT	87	94.853	27.954	23.598	1.00	58.66	A	
ATOM	20342	N4 CYT	84	99.763	15.184	26.880	1.00	69.79	A16S	ATOM	20395	C1' CYT	87	95.441	28.611	24.706	1.00	58.66	A	
ATOM	20343	C5 CYT	84	100.972	13.976	25.207	1.00	69.79	A16S	ATOM	20396	N1 CYT	87	96.706	27.944	25.011	1.00	48.07	A	
ATOM	20344	C2' CYT	84	99.985	14.185	20.782	1.00	74.25	A16S	ATOM	20397	C6 CYT	87	97.256	27.032	24.157	1.00	48.07	A	
ATOM	20345	O2' CYT	84	99.348	13.795	19.583	1.00	74.25	A16S	ATOM	20398	C2 CYT	87	97.336	28.262	26.192	1.00	48.07	A	
ATOM	20346	C3' CYT	84	101.499	14.280	20.677	1.00	74.25	A16S	ATOM	20399	O2 CYT	87	96.812	29.111	26.921	1.00	48.07	A	
ATOM	20347	O3' CYT	84	101.934	14.978	19.526	1.00	74.25	A16S	ATOM	20400	N3 CYT	87	98.502	27.651	26.517	1.00	48.07	A	
ATOM	20348	P URI	85	102.556	16.448	19.691	1.00	73.21	A16S	ATOM	20401	C4 CYT	87	99.031	26.755	25.687	1.00	48.07	A	
ATOM	20349	O1P URI	85	103.235	16.814	18.421	1.00	63.51	A16S	ATOM	20402	N4 CYT	87	100.172	26.172	26.043	1.00	48.07	A	
ATOM	20350	O2P URI	85	103.325	16.455	20.961	1.00	63.51	A16S	ATOM	20403	C5 CYT	87	98.410	26.418	24.455	1.00	48.07	A	
ATOM	20351	O5' URI	85	101.277	17.383	19.867	1.00	73.21	A16S	ATOM	20404	C2' CYT	87	95.672	30.063	24.293	1.00	58.66	A	
ATOM	20352	C5' URI	85	100.193	17.317	18.941	1.00	73.21	A16S	ATOM	20405	O2' CYT	87	94.530	30.839	24.596	1.00	58.66	A	
ATOM	20353	C4' URI	85	98.946	17.939	19.534	1.00	73.21	A16S	ATOM	20406	C3' CYT	87	95.833	29.904	22.797	1.00	58.66	A	
ATOM	20354	O4' URI	85	98.542	17.196	20.714	1.00	73.21	A16S	ATOM	20407	O3' CYT	87	95.559	31.121	22.146	1.00	58.66	A	
ATOM	20355	C1' URI	85	97.961	18.081	21.651	1.00	73.21	A16S	ATOM	20408	P GUA	88	96.684	32.255	22.099	1.00	60.72	A	
ATOM	20356	N1 URI	85	98.765	18.040	22.878	1.00	63.51	A16S	ATOM	20409	O1P GUA	88	96.071	33.413	21.408	1.00	52.30	A	
ATOM	20357	C6 URI	85	100.015	17.474	22.896	1.00	63.51	A16S	ATOM	20410	O2P GUA	88	97.967	31.696	21.605	1.00	52.30	A	
ATOM	20358	C2 URI	85	98.225	18.605	24.011	1.00	63.51	A16S	ATOM	20411	O5' GUA	88	96.904	32.640	23.624	1.00	60.72	A	
ATOM	20359	O2 URI	85	97.112	19.096	24.036	1.00	63.51	A16S	ATOM	20412	C5' GUA	88	95.956	33.435	24.310	1.00	60.72	A	
ATOM	20360	N3 URI	85	99.034	18.574	25.115	1.00	63.51	A16S	ATOM	20413	C4' GUA	88	96.439	33.707	25.701	1.00	60.72	A	
ATOM	20361	C4 URI	85	100.301	18.041	25.200	1.00	63.51	A16S	ATOM	20414	O4' GUA	88	96.716	32.438	26.340	1.00	60.72	A	
ATOM	20362	O4 URI	85	100.916	18.114	26.263	1.00	63.51	A16S	ATOM	20415	C1' GUA	88	97.781	32.596	27.255	1.00	60.72	A	
ATOM	20363	C5 URI	85	100.783	17.458	23.988	1.00	63.51	A16S	ATOM	20416	N9 GUA	88	98.835	31.671	26.888	1.00	52.30	A	
ATOM	20364	C2' URI	85	97.921	19.471	21.007	1.00	73.21	A16S	ATOM	20417	C4 GUA	88	99.918	31.357	27.658	1.00	52.30	A	
ATOM	20365	O2' URI	85	96.673	19.649	20.374	1.00	73.21	A16S	ATOM	20418	N3 GUA	88	100.191	31.865	28.876	1.00	52.30	A	
ATOM	20366	C3' URI	85	99.062	19.380	20.005	1.00	73.21	A16S	ATOM	20419	C2 GUA	88	101.302	31.367	29.379	1.00	52.30	A	
ATOM	20367	O3' URI	85	98.846	20.241	18.893	1.00	73.21	A16S	ATOM	20420	N2 GUA	88	101.713	31.763	30.578	1.00	52.30	A	
ATOM	20368	P CYT	86	99.107	21.825	19.025	1.00	58.92	A16S	ATOM	20421	N1 GUA	88	102.090	30.446	28.742	1.00	52.30	A	
ATOM	20369	O1P CYT	86	98.995	22.378	17.643	1.00	43.89	A16S	ATOM	20422	C6 GUA	88	101.835	29.913	27.483	1.00	52.30	A	
ATOM	20370	O2P CYT	86	100.333	22.089	19.830	1.00	43.89	A16S	ATOM	20423	O6 GUA	88	102.621	29.093	26.988	1.00	52.30	A	

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ATOM	20424	C5	GUA	88	100.633	30.437	26.929	1.00	52.30	A16S	ATOM	20477	O5'	GUA	91	110.538	39.767	27.744	1.00	77.96
ATOM	20425	N7	GUA	88	100.008	30.182	25.713	1.00	52.30	A16S	ATOM	20478	C5'	GUA	91	111.514	39.851	28.765	1.00	77.96
ATOM	20426	C8	GUA	88	98.947	30.942	25.732	1.00	52.30	A16S	ATOM	20479	C4'	GUA	91	112.578	38.815	28.545	1.00	77.96
ATOM	20427	C2'	GUA	88	98.261	34.040	27.165	1.00	60.72	A16S	ATOM	20480	O4'	GUA	91	111.973	37.494	28.561	1.00	77.96
ATOM	20428	O2'	GUA	88	97.683	34.800	28.206	1.00	60.72	A16S	ATOM	20481	C1'	GUA	91	112.699	36.633	27.696	1.00	77.96
ATOM	20429	C3'	GUA	88	97.768	34.426	25.781	1.00	60.72	A16S	ATOM	20482	N9	GUA	91	111.807	36.181	26.636	1.00	70.78
ATOM	20430	O3'	GUA	88	97.588	35.819	25.681	1.00	60.72	A16S	ATOM	20483	C4	GUA	91	112.063	35.158	25.764	1.00	70.78
ATOM	20431	P	URI	89	98.792	36.725	25.150	1.00	61.97	A16S	ATOM	20484	N3	GUA	91	113.158	34.380	25.773	1.00	70.78
ATOM	20432	O1P	URI	89	98.301	38.122	25.173	1.00	63.20	A16S	ATOM	20485	C2	GUA	91	113.141	33.497	24.798	1.00	70.78
ATOM	20433	O2P	URI	89	99.310	36.144	23.883	1.00	63.20	A16S	ATOM	20486	N2	GUA	91	114.164	32.643	24.666	1.00	70.78
ATOM	20434	O5'	URI	89	99.910	36.590	26.276	1.00	61.97	A16S	ATOM	20487	N1	GUA	91	112.124	33.386	23.882	1.00	70.78
ATOM	20435	C5'	URI	89	99.711	37.140	27.574	1.00	61.97	A16S	ATOM	20488	C6	GUA	91	110.986	34.182	23.854	1.00	70.78
ATOM	20436	C4'	URI	89	100.845	36.742	28.491	1.00	61.97	A16S	ATOM	20489	O6	GUA	91	110.135	34.010	22.976	1.00	70.78
ATOM	20437	O4'	URI	89	100.871	35.295	28.648	1.00	61.97	A16S	ATOM	20490	C5	GUA	91	110.991	35.131	24.902	1.00	70.78
ATOM	20438	C1'	URI	89	102.213	34.858	28.820	1.00	61.97	A16S	ATOM	20491	N7	GUA	91	110.059	36.102	25.243	1.00	70.78
ATOM	20439	N1	URI	89	102.559	33.960	27.715	1.00	63.20	A16S	ATOM	20492	C8	GUA	91	110.582	36.697	26.283	1.00	70.78
ATOM	20440	C6	URI	89	101.829	33.924	26.550	1.00	63.20	A16S	ATOM	20493	C2'	GUA	91	113.845	37.460	27.106	1.00	77.96
ATOM	20441	C2	URI	89	103.658	33.152	27.893	1.00	63.20	A16S	ATOM	20494	O2'	GUA	91	115.017	37.319	27.883	1.00	77.96
ATOM	20442	O2	URI	89	104.327	33.176	28.910	1.00	63.20	A16S	ATOM	20495	C3'	GUA	91	113.261	38.858	27.193	1.00	77.96
ATOM	20443	N3	URI	89	103.947	32.320	26.839	1.00	63.20	A16S	ATOM	20496	O3'	GUA	91	114.270	39.848	27.146	1.00	77.96
ATOM	20444	C4	URI	89	103.255	32.221	25.650	1.00	63.20	A16S	ATOM	20497	P	URI	92	114.599	40.566	25.750	1.00	80.11
ATOM	20445	O4	URI	89	103.569	31.345	24.844	1.00	63.20	A16S	ATOM	20498	O1P	URI	92	115.606	41.630	26.021	1.00	59.09
ATOM	20446	C5	URI	89	102.133	33.106	25.537	1.00	63.20	A16S	ATOM	20499	O2P	URI	92	113.316	40.913	25.070	1.00	59.09
ATOM	20447	C2'	URI	89	103.096	36.100	28.791	1.00	61.97	A16S	ATOM	20500	O5'	URI	92	115.305	39.419	24.909	1.00	80.11
ATOM	20448	O2'	URI	89	103.341	36.578	30.096	1.00	61.97	A16S	ATOM	20501	C5'	URI	92	116.477	38.794	25.394	1.00	80.11
ATOM	20449	O3'	URI	89	102.235	37.042	27.969	1.00	61.97	A16S	ATOM	20502	C4'	URI	92	116.820	37.621	24.524	1.00	80.11
ATOM	20450	C3'	URI	89	102.618	38.379	28.181	1.00	61.97	A16S	ATOM	20503	O4'	URI	92	115.750	36.645	24.600	1.00	80.11
ATOM	20451	P	GUA	90	103.899	38.947	27.412	1.00	67.50	A16S	ATOM	20504	C1'	URI	92	115.655	35.955	23.368	1.00	80.11
ATOM	20452	O1P	GUA	90	103.897	40.418	27.595	1.00	75.12	A16S	ATOM	20505	N1	URI	92	114.316	36.184	22.818	1.00	59.09
ATOM	20453	O2P	GUA	90	103.893	38.377	26.040	1.00	75.12	A16S	ATOM	20506	C6	URI	92	113.535	37.222	23.251	1.00	59.09
ATOM	20454	O5'	GUA	90	105.132	38.333	28.212	1.00	67.50	A16S	ATOM	20507	C2	URI	92	113.872	35.314	21.840	1.00	59.09
ATOM	20455	C5'	GUA	90	105.435	38.788	29.516	1.00	67.50	A16S	ATOM	20508	O2	URI	92	114.538	34.377	21.436	1.00	59.09
ATOM	20456	C4'	GUA	90	106.805	38.322	29.928	1.00	67.50	A16S	ATOM	20509	N3	URI	92	112.616	35.580	21.353	1.00	59.09
ATOM	20457	O4'	GUA	90	106.813	36.877	30.038	1.00	67.50	A16S	ATOM	20510	C4	URI	92	111.779	36.605	21.740	1.00	59.09
ATOM	20458	C1'	GUA	90	108.112	36.390	29.740	1.00	67.50	A16S	ATOM	20511	O4	URI	92	110.653	36.689	21.239	1.00	59.09
ATOM	20459	N9	GUA	90	108.032	35.469	28.613	1.00	75.12	A16S	ATOM	20512	C5	URI	92	112.314	37.460	22.758	1.00	59.09
ATOM	20460	C4	GUA	90	108.944	34.493	28.324	1.00	75.12	A16S	ATOM	20513	C2'	URI	92	116.747	36.523	22.466	1.00	80.11
ATOM	20461	N3	GUA	90	110.049	34.216	29.042	1.00	75.12	A16S	ATOM	20514	O2'	URI	92	117.936	35.789	22.657	1.00	80.11
ATOM	20462	C2	GUA	90	110.740	33.221	28.521	1.00	75.12	A16S	ATOM	20515	C3'	URI	92	116.891	37.916	23.041	1.00	80.11
ATOM	20463	N2	GUA	90	111.871	32.820	29.119	1.00	75.12	A16S	ATOM	20516	O3'	URI	92	118.137	38.477	22.691	1.00	80.11
ATOM	20464	N1	GUA	90	110.374	32.547	27.379	1.00	75.12	A16S	ATOM	20517	P	CYT	93	118.226	39.474	21.439	1.00	72.41
ATOM	20465	C6	GUA	90	109.237	32.813	26.622	1.00	75.12	A16S	ATOM	20518	O1P	CYT	93	119.536	40.164	21.567	1.00	57.58
ATOM	20466	O6	GUA	90	108.996	32.138	25.612	1.00	75.12	A16S	ATOM	20519	O2P	CYT	93	116.975	40.268	21.376	1.00	57.58
ATOM	20467	C5	GUA	90	108.484	33.887	27.175	1.00	75.12	A16S	ATOM	20520	O5'	CYT	93	118.279	38.512	20.171	1.00	72.41
ATOM	20468	N7	GUA	90	107.298	34.471	26.751	1.00	75.12	A16S	ATOM	20521	C5'	CYT	93	119.374	37.622	19.992	1.00	72.41
ATOM	20469	C8	GUA	90	107.067	35.403	27.636	1.00	75.12	A16S	ATOM	20522	C4'	CYT	93	119.084	36.638	18.886	1.00	72.41
ATOM	20470	C2'	GUA	90	108.979	37.603	29.415	1.00	67.50	A16S	ATOM	20523	O4'	CYT	93	117.974	35.779	19.252	1.00	72.41
ATOM	20471	O2	GUA	90	109.615	38.032	30.597	1.00	67.50	A16S	ATOM	20524	C1'	CYT	93	117.271	35.395	18.083	1.00	72.41
ATOM	20472	C3'	GUA	90	107.929	38.599	28.951	1.00	67.50	A16S	ATOM	20525	N1	CYT	93	115.880	35.851	18.199	1.00	57.58
ATOM	20473	O3'	GUA	90	108.411	39.924	29.081	1.00	67.50	A16S	ATOM	20526	C6	CYT	93	115.530	36.825	19.092	1.00	57.58
ATOM	20474	P	GUA	91	109.192	40.604	27.855	1.00	77.96	A16S	ATOM	20527	C2	CYT	93	114.915	35.281	17.356	1.00	57.58
ATOM	20475	O1P	GUA	91	109.553	41.982	28.280	1.00	70.78	A16S	ATOM	20528	O2	CYT	93	115.257	34.372	16.579	1.00	57.58
ATOM	20476	O2P	GUA	91	108.387	40.392	26.618	1.00	70.78	A16S	ATOM	20529	N3	CYT	93	113.643	35.731	17.410	1.00	57.58

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ATOM	20530	C4	CYT	93	113.319	36.705	18.263	1.00	57.58	A16S	ATOM	20583	O1P	CYT	96	116.383	38.362	3.873	1.00	39.18	A
ATOM	20531	N4	CYT	93	112.060	37.143	18.256	1.00	57.58	A16S	ATOM	20584	O2P	CYT	96	115.732	39.396	6.152	1.00	39.18	A
ATOM	20532	C5	CYT	93	114.273	37.278	19.155	1.00	57.58	A16S	ATOM	20585	O5	CYT	96	114.002	38.366	4.633	1.00	52.72	A
ATOM	20533	C2	CYT	93	117.978	36.050	16.896	1.00	72.41	A16S	ATOM	20586	C5	CYT	96	113.444	37.225	4.012	1.00	52.72	A
ATOM	20534	O2	CYT	93	118.898	35.135	16.342	1.00	72.41	A16S	ATOM	20587	C4	CYT	96	111.944	37.295	4.058	1.00	52.72	A
ATOM	20535	C3	CYT	93	118.648	37.240	17.569	1.00	72.41	A16S	ATOM	20588	O4	CYT	96	111.475	37.150	5.421	1.00	52.72	A
ATOM	20536	O3	CYT	93	119.775	37.707	16.845	1.00	72.41	A16S	ATOM	20589	C1	CYT	96	110.246	37.847	5.567	1.00	52.72	A
ATOM	20537	P	ADE	94	119.808	39.226	16.325	1.00	71.20	A16S	ATOM	20590	N1	CYT	96	110.391	38.838	6.632	1.00	39.18	A
ATOM	20538	O1P	ADE	94	121.154	39.467	15.760	1.00	50.91	A16S	ATOM	20591	C6	CYT	96	111.606	39.111	7.195	1.00	39.18	A
ATOM	20539	O2P	ADE	94	119.290	40.133	17.382	1.00	50.91	A16S	ATOM	20592	C2	CYT	96	109.254	39.508	7.049	1.00	39.18	A
ATOM	20540	O5	ADE	94	118.777	39.230	15.117	1.00	71.20	A16S	ATOM	20593	O2	CYT	96	108.175	39.232	6.506	1.00	39.18	A
ATOM	20541	C5	ADE	94	119.242	39.206	13.777	1.00	71.20	A16S	ATOM	20594	N3	CYT	96	109.351	40.440	8.022	1.00	39.18	A
ATOM	20542	C4	ADE	94	118.943	37.872	13.158	1.00	71.20	A16S	ATOM	20595	C4	CYT	96	110.538	40.707	8.563	1.00	39.18	A
ATOM	20543	O4	ADE	94	118.178	37.079	14.097	1.00	71.20	A16S	ATOM	20596	N4	CYT	96	110.592	41.632	9.516	1.00	39.18	A
ATOM	20544	C1	ADE	94	117.212	36.318	13.401	1.00	71.20	A16S	ATOM	20597	C5	CYT	96	111.725	40.033	8.151	1.00	39.18	A
ATOM	20545	N9	ADE	94	115.898	36.717	13.897	1.00	50.91	A16S	ATOM	20598	C2	CYT	96	109.961	38.546	4.239	1.00	52.72	A
ATOM	20546	C4	ADE	94	114.675	35.222	13.507	1.00	50.91	A16S	ATOM	20599	O2	CYT	96	109.093	37.778	3.433	1.00	52.72	A
ATOM	20547	N3	ADE	94	114.436	35.262	12.600	1.00	50.91	A16S	ATOM	20600	C3	CYT	96	111.357	38.756	2.259	1.00	52.72	A
ATOM	20548	C2	ADE	94	113.131	35.055	12.472	1.00	50.91	A16S	ATOM	20601	O3	CYT	96	111.295	38.756	3.654	1.00	52.72	A
ATOM	20549	N1	ADE	94	112.113	35.653	13.099	1.00	50.91	A16S	ATOM	20602	P	GUA	97	111.497	40.198	1.616	1.00	54.20	A
ATOM	20550	C6	ADE	94	112.384	36.610	14.007	1.00	50.91	A16S	ATOM	20603	O1P	GUA	97	111.140	40.089	0.179	1.00	34.44	A
ATOM	20551	N6	ADE	94	111.361	37.204	14.633	1.00	50.91	A16S	ATOM	20604	O2P	GUA	97	112.873	40.587	1.997	1.00	34.44	A
ATOM	20552	C5	ADE	94	113.734	36.922	14.238	1.00	50.91	A16S	ATOM	20605	O5	GUA	97	110.395	41.088	2.361	1.00	54.20	A
ATOM	20553	N7	ADE	94	114.351	37.832	15.085	1.00	50.91	A16S	ATOM	20606	C5	GUA	97	109.021	41.014	1.959	1.00	54.20	A
ATOM	20554	C8	ADE	94	115.631	37.669	14.844	1.00	50.91	A16S	ATOM	20607	C4	GUA	97	108.156	42.002	2.729	1.00	54.20	A
ATOM	20555	O2	ADE	94	117.426	36.569	11.905	1.00	71.20	A16S	ATOM	20608	O4	GUA	97	108.221	41.721	4.149	1.00	54.20	A
ATOM	20556	C2	ADE	94	118.301	35.604	11.361	1.00	71.20	A16S	ATOM	20609	C1	GUA	97	108.055	42.924	4.885	1.00	54.20	A
ATOM	20557	C3	ADE	94	118.079	37.940	11.916	1.00	71.20	A16S	ATOM	20610	N9	GUA	97	109.283	43.162	5.626	1.00	34.44	A
ATOM	20558	O3	ADE	94	118.886	38.126	10.766	1.00	71.20	A16S	ATOM	20611	C4	GUA	97	109.479	44.071	6.639	1.00	34.44	A
ATOM	20559	P	GUA	95	118.335	39.017	9.554	1.00	55.33	A16S	ATOM	20612	N3	GUA	97	108.567	44.948	7.118	1.00	34.44	A
ATOM	20560	O1P	GUA	95	119.443	39.202	8.586	1.00	44.53	A16S	ATOM	20613	C2	GUA	97	109.068	45.682	8.114	1.00	34.44	A
ATOM	20561	O2P	GUA	95	117.660	40.198	10.142	1.00	44.53	A16S	ATOM	20614	N2	GUA	97	108.318	46.621	8.710	1.00	34.44	A
ATOM	20562	O5	GUA	95	117.214	38.116	8.871	1.00	55.33	A16S	ATOM	20615	N1	GUA	97	110.341	45.551	8.592	1.00	34.44	A
ATOM	20563	C5	GUA	95	117.514	36.809	8.408	1.00	55.33	A16S	ATOM	20616	C6	GUA	97	111.287	44.656	8.101	1.00	34.44	A
ATOM	20564	C4	GUA	95	116.244	36.086	8.058	1.00	55.33	A16S	ATOM	20617	O6	GUA	97	112.414	44.615	8.595	1.00	34.44	A
ATOM	20565	O4	GUA	95	115.471	35.823	9.260	1.00	55.33	A16S	ATOM	20618	C5	GUA	97	110.779	43.881	7.045	1.00	34.44	A
ATOM	20566	C1	GUA	95	114.086	35.859	8.948	1.00	55.33	A16S	ATOM	20619	N7	GUA	97	111.394	42.896	6.291	1.00	34.44	A
ATOM	20567	N9	GUA	95	113.463	36.876	9.785	1.00	44.53	A16S	ATOM	20620	C8	GUA	97	110.472	42.503	5.459	1.00	34.44	A
ATOM	20568	C4	GUA	95	112.118	37.124	9.915	1.00	44.53	A16S	ATOM	20621	C2	GUA	97	107.793	44.026	3.872	1.00	54.20	A
ATOM	20569	N3	GUA	95	111.132	36.477	9.275	1.00	44.53	A16S	ATOM	20622	O2	GUA	97	106.402	44.144	3.685	1.00	54.20	A
ATOM	20570	C2	GUA	95	109.946	36.927	9.622	1.00	44.53	A16S	ATOM	20623	C3	GUA	97	108.517	43.473	2.657	1.00	54.20	A
ATOM	20571	N2	GUA	95	108.853	36.399	9.079	1.00	44.53	A16S	ATOM	20624	O3	GUA	97	108.053	44.083	1.467	1.00	54.20	A
ATOM	20572	N1	GUA	95	109.740	37.928	10.525	1.00	44.53	A16S	ATOM	20625	P	GUA	98	108.951	45.214	0.774	1.00	56.52	A
ATOM	20573	C6	GUA	95	110.741	38.613	11.194	1.00	44.53	A16S	ATOM	20626	O1P	GUA	98	108.291	45.544	-0.512	1.00	41.80	A
ATOM	20574	O6	GUA	95	110.443	39.513	11.995	1.00	44.53	A16S	ATOM	20627	O2P	GUA	98	110.357	44.727	0.780	1.00	41.80	A
ATOM	20575	C5	GUA	95	112.021	38.143	10.830	1.00	44.53	A16S	ATOM	20628	O5	GUA	98	108.831	46.454	1.766	1.00	56.52	A
ATOM	20576	N7	GUA	95	113.277	38.541	11.257	1.00	44.53	A16S	ATOM	20629	C5	GUA	98	107.561	47.041	1.993	1.00	56.52	A
ATOM	20577	C8	GUA	95	114.102	37.764	10.609	1.00	44.53	A16S	ATOM	20630	C4	GUA	98	107.607	48.055	3.116	1.00	56.52	A
ATOM	20578	C2	GUA	95	113.971	36.175	7.459	1.00	55.33	A16S	ATOM	20631	O4	GUA	98	108.049	47.444	4.352	1.00	56.52	A
ATOM	20579	O2	GUA	95	113.876	34.976	6.725	1.00	55.33	A16S	ATOM	20632	C1	GUA	98	108.400	48.474	5.251	1.00	56.52	A
ATOM	20580	C3	GUA	95	115.286	36.901	7.222	1.00	55.33	A16S	ATOM	20633	N9	GUA	98	109.674	48.170	5.883	1.00	41.80	A
ATOM	20581	O3	GUA	95	115.675	36.969	5.863	1.00	55.33	A16S	ATOM	20634	C4	GUA	98	110.186	48.845	6.953	1.00	41.80	A
ATOM	20582	P	CYT	96	115.525	38.364	5.091	1.00	52.72	A16S	ATOM	20635	N3	GUA	98	109.594	49.876	7.584	1.00	41.80	A

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ATOM	20636	C2	GUA	98	110.325	50.326	8.586	1.00	41.80	A16S	ATOM	20689	C3' GUA	100	116.062	56.680	4.534	1.00	44.20	
ATOM	20637	N2	GUA	98	109.881	51.350	9.332	1.00	41.80	A16S	ATOM	20690	O3' GUA	100	116.732	57.809	4.010	1.00	44.20	
ATOM	20638	N1	GUA	98	111.544	49.805	8.936	1.00	41.80	A16S	ATOM	20691	P	GUA	101	117.500	57.676	2.611	1.00	45.46
ATOM	20639	C6	GUA	98	112.171	48.742	8.302	1.00	41.80	A16S	ATOM	20692	O1P GUA	101	117.886	59.044	2.191	1.00	56.69	
ATOM	20640	O6	GUA	98	113.268	48.348	8.707	1.00	41.80	A16S	ATOM	20693	O2P GUA	101	116.634	56.848	1.725	1.00	56.69	
ATOM	20641	C5	GUA	98	111.395	48.248	7.222	1.00	41.80	A16S	ATOM	20694	O5' GUA	101	118.808	56.843	2.983	1.00	45.46	
ATOM	20642	N7	GUA	98	111.642	47.208	6.329	1.00	41.80	A16S	ATOM	20695	C5' GUA	101	119.409	56.985	4.262	1.00	45.46	
ATOM	20643	C8	GUA	98	110.590	47.199	5.554	1.00	41.80	A16S	ATOM	20696	C4' GUA	101	120.339	55.833	4.560	1.00	45.46	
ATOM	20644	C2' GUA	98	108.444	49.772	4.449	1.00	56.52	A16S	ATOM	20697	O4' GUA	101	119.659	54.549	4.398	1.00	45.46		
ATOM	20645	O2' GUA	98	107.219	50.427	4.667	1.00	56.52	A16S	ATOM	20698	C1' GUA	101	120.639	53.518	4.328	1.00	45.46		
ATOM	20646	C3' GUA	98	108.543	49.245	3.026	1.00	56.52	A16S	ATOM	20699	N9 GUA	101	120.422	52.660	3.164	1.00	56.69		
ATOM	20647	O3' GUA	98	108.048	50.220	2.121	1.00	56.52	A16S	ATOM	20700	C4 GUA	101	119.389	52.696	2.279	1.00	56.69		
ATOM	20648	P	CYT	99	109.074	51.026	1.181	1.00	52.06	A16S	ATOM	20701	N3 GUA	101	118.333	53.522	2.339	1.00	56.69	
ATOM	20649	O1P CYT	99	108.244	51.687	0.136	1.00	45.08	A16S	ATOM	20702	C2 GUA	101	117.513	53.351	1.309	1.00	56.69		
ATOM	20650	O2P CYT	99	110.183	50.127	0.769	1.00	45.08	A16S	ATOM	20703	N2 GUA	101	116.391	54.107	1.205	1.00	56.69		
ATOM	20651	O5' CYT	99	109.688	52.128	2.151	1.00	52.06	A16S	ATOM	20704	N1 GUA	101	117.732	52.433	0.298	1.00	56.69		
ATOM	20652	C5' CYT	99	108.894	53.215	2.585	1.00	52.06	A16S	ATOM	20705	C6 GUA	101	118.828	51.578	0.220	1.00	56.69		
ATOM	20653	C4' CYT	99	109.505	53.865	3.795	1.00	52.06	A16S	ATOM	20706	O6 GUA	101	118.951	50.819	-0.744	1.00	56.69		
ATOM	20654	O4' CYT	99	109.572	52.925	4.900	1.00	52.06	A16S	ATOM	20707	C5 GUA	101	119.692	51.741	1.321	1.00	56.69		
ATOM	20655	C1' CYT	99	110.662	53.269	5.747	1.00	52.06	A16S	ATOM	20708	N7 GUA	101	120.871	51.084	1.632	1.00	56.69		
ATOM	20656	N1 CYT	99	111.643	52.188	5.697	1.00	45.08	A16S	ATOM	20709	C8 GUA	101	121.267	51.655	2.733	1.00	56.69		
ATOM	20657	C6 CYT	99	111.590	51.224	4.729	1.00	45.08	A16S	ATOM	20710	C2' GUA	101	121.976	54.240	4.171	1.00	45.46		
ATOM	20658	C2 CYT	99	112.657	52.184	6.637	1.00	45.08	A16S	ATOM	20711	O2' GUA	101	122.599	54.316	5.438	1.00	45.46		
ATOM	20659	O2 CYT	99	112.644	53.048	7.514	1.00	45.08	A16S	ATOM	20712	C3' GUA	101	121.512	55.591	3.640	1.00	45.46		
ATOM	20660	N3 CYT	99	113.629	51.245	6.562	1.00	45.08	A16S	ATOM	20713	O3' GUA	101	122.541	56.569	3.695	1.00	45.46		
ATOM	20661	C4 CYT	99	113.601	50.337	5.584	1.00	45.08	A16S	ATOM	20714	P	ADE	102	123.501	56.766	2.421	1.00	53.51	
ATOM	20662	N4 CYT	99	114.604	49.479	5.506	1.00	45.08	A16S	ATOM	20715	O1P ADE	102	124.802	57.272	2.922	1.00	71.83		
ATOM	20663	C5 CYT	99	112.545	50.288	4.634	1.00	45.08	A16S	ATOM	20716	O2P ADE	102	123.467	55.505	1.643	1.00	71.83		
ATOM	20664	C2' CYT	99	111.288	54.519	5.136	1.00	52.06	A16S	ATOM	20717	O5' ADE	102	122.776	57.904	1.566	1.00	53.51		
ATOM	20665	O2' CYT	99	110.669	55.680	5.656	1.00	52.06	A16S	ATOM	20718	C5' ADE	102	123.549	58.848	0.808	1.00	53.51		
ATOM	20666	C3' CYT	99	110.946	54.299	3.675	1.00	52.06	A16S	ATOM	20719	C4' ADE	102	122.758	59.379	-0.378	1.00	53.51		
ATOM	20667	O3' CYT	99	111.078	55.470	2.906	1.00	52.06	A16S	ATOM	20720	O4' ADE	102	122.146	58.263	-1.028	1.00	53.51		
ATOM	20668	P	GUA	100	112.380	55.660	1.997	1.00	44.20	A16S	ATOM	20721	C1' ADE	102	120.937	58.661	-1.604	1.00	53.51	
ATOM	20669	O1P GUA	100	112.123	56.911	1.235	1.00	41.23	A16S	ATOM	20722	N9 ADE	102	119.996	57.570	-1.436	1.00	71.83		
ATOM	20670	O2P GUA	100	112.636	54.401	1.262	1.00	41.23	A16S	ATOM	20723	C4 ADE	102	119.365	56.953	-2.469	1.00	71.83		
ATOM	20671	O5' GUA	100	113.543	55.870	3.071	1.00	44.20	A16S	ATOM	20724	N3 ADE	102	119.458	57.277	-3.765	1.00	71.83		
ATOM	20672	C5' GUA	100	113.588	57.060	3.846	1.00	44.20	A16S	ATOM	20725	C2 ADE	102	118.734	56.438	-4.495	1.00	71.83		
ATOM	20673	O4' GUA	100	114.623	56.958	4.937	1.00	44.20	A16S	ATOM	20726	N1 ADE	102	117.986	55.383	-4.096	1.00	71.83		
ATOM	20674	C4' GUA	100	114.311	55.817	5.771	1.00	44.20	A16S	ATOM	20727	C6 ADE	102	117.925	55.095	-2.776	1.00	71.83		
ATOM	20675	C1' GUA	100	115.520	55.266	6.293	1.00	44.20	A16S	ATOM	20728	N6 ADE	102	117.195	54.050	-2.375	1.00	71.83		
ATOM	20676	N9 GUA	100	115.741	53.976	5.664	1.00	41.23	A16S	ATOM	20729	C5 ADE	102	118.642	55.917	-1.904	1.00	71.83		
ATOM	20677	C4 GUA	100	116.764	53.120	5.958	1.00	41.23	A16S	ATOM	20730	N7 ADE	102	118.789	55.909	-0.527	1.00	71.83		
ATOM	20678	N3 GUA	100	117.721	53.328	6.882	1.00	41.23	A16S	ATOM	20731	C8 ADE	102	119.594	56.914	-0.297	1.00	71.83		
ATOM	20679	C2 GUA	100	118.572	52.326	6.943	1.00	41.23	A16S	ATOM	20732	C2' ADE	102	120.529	60.026	-1.053	1.00	53.51		
ATOM	20680	N2 GUA	100	119.586	52.377	7.815	1.00	41.23	A16S	ATOM	20733	O2' ADE	102	120.473	60.943	-2.123	1.00	53.51		
ATOM	20681	N1 GUA	100	118.492	51.202	6.155	1.00	41.23	A16S	ATOM	20734	C3' ADE	102	121.646	60.370	-0.065	1.00	53.51		
ATOM	20682	C6 GUA	100	117.511	50.972	5.194	1.00	41.23	A16S	ATOM	20735	O3' ADE	102	122.036	61.668	-0.520	1.00	53.51		
ATOM	20683	O6 GUA	100	117.517	49.925	4.541	1.00	41.23	A16S	ATOM	20736	P	CYT	103	123.298	62.448	0.110	1.00	47.68	
ATOM	20684	C5 GUA	100	116.595	52.046	5.117	1.00	41.23	A16S	ATOM	20737	O1P CYT	103	123.641	63.434	-0.946	1.00	42.28		
ATOM	20685	N7 GUA	100	115.486	52.229	4.301	1.00	41.23	A16S	ATOM	20738	O2P CYT	103	124.375	61.586	0.668	1.00	42.28		
ATOM	20686	C8 GUA	100	115.008	53.387	4.665	1.00	41.23	A16S	ATOM	20739	O5' CYT	103	122.618	63.243	1.305	1.00	47.68		
ATOM	20687	C2' GUA	100	116.646	56.186	5.849	1.00	44.20	A16S	ATOM	20740	C5' CYT	103	121.459	64.025	1.064	1.00	47.68		
ATOM	20688	O2' GUA	100	116.869	57.171	6.839	1.00	44.20	A16S	ATOM	20741	C4' CYT	103	120.793	64.367	2.359	1.00	47.68		

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ATOM	20742	O4' CYT	103	120.243	63.163	2.946	1.00	47.68	Al6S	ATOM	20795	C5	GUA	105	129.463	63.335	5.078	1.00	42.62	F
ATOM	20743	C1' CYT	103	120.347	63.237	4.357	1.00	47.68	Al6S	ATOM	20796	N7	GUA	105	128.302	64.065	5.245	1.00	42.62	F
ATOM	20744	N1 CYT	103	121.223	62.145	4.809	1.00	42.28	Al6S	ATOM	20797	C8	GUA	105	128.235	64.270	6.532	1.00	42.62	F
ATOM	20745	C6 CYT	103	121.929	61.384	3.916	1.00	42.28	Al6S	ATOM	20798	C2' GUA	105	130.875	64.589	8.812	1.00	54.03	F	
ATOM	20746	C2' CYT	103	121.322	61.898	6.172	1.00	42.28	Al6S	ATOM	20799	O2' GUA	105	131.400	64.355	10.097	1.00	54.03	F	
ATOM	20747	O2 CYT	103	120.670	62.606	6.956	1.00	42.28	Al6S	ATOM	20800	C3' GUA	105	130.387	66.013	8.712	1.00	54.03	F	
ATOM	20748	N3 CYT	103	122.120	60.899	6.606	1.00	42.28	Al6S	ATOM	20801	O3' GUA	105	131.355	66.880	9.251	1.00	54.03	F	
ATOM	20749	C4 CYT	103	122.801	60.162	5.731	1.00	42.28	Al6S	ATOM	20802	P	GUA	106	132.081	67.932	8.289	1.00	40.06	F
ATOM	20750	N4 CYT	103	123.566	59.193	6.207	1.00	42.28	Al6S	ATOM	20803	O1P GUA	106	132.631	68.999	9.191	1.00	33.04	F	
ATOM	20751	C5 CYT	103	122.724	60.391	4.333	1.00	42.28	Al6S	ATOM	20804	O2P GUA	106	131.116	68.285	7.232	1.00	33.04	F	
ATOM	20752	C2' CYT	103	120.907	64.620	4.682	1.00	47.68	Al6S	ATOM	20805	O5' GUA	106	133.244	67.089	7.605	1.00	40.06	F	
ATOM	20753	O2' CYT	103	119.830	65.525	4.820	1.00	47.68	Al6S	ATOM	20806	C5' GUA	106	134.062	66.208	8.371	1.00	40.06	F	
ATOM	20754	C3' CYT	103	121.720	64.896	3.430	1.00	47.68	Al6S	ATOM	20807	C4' GUA	106	134.865	65.317	7.458	1.00	40.06	F	
ATOM	20755	O3' CYT	103	121.953	66.274	3.234	1.00	47.68	Al6S	ATOM	20808	O4' GUA	106	133.967	64.464	6.709	1.00	40.06	F	
ATOM	20756	P	GUA	123.405	66.878	3.532	1.00	42.73	Al6S	ATOM	20809	C1' GUA	106	134.556	64.149	5.463	1.00	40.06	F	
ATOM	20757	O1P GUA	104	123.268	68.355	3.420	1.00	62.99	Al6S	ATOM	20810	N9	GUA	106	133.647	64.528	4.395	1.00	33.04	F
ATOM	20758	O2P GUA	104	124.433	66.163	2.728	1.00	62.99	Al6S	ATOM	20811	C4	GUA	106	133.845	64.302	3.064	1.00	33.04	F
ATOM	20759	O5' GUA	104	123.668	66.500	5.052	1.00	42.73	Al6S	ATOM	20812	N3	GUA	106	134.938	63.738	2.518	1.00	33.04	F
ATOM	20760	C5' GUA	104	122.980	67.161	6.090	1.00	42.73	Al6S	ATOM	20813	C2	GUA	106	134.836	63.645	1.203	1.00	33.04	F
ATOM	20761	C4' GUA	104	123.265	66.482	7.389	1.00	42.73	Al6S	ATOM	20814	N2	GUA	106	135.839	63.117	0.493	1.00	33.04	F
ATOM	20762	O4' GUA	104	122.829	65.108	7.276	1.00	42.73	Al6S	ATOM	20815	N1	GUA	106	133.742	64.063	0.486	1.00	33.04	F
ATOM	20763	C1' GUA	104	123.693	64.273	8.028	1.00	42.73	Al6S	ATOM	20816	C6	GUA	106	132.602	64.639	1.034	1.00	33.04	F
ATOM	20764	N9	GUA	124.339	63.367	7.091	1.00	62.99	Al6S	ATOM	20817	O6	GUA	106	131.666	64.970	0.300	1.00	33.04	F
ATOM	20765	C4	GUA	124.967	62.191	7.394	1.00	62.99	Al6S	ATOM	20818	C5	GUA	106	132.707	64.753	2.442	1.00	33.04	F
ATOM	20766	N3	GUA	125.046	61.633	8.614	1.00	62.99	Al6S	ATOM	20819	N7	GUA	106	131.819	65.276	3.367	1.00	33.04	F
ATOM	20767	C2	GUA	125.751	60.523	8.596	1.00	62.99	Al6S	ATOM	20820	C8	GUA	106	132.427	65.133	4.512	1.00	33.04	F
ATOM	20768	N2	GUA	125.943	59.836	9.730	1.00	62.99	Al6S	ATOM	20821	C2' GUA	106	135.880	64.886	5.387	1.00	40.06	F	
ATOM	20769	N1	GUA	126.325	60.004	7.469	1.00	62.99	Al6S	ATOM	20822	O2' GUA	106	136.862	64.005	5.865	1.00	40.06	F	
ATOM	20770	C6	GUA	126.248	60.562	6.203	1.00	62.99	Al6S	ATOM	20823	C3' GUA	106	135.623	66.024	6.352	1.00	40.06	F	
ATOM	20771	O6	GUA	126.807	60.010	5.248	1.00	62.99	Al6S	ATOM	20824	O3' GUA	106	136.827	66.611	6.813	1.00	40.06	F	
ATOM	20772	C5	GUA	125.499	61.747	6.208	1.00	62.99	Al6S	ATOM	20825	P	URI	107	137.175	68.124	6.386	1.00	42.78	F
ATOM	20773	N7	GUA	125.177	62.607	5.171	1.00	62.99	Al6S	ATOM	20826	O1P URI	107	137.908	68.774	7.511	1.00	38.76	F	
ATOM	20774	C8	GUA	124.478	63.548	5.739	1.00	62.99	Al6S	ATOM	20827	O2P URI	107	135.904	68.740	5.880	1.00	38.76	F	
ATOM	20775	C2' GUA	104	124.723	65.191	8.696	1.00	42.73	Al6S	ATOM	20828	O5' URI	107	138.151	67.940	5.145	1.00	42.78	F	
ATOM	20776	O2' GUA	104	124.321	65.623	9.986	1.00	42.73	Al6S	ATOM	20829	C5' URI	107	139.083	66.881	5.110	1.00	42.78	F	
ATOM	20777	C3' GUA	104	124.735	66.347	7.721	1.00	42.73	Al6S	ATOM	20830	C4' URI	107	139.274	66.436	3.696	1.00	42.78	F	
ATOM	20778	O3' GUA	104	125.216	67.508	8.348	1.00	42.73	Al6S	ATOM	20831	O4' URI	107	138.018	65.905	3.227	1.00	42.78	F	
ATOM	20779	P	GUA	126.526	68.218	7.767	1.00	54.03	Al6S	ATOM	20832	C1' URI	107	137.941	66.060	1.822	1.00	42.78	F	
ATOM	20780	O1P GUA	105	126.683	69.469	8.568	1.00	42.62	Al6S	ATOM	20833	N1	URI	107	136.643	66.661	1.486	1.00	38.76	F
ATOM	20781	O2P GUA	105	126.361	68.288	6.285	1.00	42.62	Al6S	ATOM	20834	C6	URI	107	135.859	67.235	2.439	1.00	38.76	F
ATOM	20782	O5' GUA	105	127.715	67.212	8.120	1.00	54.03	Al6S	ATOM	20835	C2	URI	107	136.231	66.599	0.175	1.00	38.76	F
ATOM	20783	C5' GUA	105	128.141	67.052	9.469	1.00	54.03	Al6S	ATOM	20836	O2	URI	107	136.920	66.142	-0.718	1.00	38.76	F
ATOM	20784	C4' GUA	105	129.155	65.938	9.587	1.00	54.03	Al6S	ATOM	20837	N3	URI	107	134.986	67.096	-0.061	1.00	38.76	F
ATOM	20785	O4' GUA	105	128.560	64.681	9.183	1.00	54.03	Al6S	ATOM	20838	C4	URI	107	134.143	67.654	0.847	1.00	38.76	F
ATOM	20786	C1' GUA	105	129.559	63.844	8.634	1.00	54.03	Al6S	ATOM	20839	O4	URI	107	133.020	68.002	0.486	1.00	38.76	F
ATOM	20787	N9	GUA	129.289	63.731	7.214	1.00	42.62	Al6S	ATOM	20840	C5	URI	107	134.658	67.724	2.173	1.00	38.76	F
ATOM	20788	C4	GUA	130.070	63.100	6.288	1.00	42.62	Al6S	ATOM	20841	C2' URI	107	139.167	66.860	1.387	1.00	42.78	F	
ATOM	20789	N3	GUA	131.203	62.421	6.545	1.00	42.62	Al6S	ATOM	20842	O2' URI	107	140.180	65.959	0.998	1.00	42.78	F	
ATOM	20790	C2	GUA	131.747	61.947	5.444	1.00	42.62	Al6S	ATOM	20843	C3' URI	107	139.551	67.537	2.688	1.00	42.78	F	
ATOM	20791	N2	GUA	132.883	61.246	5.516	1.00	42.62	Al6S	ATOM	20844	O3' URI	107	140.918	67.901	2.656	1.00	42.78	F	
ATOM	20792	N1	GUA	131.216	62.135	4.191	1.00	42.62	Al6S	ATOM	20845	P	GUA	108	141.323	69.381	2.202	1.00	42.23	F
ATOM	20793	C6	GUA	130.057	62.849	3.915	1.00	42.62	Al6S	ATOM	20846	O1P GUA	108	142.688	69.652	2.708	1.00	33.72	F	
ATOM	20794	O6	GUA	129.689	63.006	2.752	1.00	42.62	Al6S	ATOM	20847	O2P GUA	108	140.211	70.259	2.615	1.00	33.72	F	

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ATOM 20848	OS' GUA	108	141.292	69.332	0.610	1.00	42.23	Al6S	ATOM 20901	C2	GUA	110	137.029	68.434	-9.746	1.00	46.83
ATOM 20849	C5' GUA	108	142.070	68.406	-0.136	1.00	42.23	Al6S	ATOM 20902	N2	GUA	110	135.863	68.419	-10.421	1.00	46.83
ATOM 20850	C4' GUA	108	141.674	68.490	-1.588	1.00	42.23	Al6S	ATOM 20903	N1	GUA	110	137.152	69.378	-8.758	1.00	46.83
ATOM 20851	O4' GUA	108	140.265	68.234	-1.636	1.00	42.23	Al6S	ATOM 20904	C6	GUA	110	138.271	69.560	-7.964	1.00	46.83
ATOM 20852	C1' GUA	108	139.634	69.118	-2.527	1.00	42.23	Al6S	ATOM 20905	O6	GUA	110	138.263	70.411	-7.077	1.00	46.83
ATOM 20853	N9 GUA	108	138.358	69.493	-1.931	1.00	33.72	Al6S	ATOM 20906	C5	GUA	110	139.303	68.665	-8.312	1.00	46.83
ATOM 20854	C4 GUA	108	137.191	69.736	-2.601	1.00	33.72	Al6S	ATOM 20907	N7	GUA	110	140.583	68.532	-7.796	1.00	46.83
ATOM 20855	N3 GUA	108	137.045	69.774	-3.936	1.00	33.72	Al6S	ATOM 20908	C8	GUA	110	141.094	67.531	-8.459	1.00	46.83
ATOM 20856	C2 GUA	108	135.794	70.000	-4.284	1.00	33.72	Al6S	ATOM 20909	C2' GUA	110	140.590	66.176	-11.713	1.00	46.31	
ATOM 20857	N2 GUA	108	135.478	70.099	-5.586	1.00	33.72	Al6S	ATOM 20910	O2' GUA	110	140.178	65.069	-12.471	1.00	46.31	
ATOM 20858	N1 GUA	108	134.763	70.155	-3.386	1.00	33.72	Al6S	ATOM 20911	C3' GUA	110	142.080	66.446	-11.845	1.00	46.31	
ATOM 20859	C6 GUA	108	134.900	70.117	-2.008	1.00	33.72	Al6S	ATOM 20912	O3' GUA	110	142.506	66.212	-13.179	1.00	46.31	
ATOM 20860	O6 GUA	108	133.918	70.271	-1.293	1.00	33.72	Al6S	ATOM 20913	P	URI	111	142.794	67.454	-14.155	1.00	43.68
ATOM 20861	C5 GUA	108	136.233	69.894	-1.625	1.00	33.72	Al6S	ATOM 20914	O1P URI	111	143.032	66.896	-15.509	1.00	47.76	
ATOM 20862	N7 GUA	108	136.796	69.798	-0.364	1.00	33.72	Al6S	ATOM 20915	O2P URI	111	143.815	68.328	-13.519	1.00	47.76	
ATOM 20863	C8 GUA	108	138.062	69.577	-0.594	1.00	33.72	Al6S	ATOM 20916	O5' URI	111	141.405	68.223	-14.238	1.00	43.68	
ATOM 20864	C2' GUA	108	140.627	70.168	-3.038	1.00	42.23	Al6S	ATOM 20917	C5' URI	111	140.301	67.630	-14.912	1.00	43.68	
ATOM 20865	O2' GUA	108	140.738	70.097	-4.448	1.00	42.23	Al6S	ATOM 20918	C4' URI	111	139.062	68.469	-14.726	1.00	43.68	
ATOM 20866	C3' GUA	108	141.879	69.867	-2.201	1.00	42.23	Al6S	ATOM 20919	O4' URI	111	138.741	68.553	-13.312	1.00	43.68	
ATOM 20867	O3' GUA	108	143.226	70.011	-2.718	1.00	42.23	Al6S	ATOM 20920	C1' URI	111	138.170	69.813	-13.026	1.00	43.68	
ATOM 20868	P ADE	109	143.675	69.436	-4.170	1.00	38.37	Al6S	ATOM 20921	N1	URI	111	139.017	70.505	-12.048	1.00	47.76
ATOM 20869	O1P ADE	109	145.113	69.740	-4.180	1.00	45.82	Al6S	ATOM 20922	C6	URI	111	140.317	70.141	-11.821	1.00	47.76
ATOM 20870	O2P ADE	109	142.840	69.920	-5.300	1.00	45.82	Al6S	ATOM 20923	C2	URI	111	138.448	71.552	-11.369	1.00	47.76
ATOM 20871	O5' ADE	109	143.601	67.849	-4.106	1.00	38.37	Al6S	ATOM 20924	O2	URI	111	137.285	71.880	-11.537	1.00	47.76
ATOM 20872	C5' ADE	109	144.790	67.063	-4.310	1.00	38.37	Al6S	ATOM 20925	N3	URI	111	139.279	72.202	-10.487	1.00	47.76
ATOM 20873	O4' ADE	109	144.532	65.908	-5.261	1.00	38.37	Al6S	ATOM 20926	C4	URI	111	140.590	71.908	-10.229	1.00	47.76
ATOM 20874	C4' ADE	109	143.485	65.045	-4.724	1.00	38.37	Al6S	ATOM 20927	O4	URI	111	141.230	72.634	-9.479	1.00	47.76
ATOM 20875	C1' ADE	109	142.569	64.707	-5.754	1.00	38.37	Al6S	ATOM 20928	C5	URI	111	141.104	70.790	-10.957	1.00	47.76
ATOM 20876	N9 ADE	109	141.384	65.545	-5.583	1.00	45.82	Al6S	ATOM 20929	C2' URI	111	138.058	70.554	-14.354	1.00	43.68	
ATOM 20877	C4 ADE	109	140.165	65.342	-6.163	1.00	45.82	Al6S	ATOM 20930	O2' URI	111	136.799	70.226	-14.904	1.00	43.68	
ATOM 20878	N3 ADE	109	139.821	64.341	-6.974	1.00	45.82	Al6S	ATOM 20931	C3' URI	111	139.189	69.916	-15.147	1.00	43.68	
ATOM 20879	C2 ADE	109	138.563	64.469	-7.348	1.00	45.82	Al6S	ATOM 20932	O3' URI	111	138.969	70.010	-16.542	1.00	43.68	
ATOM 20880	N1 ADE	109	137.676	65.413	-7.028	1.00	45.82	Al6S	ATOM 20933	P	ADE	112	139.784	71.089	-17.399	1.00	56.01
ATOM 20881	C6 ADE	109	138.056	66.404	-6.208	1.00	45.82	Al6S	ATOM 20934	O1P ADE	112	139.345	70.967	-18.810	1.00	41.20	
ATOM 20882	N6 ADE	109	137.165	67.341	-5.888	1.00	45.82	Al6S	ATOM 20935	O2P ADE	112	141.220	70.950	-17.062	1.00	41.20	
ATOM 20883	C5 ADE	109	139.366	66.386	-5.742	1.00	45.82	Al6S	ATOM 20936	O5' ADE	112	139.263	72.488	-16.852	1.00	56.01	
ATOM 20884	N7 ADE	109	140.068	67.237	-4.903	1.00	45.82	Al6S	ATOM 20937	C5' ADE	112	138.045	73.043	-17.327	1.00	56.01	
ATOM 20885	C8 ADE	109	141.256	66.694	-4.836	1.00	45.82	Al6S	ATOM 20938	C4' ADE	112	138.294	74.422	-17.864	1.00	56.01	
ATOM 20886	C2' ADE	109	143.276	65.043	-7.064	1.00	38.37	Al6S	ATOM 20939	O4' ADE	112	138.765	75.247	-16.785	1.00	56.01	
ATOM 20887	O2' ADE	109	144.130	63.982	-7.426	1.00	38.37	Al6S	ATOM 20940	C1' ADE	112	139.666	76.202	-17.286	1.00	56.01	
ATOM 20888	C3' ADE	109	144.056	66.284	-6.658	1.00	38.37	Al6S	ATOM 20941	N9 ADE	112	140.741	76.373	-16.323	1.00	41.20	
ATOM 20889	O3' ADE	109	145.162	66.496	-7.528	1.00	38.37	Al6S	ATOM 20942	C4	ADE	112	140.877	77.462	-15.506	1.00	41.20
ATOM 20890	P GUA	110	145.078	67.622	-8.673	1.00	46.31	Al6S	ATOM 20943	N3	ADE	112	140.065	78.528	-15.436	1.00	41.20
ATOM 20891	O1P GUA	110	144.652	68.908	-7.983	1.00	46.83	Al6S	ATOM 20944	C2	ADE	112	140.514	79.400	-14.534	1.00	41.20
ATOM 20892	O2P GUA	110	146.367	67.584	-9.418	1.00	46.83	Al6S	ATOM 20945	N1	ADE	112	141.603	79.332	-13.760	1.00	41.20
ATOM 20893	C5' GUA	110	143.923	67.093	-9.648	1.00	46.31	Al6S	ATOM 20946	C6	ADE	112	142.397	78.244	-13.863	1.00	41.20
ATOM 20894	O5' GUA	110	144.016	65.816	-10.277	1.00	46.31	Al6S	ATOM 20947	N6	ADE	112	143.490	78.179	-13.110	1.00	41.20
ATOM 20895	C4' GUA	110	142.688	65.428	-10.893	1.00	46.31	Al6S	ATOM 20948	C5	ADE	112	142.023	77.243	-14.773	1.00	41.20
ATOM 20896	O4' GUA	110	141.713	65.276	-9.837	1.00	46.31	Al6S	ATOM 20949	N7	ADE	112	142.595	76.026	-15.112	1.00	41.20
ATOM 20897	C1' GUA	110	140.477	65.840	-10.230	1.00	46.31	Al6S	ATOM 20950	C8	ADE	112	141.794	75.551	-16.034	1.00	41.20
ATOM 20898	N9 GUA	110	140.228	66.995	-9.376	1.00	46.83	Al6S	ATOM 20951	C2' ADE	112	140.095	75.805	-18.699	1.00	56.01	
ATOM 20899	C4 GUA	110	139.079	67.742	-9.306	1.00	46.83	Al6S	ATOM 20952	O2' ADE	112	139.787	76.806	-19.639	1.00	56.01	
ATOM 20900	N3 GUA	110	137.977	67.569	-10.056	1.00	46.83	Al6S	ATOM 20953	C3' ADE	112	139.403	74.458	-18.892	1.00	56.01	

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ATOM	20954	O3' ADE	112	138.929	74.154	-20.213	1.00	56.01	Al6S	ATOM	21007	N3	GUA	115	133.448	76.277	-12.802	1.00	45.43	A	
ATOM	20955	P ADE	113	137.629	74.900	-20.832	1.00	58.47	Al6S	ATOM	21008	C2	GUA	115	133.842	77.518	-12.989	1.00	45.43	A	
ATOM	20956	O1P ADE	113	137.552	74.425	-22.238	1.00	45.85	Al6S	ATOM	21009	N2	GUA	115	134.554	78.147	-12.045	1.00	45.43	A	
ATOM	20957	O2P ADE	113	137.580	76.355	-20.560	1.00	45.85	Al6S	ATOM	21010	N1	GUA	115	133.569	78.238	-14.112	1.00	45.43	A	
ATOM	20958	O5' ADE	113	136.404	74.239	-20.071	1.00	58.47	Al6S	ATOM	21011	C6	GUA	115	132.853	77.780	-15.201	1.00	45.43	A	
ATOM	20959	C5' ADE	113	135.921	72.959	-20.444	1.00	58.47	Al6S	ATOM	21012	O6	GUA	115	132.663	78.521	-16.162	1.00	45.43	A	
ATOM	20960	C4' ADE	113	134.757	72.586	-19.566	1.00	58.47	Al6S	ATOM	21013	C5	GUA	115	132.426	76.458	-15.021	1.00	45.43	A	
ATOM	20961	C4' ADE	113	135.202	72.634	-18.183	1.00	58.47	Al6S	ATOM	21014	N7	GUA	115	131.691	75.629	-15.856	1.00	45.43	A	
ATOM	20962	C1' ADE	113	134.213	73.238	-17.380	1.00	58.47	Al6S	ATOM	21015	C8	GUA	115	131.571	74.522	-15.181	1.00	45.43	A	
ATOM	20963	N9 ADE	113	134.777	74.475	-16.840	1.00	45.85	Al6S	ATOM	21016	C2'	GUA	115	131.209	73.883	-11.774	1.00	41.19	A	
ATOM	20964	C4 ADE	113	135.379	74.592	-15.611	1.00	45.85	Al6S	ATOM	21017	O2'	GUA	115	131.671	73.359	-10.548	1.00	41.19	A	
ATOM	20965	N3 ADE	113	135.528	73.630	-14.686	1.00	45.85	Al6S	ATOM	21018	C3'	GUA	115	129.930	73.203	-12.235	1.00	41.19	A	
ATOM	20966	C2 ADE	113	136.169	74.108	-13.610	1.00	45.85	Al6S	ATOM	21019	O3'	GUA	115	129.067	72.916	-11.148	1.00	41.19	A	
ATOM	20967	N1 ADE	113	136.647	75.342	-13.380	1.00	45.85	Al6S	ATOM	21020	P	CYT	116	127.865	73.929	-10.804	1.00	39.16	A	
ATOM	20968	C6 ADE	113	136.490	76.278	-14.339	1.00	45.85	Al6S	ATOM	21021	O1P	CYT	116	127.134	73.364	-9.642	1.00	33.85	A	
ATOM	20969	N6 ADE	113	136.990	77.495	-14.119	1.00	45.85	Al6S	ATOM	21022	O2P	CYT	116	127.128	74.209	-12.067	1.00	33.85	A	
ATOM	20970	C5 ADE	113	135.813	75.903	-15.521	1.00	45.85	Al6S	ATOM	21023	O5'	CYT	116	128.617	75.260	-10.358	1.00	39.16	A	
ATOM	20971	N7 ADE	113	135.472	76.606	-16.665	1.00	45.85	Al6S	ATOM	21024	C5'	CYT	116	129.516	75.251	-9.256	1.00	39.16	A	
ATOM	20972	C8 ADE	113	134.855	75.717	-17.412	1.00	45.85	Al6S	ATOM	21025	C4'	CYT	116	130.267	76.557	-9.181	1.00	39.16	A	
ATOM	20973	C2' ADE	113	132.960	73.367	-18.249	1.00	58.47	Al6S	ATOM	21026	O4'	CYT	116	131.111	76.694	-10.352	1.00	39.16	A	
ATOM	20974	O2' ADE	113	132.254	72.145	-18.171	1.00	58.47	Al6S	ATOM	21027	C1'	CYT	116	131.182	78.057	-10.739	1.00	39.16	A	
ATOM	20975	C3' ADE	113	133.560	73.522	-19.638	1.00	58.47	Al6S	ATOM	21028	N1	CYT	116	130.599	78.181	-12.082	1.00	33.85	A	
ATOM	20976	O3' ADE	113	132.658	73.038	-20.637	1.00	58.47	Al6S	ATOM	21029	C6	CYT	116	129.815	77.191	-12.594	1.00	33.85	A	
ATOM	20977	P	CYT	114	131.527	74.009	-21.250	1.00	65.55	Al6S	ATOM	21030	C2	CYT	116	130.844	79.338	-12.821	1.00	33.85	A
ATOM	20978	O1P	CYT	114	130.675	73.196	-22.153	1.00	41.06	Al6S	ATOM	21031	O2	CYT	116	131.584	80.206	-12.350	1.00	33.85	A
ATOM	20979	O2P	CYT	114	132.223	75.191	-21.800	1.00	41.06	Al6S	ATOM	21032	N3	CYT	116	130.268	79.484	-14.030	1.00	33.85	A
ATOM	20980	O5'	CYT	114	130.637	74.433	-19.989	1.00	65.55	Al6S	ATOM	21033	C4	CYT	116	129.473	78.528	-14.506	1.00	33.85	A
ATOM	20981	C5'	CYT	114	129.641	73.552	-19.448	1.00	65.55	Al6S	ATOM	21034	N4	CYT	116	128.888	78.734	-15.683	1.00	33.85	A
ATOM	20982	C4'	CYT	114	128.832	74.259	-18.379	1.00	65.55	Al6S	ATOM	21035	C5	CYT	116	129.235	77.322	-13.791	1.00	33.85	A
ATOM	20983	O4'	CYT	114	128.444	75.533	-18.901	1.00	65.55	Al6S	ATOM	21036	C2'	CYT	116	130.400	78.849	-9.694	1.00	39.16	A
ATOM	20984	C1'	CYT	114	127.336	75.989	-18.178	1.00	65.55	Al6S	ATOM	21037	O2'	CYT	116	131.261	79.275	-8.660	1.00	39.16	A
ATOM	20985	N1	CYT	114	126.579	76.949	-18.992	1.00	41.06	Al6S	ATOM	21038	C3'	CYT	116	129.410	77.803	-9.218	1.00	39.16	A
ATOM	20986	C6	CYT	114	126.425	76.764	-20.335	1.00	41.06	Al6S	ATOM	21039	O3'	CYT	116	128.903	78.117	-7.940	1.00	39.16	A
ATOM	20987	C2	CYT	114	126.033	78.082	-18.367	1.00	41.06	Al6S	ATOM	21040	P	GUA	117	127.439	78.759	-7.819	1.00	41.89	A
ATOM	20988	O2	CYT	114	126.150	78.216	-17.143	1.00	41.06	Al6S	ATOM	21041	O1P	GUA	117	127.108	78.799	-6.369	1.00	36.17	A
ATOM	20989	N3	CYT	114	125.387	78.998	-19.116	1.00	41.06	Al6S	ATOM	21042	O2P	GUA	117	126.540	78.045	-8.771	1.00	36.17	A
ATOM	20990	C4	CYT	114	125.260	78.815	-20.431	1.00	41.06	Al6S	ATOM	21043	O5'	GUA	117	127.616	80.255	-8.331	1.00	41.89	A
ATOM	20991	N4	CYT	114	124.619	79.750	-21.130	1.00	41.06	Al6S	ATOM	21044	C5'	GUA	117	128.360	81.208	-7.574	1.00	41.89	A
ATOM	20992	C5	CYT	114	125.782	77.665	-21.085	1.00	41.06	Al6S	ATOM	21045	C4'	GUA	117	128.493	82.503	-8.348	1.00	41.89	A
ATOM	20993	C2'	CYT	114	126.598	74.774	-17.613	1.00	65.55	Al6S	ATOM	21046	O4'	GUA	117	129.207	82.246	-9.584	1.00	41.89	A
ATOM	20994	O2'	CYT	114	126.464	74.932	-16.213	1.00	65.55	Al6S	ATOM	21047	C1'	GUA	117	128.773	83.148	-10.577	1.00	41.89	A
ATOM	20995	C3'	CYT	114	127.517	73.597	-17.968	1.00	65.55	Al6S	ATOM	21048	N9	GUA	117	128.287	82.385	-11.718	1.00	36.17	A
ATOM	20996	O3'	CYT	114	127.569	72.877	-16.721	1.00	65.55	Al6S	ATOM	21049	C4	GUA	117	128.062	82.883	-12.974	1.00	36.17	A
ATOM	20997	P	GUA	115	128.820	71.929	-16.329	1.00	41.19	Al6S	ATOM	21050	N3	GUA	117	128.238	84.159	-13.354	1.00	36.17	A
ATOM	20998	O1P	GUA	115	128.340	70.523	-16.445	1.00	45.43	Al6S	ATOM	21051	C2	GUA	117	127.928	84.343	-14.617	1.00	36.17	A
ATOM	20999	O2P	GUA	115	130.062	72.318	-17.014	1.00	45.43	Al6S	ATOM	21052	N2	GUA	117	128.030	85.564	-15.155	1.00	36.17	A
ATOM	21000	O5'	GUA	115	129.064	72.283	-14.795	1.00	41.19	Al6S	ATOM	21053	N1	GUA	117	127.492	83.349	-15.448	1.00	36.17	A
ATOM	21001	C5'	GUA	115	129.547	71.305	-13.892	1.00	41.19	Al6S	ATOM	21054	C6	GUA	117	127.303	82.025	-15.082	1.00	36.17	A
ATOM	21002	C4'	GUA	115	130.456	71.936	-12.874	1.00	41.19	Al6S	ATOM	21055	O6	GUA	117	126.887	81.209	-15.915	1.00	36.17	A
ATOM	21003	O4'	GUA	115	131.685	72.352	-13.523	1.00	41.19	Al6S	ATOM	21056	C5	GUA	117	127.624	81.815	-13.722	1.00	36.17	A
ATOM	21004	C1'	GUA	115	132.165	73.543	-12.923	1.00	41.19	Al6S	ATOM	21057	N7	GUA	117	127.564	80.664	-12.948	1.00	36.17	A
ATOM	21005	N9	GUA	115	132.171	74.578	-13.947	1.00	45.43	Al6S	ATOM	21058	C8	GUA	117	127.970	81.052	-11.766	1.00	36.17	A
ATOM	21006	C4	GUA	115	132.746	75.814	-13.850	1.00	45.43	Al6S	ATOM	21059	C2'	GUA	117	127.694	84.030	-9.953	1.00	41.89	A

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ATOM	21060	O2' GUA	117	128.284	85.236	-9.509	1.00	41.89	A16S	ATOM	21113	C1' GUA	120	116.929	83.789	-17.749	1.00	45.56	A
ATOM	21061	C3' GUA	117	127.196	83.140	-8.822	1.00	41.89	A16S	ATOM	21114	N9 GUA	120	117.443	82.660	-16.995	1.00	40.93	A
ATOM	21062	O3' GUA	117	126.592	83.907	-7.788	1.00	41.89	A16S	ATOM	21115	N4 GUA	120	117.737	81.422	-17.505	1.00	40.93	A
ATOM	21063	P URI	118	124.995	83.863	-7.577	1.00	41.07	A16S	ATOM	21116	C3 GUA	120	117.623	81.052	-18.796	1.00	40.93	A
ATOM	21064	O1P URI	118	124.773	84.391	-6.194	1.00	35.98	A16S	ATOM	21117	C2 GUA	120	117.968	79.785	-18.981	1.00	40.93	A
ATOM	21065	O2P URI	118	124.402	82.568	-7.986	1.00	35.98	A16S	ATOM	21118	N2 GUA	120	117.900	79.244	-20.209	1.00	40.93	A
ATOM	21066	O5' URI	118	124.433	84.915	-8.623	1.00	41.07	A16S	ATOM	21119	N1 GUA	120	118.400	78.957	-17.982	1.00	40.93	A
ATOM	21067	C5' URI	118	125.023	86.204	-8.757	1.00	41.07	A16S	ATOM	21120	C6 GUA	120	118.526	79.318	-16.645	1.00	40.93	A
ATOM	21068	C4' URI	118	124.750	86.739	-10.134	1.00	41.07	A16S	ATOM	21121	O6 GUA	120	118.926	78.489	-15.821	1.00	40.93	A
ATOM	21069	O4' URI	118	125.534	86.011	-11.110	1.00	41.07	A16S	ATOM	21122	C5 GUA	120	118.151	80.673	-16.428	1.00	40.93	A
ATOM	21070	C1' URI	118	124.850	86.009	-12.345	1.00	41.07	A16S	ATOM	21123	N7 GUA	120	118.124	81.431	-15.259	1.00	40.93	A
ATOM	21071	N1 URI	118	124.749	84.630	-12.840	1.00	35.98	A16S	ATOM	21124	C8 GUA	120	117.705	82.604	-15.647	1.00	40.93	A
ATOM	21072	C6 URI	118	124.813	83.536	-12.006	1.00	35.98	A16S	ATOM	21125	C2' GUA	120	115.546	83.445	-18.295	1.00	45.56	A
ATOM	21073	C2 URI	118	124.564	84.471	-14.207	1.00	35.98	A16S	ATOM	21126	O2' GUA	120	115.340	84.045	-19.558	1.00	45.56	A
ATOM	21074	O2 URI	118	124.518	85.409	-14.981	1.00	35.98	A16S	ATOM	21127	C3' GUA	120	114.654	83.967	-17.174	1.00	45.56	A
ATOM	21075	N3 URI	118	124.436	83.177	-14.635	1.00	35.98	A16S	ATOM	21128	O3' GUA	120	113.329	84.236	-17.614	1.00	45.56	A
ATOM	21076	C4 URI	118	124.484	82.044	-13.865	1.00	35.98	A16S	ATOM	21129	P GUA	121	112.191	83.115	-17.426	1.00	55.00	A
ATOM	21077	O4 URI	118	124.509	80.946	-14.435	1.00	35.98	A16S	ATOM	21130	O1P GUA	121	110.896	83.650	-17.893	1.00	36.23	A
ATOM	21078	C5 URI	118	124.684	82.281	-12.458	1.00	35.98	A16S	ATOM	21131	O2P GUA	121	112.315	82.624	-16.030	1.00	36.23	A
ATOM	21079	C2' URI	118	123.490	86.672	-12.114	1.00	41.07	A16S	ATOM	21132	O5' GUA	121	112.602	81.988	-18.475	1.00	55.00	A
ATOM	21080	O2' URI	118	123.549	88.032	-12.510	1.00	41.07	A16S	ATOM	21133	C5' GUA	121	112.592	82.280	-19.862	1.00	55.00	A
ATOM	21081	C3' URI	118	123.334	86.513	-10.611	1.00	41.07	A16S	ATOM	21134	C4' GUA	121	112.945	81.057	-20.660	1.00	55.00	A
ATOM	21082	O3' URI	118	122.449	87.458	-10.039	1.00	41.07	A16S	ATOM	21135	O4' GUA	121	114.293	80.653	-20.331	1.00	55.00	A
ATOM	21083	P GUA	119	120.938	87.023	-9.702	1.00	37.23	A16S	ATOM	21136	C1' GUA	121	114.410	79.247	-20.453	1.00	55.00	A
ATOM	21084	O1P GUA	119	120.338	88.114	-8.884	1.00	52.42	A16S	ATOM	21137	N9 GUA	121	114.825	78.727	-19.159	1.00	36.23	A
ATOM	21085	O2P GUA	119	120.951	85.644	-9.174	1.00	52.42	A16S	ATOM	21138	C4 GUA	121	115.237	77.452	-18.891	1.00	36.23	A
ATOM	21086	O5' GUA	119	120.216	87.019	-11.124	1.00	37.23	A16S	ATOM	21139	N3 GUA	121	115.340	76.454	-19.783	1.00	36.23	A
ATOM	21087	C5' GUA	119	120.089	88.232	-11.846	1.00	37.23	A16S	ATOM	21140	C2 GUA	121	115.771	75.341	-19.228	1.00	36.23	A
ATOM	21088	C4' GUA	119	119.852	87.966	-13.308	1.00	37.23	A16S	ATOM	21141	N2 GUA	121	115.946	74.250	-19.978	1.00	36.23	A
ATOM	21089	O4' GUA	119	120.908	87.144	-13.868	1.00	37.23	A16S	ATOM	21142	N1 GUA	121	116.066	75.217	-17.902	1.00	36.23	A
ATOM	21090	C1' GUA	119	120.415	86.469	-15.015	1.00	37.23	A16S	ATOM	21143	C6 GUA	121	115.966	76.232	-16.965	1.00	36.23	A
ATOM	21091	N9 GUA	119	120.761	85.059	-14.905	1.00	52.42	A16S	ATOM	21144	O6 GUA	121	116.260	76.011	-15.794	1.00	36.23	A
ATOM	21092	C4 GUA	119	120.788	84.125	-15.921	1.00	52.42	A16S	ATOM	21145	C5 GUA	121	115.514	77.430	-17.544	1.00	36.23	A
ATOM	21093	N3 GUA	119	120.485	84.344	-17.219	1.00	52.42	A16S	ATOM	21146	N7 GUA	121	115.284	78.672	-16.974	1.00	36.23	A
ATOM	21094	C2 GUA	119	120.644	83.247	-17.956	1.00	52.42	A16S	ATOM	21147	C8 GUA	121	114.876	79.410	-17.971	1.00	36.23	A
ATOM	21095	N2 GUA	119	120.435	83.277	-19.272	1.00	52.42	A16S	ATOM	21148	C2' GUA	121	113.045	78.716	-20.894	1.00	55.00	A
ATOM	21096	N1 GUA	119	121.035	82.040	-17.460	1.00	52.42	A16S	ATOM	21149	O2' GUA	121	112.995	78.590	-22.302	1.00	55.00	A
ATOM	21097	C6 GUA	119	121.345	81.785	-16.135	1.00	52.42	A16S	ATOM	21150	C3' GUA	121	112.125	79.813	-20.383	1.00	55.00	A
ATOM	21098	O6 GUA	119	121.690	80.642	-15.797	1.00	52.42	A16S	ATOM	21151	O3' GUA	121	110.899	79.831	-21.098	1.00	55.00	A
ATOM	21099	C5 GUA	119	121.207	82.954	-15.329	1.00	52.42	A16S	ATOM	21152	P URI	122	109.615	79.103	-20.474	1.00	46.94	A
ATOM	21100	N7 GUA	119	121.435	83.145	-13.972	1.00	52.42	A16S	ATOM	21153	O1P URI	122	108.498	79.297	-21.416	1.00	47.46	A
ATOM	21101	C8 GUA	119	121.150	84.403	-13.767	1.00	52.42	A16S	ATOM	21154	O2P URI	122	109.463	79.525	-19.071	1.00	47.46	A
ATOM	21102	C2' GUA	119	118.918	86.767	-15.089	1.00	37.23	A16S	ATOM	21155	O5' URI	122	110.024	77.568	-20.462	1.00	46.94	A
ATOM	21103	O2' GUA	119	118.745	87.860	-15.962	1.00	37.23	A16S	ATOM	21156	C5' URI	122	110.105	76.813	-21.663	1.00	46.94	A
ATOM	21104	C3' GUA	119	118.618	87.181	-13.656	1.00	37.23	A16S	ATOM	21157	C4' URI	122	110.386	75.368	-21.333	1.00	46.94	A
ATOM	21105	O3' GUA	119	117.505	88.039	-13.598	1.00	37.23	A16S	ATOM	21158	O4' URI	122	111.678	75.257	-20.689	1.00	46.94	A
ATOM	21106	P GUA	120	116.029	87.418	-13.587	1.00	45.56	A16S	ATOM	21159	C1' URI	122	111.669	74.164	-19.795	1.00	46.94	A
ATOM	21107	O1P GUA	120	115.132	88.578	-13.372	1.00	40.93	A16S	ATOM	21160	N1 URI	122	112.131	74.640	-18.489	1.00	47.46	A
ATOM	21108	O2P GUA	120	115.979	86.268	-12.655	1.00	40.93	A16S	ATOM	21161	C6 URI	122	111.961	75.938	-18.113	1.00	47.46	A
ATOM	21109	O5' GUA	120	115.844	86.885	-15.078	1.00	45.56	A16S	ATOM	21162	C2 URI	122	112.741	73.731	-17.657	1.00	47.46	A
ATOM	21110	C5' GUA	120	115.084	85.720	-15.356	1.00	45.56	A16S	ATOM	21163	O2 URI	122	112.923	72.573	-17.977	1.00	47.46	A
ATOM	21111	C4' GUA	120	115.374	85.237	-16.755	1.00	45.56	A16S	ATOM	21164	N3 URI	122	113.134	74.228	-16.443	1.00	47.46	A
ATOM	21112	O4' GUA	120	116.777	84.880	-16.853	1.00	45.56	A16S	ATOM	21165	C4 URI	122	112.988	75.525	-15.998	1.00	47.46	A

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ATOM	21166	O4	URI	122	113.403	75.840	-14.882	1.00	47.46	Al6S	ATOM	21219	O2P	CYT	125	106.234	67.710	-21.509	1.00	38.01	Al
ATOM	21167	C5	URI	122	112.359	76.403	-16.928	1.00	47.46	Al6S	ATOM	21220	O5	CYT	125	108.558	67.754	-20.598	1.00	55.16	Al
ATOM	21168	C2	URI	122	110.253	73.585	-19.784	1.00	46.94	Al6S	ATOM	21221	C5	CYT	125	108.106	67.324	-19.322	1.00	55.16	Al
ATOM	21169	O2	URI	122	110.176	72.472	-20.654	1.00	46.94	Al6S	ATOM	21222	C4	CYT	125	109.191	66.545	-18.627	1.00	55.16	Al
ATOM	21170	C3	URI	122	109.433	74.741	-20.332	1.00	46.94	Al6S	ATOM	21223	O4	CYT	125	110.413	67.318	-18.624	1.00	55.16	Al
ATOM	21171	O3	URI	122	108.349	74.206	-21.061	1.00	46.94	Al6S	ATOM	21224	C1	CYT	125	111.078	67.158	-17.382	1.00	55.16	Al
ATOM	21172	P	GUA	123	106.849	74.364	-20.529	1.00	53.58	Al6S	ATOM	21225	N1	CYT	125	111.074	68.456	-16.689	1.00	38.01	Al
ATOM	21173	O1P	GUA	123	106.438	75.766	-20.748	1.00	47.40	Al6S	ATOM	21226	C6	CYT	125	110.320	69.494	-17.153	1.00	38.01	Al
ATOM	21174	O2P	GUA	123	106.740	73.780	-19.173	1.00	47.40	Al6S	ATOM	21227	C2	CYT	125	111.854	68.612	-17.526	1.00	38.01	Al
ATOM	21175	O5	GUA	123	106.073	73.461	-21.587	1.00	53.58	Al6S	ATOM	21228	O2	CYT	125	112.569	67.673	-15.148	1.00	38.01	Al
ATOM	21176	C5	GUA	123	106.749	72.402	-22.267	1.00	53.58	Al6S	ATOM	21229	N3	CYT	125	111.815	69.786	-14.853	1.00	38.01	Al
ATOM	21177	C4	GUA	123	106.654	72.580	-23.766	1.00	53.58	Al6S	ATOM	21230	C4	CYT	125	111.055	70.784	-15.306	1.00	38.01	Al
ATOM	21178	O4	GUA	123	105.256	72.709	-24.104	1.00	53.58	Al6S	ATOM	21231	N4	CYT	125	111.028	71.916	-14.595	1.00	38.01	Al
ATOM	21179	C1	GUA	123	105.103	73.580	-25.205	1.00	53.58	Al6S	ATOM	21232	C5	CYT	125	110.283	70.664	-16.605	1.00	38.01	Al
ATOM	21180	N9	GUA	123	103.985	74.483	-24.948	1.00	47.40	Al6S	ATOM	21233	C2	CYT	125	110.324	66.078	-16.609	1.00	55.16	Al
ATOM	21181	C4	GUA	123	102.915	74.667	-25.778	1.00	47.40	Al6S	ATOM	21234	O2	CYT	125	110.844	64.801	-16.917	1.00	55.16	Al
ATOM	21182	N3	GUA	123	102.728	74.055	-26.959	1.00	47.40	Al6S	ATOM	21235	C3	CYT	125	108.923	66.254	-17.162	1.00	55.16	Al
ATOM	21183	C2	GUA	123	101.592	74.405	-27.523	1.00	47.40	Al6S	ATOM	21236	O3	CYT	125	108.192	65.052	-17.024	1.00	55.16	Al
ATOM	21184	N2	GUA	123	101.245	73.872	-28.708	1.00	47.40	Al6S	ATOM	21237	P	CYT	126	107.175	64.890	-15.806	1.00	53.78	Al
ATOM	21185	N1	GUA	123	100.713	75.302	-26.977	1.00	47.40	Al6S	ATOM	21238	O1P	CYT	126	106.224	63.829	-16.196	1.00	50.85	Al
ATOM	21186	C6	GUA	123	100.891	75.959	-25.764	1.00	47.40	Al6S	ATOM	21239	O2P	CYT	126	106.678	66.235	-15.450	1.00	50.85	Al
ATOM	21187	O6	GUA	123	100.039	76.775	-25.370	1.00	47.40	Al6S	ATOM	21240	O5	CYT	126	108.065	64.351	-14.605	1.00	53.78	Al
ATOM	21188	C5	GUA	123	102.100	75.573	-25.138	1.00	47.40	Al6S	ATOM	21241	C5	CYT	126	108.764	63.126	-14.716	1.00	53.78	Al
ATOM	21189	N7	GUA	123	102.648	75.957	-23.923	1.00	47.40	Al6S	ATOM	21242	C4	CYT	126	109.743	63.002	-13.588	1.00	53.78	Al
ATOM	21190	C8	GUA	123	103.769	75.289	-23.853	1.00	47.40	Al6S	ATOM	21243	O4	CYT	126	110.687	64.098	-13.686	1.00	53.78	Al
ATOM	21191	C2	GUA	123	106.458	74.203	-25.549	1.00	53.58	Al6S	ATOM	21244	C1	CYT	126	111.137	64.448	-12.386	1.00	53.78	Al
ATOM	21192	O2	GUA	123	106.898	73.683	-26.782	1.00	53.58	Al6S	ATOM	21245	N1	CYT	126	110.869	65.864	-12.160	1.00	50.85	Al
ATOM	21193	C3	GUA	123	107.307	73.831	-24.332	1.00	53.58	Al6S	ATOM	21246	C6	CYT	126	110.074	66.579	-13.004	1.00	50.85	Al
ATOM	21194	O3	GUA	123	108.740	73.707	-24.497	1.00	53.58	Al6S	ATOM	21247	C2	CYT	126	111.425	66.459	-11.046	1.00	50.85	Al
ATOM	21195	P	ADE	124	109.400	72.757	-25.640	1.00	56.61	Al6S	ATOM	21248	O2	CYT	126	112.165	65.788	-10.330	1.00	50.85	Al
ATOM	21196	O1P	ADE	124	110.725	73.348	-25.848	1.00	61.98	Al6S	ATOM	21249	N3	CYT	126	111.150	67.744	-10.773	1.00	50.85	Al
ATOM	21197	O2P	ADE	124	108.568	72.434	-26.817	1.00	61.98	Al6S	ATOM	21250	C4	CYT	126	110.359	68.435	-11.584	1.00	50.85	Al
ATOM	21198	O5	ADE	124	109.699	71.403	-24.868	1.00	56.61	Al6S	ATOM	21251	N4	CYT	126	110.103	69.697	-11.268	1.00	50.85	Al
ATOM	21199	C5	ADE	124	109.315	70.142	-25.400	1.00	56.61	Al6S	ATOM	21252	C5	CYT	126	109.793	67.859	-12.755	1.00	50.85	Al
ATOM	21200	C4	ADE	124	109.741	69.060	-24.453	1.00	56.61	Al6S	ATOM	21253	C2	CYT	126	110.364	63.592	-11.382	1.00	53.78	Al
ATOM	21201	O4	ADE	124	111.176	69.010	-24.466	1.00	56.61	Al6S	ATOM	21254	O2	CYT	126	111.157	62.505	-10.965	1.00	53.78	Al
ATOM	21202	C1	ADE	124	111.667	68.894	-23.150	1.00	56.61	Al6S	ATOM	21255	C3	CYT	126	109.148	63.183	-12.202	1.00	53.78	Al
ATOM	21203	N9	ADE	124	112.671	69.936	-22.959	1.00	61.98	Al6S	ATOM	21256	O3	CYT	126	108.573	61.978	-11.712	1.00	53.78	Al
ATOM	21204	C4	ADE	124	113.919	69.767	-22.417	1.00	61.98	Al6S	ATOM	21257	P	URI	127	107.372	62.042	-10.646	1.00	49.11	Al
ATOM	21205	N3	ADE	124	114.432	68.646	-21.891	1.00	61.98	Al6S	ATOM	21258	O1P	URI	127	106.970	60.647	-10.382	1.00	48.15	Al
ATOM	21206	C2	ADE	124	115.694	68.844	-21.505	1.00	61.98	Al6S	ATOM	21259	O2P	URI	127	106.363	63.007	-11.130	1.00	48.15	Al
ATOM	21207	N1	ADE	124	116.444	69.951	-21.586	1.00	61.98	Al6S	ATOM	21260	O5	URI	127	108.050	62.614	-9.327	1.00	49.11	Al
ATOM	21208	C6	ADE	124	115.897	71.059	-22.125	1.00	61.98	Al6S	ATOM	21261	C5	URI	127	109.047	61.867	-8.653	1.00	49.11	Al
ATOM	21209	N6	ADE	124	116.648	72.161	-22.228	1.00	61.98	Al6S	ATOM	21262	C4	URI	127	109.586	62.662	-7.503	1.00	49.11	Al
ATOM	21210	C5	ADE	124	114.559	70.982	-22.560	1.00	61.98	Al6S	ATOM	21263	O4	URI	127	110.176	63.882	-8.019	1.00	49.11	Al
ATOM	21211	N7	ADE	124	113.711	71.916	-23.138	1.00	61.98	Al6S	ATOM	21264	C1	URI	127	109.962	64.946	-7.104	1.00	49.11	Al
ATOM	21212	C8	ADE	124	112.602	71.249	-23.342	1.00	61.98	Al6S	ATOM	21265	N1	URI	127	109.243	66.019	-7.805	1.00	48.15	Al
ATOM	21213	C2	ADE	124	110.487	68.788	-22.182	1.00	56.61	Al6S	ATOM	21266	C6	URI	127	108.588	65.785	-8.994	1.00	48.15	Al
ATOM	21214	O2	ADE	124	110.360	67.426	-21.847	1.00	56.61	Al6S	ATOM	21267	C2	URI	127	109.252	67.272	-7.240	1.00	48.15	Al
ATOM	21215	C3	ADE	124	109.337	69.344	-23.017	1.00	56.61	Al6S	ATOM	21268	O2	URI	127	109.807	67.514	-6.199	1.00	48.15	Al
ATOM	21216	O3	ADE	124	107.990	68.853	-22.835	1.00	56.61	Al6S	ATOM	21269	N3	URI	127	108.582	68.233	-7.948	1.00	48.15	Al
ATOM	21217	P	CYT	125	107.664	67.558	-22.910	1.00	55.16	Al6S	ATOM	21270	C4	URI	127	107.915	68.073	-9.142	1.00	48.15	Al
ATOM	21218	O1P	CYT	125	108.089	66.329	-22.657	1.00	38.01	Al6S	ATOM	21271	O4	URI	127	107.343	69.036	-9.647	1.00	48.15	Al

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ATOM	21272	C5	URI	127	107.945	66.747	-9.667	1.00	48.15	Al6S	ATOM	21325	O4'	CYT	130	104.779	65.574	4.399	1.00	58.52
ATOM	21273	C2'	URI	127	109.210	64.362	-5.905	1.00	49.11	Al6S	ATOM	21326	C1'	CYT	130	104.274	66.679	3.671	1.00	58.52
ATOM	21274	O2'	URI	127	110.131	63.971	-4.909	1.00	49.11	Al6S	ATOM	21327	N1	CYT	130	104.172	66.293	2.268	1.00	49.26
ATOM	21275	C3'	URI	127	108.534	63.152	-6.531	1.00	49.11	Al6S	ATOM	21328	C6	CYT	130	104.287	64.991	1.890	1.00	49.26
ATOM	21276	O3'	URI	127	108.295	62.164	-5.548	1.00	49.11	Al6S	ATOM	21329	C2	CYT	130	103.957	67.291	1.316	1.00	49.26
ATOM	21277	P	ADE	128	106.802	61.934	-5.008	1.00	59.89	Al6S	ATOM	21330	O2	CYT	130	103.852	68.472	1.697	1.00	49.26
ATOM	21278	O1P	ADE	128	106.049	61.239	-6.097	1.00	45.54	Al6S	ATOM	21331	N3	CYT	130	103.866	66.954	0.014	1.00	49.26
ATOM	21279	O2P	ADE	128	106.288	63.208	-4.435	1.00	45.54	Al6S	ATOM	21332	C4	CYT	130	103.981	65.682	-0.347	1.00	49.26
ATOM	21280	O5'	ADE	128	106.991	60.929	-3.792	1.00	59.89	Al6S	ATOM	21333	N4	CYT	130	103.884	65.397	-1.636	1.00	49.26
ATOM	21281	C5'	ADE	128	107.127	59.526	-3.991	1.00	59.89	Al6S	ATOM	21334	C5	CYT	130	104.199	64.643	0.605	1.00	49.26
ATOM	21282	C4'	ADE	128	107.794	58.919	-2.787	1.00	59.89	Al6S	ATOM	21335	C2'	CYT	130	102.912	67.052	4.251	1.00	58.52
ATOM	21283	O4'	ADE	128	109.180	59.333	-2.758	1.00	59.89	Al6S	ATOM	21336	O2'	CYT	130	103.053	68.109	5.168	1.00	58.52
ATOM	21284	C1'	ADE	128	109.565	59.620	-1.429	1.00	59.89	Al6S	ATOM	21337	C3'	CYT	130	102.484	65.738	4.889	1.00	58.52
ATOM	21285	N9	ADE	128	109.987	61.019	-1.377	1.00	45.54	Al6S	ATOM	21338	O3'	CYT	130	101.575	65.923	5.961	1.00	58.52
ATOM	21286	C4	ADE	128	110.520	61.680	-0.299	1.00	45.54	Al6S	ATOM	21339	P	CYT	131	100.015	65.646	5.720	1.00	59.48
ATOM	21287	N3	ADE	128	110.751	61.184	-0.926	1.00	45.54	Al6S	ATOM	21340	O1P	CYT	131	99.350	65.550	7.036	1.00	45.35
ATOM	21288	C2	ADE	128	111.270	62.118	1.719	1.00	45.54	Al6S	ATOM	21341	O2P	CYT	131	99.913	64.519	4.757	1.00	45.35
ATOM	21289	N1	ADE	128	111.555	63.395	1.444	1.00	45.54	Al6S	ATOM	21342	O5'	CYT	131	99.498	66.973	5.018	1.00	59.48
ATOM	21290	C6	ADE	128	111.299	63.861	0.203	1.00	45.54	Al6S	ATOM	21343	C5'	CYT	131	99.541	68.209	5.698	1.00	59.48
ATOM	21291	N6	ADE	128	111.562	65.142	-0.065	1.00	45.54	Al6S	ATOM	21344	C4'	CYT	131	99.166	69.315	4.756	1.00	59.48
ATOM	21292	C5	ADE	128	110.762	62.967	-0.730	1.00	45.54	Al6S	ATOM	21345	O4'	CYT	131	100.152	69.390	3.700	1.00	59.48
ATOM	21293	N7	ADE	128	110.392	63.117	-2.054	1.00	45.54	Al6S	ATOM	21346	C1'	CYT	131	99.528	69.800	2.497	1.00	59.48
ATOM	21294	C8	ADE	128	109.937	61.938	-2.390	1.00	45.54	Al6S	ATOM	21347	N1	CYT	131	99.786	68.788	1.465	1.00	45.35
ATOM	21295	C2'	ADE	128	108.379	59.280	-0.525	1.00	59.89	Al6S	ATOM	21348	C6	CYT	131	100.507	67.666	1.740	1.00	45.35
ATOM	21296	O2'	ADE	128	108.506	57.953	-0.085	1.00	59.89	Al6S	ATOM	21349	C2	CYT	131	99.303	69.012	0.193	1.00	45.35
ATOM	21297	O3'	ADE	128	107.215	59.427	-1.485	1.00	59.89	Al6S	ATOM	21350	O2	CYT	131	98.625	70.022	-0.010	1.00	45.35
ATOM	21298	O3'	ADE	128	106.114	58.622	-1.116	1.00	59.89	Al6S	ATOM	21351	N3	CYT	131	99.574	68.136	-0.786	1.00	45.35
ATOM	21299	P	CYT	129	104.736	59.314	-0.670	1.00	42.59	Al6S	ATOM	21352	C4	CYT	131	100.298	67.059	-0.520	1.00	45.35
ATOM	21300	O1P	CYT	129	103.762	58.208	-0.466	1.00	66.53	Al6S	ATOM	21353	N4	CYT	131	100.562	66.225	-1.526	1.00	45.35
ATOM	21301	O2P	CYT	129	104.397	60.416	-1.599	1.00	66.53	Al6S	ATOM	21354	C5	CYT	131	100.787	66.786	0.785	1.00	45.35
ATOM	21302	O5'	CYT	129	105.080	59.951	0.744	1.00	42.59	Al6S	ATOM	21355	O2'	CYT	131	98.051	70.018	2.803	1.00	59.48
ATOM	21303	C5'	CYT	129	105.415	59.121	1.835	1.00	42.59	Al6S	ATOM	21356	C2'	CYT	131	97.871	71.379	3.135	1.00	59.48
ATOM	21304	C4'	CYT	129	106.146	59.913	2.884	1.00	42.59	Al6S	ATOM	21357	C3'	CYT	131	97.868	69.102	4.003	1.00	59.48
ATOM	21305	O4'	CYT	129	107.388	60.417	2.325	1.00	42.59	Al6S	ATOM	21358	O3'	CYT	131	96.770	69.509	4.795	1.00	59.48
ATOM	21306	C1'	CYT	129	107.752	61.609	3.011	1.00	42.59	Al6S	ATOM	21359	P	GUA	132	95.394	68.706	4.699	1.00	60.52
ATOM	21307	N1	CYT	129	107.865	62.718	2.053	1.00	66.53	Al6S	ATOM	21360	O1P	GUA	132	94.699	68.984	5.975	1.00	43.30
ATOM	21308	C6	CYT	129	107.367	62.627	0.786	1.00	66.53	Al6S	ATOM	21361	O2P	GUA	132	95.708	67.312	4.307	1.00	43.30
ATOM	21309	O2	CYT	129	108.496	63.885	2.480	1.00	66.53	Al6S	ATOM	21362	O5'	GUA	132	94.619	69.369	3.480	1.00	60.52
ATOM	21310	O2	CYT	129	108.942	63.930	3.634	1.00	66.53	Al6S	ATOM	21363	C5'	GUA	132	94.283	70.742	3.491	1.00	60.52
ATOM	21311	N3	CYT	129	108.605	64.929	1.636	1.00	66.53	Al6S	ATOM	21364	C4'	GUA	132	93.846	71.168	2.116	1.00	60.52
ATOM	21312	C4	CYT	129	108.115	64.837	0.402	1.00	66.53	Al6S	ATOM	21365	O4'	GUA	132	94.977	71.142	1.201	1.00	60.52
ATOM	21313	N4	CYT	129	108.247	65.899	-0.401	1.00	66.53	Al6S	ATOM	21366	C1'	GUA	132	94.515	70.825	-0.107	1.00	60.52
ATOM	21314	C5	CYT	129	107.467	63.653	-0.065	1.00	66.53	Al6S	ATOM	21367	N9	GUA	132	95.197	69.620	-0.560	1.00	43.30
ATOM	21315	C2'	CYT	129	106.657	61.869	4.038	1.00	42.59	Al6S	ATOM	21368	C4	GUA	132	95.207	69.110	-1.837	1.00	43.30
ATOM	21316	O2'	CYT	129	107.010	61.164	5.200	1.00	42.59	Al6S	ATOM	21369	N3	GUA	132	94.612	69.653	-2.914	1.00	43.30
ATOM	21317	C3'	CYT	129	105.479	61.184	3.379	1.00	42.59	Al6S	ATOM	21370	C2	GUA	132	94.802	68.923	-3.998	1.00	43.30
ATOM	21318	O3'	CYT	129	104.456	60.932	4.326	1.00	42.59	Al6S	ATOM	21371	N2	GUA	132	94.293	69.311	-5.161	1.00	43.30
ATOM	21319	P	CYT	130	102.987	61.531	4.074	1.00	58.52	Al6S	ATOM	21372	N1	GUA	132	95.504	67.757	-4.019	1.00	43.30
ATOM	21320	O1P	CYT	130	102.098	61.053	5.157	1.00	49.26	Al6S	ATOM	21373	C6	GUA	132	96.112	67.174	-2.917	1.00	43.30
ATOM	21321	O2P	CYT	130	102.624	61.265	2.657	1.00	49.26	Al6S	ATOM	21374	O6	GUA	132	96.699	66.095	-3.037	1.00	43.30
ATOM	21322	O5'	CYT	130	103.160	63.101	4.277	1.00	58.52	Al6S	ATOM	21375	C5	GUA	132	95.939	67.949	-1.759	1.00	43.30
ATOM	21323	C5'	CYT	130	103.764	63.638	5.459	1.00	58.52	Al6S	ATOM	21376	N7	GUA	132	96.399	67.742	-0.472	1.00	43.30
ATOM	21324	C4'	CYT	130	103.795	65.147	5.379	1.00	58.52	Al6S	ATOM	21377	C8	GUA	132	95.936	68.759	0.205	1.00	43.30

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ATOM	21378	C2' GUA	132	93.004	70.606	-0.006	1.00	60.52	Al6S	ATOM	21431	C5' ADE	135	84.068	61.094	-5.747	1.00	72.79	Al
ATOM	21379	O2' GUA	132	92.333	71.814	-0.285	1.00	60.52	Al6S	ATOM	21432	C4' ADE	135	84.920	59.930	-6.198	1.00	72.79	Al
ATOM	21380	C3' GUA	132	92.862	70.224	1.457	1.00	60.52	Al6S	ATOM	21433	O4' ADE	135	86.326	60.299	-6.158	1.00	72.79	Al
ATOM	21381	O3' GUA	132	91.544	70.411	1.940	1.00	60.52	Al6S	ATOM	21434	C1' ADE	135	87.112	59.125	-6.012	1.00	72.79	Al
ATOM	21382	P' GUA	133	90.553	69.153	2.021	1.00	70.26	Al6S	ATOM	21435	N9 ADE	135	87.950	59.254	-4.821	1.00	52.87	Al
ATOM	21383	O1P GUA	133	89.387	69.576	2.828	1.00	64.41	Al6S	ATOM	21436	C4 ADE	135	89.045	58.470	-4.544	1.00	52.87	Al
ATOM	21384	O2P GUA	133	91.320	67.954	2.428	1.00	64.41	Al6S	ATOM	21437	N3 ADE	135	89.540	57.471	-5.297	1.00	52.87	Al
ATOM	21385	O5' GUA	133	90.105	68.956	0.510	1.00	70.26	Al6S	ATOM	21438	C2 ADE	135	90.624	56.952	-4.728	1.00	52.87	Al
ATOM	21386	C5' GUA	133	89.594	70.047	-0.231	1.00	70.26	Al6S	ATOM	21439	N1 ADE	135	91.221	57.287	-3.573	1.00	52.87	Al
ATOM	21387	C4' GUA	133	89.541	69.701	-1.694	1.00	70.26	Al6S	ATOM	21440	C6 ADE	135	90.689	58.284	-2.833	1.00	52.87	Al
ATOM	21388	O4' GUA	133	90.888	69.510	-2.199	1.00	70.26	Al6S	ATOM	21441	N6 ADE	135	91.271	58.594	-1.673	1.00	52.87	Al
ATOM	21389	C1' GUA	133	90.853	68.610	-3.300	1.00	70.26	Al6S	ATOM	21442	C5 ADE	135	89.542	58.927	-3.334	1.00	52.87	Al
ATOM	21390	N9 GUA	133	91.763	67.502	-3.030	1.00	64.41	Al6S	ATOM	21443	N7 ADE	135	88.772	59.976	-2.853	1.00	52.87	Al
ATOM	21391	C4 GUA	133	92.164	66.532	-3.925	1.00	64.41	Al6S	ATOM	21444	C8 ADE	135	87.842	60.132	-3.771	1.00	52.87	Al
ATOM	21392	N3 GUA	133	91.784	66.433	-5.216	1.00	64.41	Al6S	ATOM	21445	C2' ADE	135	86.137	57.957	-5.900	1.00	72.79	Al
ATOM	21393	C2 GUA	133	92.330	65.389	-5.815	1.00	64.41	Al6S	ATOM	21446	O2' ADE	135	85.901	57.431	-7.190	1.00	72.79	Al
ATOM	21394	N2 GUA	133	92.054	65.135	-7.098	1.00	64.41	Al6S	ATOM	21447	C3' ADE	135	84.907	58.667	-5.359	1.00	72.79	Al
ATOM	21395	N1 GUA	133	93.184	64.515	-5.200	1.00	64.41	Al6S	ATOM	21448	O3' ADE	135	83.754	57.882	-5.592	1.00	72.79	Al
ATOM	21396	C6 GUA	133	93.591	64.597	-3.873	1.00	64.41	Al6S	ATOM	21449	P' GUA	136	83.252	56.852	-4.462	1.00	83.19	Al
ATOM	21397	O6 GUA	133	94.368	63.749	-3.412	1.00	64.41	Al6S	ATOM	21450	O1P GUA	136	82.022	56.249	-5.042	1.00	40.99	Al
ATOM	21398	C5 GUA	133	93.011	65.712	-3.217	1.00	64.41	Al6S	ATOM	21451	O2P GUA	136	83.187	57.545	-3.150	1.00	40.99	Al
ATOM	21399	N7 GUA	133	93.145	66.155	-1.907	1.00	64.41	Al6S	ATOM	21452	O5' GUA	136	84.395	55.740	-4.386	1.00	83.19	Al
ATOM	21400	C8 GUA	133	92.389	67.218	-1.843	1.00	64.41	Al6S	ATOM	21453	C5' GUA	136	84.598	54.856	-5.477	1.00	83.19	Al
ATOM	21401	C2' GUA	133	89.403	68.151	-3.454	1.00	70.26	Al6S	ATOM	21454	C4' GUA	136	85.881	54.069	-5.322	1.00	83.19	Al
ATOM	21402	O2' GUA	133	88.781	68.957	-4.435	1.00	70.26	Al6S	ATOM	21455	O1' GUA	136	87.001	54.955	-5.061	1.00	83.19	Al
ATOM	21403	C3' GUA	133	88.870	68.387	-2.046	1.00	70.26	Al6S	ATOM	21456	C1' GUA	136	88.054	54.204	-4.473	1.00	83.19	Al
ATOM	21404	O3' GUA	133	87.454	68.497	-2.009	1.00	70.26	Al6S	ATOM	21457	N9 GUA	136	88.465	54.833	-3.223	1.00	40.99	Al
ATOM	21405	P' ADE	134	86.561	67.214	-1.608	1.00	75.54	Al6S	ATOM	21458	C4 GUA	136	89.556	54.474	-2.466	1.00	40.99	Al
ATOM	21406	O1P ADE	134	85.171	67.727	-1.503	1.00	60.55	Al6S	ATOM	21459	N3 GUA	136	90.424	53.478	-2.749	1.00	40.99	Al
ATOM	21407	O2P ADE	134	87.156	66.502	-0.445	1.00	60.55	Al6S	ATOM	21460	C2 GUA	136	91.366	53.360	-1.827	1.00	40.99	Al
ATOM	21408	O5' ADE	134	86.636	66.282	-2.903	1.00	75.54	Al6S	ATOM	21461	N2 GUA	136	92.279	52.396	-1.936	1.00	40.99	Al
ATOM	21409	C5' ADE	134	86.068	66.729	-4.127	1.00	75.54	Al6S	ATOM	21462	N1 GUA	136	91.472	54.174	-0.729	1.00	40.99	Al
ATOM	21410	C4' ADE	134	86.319	65.734	-5.227	1.00	75.54	Al6S	ATOM	21463	C6 GUA	136	90.606	55.226	-0.428	1.00	40.99	Al
ATOM	21411	O4' ADE	134	87.736	65.651	-5.522	1.00	75.54	Al6S	ATOM	21464	O6 GUA	136	90.815	55.933	0.569	1.00	40.99	Al
ATOM	21412	C1' ADE	134	88.030	64.363	-6.046	1.00	75.54	Al6S	ATOM	21465	C5 GUA	136	89.559	55.339	-1.395	1.00	40.99	Al
ATOM	21413	N9 ADE	134	89.075	63.749	-5.227	1.00	60.55	Al6S	ATOM	21466	N7 GUA	136	88.488	56.220	-1.470	1.00	40.99	Al
ATOM	21414	C4 ADE	134	89.789	62.621	-5.555	1.00	60.55	Al6S	ATOM	21467	C8 GUA	136	87.868	55.883	-2.570	1.00	40.99	Al
ATOM	21415	N3 ADE	134	89.654	61.862	-6.655	1.00	60.55	Al6S	ATOM	21468	C2' GUA	136	87.504	52.802	-4.242	1.00	83.19	Al
ATOM	21416	C2 ADE	134	90.544	60.867	-6.654	1.00	60.55	Al6S	ATOM	21469	O2' GUA	136	87.836	52.025	-5.373	1.00	83.19	Al
ATOM	21417	N1 ADE	134	91.481	60.570	-5.748	1.00	60.55	Al6S	ATOM	21470	C3' GUA	136	86.012	53.091	-4.176	1.00	83.19	Al
ATOM	21418	C6 ADE	134	91.588	61.352	-4.653	1.00	60.55	Al6S	ATOM	21471	O3' GUA	136	85.269	51.905	-4.400	1.00	83.19	Al
ATOM	21419	N6 ADE	134	92.530	61.064	-3.758	1.00	60.55	Al6S	ATOM	21472	P' ADE	137	84.789	51.025	-3.146	1.00	78.88	Al
ATOM	21420	C5 ADE	134	90.696	62.435	-4.529	1.00	60.55	Al6S	ATOM	21473	O1P ADE	137	83.680	50.178	-3.638	1.00	64.36	Al
ATOM	21421	N7 ADE	134	90.536	63.409	-3.553	1.00	60.55	Al6S	ATOM	21474	O2P ADE	137	84.582	51.925	-1.985	1.00	64.36	Al
ATOM	21422	C8 ADE	134	89.563	64.160	-4.012	1.00	60.55	Al6S	ATOM	21475	O5' ADE	137	86.023	50.082	-2.820	1.00	78.88	Al
ATOM	21423	C2' ADE	134	86.724	63.574	-6.026	1.00	75.54	Al6S	ATOM	21476	C5' ADE	137	86.486	49.138	-3.772	1.00	78.88	Al
ATOM	21424	O2' ADE	134	86.067	63.718	-7.268	1.00	75.54	Al6S	ATOM	21477	C4' ADE	137	87.756	48.506	-3.279	1.00	78.88	Al
ATOM	21425	C3' ADE	134	85.980	64.296	-4.920	1.00	75.54	Al6S	ATOM	21478	O4' ADE	137	88.745	49.548	-3.078	1.00	78.88	Al
ATOM	21426	O3' ADE	134	84.599	64.043	-4.981	1.00	75.54	Al6S	ATOM	21479	C1' ADE	137	89.524	49.258	-1.930	1.00	78.88	Al
ATOM	21427	P' ADE	135	83.965	62.993	-3.957	1.00	72.79	Al6S	ATOM	21480	N9 ADE	137	89.316	50.329	-0.963	1.00	64.36	Al
ATOM	21428	O1P ADE	135	82.502	63.051	-4.149	1.00	52.87	Al6S	ATOM	21481	C4 ADE	137	90.167	50.680	0.054	1.00	64.36	Al
ATOM	21429	O2P ADE	135	84.538	63.270	-2.619	1.00	52.87	Al6S	ATOM	21482	N3 ADE	137	91.340	50.104	0.374	1.00	64.36	Al
ATOM	21430	O5' ADE	135	84.491	61.581	-4.480	1.00	72.79	Al6S	ATOM	21483	C2 ADE	137	91.902	50.726	1.412	1.00	64.36	Al

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ATOM	21484	N1	ADE	137	91.456	51.781	2.110	1.00	64.36	Al6S	ATOM	21537	O2' GUA	139	86.075	35.892	-5.913	1.00	109.32	I
ATOM	21485	C6	ADE	137	90.272	52.335	1.756	1.00	64.36	Al6S	ATOM	21538	C3' GUA	139	86.251	37.076	-3.800	1.00	109.32	I
ATOM	21486	N6	ADE	137	89.828	53.392	2.436	1.00	64.36	Al6S	ATOM	21539	O3' GUA	139	85.868	35.846	-3.219	1.00	109.32	I
ATOM	21487	C5	ADE	137	89.577	51.763	0.679	1.00	64.36	Al6S	ATOM	21540	P	140	86.972	34.951	-2.473	1.00	90.94	I
ATOM	21488	N7	ADE	137	88.368	52.078	0.078	1.00	64.36	Al6S	ATOM	21541	O1P GUA	140	86.275	33.707	-2.063	1.00	87.94	I
ATOM	21489	C8	ADE	137	88.259	51.197	-0.886	1.00	64.36	Al6S	ATOM	21542	O2P GUA	140	87.649	35.780	-1.445	1.00	87.94	I
ATOM	21490	C2' ADE	137	89.071	47.895	-1.416	1.00	78.88	Al6S	ATOM	21543	O5' GUA	140	88.030	34.600	-3.617	1.00	90.94	I	
ATOM	21491	O2' ADE	137	89.868	46.888	-2.004	1.00	78.88	Al6S	ATOM	21544	C5' GUA	140	87.673	33.731	-4.687	1.00	90.94	I	
ATOM	21492	C3' ADE	137	87.634	47.866	-1.911	1.00	78.88	Al6S	ATOM	21545	C4' GUA	140	88.816	33.569	-5.667	1.00	90.94	I	
ATOM	21493	O3' ADE	137	87.124	46.548	-2.010	1.00	78.88	Al6S	ATOM	21546	O4' GUA	140	89.195	34.863	-6.202	1.00	90.94	I	
ATOM	21494	P	GUA	138	86.511	45.849	-0.712	1.00	89.93	Al6S	ATOM	21547	C1' GUA	140	90.555	34.815	-6.618	1.00	90.94	I
ATOM	21495	O1P GUA	138	85.534	46.784	-0.114	1.00	77.72	Al6S	ATOM	21548	N9 GUA	140	91.311	35.821	-5.887	1.00	87.94	I	
ATOM	21496	O2P GUA	138	87.642	45.353	0.104	1.00	77.72	Al6S	ATOM	21549	C4 GUA	140	92.573	36.253	-6.196	1.00	87.94	I	
ATOM	21497	O5' GUA	138	85.700	44.621	-1.300	1.00	89.93	Al6S	ATOM	21550	N3 GUA	140	93.318	35.836	-7.241	1.00	87.94	I	
ATOM	21498	C5' GUA	138	84.310	44.730	-1.543	1.00	89.93	Al6S	ATOM	21551	C2 GUA	140	94.493	36.434	-7.278	1.00	87.94	I	
ATOM	21499	C4' GUA	138	83.951	43.917	-2.747	1.00	89.93	Al6S	ATOM	21552	N2 GUA	140	95.354	36.140	-8.257	1.00	87.94	I	
ATOM	21500	O4' GUA	138	84.395	44.606	-3.945	1.00	89.93	Al6S	ATOM	21553	N1 GUA	140	94.910	37.367	-6.358	1.00	87.94	I	
ATOM	21501	C1' GUA	138	84.881	43.660	-4.886	1.00	89.93	Al6S	ATOM	21554	C6 GUA	140	94.158	37.813	-5.272	1.00	87.94	I	
ATOM	21502	N9 GUA	138	86.306	43.908	-5.080	1.00	77.72	Al6S	ATOM	21555	O5 GUA	140	94.623	38.662	-4.496	1.00	87.94	I	
ATOM	21503	C4 GUA	138	87.127	43.252	-5.960	1.00	77.72	Al6S	ATOM	21556	C6 GUA	140	92.890	37.178	-5.226	1.00	87.94	I	
ATOM	21504	N3 GUA	138	86.747	42.286	-6.815	1.00	77.72	Al6S	ATOM	21557	N7 GUA	140	91.842	37.328	-4.327	1.00	87.94	I	
ATOM	21505	C2 GUA	138	87.760	41.821	-7.513	1.00	77.72	Al6S	ATOM	21558	C8 GUA	140	90.927	36.504	-4.760	1.00	87.94	I	
ATOM	21506	N2 GUA	138	87.545	40.848	-8.403	1.00	77.72	Al6S	ATOM	21559	C2' GUA	140	91.088	33.431	-6.264	1.00	90.94	I	
ATOM	21507	N1 GUA	138	89.053	42.273	-7.387	1.00	77.72	Al6S	ATOM	21560	O2' GUA	140	91.014	32.586	-7.393	1.00	90.94	I	
ATOM	21508	C6 GUA	138	89.470	43.270	-6.507	1.00	77.72	Al6S	ATOM	21561	C3' GUA	140	90.138	33.032	-5.146	1.00	90.94	I	
ATOM	21509	O5 GUA	138	90.671	43.595	-6.453	1.00	77.72	Al6S	ATOM	21562	O3' GUA	140	90.139	31.628	-5.018	1.00	90.94	I	
ATOM	21510	C5 GUA	138	88.384	43.780	-5.754	1.00	77.72	Al6S	ATOM	21563	P	GUA	141	91.305	30.915	-4.178	1.00	74.87	I
ATOM	21511	N7 GUA	138	88.350	44.769	-4.780	1.00	77.72	Al6S	ATOM	21564	O1P GUA	141	90.980	29.470	-4.210	1.00	69.34	I	
ATOM	21512	C8 GUA	138	87.097	44.815	-4.412	1.00	77.72	Al6S	ATOM	21565	O2P GUA	141	91.466	31.609	-2.872	1.00	69.34	I	
ATOM	21513	O2' GUA	138	84.632	42.271	-4.290	1.00	89.93	Al6S	ATOM	21566	O5' GUA	141	92.630	31.139	-5.034	1.00	74.87	I	
ATOM	21514	C2' GUA	138	83.383	41.759	-4.710	1.00	89.93	Al6S	ATOM	21567	C5' GUA	141	92.841	30.425	-6.242	1.00	74.87	I	
ATOM	21515	C3' GUA	138	84.675	42.587	-2.804	1.00	89.93	Al6S	ATOM	21568	C4' GUA	141	94.146	30.841	-6.884	1.00	74.87	I	
ATOM	21516	O3' GUA	138	84.049	41.608	-1.989	1.00	89.93	Al6S	ATOM	21569	O4' GUA	141	94.161	32.287	-7.059	1.00	74.87	I	
ATOM	21517	P	GUA	139	84.959	40.556	-1.186	1.00	109.32	Al6S	ATOM	21570	C1' GUA	141	95.505	32.752	-7.014	1.00	74.87	I
ATOM	21518	O1P GUA	139	84.056	39.820	-0.257	1.00	69.22	Al6S	ATOM	21571	N9 GUA	141	95.646	33.672	-5.893	1.00	69.34	I	
ATOM	21519	O2P GUA	139	86.143	41.289	-0.639	1.00	69.22	Al6S	ATOM	21572	C4 GUA	141	96.756	34.424	-5.603	1.00	69.34	I	
ATOM	21520	O5' GUA	139	85.419	39.535	-2.322	1.00	109.32	Al6S	ATOM	21573	N3 GUA	141	97.903	34.445	-6.311	1.00	69.34	I	
ATOM	21521	C5' GUA	139	84.444	38.749	-3.000	1.00	109.32	Al6S	ATOM	21574	C2 GUA	141	98.792	35.264	-5.786	1.00	69.34	I	
ATOM	21522	C4' GUA	139	85.066	37.962	-4.128	1.00	109.32	Al6S	ATOM	21575	N2 GUA	141	99.991	35.405	-6.370	1.00	69.34	I	
ATOM	21523	O4' GUA	139	85.608	38.867	-5.125	1.00	109.32	Al6S	ATOM	21576	N1 GUA	141	98.572	36.004	-4.649	1.00	69.34	I	
ATOM	21524	C1' GUA	139	86.690	38.233	-5.796	1.00	109.32	Al6S	ATOM	21577	C6 GUA	141	97.399	35.992	-3.902	1.00	69.34	I	
ATOM	21525	N9 GUA	139	87.907	38.994	-5.542	1.00	69.22	Al6S	ATOM	21578	O6 GUA	141	97.305	36.689	-2.885	1.00	69.34	I	
ATOM	21526	C4 GUA	139	89.074	38.917	-6.256	1.00	69.22	Al6S	ATOM	21579	C5 GUA	141	96.437	35.119	-4.461	1.00	69.34	I	
ATOM	21527	N3 GUA	139	89.276	38.170	-7.362	1.00	69.22	Al6S	ATOM	21580	N7 GUA	141	95.152	34.810	-4.040	1.00	69.34	I	
ATOM	21528	C2 GUA	139	90.512	38.282	-7.811	1.00	69.22	Al6S	ATOM	21581	C8 GUA	141	94.722	33.949	-4.920	1.00	69.34	I	
ATOM	21529	N2 GUA	139	90.881	37.615	-8.916	1.00	69.22	Al6S	ATOM	21582	C2' GUA	141	96.391	31.528	-6.805	1.00	74.87	I	
ATOM	21530	N1 GUA	139	91.477	39.056	-7.209	1.00	69.22	Al6S	ATOM	21583	O2' GUA	141	96.824	31.037	-8.057	1.00	74.87	I	
ATOM	21531	C6 GUA	139	91.288	39.824	-6.060	1.00	69.22	Al6S	ATOM	21584	C3' GUA	141	95.423	30.592	-6.101	1.00	74.87	I	
ATOM	21532	O6 GUA	139	92.235	40.465	-5.572	1.00	69.22	Al6S	ATOM	21585	O3' GUA	141	95.875	29.258	-6.209	1.00	74.87	I	
ATOM	21533	C5 GUA	139	89.965	39.729	-5.589	1.00	69.22	Al6S	ATOM	21586	P	GUA	142	96.911	28.690	-5.122	1.00	82.78	I
ATOM	21534	N7 GUA	139	89.357	40.340	-4.503	1.00	69.22	Al6S	ATOM	21587	O1P GUA	142	97.118	27.260	-5.456	1.00	64.49	I	
ATOM	21535	C8 GUA	139	88.135	39.883	-4.520	1.00	69.22	Al6S	ATOM	21588	O2P GUA	142	96.451	29.072	-3.759	1.00	64.49	I	
ATOM	21536	C2' GUA	139	86.828	36.839	-5.183	1.00	109.32	Al6S	ATOM	21589	O5' GUA	142	98.273	29.463	-5.422	1.00	82.78	I	

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ATOM	21590	C5' GUA	142	98.955	29.281	-6.657	1.00	82.78	A16S	ATOM	21643	N3	CYT	144	107.537	32.616	1.409	1.00	58.46	A1
ATOM	21591	O4' GUA	142	100.235	30.084	-6.684	1.00	82.78	A16S	ATOM	21644	C4	CYT	144	106.772	31.603	1.006	1.00	58.46	A1
ATOM	21592	C1' GUA	142	99.927	31.487	-6.488	1.00	82.78	A16S	ATOM	21645	N4	CYT	144	105.640	31.371	1.669	1.00	58.46	A1
ATOM	21593	O1' GUA	142	101.031	32.132	-5.876	1.00	82.78	A16S	ATOM	21646	C5	CYT	144	107.130	30.785	-0.101	1.00	58.46	A1
ATOM	21594	N9 GUA	142	100.585	32.729	-4.626	1.00	64.49	A16S	ATOM	21647	C2' CYT	144	111.547	31.814	-0.624	1.00	52.03	A1	
ATOM	21595	C4 GUA	142	101.281	33.642	-3.880	1.00	64.49	A16S	ATOM	21648	O2' CYT	144	112.603	32.741	-0.696	1.00	52.03	A1	
ATOM	21596	N3 GUA	142	102.483	34.162	-4.190	1.00	64.49	A16S	ATOM	21649	C3' CYT	144	111.704	30.689	-1.638	1.00	52.03	A1	
ATOM	21597	C2 GUA	142	102.896	35.022	-3.278	1.00	64.49	A16S	ATOM	21650	O3' CYT	144	113.058	30.336	-1.861	1.00	52.03	A1	
ATOM	21598	N2 GUA	142	104.067	35.652	-3.434	1.00	64.49	A16S	ATOM	21651	P	ADE	145	113.859	29.532	-0.731	1.00	47.90	A1
ATOM	21599	N1 GUA	142	102.191	35.331	-2.151	1.00	64.49	A16S	ATOM	21652	O1P ADE	145	115.169	29.114	-1.294	1.00	57.17	A1	
ATOM	21600	C6 GUA	142	100.954	34.802	-1.813	1.00	64.49	A16S	ATOM	21653	O2P ADE	145	112.960	28.520	-0.117	1.00	57.17	A1	
ATOM	21601	O6 GUA	142	100.406	35.144	-0.765	1.00	64.49	A16S	ATOM	21654	O5' ADE	145	114.130	30.639	0.371	1.00	47.90	A1	
ATOM	21602	C5 GUA	142	100.493	33.895	-2.784	1.00	64.49	A16S	ATOM	21655	C5' ADE	145	114.389	30.278	1.711	1.00	47.90	A1	
ATOM	21603	N7 GUA	142	99.315	33.164	-2.843	1.00	64.49	A16S	ATOM	21656	C4' ADE	145	114.527	31.519	2.541	1.00	47.90	A1	
ATOM	21604	C8 GUA	142	99.413	32.488	-3.954	1.00	64.49	A16S	ATOM	21657	O4' ADE	145	113.300	32.279	2.463	1.00	47.90	A1	
ATOM	21605	C2' GUA	142	102.096	31.067	-5.631	1.00	82.78	A16S	ATOM	21658	C1' ADE	145	113.093	32.959	3.681	1.00	47.90	A1	
ATOM	21606	O2' GUA	142	103.023	31.075	-6.696	1.00	82.78	A16S	ATOM	21659	N9 ADE	145	111.762	32.619	4.165	1.00	57.17	A1	
ATOM	21607	C3' GUA	142	101.249	29.804	-5.593	1.00	82.78	A16S	ATOM	21660	C4 ADE	145	111.146	33.107	5.288	1.00	57.17	A1	
ATOM	21608	O3' GUA	142	102.037	28.661	-5.886	1.00	82.78	A16S	ATOM	21661	N3 ADE	145	111.649	33.971	6.181	1.00	57.17	A1	
ATOM	21609	P ADE	143	102.772	27.878	-4.689	1.00	76.65	A16S	ATOM	21662	C2 ADE	145	110.746	34.254	7.116	1.00	57.17	A1	
ATOM	21610	O1P ADE	143	102.786	26.434	-5.054	1.00	55.86	A16S	ATOM	21663	N1 ADE	145	109.498	33.796	7.254	1.00	57.17	A1	
ATOM	21611	O2P ADE	143	102.173	28.307	-3.394	1.00	55.86	A16S	ATOM	21664	C6 ADE	145	109.032	32.913	6.347	1.00	57.17	A1	
ATOM	21612	O5' ADE	143	104.263	28.436	-4.699	1.00	76.65	A16S	ATOM	21665	N6 ADE	145	107.798	32.431	6.498	1.00	57.17	A1	
ATOM	21613	C5' ADE	143	104.865	28.920	-5.892	1.00	76.65	A16S	ATOM	21666	C5 ADE	145	109.883	32.547	5.299	1.00	57.17	A1	
ATOM	21614	C4' ADE	143	105.817	30.045	-5.564	1.00	76.65	A16S	ATOM	21667	N7 ADE	145	109.713	31.704	4.213	1.00	57.17	A1	
ATOM	21615	O4' ADE	143	105.070	31.198	-5.105	1.00	76.65	A16S	ATOM	21668	C8 ADE	145	110.858	31.775	3.579	1.00	57.17	A1	
ATOM	21616	C1' ADE	143	105.849	31.917	-4.168	1.00	76.65	A16S	ATOM	21669	C2' ADE	145	114.245	32.598	4.617	1.00	47.90	A1	
ATOM	21617	N9 ADE	143	105.040	32.144	-2.978	1.00	55.86	A16S	ATOM	21670	O2' ADE	145	115.230	33.602	4.513	1.00	47.90	A1	
ATOM	21618	C4 ADE	143	105.325	33.048	-1.990	1.00	55.86	A16S	ATOM	21671	C3' ADE	145	114.735	31.289	4.019	1.00	47.90	A1	
ATOM	21619	N3 ADE	143	106.415	33.823	-1.894	1.00	55.86	A16S	ATOM	21672	O3' ADE	145	116.121	31.108	4.254	1.00	47.90	A1	
ATOM	21620	C2 ADE	143	106.324	34.620	-0.831	1.00	55.86	A16S	ATOM	21673	P ADE	146	116.600	30.046	5.348	1.00	55.00	A1	
ATOM	21621	N1 ADE	143	105.336	34.729	0.069	1.00	55.86	A16S	ATOM	21674	O1P ADE	146	118.034	30.301	5.668	1.00	59.88	A1	
ATOM	21622	C6 ADE	143	104.256	33.936	-0.058	1.00	55.86	A16S	ATOM	21675	O2P ADE	146	116.182	28.704	4.871	1.00	59.88	A1	
ATOM	21623	N6 ADE	143	103.268	34.065	0.828	1.00	55.86	A16S	ATOM	21676	O5' ADE	146	115.731	30.419	6.628	1.00	55.00	A1	
ATOM	21624	C5 ADE	143	104.238	33.027	-1.133	1.00	55.86	A16S	ATOM	21677	C5' ADE	146	116.049	31.568	7.393	1.00	55.00	A1	
ATOM	21625	N7 ADE	143	103.314	32.077	-1.542	1.00	55.86	A16S	ATOM	21678	C4' ADE	146	114.972	31.845	8.408	1.00	55.00	A1	
ATOM	21626	C8 ADE	143	103.842	31.575	-2.634	1.00	55.86	A16S	ATOM	21679	O4' ADE	146	113.704	32.051	7.739	1.00	55.00	A1	
ATOM	21627	C2' ADE	143	107.149	31.150	-3.929	1.00	76.65	A16S	ATOM	21680	C1' ADE	146	112.656	31.761	8.643	1.00	55.00	A1	
ATOM	21628	O2' ADE	143	108.199	31.734	-4.672	1.00	76.65	A16S	ATOM	21681	N9 ADE	146	111.747	30.810	8.015	1.00	59.88	A1	
ATOM	21629	C3' ADE	143	106.773	29.760	-4.421	1.00	76.65	A16S	ATOM	21682	C4 ADE	146	110.469	30.553	8.440	1.00	59.88	A1	
ATOM	21630	O3' ADE	143	107.912	29.069	-4.883	1.00	76.65	A16S	ATOM	21683	N3 ADE	146	109.834	31.115	9.482	1.00	59.88	A1	
ATOM	21631	P CYT	144	108.828	28.289	-3.833	1.00	52.03	A16S	ATOM	21684	C2 ADE	146	108.599	30.635	9.590	1.00	59.88	A1	
ATOM	21632	O1P CYT	144	109.799	27.448	-4.586	1.00	58.46	A16S	ATOM	21685	N1 ADE	146	107.977	29.724	8.835	1.00	59.88	A1	
ATOM	21633	O2P CYT	144	107.934	27.661	-2.822	1.00	58.46	A16S	ATOM	21686	C6 ADE	146	108.646	29.178	7.799	1.00	59.88	A1	
ATOM	21634	O5' CYT	144	109.631	29.457	-3.116	1.00	52.03	A16S	ATOM	21687	N6 ADE	146	108.023	28.268	7.052	1.00	59.88	A1	
ATOM	21635	C5' CYT	144	110.564	30.254	-3.830	1.00	52.03	A16S	ATOM	21688	C5 ADE	146	109.965	29.606	7.573	1.00	59.88	A1	
ATOM	21636	C4' CYT	144	111.134	31.285	-2.904	1.00	52.03	A16S	ATOM	21689	N7 ADE	146	110.912	29.265	6.616	1.00	59.88	A1	
ATOM	21637	O4' CYT	144	110.048	32.119	-2.441	1.00	52.03	A16S	ATOM	21690	C8 ADE	146	111.949	30.007	6.922	1.00	59.88	A1	
ATOM	21638	C1' CYT	144	110.255	32.480	-1.094	1.00	52.03	A16S	ATOM	21691	C2' ADE	146	113.297	31.224	9.924	1.00	55.00	A1	
ATOM	21639	N1 CYT	144	109.041	32.129	-0.354	1.00	58.46	A16S	ATOM	21692	O2' ADE	146	113.446	32.288	10.848	1.00	55.00	A1	
ATOM	21640	C6 CYT	144	108.263	31.080	-0.746	1.00	58.46	A16S	ATOM	21693	C3' ADE	146	114.645	30.747	9.403	1.00	55.00	A1	
ATOM	21641	C2 CYT	144	108.681	32.900	0.746	1.00	58.46	A16S	ATOM	21694	O3' ADE	146	115.600	30.723	10.457	1.00	55.00	A1	
ATOM	21642	O2 CYT	144	109.422	33.831	1.087	1.00	58.46	A16S	ATOM	21695	P CYT	147	116.379	29.362	10.788	1.00	63.37	A1	

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ATOM	21696	OLP	CYT	147	117.022	29.568	12.101	1.00	54.46	Al6S	ATOM	21749	N4	CYT	149	118.094	22.627	5.576	1.00103.44	P
ATOM	21697	O2P	CYT	147	117.199	28.968	9.621	1.00	54.46	Al6S	ATOM	21750	C5	CYT	149	116.961	20.934	6.829	1.00103.44	P
ATOM	21698	O5'	CYT	147	115.216	28.288	10.951	1.00	63.37	Al6S	ATOM	21751	C2'	CYT	149	117.401	16.510	6.058	1.00 90.51	P
ATOM	21699	C5'	CYT	147	114.343	28.314	12.081	1.00	63.37	Al6S	ATOM	21752	O2'	CYT	149	117.203	15.274	5.408	1.00 90.51	P
ATOM	21700	C4'	CYT	147	113.283	27.246	11.941	1.00	63.37	Al6S	ATOM	21753	C3'	CYT	149	117.369	16.390	7.575	1.00 90.51	P
ATOM	21701	O4'	CYT	147	112.356	27.600	10.882	1.00	63.37	Al6S	ATOM	21754	O3'	CYT	149	118.002	15.190	7.998	1.00 90.51	P
ATOM	21702	C1'	CYT	147	112.011	26.441	10.143	1.00	63.37	Al6S	ATOM	21755	P	GUA	150	119.595	15.164	8.211	1.00 88.11	P
ATOM	21703	N1	CYT	147	112.589	26.568	8.807	1.00	54.46	Al6S	ATOM	21756	OLP	GUA	150	119.937	13.834	8.769	1.00 90.86	P
ATOM	21704	C6	CYT	147	113.717	27.305	8.594	1.00	54.46	Al6S	ATOM	21757	O2P	GUA	150	120.016	16.387	8.933	1.00 90.86	P
ATOM	21705	C2	CYT	147	111.964	25.923	7.758	1.00	54.46	Al6S	ATOM	21758	O5'	GUA	150	120.185	15.220	6.737	1.00 88.11	P
ATOM	21706	O2	CYT	147	110.949	25.253	7.996	1.00	54.46	Al6S	ATOM	21759	C5'	GUA	150	120.369	14.020	6.012	1.00 88.11	P
ATOM	21707	N3	CYT	147	112.469	26.040	6.511	1.00	54.46	Al6S	ATOM	21760	C4'	GUA	150	120.900	14.306	4.635	1.00 88.11	P
ATOM	21708	C4	CYT	147	113.567	26.765	6.305	1.00	54.46	Al6S	ATOM	21761	O4'	GUA	150	120.030	15.277	3.992	1.00 88.11	P
ATOM	21709	N4	CYT	147	114.030	26.856	5.061	1.00	54.46	Al6S	ATOM	21762	C1'	GUA	150	120.790	16.061	3.082	1.00 88.11	P
ATOM	21710	C5	CYT	147	114.237	27.428	7.369	1.00	54.46	Al6S	ATOM	21763	N9	GUA	150	120.806	17.438	3.564	1.00 90.86	P
ATOM	21711	C2'	CYT	147	112.619	25.246	10.864	1.00	63.37	Al6S	ATOM	21764	C4	GUA	150	121.217	18.539	2.856	1.00 90.86	P
ATOM	21712	O2'	CYT	147	111.682	24.696	11.765	1.00	63.37	Al6S	ATOM	21765	N3	GUA	150	121.631	18.544	1.572	1.00 90.86	P
ATOM	21713	C3'	CYT	147	113.828	25.897	11.516	1.00	63.37	Al6S	ATOM	21766	C2	GUA	150	121.990	19.748	1.176	1.00 90.86	P
ATOM	21714	O3'	CYT	147	114.315	25.165	12.617	1.00	63.37	Al6S	ATOM	21767	N2	GUA	150	122.422	19.932	-0.075	1.00 90.86	P
ATOM	21715	P	CYT	148	115.380	24.009	12.366	1.00	81.37	Al6S	ATOM	21768	N1	GUA	150	121.952	20.859	1.978	1.00 90.86	P
ATOM	21716	OLP	CYT	148	115.676	23.416	13.689	1.00	88.23	Al6S	ATOM	21769	C6	GUA	150	121.534	20.874	3.306	1.00 90.86	P
ATOM	21717	O2P	CYT	148	116.479	24.565	11.544	1.00	88.23	Al6S	ATOM	21770	O6	GUA	150	121.555	21.929	3.950	1.00 90.86	P
ATOM	21718	O5'	CYT	148	114.581	22.947	11.490	1.00	81.37	Al6S	ATOM	21771	C5	GUA	150	121.134	19.592	3.737	1.00 90.86	P
ATOM	21719	C5'	CYT	148	113.520	22.177	12.050	1.00	81.37	Al6S	ATOM	21772	N7	GUA	150	120.648	19.169	4.966	1.00 90.86	P
ATOM	21720	C4'	CYT	148	113.063	21.127	11.062	1.00	81.37	Al6S	ATOM	21773	C8	GUA	150	120.461	17.888	4.814	1.00 90.86	P
ATOM	21721	O4'	CYT	148	112.435	21.776	9.929	1.00	81.37	Al6S	ATOM	21774	C2'	GUA	150	122.209	15.492	3.110	1.00 88.11	P
ATOM	21722	C1'	CYT	148	112.768	21.087	8.735	1.00	81.37	Al6S	ATOM	21775	O2'	GUA	150	122.361	14.458	2.151	1.00 88.11	P
ATOM	21723	N1	CYT	148	113.541	21.999	7.878	1.00	88.23	Al6S	ATOM	21776	C3'	GUA	150	122.263	14.964	4.532	1.00 88.11	P
ATOM	21724	C6	CYT	148	114.152	23.099	8.406	1.00	88.23	Al6S	ATOM	21777	O3'	GUA	150	123.344	14.058	4.685	1.00 88.11	P
ATOM	21725	C2	CYT	148	113.646	21.724	6.511	1.00	88.23	Al6S	ATOM	21778	P	GUA	151	124.830	14.637	4.903	1.00 93.13	P
ATOM	21726	O2	CYT	148	113.072	20.725	6.053	1.00	88.23	Al6S	ATOM	21779	OLP	GUA	151	125.755	13.477	4.978	1.00135.89	P
ATOM	21727	N3	CYT	148	114.368	22.556	5.723	1.00	88.23	Al6S	ATOM	21780	O2P	GUA	151	124.785	15.613	6.024	1.00135.89	P
ATOM	21728	C4	CYT	148	114.966	23.624	6.255	1.00	88.23	Al6S	ATOM	21781	O5'	GUA	151	125.148	15.420	3.551	1.00 93.13	P
ATOM	21729	N4	CYT	148	115.674	24.412	5.449	1.00	88.23	Al6S	ATOM	21782	C5'	GUA	151	125.214	14.711	2.325	1.00 93.13	P
ATOM	21730	C5	CYT	148	114.866	23.929	7.639	1.00	88.23	Al6S	ATOM	21783	C4'	GUA	151	125.714	15.597	1.213	1.00 93.13	P
ATOM	21731	C2'	CYT	148	113.553	19.842	9.141	1.00	81.37	Al6S	ATOM	21784	O4'	GUA	151	124.761	16.659	0.946	1.00 93.13	P
ATOM	21732	O2'	CYT	148	112.667	18.763	9.340	1.00	81.37	Al6S	ATOM	21785	C1'	GUA	151	125.451	17.770	0.385	1.00 93.13	P
ATOM	21733	C3'	CYT	148	114.177	20.300	10.446	1.00	81.37	Al6S	ATOM	21786	N9	GUA	151	125.287	18.922	1.268	1.00135.89	P
ATOM	21734	O3'	CYT	148	114.506	19.187	11.260	1.00	81.37	Al6S	ATOM	21787	C4	GUA	151	125.659	20.216	0.987	1.00135.89	P
ATOM	21735	P	CYT	149	115.964	18.525	11.140	1.00	90.51	Al6S	ATOM	21788	N3	GUA	151	126.221	20.647	-0.164	1.00135.89	P
ATOM	21736	OLP	CYT	149	115.960	17.352	12.053	1.00103.44	Al6S	ATOM	21789	C2	GUA	151	126.477	21.943	-0.133	1.00135.89	P	
ATOM	21737	O2P	CYT	149	116.983	19.593	11.324	1.00103.44	Al6S	ATOM	21790	N2	GUA	151	127.035	22.536	-1.198	1.00135.89	P	
ATOM	21738	O5'	CYT	149	116.038	18.010	9.630	1.00	90.51	Al6S	ATOM	21791	N1	GUA	151	126.205	22.754	0.942	1.00135.89	P
ATOM	21739	C5'	CYT	149	115.443	16.773	9.252	1.00	90.51	Al6S	ATOM	21792	C6	GUA	151	125.627	22.334	2.137	1.00135.89	P
ATOM	21740	C4'	CYT	149	115.876	16.377	7.858	1.00	90.51	Al6S	ATOM	21793	O6	GUA	151	125.426	23.151	3.045	1.00135.89	P
ATOM	21741	O4'	CYT	149	115.323	17.306	6.889	1.00	90.51	Al6S	ATOM	21794	C5	GUA	151	125.345	20.941	2.117	1.00135.89	P
ATOM	21742	C1'	CYT	149	116.224	17.456	5.802	1.00	90.51	Al6S	ATOM	21795	N7	GUA	151	124.777	20.123	3.085	1.00135.89	P
ATOM	21743	N1	CYT	149	116.661	18.859	5.758	1.00103.44	Al6S	ATOM	21796	C8	GUA	151	124.761	18.937	2.537	1.00135.89	P	
ATOM	21744	C6	CYT	149	116.513	19.673	6.845	1.00103.44	Al6S	ATOM	21797	C2'	GUA	151	126.922	17.364	0.298	1.00 93.13	P	
ATOM	21745	C2	CYT	149	117.256	19.342	4.590	1.00103.44	Al6S	ATOM	21798	O2'	GUA	151	127.167	16.738	-0.945	1.00 93.13	P	
ATOM	21746	O2	CYT	149	117.336	18.596	3.608	1.00103.44	Al6S	ATOM	21799	C3'	GUA	151	127.001	16.367	1.440	1.00 93.13	P	
ATOM	21747	N3	CYT	149	117.523	20.610	4.561	1.00103.44	Al6S	ATOM	21800	O3'	GUA	151	128.162	15.559	1.335	1.00 93.13	P	
ATOM	21748	C4	CYT	149	117.597	21.390	5.637	1.00103.44	Al6S	ATOM	21801	P	GUA	152	129.482	15.963	2.160	1.00111.96	P	

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ATOM	21802	O1P	GUA	152	130.437	14.831	2.053	1.00103.27	Al6S	ATOM	21855	N9	ADE	154	140.187	25.841	4.573	1.00123.65	Al
ATOM	21803	O2P	GUA	152	129.069	16.452	3.503	1.00103.27	Al6S	ATOM	21856	C4	ADE	154	140.684	27.091	4.286	1.00123.65	Al
ATOM	21804	O5'	GUA	152	130.090	17.181	1.333	1.00111.96	Al6S	ATOM	21857	N3	ADE	154	141.215	27.978	5.145	1.00123.65	Al
ATOM	21805	C5'	GUA	152	130.615	16.978	0.023	1.00111.96	Al6S	ATOM	21858	C2	ADE	154	141.596	29.082	4.504	1.00123.65	Al
ATOM	21806	C4'	GUA	152	131.049	18.292	-0.586	1.00111.96	Al6S	ATOM	21859	N1	ADE	154	141.512	29.379	3.203	1.00123.65	Al
ATOM	21807	O4'	GUA	152	129.902	19.181	-0.689	1.00111.96	Al6S	ATOM	21860	C6	ADE	154	140.973	28.467	2.367	1.00123.65	Al
ATOM	21808	C1'	GUA	152	130.323	20.527	-0.510	1.00111.96	Al6S	ATOM	21861	N6	ADE	154	140.887	28.760	1.068	1.00123.65	Al
ATOM	21809	N9	GUA	152	129.708	21.051	0.706	1.00103.27	Al6S	ATOM	21862	C5	ADE	154	140.531	27.253	2.921	1.00123.65	Al
ATOM	21810	C4	GUA	152	129.764	22.351	1.148	1.00103.27	Al6S	ATOM	21863	N7	ADE	154	139.945	26.129	2.357	1.00123.65	Al
ATOM	21811	N3	GUA	152	130.382	23.376	0.521	1.00103.27	Al6S	ATOM	21864	C8	ADE	154	139.761	25.325	3.375	1.00123.65	Al
ATOM	21812	C2	GUA	152	130.275	24.506	1.201	1.00103.27	Al6S	ATOM	21865	C2'	ADE	154	138.969	25.619	6.783	1.00 92.30	Al
ATOM	21813	N2	GUA	152	130.836	25.626	0.722	1.00103.27	Al6S	ATOM	21866	O2'	ADE	154	139.402	25.713	8.128	1.00 92.30	Al
ATOM	21814	N1	GUA	152	129.613	24.619	2.401	1.00103.27	Al6S	ATOM	21867	C3'	ADE	154	137.992	24.465	6.582	1.00 92.30	Al
ATOM	21815	C6	GUA	152	128.973	23.575	3.063	1.00103.27	Al6S	ATOM	21868	O3'	ADE	154	137.145	24.317	7.718	1.00 92.30	Al
ATOM	21816	O6	GUA	152	128.415	23.781	4.144	1.00103.27	Al6S	ATOM	21869	P	ADE	155	135.603	24.762	7.629	1.00114.10	Al
ATOM	21817	C5	GUA	152	129.077	22.360	2.344	1.00103.27	Al6S	ATOM	21870	O1P	ADE	155	134.947	24.363	8.902	1.00 82.55	Al
ATOM	21818	N7	GUA	152	128.589	21.097	2.641	1.00103.27	Al6S	ATOM	21871	O2P	ADE	155	135.067	24.262	6.335	1.00 82.55	Al
ATOM	21819	C8	GUA	152	128.982	20.355	1.642	1.00103.27	Al6S	ATOM	21872	O5'	ADE	155	135.657	26.356	7.594	1.00114.10	Al
ATOM	21820	C2'	GUA	152	131.845	20.496	-0.386	1.00111.96	Al6S	ATOM	21873	C5'	ADE	155	136.201	27.093	8.688	1.00114.10	Al
ATOM	21821	O2'	GUA	152	132.422	20.640	-1.669	1.00111.96	Al6S	ATOM	21874	C4'	ADE	155	136.720	28.434	8.214	1.00114.10	Al
ATOM	21822	C3'	GUA	152	132.058	19.108	0.203	1.00111.96	Al6S	ATOM	21875	O4'	ADE	155	137.702	28.212	7.168	1.00114.10	Al
ATOM	21823	O3'	GUA	152	133.394	18.660	0.011	1.00111.96	Al6S	ATOM	21876	C1'	ADE	155	137.603	29.234	6.192	1.00114.10	Al
ATOM	21824	P	GUA	153	134.542	19.134	1.032	1.00125.43	Al6S	ATOM	21877	N9	ADE	155	137.215	28.613	4.928	1.00 82.55	Al
ATOM	21825	O1P	GUA	153	135.843	18.680	0.484	1.00103.00	Al6S	ATOM	21878	C4	ADE	155	137.421	29.124	3.668	1.00 82.55	Al
ATOM	21826	O2P	GUA	153	134.148	18.744	2.408	1.00103.00	Al6S	ATOM	21879	N3	ADE	155	138.012	30.287	3.346	1.00 82.55	Al
ATOM	21827	O5'	GUA	153	134.505	20.725	0.954	1.00125.43	Al6S	ATOM	21880	C2	ADE	155	138.041	30.451	2.027	1.00 82.55	Al
ATOM	21828	C5'	GUA	153	135.320	21.438	0.025	1.00125.43	Al6S	ATOM	21881	N1	ADE	155	137.581	29.647	1.062	1.00 82.55	Al
ATOM	21829	C4'	GUA	153	135.727	22.770	0.610	1.00125.43	Al6S	ATOM	21882	C6	ADE	155	136.989	28.487	1.416	1.00 82.55	Al
ATOM	21830	O4'	GUA	153	134.562	23.629	0.735	1.00125.43	Al6S	ATOM	21883	N6	ADE	155	136.523	27.689	0.449	1.00 82.55	Al
ATOM	21831	C1'	GUA	153	134.638	24.364	1.946	1.00125.43	Al6S	ATOM	21884	C5	ADE	155	136.897	28.192	2.792	1.00 82.55	Al
ATOM	21832	N9	GUA	153	133.532	23.935	2.793	1.00103.00	Al6S	ATOM	21885	N7	ADE	155	136.365	27.113	3.488	1.00 82.55	Al
ATOM	21833	C4	GUA	153	132.997	24.609	3.869	1.00103.00	Al6S	ATOM	21886	C8	ADE	155	136.579	27.412	4.746	1.00 82.55	Al
ATOM	21834	N3	GUA	153	133.416	25.799	4.351	1.00103.00	Al6S	ATOM	21887	C2'	ADE	155	136.582	30.248	6.705	1.00114.10	Al
ATOM	21835	C2	GUA	153	132.695	26.190	5.394	1.00103.00	Al6S	ATOM	21888	O2'	ADE	155	137.248	31.235	7.463	1.00114.10	Al
ATOM	21836	N2	GUA	153	132.976	27.353	6.012	1.00103.00	Al6S	ATOM	21889	C3'	ADE	155	135.702	29.365	7.574	1.00114.10	Al
ATOM	21837	N1	GUA	153	131.646	25.472	5.909	1.00103.00	Al6S	ATOM	21890	O3'	ADE	155	135.041	30.146	8.559	1.00114.10	Al
ATOM	21838	C6	GUA	153	131.195	24.251	5.421	1.00103.00	Al6S	ATOM	21891	P	ADE	156	133.561	30.694	8.272	1.00104.86	Al
ATOM	21839	O6	GUA	153	130.225	23.697	5.949	1.00103.00	Al6S	ATOM	21892	O1P	ADE	156	133.154	31.484	9.462	1.00 97.82	Al
ATOM	21840	C5	GUA	153	131.965	23.816	4.318	1.00103.00	Al6S	ATOM	21893	O2P	ADE	156	132.719	29.558	7.819	1.00 97.82	Al
ATOM	21841	N7	GUA	153	131.861	22.662	3.554	1.00103.00	Al6S	ATOM	21894	O5'	ADE	156	133.739	31.674	7.028	1.00104.86	Al
ATOM	21842	C8	GUA	153	132.809	22.775	2.666	1.00103.00	Al6S	ATOM	21895	C5'	ADE	156	134.276	32.982	7.193	1.00104.86	Al
ATOM	21843	O2'	GUA	153	136.009	24.083	2.561	1.00125.43	Al6S	ATOM	21896	C4'	ADE	156	134.309	33.709	5.867	1.00104.86	Al
ATOM	21844	C2'	GUA	153	136.936	25.047	2.106	1.00125.43	Al6S	ATOM	21897	O1'	ADE	156	135.206	33.014	4.954	1.00104.86	Al
ATOM	21845	C3'	GUA	153	136.303	22.693	2.015	1.00125.43	Al6S	ATOM	21898	C4'	ADE	156	134.694	33.085	3.631	1.00104.86	Al
ATOM	21846	O3'	GUA	153	137.701	22.424	1.972	1.00125.43	Al6S	ATOM	21899	N9	ADE	156	134.334	31.730	3.202	1.00 97.82	Al
ATOM	21847	P	ADE	154	138.395	21.625	3.181	1.00 92.30	Al6S	ATOM	21900	C4	ADE	156	134.449	31.211	1.932	1.00 97.82	Al
ATOM	21848	O1P	ADE	154	139.865	21.824	3.057	1.00123.65	Al6S	ATOM	21901	N3	ADE	156	134.934	31.824	0.838	1.00 97.82	Al
ATOM	21849	O2P	ADE	154	137.838	20.248	3.204	1.00123.65	Al6S	ATOM	21902	C2	ADE	156	134.872	31.018	-0.221	1.00 97.82	Al
ATOM	21850	O5'	ADE	154	137.887	22.393	4.481	1.00 92.30	Al6S	ATOM	21903	N1	ADE	156	134.416	29.766	-0.306	1.00 97.82	Al
ATOM	21851	C5'	ADE	154	138.380	22.051	5.768	1.00 92.30	Al6S	ATOM	21904	C6	ADE	156	133.935	29.177	0.809	1.00 97.82	Al
ATOM	21852	C4'	ADE	154	138.931	23.277	6.459	1.00 92.30	Al6S	ATOM	21905	N6	ADE	156	133.478	27.926	0.721	1.00 97.82	Al
ATOM	21853	O4'	ADE	154	140.050	23.799	6.595	1.00 92.30	Al6S	ATOM	21906	C5	ADE	156	133.946	29.925	2.002	1.00 97.82	Al
ATOM	21854	C1'	ADE	154	140.139	25.200	5.887	1.00 92.30	Al6S	ATOM	21907	N7	ADE	156	133.536	29.628	3.295	1.00 97.82	Al

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ATOM	21908	C8	ADE	156	133.792	30.724	3.966	1.00	97.82	A16S	ATOM	21961	N1	CYT	159	123.941	23.971	-1.645	1.00	90.93	A
ATOM	21909	C2'	ADE	156	133.479	34.012	3.690	1.00104.86	A16S	ATOM	21962	C6	CYT	159	124.138	25.149	-0.986	1.00	90.93	A	
ATOM	21910	O2'	ADE	156	133.902	35.342	3.499	1.00104.86	A16S	ATOM	21963	C2	CYT	159	123.286	22.915	-1.019	1.00	90.93	A	
ATOM	21911	C3'	ADE	156	132.993	33.762	5.111	1.00104.86	A16S	ATOM	21964	O2	CYT	159	123.113	21.861	-1.653	1.00	90.93	A	
ATOM	21912	O3'	ADE	156	132.136	34.796	5.590	1.00104.86	A16S	ATOM	21965	N3	CYT	159	122.852	23.063	0.252	1.00	90.93	A	
ATOM	21913	P	CYT	157	130.631	34.438	6.044	1.00105.63	A16S	ATOM	21966	C4	CYT	159	123.054	24.214	0.892	1.00	90.93	A	
ATOM	21914	O1P	CYT	157	129.910	35.720	6.242	1.00109.02	A16S	ATOM	21967	N4	CYT	159	122.618	24.315	2.149	1.00	90.93	A	
ATOM	21915	O2P	CYT	157	130.702	33.460	7.160	1.00109.02	A16S	ATOM	21968	C5	CYT	159	123.714	25.313	0.274	1.00	90.93	A	
ATOM	21916	O5'	CYT	157	129.999	33.709	4.772	1.00105.63	A16S	ATOM	21969	C2'	CYT	159	123.241	23.660	-3.994	1.00	100.10	A	
ATOM	21917	C5'	CYT	157	130.179	34.251	3.465	1.00105.63	A16S	ATOM	21970	O2'	CYT	159	123.573	22.750	-5.020	1.00	100.10	A	
ATOM	21918	C4'	CYT	157	130.260	33.148	2.433	1.00105.63	A16S	ATOM	21971	C3'	CYT	159	123.111	25.098	-4.472	1.00	100.10	A	
ATOM	21919	O4'	CYT	157	131.127	32.096	2.936	1.00105.63	A16S	ATOM	21972	O3'	CYT	159	122.461	25.199	-5.723	1.00	100.10	A	
ATOM	21920	C1'	CYT	157	130.734	30.852	2.380	1.00105.63	A16S	ATOM	21973	P	GUA	160	120.866	25.331	-5.764	1.00	79.38	A	
ATOM	21921	N1	CYT	157	130.439	29.912	3.469	1.00109.02	A16S	ATOM	21974	O1P	GUA	160	120.478	25.528	-7.186	1.00	84.14	A	
ATOM	21922	C6	CYT	157	130.318	30.339	4.761	1.00109.02	A16S	ATOM	21975	O2P	GUA	160	120.448	26.323	-4.742	1.00	84.14	A	
ATOM	21923	C2	CYT	157	130.264	28.564	3.151	1.00109.02	A16S	ATOM	21976	O5'	GUA	160	120.364	23.896	-5.287	1.00	79.38	A	
ATOM	21924	O2	CYT	157	130.415	28.203	1.976	1.00109.02	A16S	ATOM	21977	C5'	GUA	160	120.606	22.739	-6.084	1.00	79.38	A	
ATOM	21925	N3	CYT	157	129.942	27.690	4.127	1.00109.02	A16S	ATOM	21978	C4'	GUA	160	120.087	21.502	-5.390	1.00	79.38	A	
ATOM	21926	C4	CYT	157	129.807	28.115	5.382	1.00109.02	A16S	ATOM	21979	O4'	GUA	160	120.828	21.274	-4.157	1.00	79.38	A	
ATOM	21927	N4	CYT	157	129.473	27.218	6.309	1.00109.02	A16S	ATOM	21980	C1'	GUA	160	119.974	20.655	-3.205	1.00	79.38	A	
ATOM	21928	C5	CYT	157	130.007	29.482	5.741	1.00109.02	A16S	ATOM	21981	N9	GUA	160	119.893	21.517	-2.033	1.00	84.14	A	
ATOM	21929	C2'	CYT	157	129.511	31.114	1.500	1.00105.63	A16S	ATOM	21982	C4	GUA	160	119.475	21.150	-0.777	1.00	84.14	A	
ATOM	21930	O2'	CYT	157	129.931	31.258	0.158	1.00105.63	A16S	ATOM	21983	N3	GUA	160	119.078	19.916	-0.403	1.00	84.14	A	
ATOM	21931	C3'	CYT	157	128.974	32.408	2.102	1.00105.63	A16S	ATOM	21984	C2	GUA	160	118.718	19.876	0.870	1.00	84.14	A	
ATOM	21932	O3'	CYT	157	128.198	33.128	1.147	1.00105.63	A16S	ATOM	21985	N2	GUA	160	118.298	18.725	1.408	1.00	84.14	A	
ATOM	21933	P	URI	158	126.644	32.764	0.944	1.00100.71	A16S	ATOM	21986	N1	GUA	160	118.743	20.961	1.707	1.00	84.14	A	
ATOM	21934	O1P	URI	158	126.040	33.787	0.055	1.00	99.55	A16S	ATOM	21987	C6	GUA	160	119.146	22.241	1.341	1.00	84.14	A
ATOM	21935	O2P	URI	158	126.043	32.499	2.274	1.00	99.55	A16S	ATOM	21988	O5	GUA	160	119.541	22.296	-0.020	1.00	84.14	A
ATOM	21936	O5'	URI	158	126.677	31.402	0.130	1.00100.71	A16S	ATOM	21989	C5	GUA	160	119.121	23.151	2.170	1.00	84.14	A	
ATOM	21937	C5'	URI	158	127.365	31.327	-1.108	1.00100.71	A16S	ATOM	21990	N7	GUA	160	120.001	23.362	-0.780	1.00	84.14	A	
ATOM	21938	C4'	URI	158	127.424	29.898	-1.577	1.00100.71	A16S	ATOM	21991	C8	GUA	160	120.199	22.852	-1.965	1.00	84.14	A	
ATOM	21939	O4'	URI	158	128.124	29.102	-0.589	1.00100.71	A16S	ATOM	21992	C2'	GUA	160	118.606	20.475	-3.870	1.00	79.38	A	
ATOM	21940	C1'	URI	158	127.567	27.798	-0.551	1.00100.71	A16S	ATOM	21993	O2'	GUA	160	118.480	19.188	-4.446	1.00	79.38	A	
ATOM	21941	N1	URI	158	127.141	27.512	0.824	1.00	99.55	A16S	ATOM	21994	C3'	GUA	160	118.644	21.570	-4.923	1.00	79.38	A
ATOM	21942	C6	URI	158	127.109	28.494	1.782	1.00	99.55	A16S	ATOM	21995	O3'	GUA	160	117.724	21.306	-5.967	1.00	79.38	A
ATOM	21943	C2	URI	158	126.785	26.215	1.122	1.00	99.55	A16S	ATOM	21996	P	GUA	161	116.192	21.753	-5.788	1.00	66.40	A
ATOM	21944	O2	URI	158	126.797	25.323	0.293	1.00	99.55	A16S	ATOM	21997	O1P	GUA	161	115.448	21.436	-7.039	1.00	85.56	A
ATOM	21945	N3	URI	158	126.415	26.000	2.424	1.00	99.55	A16S	ATOM	21998	O2P	GUA	161	116.197	23.147	-5.268	1.00	85.56	A
ATOM	21946	C4	URI	158	126.371	26.935	3.438	1.00	99.55	A16S	ATOM	21999	O5'	GUA	161	115.651	20.796	-4.636	1.00	66.40	A
ATOM	21947	O4	URI	158	126.032	26.587	4.571	1.00	99.55	A16S	ATOM	22000	C5'	GUA	161	115.492	19.404	-4.871	1.00	66.40	A
ATOM	21948	C5	URI	158	126.749	28.257	3.045	1.00	99.55	A16S	ATOM	22001	C4'	GUA	161	114.873	18.744	-3.674	1.00	66.40	A
ATOM	21949	C2'	URI	158	126.443	27.743	-1.588	1.00100.71	A16S	ATOM	22002	O4'	GUA	161	115.812	18.776	-2.575	1.00	66.40	A	
ATOM	21950	O2'	URI	158	126.955	27.210	-2.792	1.00100.71	A16S	ATOM	22003	C1'	GUA	161	115.101	18.851	-1.351	1.00	66.40	A	
ATOM	21951	C3'	URI	158	126.075	29.216	-1.712	1.00100.71	A16S	ATOM	22004	N9	GUA	161	115.533	20.047	-0.641	1.00	85.56	A	
ATOM	21952	O3'	URI	158	125.511	29.513	-2.981	1.00100.71	A16S	ATOM	22005	C4	GUA	161	115.224	20.380	0.654	1.00	85.56	A	
ATOM	21953	P	CYT	159	123.971	29.171	-3.261	1.00110.20	A16S	ATOM	22006	N3	GUA	161	114.457	19.658	1.498	1.00	85.56	A	
ATOM	21954	O1P	CYT	159	123.611	29.822	-4.543	1.00	90.93	A16S	ATOM	22007	C2	GUA	161	114.346	20.237	2.684	1.00	85.56	A
ATOM	21955	O2P	CYT	159	123.180	29.463	-2.039	1.00	90.93	A16S	ATOM	22008	N2	GUA	161	113.617	19.663	3.646	1.00	85.56	A
ATOM	21956	O5'	CYT	159	123.978	27.597	-3.492	1.00110.20	A16S	ATOM	22009	N1	GUA	161	114.943	21.425	3.014	1.00	85.56	A	
ATOM	21957	C5'	CYT	159	124.757	27.024	-4.535	1.00110.20	A16S	ATOM	22010	C6	GUA	161	115.740	22.182	2.164	1.00	85.56	A	
ATOM	21958	C4'	CYT	159	124.559	25.532	-4.566	1.00110.20	A16S	ATOM	22011	O6	GUA	161	116.239	23.235	2.568	1.00	85.56	A	
ATOM	21959	O4'	CYT	159	125.168	24.918	-3.399	1.00110.20	A16S	ATOM	22012	C5	GUA	161	115.862	21.576	0.884	1.00	85.56	A	
ATOM	21960	C1'	CYT	159	124.410	23.781	-3.018	1.00110.20	A16S	ATOM	22013	N7	GUA	161	116.551	21.992	-0.246	1.00	85.56	A	

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ATOM	22014	C8	GUA	161	116.324	21.056	-1.124	1.00	85.56	Al6S	ATOM	22067	C4' URI	164	102.716	26.975	5.217	1.00	64.28	Al6
ATOM	22015	C2' GUA	161	113.613	18.883	-1.695	1.00	66.40	Al6S	Al6S	ATOM	22068	O4' URI	164	104.132	27.039	5.540	1.00	64.28	Al6
ATOM	22016	O2' GUA	161	113.089	17.574	-1.644	1.00	66.40	Al6S	Al6S	ATOM	22069	C1' URI	164	104.569	28.384	5.481	1.00	64.28	Al6
ATOM	22017	C3' GUA	161	113.650	19.434	-3.108	1.00	66.40	Al6S	Al6S	ATOM	22070	N1 URI	164	105.619	28.477	4.461	1.00	53.70	Al6
ATOM	22018	O3' GUA	161	112.478	19.075	-3.807	1.00	66.40	Al6S	Al6S	ATOM	22071	C6 URI	164	105.589	27.707	3.325	1.00	53.70	Al6
ATOM	22019	P GUA	162	111.157	19.969	-3.632	1.00	61.74	Al6S	Al6S	ATOM	22072	C2 URI	164	106.644	29.362	4.689	1.00	53.70	Al6
ATOM	22020	O1P GUA	162	110.062	19.334	-4.415	1.00	70.87	Al6S	Al6S	ATOM	22073	O2 URI	164	106.680	30.083	5.670	1.00	53.70	Al6
ATOM	22021	O2P GUA	162	111.539	21.379	-3.915	1.00	70.87	Al6S	Al6S	ATOM	22074	N3 URI	164	107.623	29.379	3.725	1.00	53.70	Al6
ATOM	22022	O5' GUA	162	110.808	19.849	-2.080	1.00	61.74	Al6S	Al6S	ATOM	22075	C4 URI	164	107.667	28.626	2.576	1.00	53.70	Al6
ATOM	22023	C5' GUA	162	110.231	18.664	-1.554	1.00	61.74	Al6S	Al6S	ATOM	22076	O4 URI	164	108.640	28.715	1.831	1.00	53.70	Al6
ATOM	22024	C4' GUA	162	109.686	18.908	-0.170	1.00	61.74	Al6S	Al6S	ATOM	22077	C5 URI	164	106.550	27.752	2.397	1.00	53.70	Al6
ATOM	22025	O4' GUA	162	110.769	19.172	0.756	1.00	61.74	Al6S	Al6S	ATOM	22078	C2' URI	164	103.344	29.240	5.166	1.00	64.28	Al6
ATOM	22026	C1' GUA	162	110.295	19.985	1.818	1.00	61.74	Al6S	Al6S	ATOM	22079	O2' URI	164	102.750	29.625	6.384	1.00	64.28	Al6
ATOM	22027	N9 GUA	162	111.140	21.176	1.911	1.00	70.87	Al6S	Al6S	ATOM	22080	C3' URI	164	102.465	28.244	4.432	1.00	64.28	Al6
ATOM	22028	C4 GUA	162	111.249	22.025	2.994	1.00	70.87	Al6S	Al6S	ATOM	22081	O3' URI	164	101.097	28.584	4.537	1.00	64.28	Al6
ATOM	22029	N3 GUA	162	110.638	21.877	4.187	1.00	70.87	Al6S	Al6S	ATOM	22082	P ADE	165	100.531	29.830	3.712	1.00	53.87	Al6
ATOM	22030	C2 GUA	162	110.908	22.878	5.004	1.00	70.87	Al6S	Al6S	ATOM	22083	O1P ADE	165	99.043	29.786	3.730	1.00	58.04	Al6
ATOM	22031	N2 GUA	162	110.392	22.896	6.231	1.00	70.87	Al6S	Al6S	ATOM	22084	O2P ADE	165	101.254	29.836	2.412	1.00	58.04	Al6
ATOM	22032	N1 GUA	162	111.705	23.938	4.679	1.00	70.87	Al6S	Al6S	ATOM	22085	O5' ADE	165	100.980	31.074	4.598	1.00	53.87	Al6
ATOM	22033	C6 GUA	162	112.342	24.114	3.463	1.00	70.87	Al6S	Al6S	ATOM	22086	C5' ADE	165	100.478	31.220	5.916	1.00	53.87	Al6
ATOM	22034	O6 GUA	162	113.020	25.120	3.273	1.00	70.87	Al6S	Al6S	ATOM	22087	C4' ADE	165	100.824	32.575	6.461	1.00	53.87	Al6
ATOM	22035	C5 GUA	162	112.076	23.044	2.576	1.00	70.87	Al6S	Al6S	ATOM	22088	O4' ADE	165	102.234	32.655	6.801	1.00	53.87	Al6
ATOM	22036	N7 GUA	162	112.516	22.821	1.279	1.00	70.87	Al6S	Al6S	ATOM	22089	C1' ADE	165	102.673	33.994	6.649	1.00	53.87	Al6
ATOM	22037	C8 GUA	162	111.945	21.699	0.929	1.00	70.87	Al6S	Al6S	ATOM	22090	N9 ADE	165	103.765	34.003	5.681	1.00	58.04	Al6
ATOM	22038	C2' GUA	162	108.834	20.330	1.500	1.00	61.74	Al6S	Al6S	ATOM	22091	C4 ADE	165	104.886	34.790	5.729	1.00	58.04	Al6
ATOM	22039	O2' GUA	162	107.961	19.466	2.194	1.00	61.74	Al6S	Al6S	ATOM	22092	N3 ADE	165	105.186	35.721	6.647	1.00	58.04	Al6
ATOM	22040	C3' GUA	162	108.782	20.109	-0.007	1.00	61.74	Al6S	Al6S	ATOM	22093	C2 ADE	165	106.370	36.260	6.391	1.00	58.04	Al6
ATOM	22041	O3' GUA	162	107.464	19.819	-0.439	1.00	61.74	Al6S	Al6S	ATOM	22094	N1 ADE	165	107.226	35.988	5.403	1.00	58.04	Al6
ATOM	22042	P CYT	163	106.439	21.026	-0.718	1.00	68.93	Al6S	Al6S	ATOM	22095	C6 ADE	165	106.894	35.044	4.503	1.00	58.04	Al6
ATOM	22043	O1P CYT	163	105.115	20.434	-1.071	1.00	75.33	Al6S	Al6S	ATOM	22096	N6 ADE	165	107.760	34.757	3.533	1.00	58.04	Al6
ATOM	22044	O2P CYT	163	107.101	21.966	-1.657	1.00	75.33	Al6S	Al6S	ATOM	22097	C7 ADE	165	105.657	34.412	3.412	1.00	58.04	Al6
ATOM	22045	O5' CYT	163	106.280	21.738	0.700	1.00	68.93	Al6S	Al6S	ATOM	22098	N5 ADE	165	105.020	33.429	3.912	1.00	58.04	Al6
ATOM	22046	C5' CYT	163	105.625	21.054	1.752	1.00	68.93	Al6S	Al6S	ATOM	22099	C8 ADE	165	103.903	33.225	4.562	1.00	58.04	Al6
ATOM	22047	C4' CYT	163	105.553	21.901	2.999	1.00	68.93	Al6S	Al6S	ATOM	22100	C2' ADE	165	101.454	34.812	6.210	1.00	53.87	Al6
ATOM	22048	O4' CYT	163	106.870	22.179	3.537	1.00	68.93	Al6S	Al6S	ATOM	22101	O2' ADE	165	100.825	35.316	7.376	1.00	53.87	Al6
ATOM	22049	C1' CYT	163	106.748	23.238	4.468	1.00	68.93	Al6S	Al6S	ATOM	22102	C3' ADE	165	100.618	33.741	5.520	1.00	53.87	Al6
ATOM	22050	N1 CYT	163	107.832	24.206	4.281	1.00	75.33	Al6S	Al6S	ATOM	22103	O3' ADE	165	99.241	34.074	5.442	1.00	53.87	Al6
ATOM	22051	C6 CYT	163	108.435	24.392	3.070	1.00	75.33	Al6S	Al6S	ATOM	22104	P ADE	166	98.695	34.904	4.180	1.00	58.30	Al6
ATOM	22052	C2 CYT	163	108.216	24.963	5.381	1.00	75.33	Al6S	Al6S	ATOM	22105	O1P ADE	166	97.227	35.051	4.317	1.00	44.45	Al6
ATOM	22053	O2 CYT	163	107.675	24.737	6.476	1.00	75.33	Al6S	Al6S	ATOM	22106	O2P ADE	166	99.257	34.368	2.908	1.00	44.45	Al6
ATOM	22054	N3 CYT	163	109.164	25.915	5.237	1.00	75.33	Al6S	Al6S	ATOM	22107	O5' ADE	166	99.316	36.338	4.433	1.00	58.30	Al6
ATOM	22055	C4 CYT	163	109.733	26.110	4.051	1.00	75.33	Al6S	Al6S	ATOM	22108	C5' ADE	166	98.848	37.146	5.501	1.00	58.30	Al6
ATOM	22056	N4 CYT	163	110.651	27.070	3.956	1.00	75.33	Al6S	Al6S	ATOM	22109	O4' ADE	166	99.660	38.402	5.566	1.00	58.30	Al6
ATOM	22057	C5 CYT	163	109.381	25.328	2.910	1.00	75.33	Al6S	Al6S	ATOM	22110	C4' ADE	166	101.039	38.052	5.851	1.00	58.30	Al6
ATOM	22058	C2' CYT	163	105.371	23.876	4.250	1.00	68.93	Al6S	Al6S	ATOM	22111	C1' ADE	166	101.901	38.922	5.150	1.00	58.30	Al6
ATOM	22059	O2' CYT	163	104.494	23.476	5.278	1.00	68.93	Al6S	Al6S	ATOM	22112	N9 ADE	166	102.705	38.128	4.218	1.00	44.45	Al6
ATOM	22060	C3' CYT	163	104.958	23.288	2.906	1.00	68.93	Al6S	Al6S	ATOM	22113	C4 ADE	166	104.047	38.307	3.974	1.00	44.45	Al6
ATOM	22061	O3' CYT	163	103.544	23.248	2.822	1.00	68.93	Al6S	Al6S	ATOM	22114	N3 ADE	166	104.862	39.214	4.537	1.00	44.45	Al6
ATOM	22062	P URI	164	102.760	24.494	2.178	1.00	64.28	Al6S	Al6S	ATOM	22115	C2 ADE	166	106.093	39.097	4.056	1.00	44.45	Al6
ATOM	22063	O1P URI	164	101.295	24.237	2.162	1.00	53.70	Al6S	Al6S	ATOM	22116	N1 ADE	166	106.565	38.249	3.143	1.00	44.45	Al6
ATOM	22064	O2P URI	164	103.464	24.803	0.907	1.00	53.70	Al6S	Al6S	ATOM	22117	C6 ADE	166	105.719	37.360	2.589	1.00	44.45	Al6
ATOM	22065	O5' URI	164	103.019	25.681	3.206	1.00	64.28	Al6S	Al6S	ATOM	22118	N6 ADE	166	106.193	36.536	1.661	1.00	44.45	Al6
ATOM	22066	C5' URI	164	102.390	25.693	4.483	1.00	64.28	Al6S	Al6S	ATOM	22119	C5 ADE	166	104.389	37.367	3.022	1.00	44.45	Al6

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ATOM	22120	N7	ADE	166	103.289	36.599	2.672	1.00	44.45	A16S	ATOM	22173	C1'	CYT	169	104.223	38.769	-5.856	1.00	65.43	A
ATOM	22121	C8	ADE	166	102.316	37.088	3.411	1.00	44.45	A16S	ATOM	22174	N1	CYT	169	103.054	38.747	-4.962	1.00	68.21	A
ATOM	22122	C2'	ADE	166	101.009	39.959	4.465	1.00	58.30	A16S	ATOM	22175	C6	CYT	169	102.915	39.665	-3.963	1.00	68.21	A
ATOM	22123	O2'	ADE	166	100.757	41.024	5.360	1.00	58.30	A16S	ATOM	22176	C2	CYT	169	102.078	37.764	-5.159	1.00	68.21	A
ATOM	22124	C3'	ADE	166	99.746	39.156	4.255	1.00	58.30	A16S	ATOM	22177	O2	CYT	169	102.229	36.942	-6.077	1.00	68.21	A
ATOM	22125	O3'	ADE	166	98.625	40.007	4.138	1.00	58.30	A16S	ATOM	22178	N3	CYT	169	100.997	37.735	-4.351	1.00	68.21	A
ATOM	22126	P	URI	167	98.383	40.836	4.172	1.00	65.93	A16S	ATOM	22179	C4	CYT	169	100.868	38.639	-3.381	1.00	68.21	A
ATOM	22127	O1P	URI	167	99.148	40.172	1.699	1.00	59.93	A16S	ATOM	22180	N4	CYT	169	99.782	38.576	-2.614	1.00	68.21	A
ATOM	22128	O2'	URI	167	96.910	40.975	2.661	1.00	59.93	A16S	ATOM	22181	C5	CYT	169	101.847	39.649	-3.157	1.00	68.21	A
ATOM	22129	O5'	URI	167	99.018	42.275	3.095	1.00	65.93	A16S	ATOM	22182	C2'	CYT	169	103.862	39.274	-7.252	1.00	65.43	A
ATOM	22130	C5'	URI	167	99.113	43.283	2.070	1.00	65.93	A16S	ATOM	22183	O2'	CYT	169	104.699	38.679	-8.221	1.00	65.43	A
ATOM	22131	C4'	URI	167	100.158	44.336	2.426	1.00	65.93	A16S	ATOM	22184	C3'	CYT	169	104.154	40.753	-7.105	1.00	65.43	A
ATOM	22132	O4'	URI	167	99.670	45.227	3.441	1.00	65.93	A16S	ATOM	22185	O3'	CYT	169	104.333	41.367	-8.363	1.00	65.43	A
ATOM	22133	C1'	URI	167	100.784	45.864	4.003	1.00	65.93	A16S	ATOM	22186	P	CYT	170	103.071	42.038	-9.079	1.00	58.73	A
ATOM	22134	N1	URI	167	100.453	46.436	5.311	1.00	59.93	A16S	ATOM	22187	O1P	CYT	170	103.590	42.785	-10.254	1.00	56.34	A
ATOM	22135	C6	URI	167	99.343	46.055	6.016	1.00	59.93	A16S	ATOM	22188	O2P	CYT	170	102.279	42.748	-8.051	1.00	56.34	A
ATOM	22136	C2	URI	167	101.301	47.413	5.790	1.00	59.93	A16S	ATOM	22189	O5'	CYT	170	102.219	40.791	-9.588	1.00	58.73	A
ATOM	22137	O2	URI	167	102.308	47.750	5.203	1.00	59.93	A16S	ATOM	22190	C5'	CYT	170	102.762	39.886	-10.544	1.00	58.73	A
ATOM	22138	N3	URI	167	100.923	47.983	6.974	1.00	59.93	A16S	ATOM	22191	C4'	CYT	170	101.768	38.804	-10.865	1.00	58.73	A
ATOM	22139	C4	URI	167	99.806	47.678	7.711	1.00	59.93	A16S	ATOM	22192	O4'	CYT	170	101.522	38.007	-9.681	1.00	58.73	A
ATOM	22140	O4	URI	167	99.540	48.351	8.701	1.00	59.93	A16S	ATOM	22193	C1'	CYT	170	100.181	37.561	-9.679	1.00	58.73	A
ATOM	22141	C5	URI	167	98.995	46.630	7.170	1.00	59.93	A16S	ATOM	22194	N1	CYT	170	99.537	38.088	-8.473	1.00	56.34	A
ATOM	22142	C2'	URI	167	101.985	45.602	3.905	1.00	65.93	A16S	ATOM	22195	C6	CYT	170	100.187	38.978	-7.669	1.00	56.34	A
ATOM	22143	O2'	URI	167	103.086	45.923	3.348	1.00	65.93	A16S	ATOM	22196	C2	CYT	170	98.248	37.671	-8.161	1.00	56.34	A
ATOM	22144	C3'	URI	167	101.481	43.813	2.979	1.00	65.93	A16S	ATOM	22197	O2	CYT	170	97.689	36.854	-8.904	1.00	56.34	A
ATOM	22145	O3'	URI	167	102.523	43.666	1.998	1.00	65.93	A16S	ATOM	22198	N3	CYT	170	97.641	38.166	-7.058	1.00	56.34	A
ATOM	22146	P	CYT	168	102.254	43.957	0.429	1.00	54.99	A16S	ATOM	22199	C4	CYT	170	98.282	39.038	-6.283	1.00	56.34	A
ATOM	22147	O1P	CYT	168	102.469	45.394	0.171	1.00	57.22	A16S	ATOM	22200	N4	CYT	170	97.650	39.500	-5.213	1.00	56.34	A
ATOM	22148	O2P	CYT	168	101.008	43.310	-0.059	1.00	57.22	A16S	ATOM	22201	C5	CYT	170	99.602	39.473	-6.574	1.00	56.34	A
ATOM	22149	O5'	CYT	168	103.467	43.193	-0.256	1.00	54.99	A16S	ATOM	22202	C2'	CYT	170	99.541	38.052	-10.979	1.00	58.73	A
ATOM	22150	C5'	CYT	168	104.795	43.318	0.249	1.00	54.99	A16S	ATOM	22203	O2'	CYT	170	99.670	37.037	-11.954	1.00	58.73	A
ATOM	22151	C4'	CYT	168	105.651	42.220	-0.320	1.00	54.99	A16S	ATOM	22204	C3'	CYT	170	100.394	39.274	-11.293	1.00	58.73	A
ATOM	22152	O4'	CYT	168	105.557	41.036	0.509	1.00	54.99	A16S	ATOM	22205	O3'	CYT	170	100.420	39.556	-12.684	1.00	58.73	A
ATOM	22153	C1'	CYT	168	105.506	39.882	-0.315	1.00	54.99	A16S	ATOM	22206	P	CYT	171	99.202	40.351	-13.371	1.00	64.94	A
ATOM	22154	N1	CYT	168	104.204	39.238	-0.110	1.00	57.22	A16S	ATOM	22207	O1P	CYT	171	99.562	40.440	-14.810	1.00	59.27	A
ATOM	22155	C6	CYT	168	103.295	39.759	0.765	1.00	57.22	A16S	ATOM	22208	O2P	CYT	171	98.908	41.589	-12.607	1.00	59.27	A
ATOM	22156	C2	CYT	168	103.906	38.089	-0.836	1.00	57.22	A16S	ATOM	22209	O5'	CYT	171	97.960	39.362	-13.228	1.00	64.94	A
ATOM	22157	O2	CYT	168	104.750	37.646	-1.619	1.00	57.22	A16S	ATOM	22210	C5'	CYT	171	97.892	38.175	-14.012	1.00	64.94	A
ATOM	22158	N3	CYT	168	102.708	37.495	-0.673	1.00	57.22	A16S	ATOM	22211	C4'	CYT	171	96.578	37.468	-13.787	1.00	64.94	A
ATOM	22159	C4	CYT	168	101.821	38.015	0.170	1.00	57.22	A16S	ATOM	22212	O4'	CYT	171	96.486	37.059	-12.400	1.00	64.94	A
ATOM	22160	N4	CYT	168	100.646	37.408	0.286	1.00	57.22	A16S	ATOM	22213	C1'	CYT	171	95.123	37.060	-11.999	1.00	64.94	A
ATOM	22161	C5	CYT	168	102.101	39.187	0.931	1.00	57.22	A16S	ATOM	22214	N1	CYT	171	94.974	37.968	-10.861	1.00	59.27	A
ATOM	22162	C2'	CYT	168	105.707	40.339	-1.764	1.00	54.99	A16S	ATOM	22215	C6	CYT	171	96.038	38.674	-10.382	1.00	59.27	A
ATOM	22163	O2'	CYT	168	107.065	40.217	-2.142	1.00	54.99	A16S	ATOM	22216	C2	CYT	171	93.716	38.097	-10.273	1.00	59.27	A
ATOM	22164	C3'	CYT	168	105.197	41.772	-1.700	1.00	54.99	A16S	ATOM	22217	O2	CYT	171	92.768	37.448	-10.740	1.00	59.27	A
ATOM	22165	O3'	CYT	168	105.749	42.606	-2.709	1.00	54.99	A16S	ATOM	22218	N3	CYT	171	93.562	38.923	-9.218	1.00	59.27	A
ATOM	22166	P	CYT	169	104.774	43.471	-3.653	1.00	65.43	A16S	ATOM	22219	C4	CYT	171	94.608	39.607	-8.752	1.00	59.27	A
ATOM	22167	O1P	CYT	169	105.558	44.659	-4.069	1.00	68.21	A16S	ATOM	22220	N4	CYT	171	94.414	40.407	-7.703	1.00	59.27	A
ATOM	22168	O2P	CYT	169	103.446	43.670	-3.002	1.00	68.21	A16S	ATOM	22221	C5	CYT	171	95.901	39.498	-9.340	1.00	59.27	A
ATOM	22169	O5'	CYT	169	104.604	42.527	-4.922	1.00	65.43	A16S	ATOM	22222	C2'	CYT	171	94.289	37.523	-13.192	1.00	64.94	A
ATOM	22170	C5'	CYT	169	105.753	42.016	-5.582	1.00	65.43	A16S	ATOM	22223	O2'	CYT	171	93.785	36.412	-13.898	1.00	64.94	A
ATOM	22171	C4'	CYT	169	105.428	40.730	-6.291	1.00	65.43	A16S	ATOM	22224	C3'	CYT	171	95.323	38.302	-13.988	1.00	64.94	A
ATOM	22172	O4'	CYT	169	105.184	39.674	-5.329	1.00	65.43	A16S	ATOM	22225	O3'	CYT	171	94.929	38.388	-15.344	1.00	64.94	A

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ATOM	22226	P	CYT	172	94.017	39.618	-15.806	1.00	85.46	A16S	ATOM	22279	O2	URI	174	86.962	49.186	-9.033	1.00	68.19	A1
ATOM	22227	O1P	CYT	172	93.788	39.493	-17.269	1.00	64.62	A16S	ATOM	22280	N3	URI	174	88.533	48.454	-10.502	1.00	68.19	A1
ATOM	22228	O2P	CYT	172	94.632	40.849	-15.254	1.00	64.62	A16S	ATOM	22281	C4	URI	174	88.958	47.790	-11.625	1.00	68.19	A1
ATOM	22229	O5'	CYT	172	92.631	39.390	-15.052	1.00	85.46	A16S	ATOM	22282	O4	URI	174	90.155	47.790	-11.909	1.00	68.19	A1
ATOM	22230	C5'	CYT	172	91.716	38.387	-15.485	1.00	85.46	A16S	ATOM	22283	C5	URI	174	87.915	47.166	-12.377	1.00	68.19	A1
ATOM	22231	C4'	CYT	172	90.425	38.484	-14.707	1.00	85.46	A16S	ATOM	22284	C2'	URI	174	84.274	49.384	-10.955	1.00	58.56	A1
ATOM	22232	O4'	CYT	172	90.693	38.270	-13.294	1.00	85.46	A16S	ATOM	22285	O2'	URI	174	83.300	49.837	-10.044	1.00	58.56	A1
ATOM	22233	C1'	CYT	172	89.719	38.959	-12.524	1.00	85.46	A16S	ATOM	22286	C3'	URI	174	83.678	48.907	-12.272	1.00	58.56	A1
ATOM	22234	N1	CYT	172	90.388	39.826	-11.537	1.00	64.62	A16S	ATOM	22287	O3'	URI	174	82.622	49.750	-12.702	1.00	58.56	A1
ATOM	22235	C6	CYT	172	91.651	40.309	-11.743	1.00	64.62	A16S	ATOM	22288	P	GUA	175	82.863	50.753	-13.927	1.00	81.42	A1
ATOM	22236	C2	CYT	172	89.688	40.158	-10.368	1.00	64.62	A16S	ATOM	22289	O1P	GUA	175	81.746	51.725	-13.930	1.00	55.50	A1
ATOM	22237	O2	CYT	172	88.545	39.696	-10.206	1.00	64.62	A16S	ATOM	22290	O2P	GUA	175	83.133	49.942	-15.139	1.00	55.50	A1
ATOM	22238	N3	CYT	172	90.271	40.970	-9.447	1.00	64.62	A16S	ATOM	22291	O5'	GUA	175	84.194	51.526	-13.518	1.00	81.42	A1
ATOM	22239	C4	CYT	172	91.498	41.443	-9.661	1.00	64.62	A16S	ATOM	22292	C5'	GUA	175	84.147	52.795	-12.862	1.00	81.42	A1
ATOM	22240	N4	CYT	172	92.023	42.247	-8.738	1.00	64.62	A16S	ATOM	22293	C4'	GUA	175	85.297	53.644	-13.339	1.00	81.42	A1
ATOM	22241	C5	CYT	172	92.239	41.114	-10.838	1.00	64.62	A16S	ATOM	22294	O4'	GUA	175	86.536	52.997	-12.974	1.00	81.42	A1
ATOM	22242	C2'	CYT	172	88.837	39.746	-13.495	1.00	85.46	A16S	ATOM	22295	C1'	GUA	175	87.508	53.277	-13.947	1.00	81.42	A1
ATOM	22243	O2'	CYT	172	87.652	39.022	-13.748	1.00	85.46	A16S	ATOM	22296	N9	GUA	175	88.453	52.162	-14.021	1.00	55.50	A1
ATOM	22244	C3'	CYT	172	89.739	39.839	-14.718	1.00	85.46	A16S	ATOM	22297	C4	GUA	175	89.709	52.124	-13.445	1.00	55.50	A1
ATOM	22245	O3'	CYT	172	88.974	40.034	-15.897	1.00	85.46	A16S	ATOM	22298	N3	GUA	175	90.258	53.083	-12.669	1.00	55.50	A1
ATOM	22246	P	ADE	173	88.613	41.529	-16.372	1.00	61.91	A16S	ATOM	22299	C2	GUA	175	91.496	52.785	-12.310	1.00	55.50	A1
ATOM	22247	O1P	ADE	173	87.782	41.413	-17.601	1.00	79.87	A16S	ATOM	22300	N2	GUA	175	92.192	53.636	-11.537	1.00	55.50	A1
ATOM	22248	O2P	ADE	173	89.874	42.309	-16.413	1.00	79.87	A16S	ATOM	22301	N1	GUA	175	92.145	51.638	-12.681	1.00	55.50	A1
ATOM	22249	O5'	ADE	173	87.696	42.113	-15.200	1.00	61.91	A16S	ATOM	22302	C6	GUA	175	91.604	50.634	-13.473	1.00	55.50	A1
ATOM	22250	C5'	ADE	173	86.391	41.590	-14.972	1.00	61.91	A16S	ATOM	22303	O6	GUA	175	92.288	49.633	-13.751	1.00	55.50	A1
ATOM	22251	C4'	ADE	173	85.768	42.204	-13.740	1.00	61.91	A16S	ATOM	22304	C5	GUA	175	90.269	50.939	-13.864	1.00	55.50	A1
ATOM	22252	O1'	ADE	173	86.632	42.009	-12.595	1.00	61.91	A16S	ATOM	22305	N7	GUA	175	89.375	50.225	-14.647	1.00	55.50	A1
ATOM	22253	C1'	ADE	173	86.349	43.003	-11.625	1.00	61.91	A16S	ATOM	22306	C8	GUA	175	88.310	50.982	-14.701	1.00	55.50	A1
ATOM	22254	N9	ADE	173	87.599	43.589	-11.145	1.00	79.87	A16S	ATOM	22307	C2'	GUA	175	86.814	53.724	-15.247	1.00	81.42	A1
ATOM	22255	C4	ADE	173	87.700	44.450	-10.081	1.00	79.87	A16S	ATOM	22308	O2'	GUA	175	87.361	54.903	-15.798	1.00	81.42	A1
ATOM	22256	N3	ADE	173	86.700	44.901	-9.304	1.00	79.87	A16S	ATOM	22309	C3'	GUA	175	85.330	53.780	-14.853	1.00	81.42	A1
ATOM	22257	C2	ADE	173	87.168	45.718	-8.368	1.00	79.87	A16S	ATOM	22310	O3'	GUA	175	84.548	54.923	-15.282	1.00	81.42	A1
ATOM	22258	N1	ADE	173	88.425	46.110	-8.137	1.00	79.87	A16S	ATOM	22311	P	URI	176	85.067	56.437	-15.001	1.00	78.36	A1
ATOM	22259	C6	ADE	173	89.405	45.640	-8.938	1.00	79.87	A16S	ATOM	22312	O1P	URI	176	84.935	57.258	-16.241	1.00	75.08	A1
ATOM	22260	N6	ADE	173	90.659	46.037	-8.709	1.00	79.87	A16S	ATOM	22313	O2P	URI	176	86.366	56.366	-14.312	1.00	75.08	A1
ATOM	22261	C5	ADE	173	89.040	44.759	-9.968	1.00	79.87	A16S	ATOM	22314	O5'	URI	176	84.079	57.023	-13.898	1.00	78.36	A1
ATOM	22262	N7	ADE	173	89.778	44.102	-10.942	1.00	79.87	A16S	ATOM	22315	C5'	URI	176	84.320	56.748	-12.526	1.00	78.36	A1
ATOM	22263	C8	ADE	173	88.878	43.424	-11.614	1.00	79.87	A16S	ATOM	22316	C4'	URI	176	84.436	58.024	-11.713	1.00	78.36	A1
ATOM	22264	O2'	ADE	173	85.413	44.027	-12.267	1.00	61.91	A16S	ATOM	22317	O4'	URI	176	85.044	57.646	-10.447	1.00	78.36	A1
ATOM	22265	C2'	ADE	173	84.106	43.842	-11.769	1.00	61.91	A16S	ATOM	22318	C1'	URI	176	86.038	58.579	-10.079	1.00	78.36	A1
ATOM	22266	C3'	ADE	173	85.563	43.704	-13.752	1.00	61.91	A16S	ATOM	22319	N1	URI	176	87.344	57.919	-10.193	1.00	75.08	A1
ATOM	22267	O3'	ADE	173	84.384	44.048	-14.463	1.00	61.91	A16S	ATOM	22320	C6	URI	176	87.558	56.895	-11.079	1.00	75.08	A1
ATOM	22268	P	URI	174	84.227	45.530	-15.057	1.00	58.56	A16S	ATOM	22321	C2	URI	176	88.349	58.379	-9.389	1.00	75.08	A1
ATOM	22269	O1P	URI	174	82.918	45.630	-15.750	1.00	68.19	A16S	ATOM	22322	O2	URI	176	88.178	59.266	-8.577	1.00	75.08	A1
ATOM	22270	O2P	URI	174	85.475	45.827	-15.802	1.00	68.19	A16S	ATOM	22323	N3	URI	176	89.563	57.765	-8.566	1.00	75.08	A1
ATOM	22271	O5'	URI	174	84.170	46.454	-13.762	1.00	58.56	A16S	ATOM	22324	C4	URI	176	89.857	56.751	-10.452	1.00	75.08	A1
ATOM	22272	C5'	URI	174	82.965	46.582	-13.033	1.00	58.56	A16S	ATOM	22325	O4	URI	176	91.024	56.362	-10.567	1.00	75.08	A1
ATOM	22273	C4'	URI	174	83.149	47.538	-11.893	1.00	58.56	A16S	ATOM	22326	C5	URI	176	88.746	56.310	-11.233	1.00	75.08	A1
ATOM	22274	O4'	URI	174	84.161	47.014	-10.999	1.00	58.56	A16S	ATOM	22327	C2'	URI	176	85.893	59.777	-11.013	1.00	78.36	A1
ATOM	22275	C1'	URI	174	84.891	48.090	-10.428	1.00	58.56	A16S	ATOM	22328	O2'	URI	176	85.003	60.718	-10.459	1.00	78.36	A1
ATOM	22276	N1	URI	174	86.295	47.963	-10.839	1.00	68.19	A16S	ATOM	22329	C3'	URI	176	85.339	59.120	-12.268	1.00	78.36	A1
ATOM	22277	C6	URI	174	86.651	47.271	-11.969	1.00	68.19	A16S	ATOM	22330	O3'	URI	176	84.567	60.075	-12.984	1.00	78.36	A1
ATOM	22278	C2	URI	174	87.243	48.578	-10.054	1.00	68.19	A16S	ATOM	22331	P	GUA	177	85.286	61.085	-14.008	1.00	63.45	A1

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ATOM	22332	O1P	GUA	177	84.612	62.397	-13.899	1.00	52.94	A16S	ATOM	22385	N9	ADE	179	96.417	56.502	-20.567	1.00	58.74	A
ATOM	22333	O2P	GUA	177	85.372	60.398	-15.338	1.00	52.94	A16S	ATOM	22386	C4	ADE	179	95.760	55.656	-21.414	1.00	58.74	A
ATOM	22334	O5'	GUA	177	86.742	61.298	-13.405	1.00	63.45	A16S	ATOM	22387	N3	ADE	179	96.280	54.620	-22.084	1.00	58.74	A
ATOM	22335	C5'	GUA	177	87.853	61.517	-14.265	1.00	63.45	A16S	ATOM	22388	C2	ADE	179	95.345	54.015	-22.802	1.00	58.74	A
ATOM	22336	C4'	GUA	177	89.138	61.205	-13.543	1.00	63.45	A16S	ATOM	22389	N1	ADE	179	94.045	54.302	-22.908	1.00	58.74	A
ATOM	22337	O4'	GUA	177	89.007	59.934	-12.849	1.00	63.45	A16S	ATOM	22390	C6	ADE	179	93.559	55.348	-22.210	1.00	58.74	A
ATOM	22338	C1'	GUA	177	90.184	59.166	-13.023	1.00	63.45	A16S	ATOM	22391	N6	ADE	179	92.257	55.619	-22.290	1.00	58.74	A
ATOM	22339	N9	GUA	177	89.848	58.069	-13.921	1.00	52.94	A16S	ATOM	22392	C5	ADE	179	94.452	56.081	-21.430	1.00	58.74	A
ATOM	22340	C4	GUA	177	90.613	56.964	-14.224	1.00	52.94	A16S	ATOM	22393	N7	ADE	179	94.289	57.198	-20.626	1.00	58.74	A
ATOM	22341	N3	GUA	177	91.840	56.682	-13.734	1.00	52.94	A16S	ATOM	22394	C8	ADE	179	95.484	57.409	-20.141	1.00	58.74	A
ATOM	22342	C2	GUA	177	92.330	55.558	-14.241	1.00	52.94	A16S	ATOM	22395	C2'	ADE	179	98.752	56.848	-21.330	1.00	59.34	A
ATOM	22343	N2	GUA	177	93.555	55.141	-13.877	1.00	52.94	A16S	ATOM	22396	O2'	ADE	179	99.938	56.088	-21.299	1.00	59.34	A
ATOM	22344	N1	GUA	177	91.655	54.770	-15.143	1.00	52.94	A16S	ATOM	22397	C3'	ADE	179	98.965	58.317	-20.991	1.00	59.34	A
ATOM	22345	C6	GUA	177	90.388	55.044	-15.653	1.00	52.94	A16S	ATOM	22398	O3'	ADE	179	100.183	58.809	-21.520	1.00	59.34	A
ATOM	22346	O6	GUA	177	89.865	54.273	-16.461	1.00	52.94	A16S	ATOM	22399	P	CYT	180	100.157	59.702	-22.847	1.00	48.63	A
ATOM	22347	C5	GUA	177	89.866	56.245	-15.131	1.00	52.94	A16S	ATOM	22400	O1P	CYT	180	101.528	60.254	-22.961	1.00	50.03	A
ATOM	22348	N7	GUA	177	88.665	56.881	-15.391	1.00	52.94	A16S	ATOM	22401	O2P	CYT	180	98.990	60.619	-22.743	1.00	50.03	A
ATOM	22349	C8	GUA	177	88.695	57.951	-14.646	1.00	52.94	A16S	ATOM	22402	O5'	CYT	180	99.915	58.650	-24.020	1.00	48.63	A
ATOM	22350	O2'	GUA	177	91.225	60.115	-13.619	1.00	63.45	A16S	ATOM	22403	C5'	CYT	180	100.914	57.689	-24.314	1.00	48.63	A
ATOM	22351	O2'	GUA	177	91.862	60.809	-12.568	1.00	63.45	A16S	ATOM	22404	C4'	CYT	180	100.391	56.650	-25.271	1.00	48.63	A
ATOM	22352	C3'	GUA	177	90.338	61.028	-14.454	1.00	63.45	A16S	ATOM	22405	O4'	CYT	180	99.326	55.893	-24.644	1.00	48.63	A
ATOM	22353	O3'	GUA	177	90.943	62.279	-14.751	1.00	63.45	A16S	ATOM	22406	C1'	CYT	180	98.423	55.445	-25.637	1.00	48.63	A
ATOM	22354	P	GUA	178	91.482	62.568	-16.240	1.00	65.56	A16S	ATOM	22407	N1	CYT	180	97.118	56.015	-25.327	1.00	50.03	A
ATOM	22355	O1P	GUA	178	91.841	64.013	-16.295	1.00	54.82	A16S	ATOM	22408	C6	CYT	180	97.012	57.058	-24.460	1.00	50.03	A
ATOM	22356	O2P	GUA	178	90.531	62.006	-17.242	1.00	54.82	A16S	ATOM	22409	C2	CYT	180	95.991	55.480	-25.929	1.00	50.03	A
ATOM	22357	O5'	GUA	178	92.815	61.705	-16.360	1.00	65.56	A16S	ATOM	22410	O2	CYT	180	96.128	54.526	-26.706	1.00	50.03	A
ATOM	22358	C5'	GUA	178	93.931	61.942	-15.515	1.00	65.56	A16S	ATOM	22411	N3	CYT	180	94.782	56.009	-25.652	1.00	50.03	A
ATOM	22359	C4'	GUA	178	94.860	60.762	-15.575	1.00	65.56	A16S	ATOM	22412	C4	CYT	180	94.687	57.030	-24.804	1.00	50.03	A
ATOM	22360	O4'	GUA	178	94.103	59.585	-15.189	1.00	65.56	A16S	ATOM	22413	N4	CYT	180	93.491	57.524	-24.557	1.00	50.03	A
ATOM	22361	C1'	GUA	178	94.565	58.456	-15.909	1.00	65.56	A16S	ATOM	22414	C5	CYT	180	95.824	57.590	-24.171	1.00	50.03	A
ATOM	22362	N9	GUA	178	93.456	57.920	-16.687	1.00	54.82	A16S	ATOM	22415	O2'	CYT	180	98.959	55.930	-26.986	1.00	48.63	A
ATOM	22363	C4	GUA	178	93.450	56.728	-17.363	1.00	54.82	A16S	ATOM	22416	C2'	CYT	180	99.798	54.941	-27.545	1.00	48.63	A
ATOM	22364	N3	GUA	178	94.454	55.833	-17.393	1.00	54.82	A16S	ATOM	22417	C3'	CYT	180	99.759	57.150	-26.556	1.00	48.63	A
ATOM	22365	C2	GUA	178	94.161	54.792	-18.145	1.00	54.82	A16S	ATOM	22418	O3'	CYT	180	100.752	57.468	-27.517	1.00	48.63	A
ATOM	22366	N2	GUA	178	95.040	53.802	-18.283	1.00	54.82	A16S	ATOM	22419	P	CYT	181	100.460	58.598	-28.619	1.00	58.16	A
ATOM	22367	N1	GUA	178	92.985	54.645	-18.817	1.00	54.82	A16S	ATOM	22420	O1P	CYT	181	101.773	58.841	-29.263	1.00	48.53	A
ATOM	22368	C6	GUA	178	91.941	55.555	-18.803	1.00	54.82	A16S	ATOM	22421	O2P	CYT	181	99.722	59.726	-28.002	1.00	48.53	A
ATOM	22369	O6	GUA	178	90.929	55.329	-19.457	1.00	54.82	A16S	ATOM	22422	O5'	CYT	181	99.531	57.859	-29.676	1.00	58.16	A
ATOM	22370	C5	GUA	178	92.232	56.670	-17.992	1.00	54.82	A16S	ATOM	22423	C5'	CYT	181	100.067	56.817	-30.475	1.00	58.16	A
ATOM	22371	N7	GUA	178	91.469	57.791	-17.694	1.00	54.82	A16S	ATOM	22424	C4'	CYT	181	98.979	56.163	-31.278	1.00	58.16	A
ATOM	22372	C8	GUA	178	92.235	58.503	-16.913	1.00	54.82	A16S	ATOM	22425	O4'	CYT	181	98.030	55.552	-30.376	1.00	58.16	A
ATOM	22373	C2'	GUA	178	95.705	58.933	-16.802	1.00	65.56	A16S	ATOM	22426	C1'	CYT	181	96.752	55.534	-30.981	1.00	58.16	A
ATOM	22374	O3'	GUA	178	96.929	58.733	-16.130	1.00	65.56	A16S	ATOM	22427	N1	CYT	181	95.817	56.215	-30.086	1.00	48.53	A
ATOM	22375	C2'	GUA	178	95.355	60.403	-16.962	1.00	65.56	A16S	ATOM	22428	C6	CYT	181	96.261	57.010	-29.070	1.00	48.53	A
ATOM	22376	O3'	GUA	178	96.489	61.172	-17.323	1.00	65.56	A16S	ATOM	22429	C5'	CYT	181	94.466	56.040	-30.299	1.00	48.53	A
ATOM	22377	P	ADE	179	96.782	61.462	-18.878	1.00	59.34	A16S	ATOM	22430	O2	CYT	181	94.109	55.277	-31.199	1.00	48.53	A
ATOM	22378	O1P	ADE	179	97.770	62.564	-18.958	1.00	58.74	A16S	ATOM	22431	N3	CYT	181	93.578	56.689	-29.520	1.00	48.53	A
ATOM	22379	O2P	ADE	179	95.477	61.602	-19.564	1.00	58.74	A16S	ATOM	22432	C4	CYT	181	94.011	57.470	-28.535	1.00	48.53	A
ATOM	22380	O5'	ADE	179	97.453	60.117	-19.412	1.00	59.34	A16S	ATOM	22433	N4	CYT	181	93.104	58.086	-27.786	1.00	48.53	A
ATOM	22381	C5'	ADE	179	98.647	59.615	-18.835	1.00	59.34	A16S	ATOM	22434	C5	CYT	181	95.398	57.650	-28.274	1.00	48.53	A
ATOM	22382	C4'	ADE	179	99.009	58.305	-19.477	1.00	59.34	A16S	ATOM	22435	C2'	CYT	181	96.878	56.242	-32.329	1.00	58.16	A
ATOM	22383	O4'	ADE	179	98.034	57.301	-19.109	1.00	59.34	A16S	ATOM	22436	O2'	CYT	181	97.059	55.293	-33.360	1.00	58.16	A
ATOM	22384	C1'	ADE	179	97.823	56.418	-20.198	1.00	59.34	A16S	ATOM	22437	C3'	CYT	181	98.114	57.094	-32.099	1.00	58.16	A

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ATOM	22438	O3' CYT	181	98.753	57.456	-33.314	1.00	58.16	A16S	ATOM	22491	C6	CYT	184	90.565	66.674	-33.742	1.00	57.41	A1
ATOM	22439	P	182	98.690	58.984	-33.804	1.00	69.68	A16S	ATOM	22492	C2	CYT	184	89.360	67.457	-31.828	1.00	57.41	A1
ATOM	22440	O1P CYT	182	99.659	59.118	-34.912	1.00	47.91	A16S	ATOM	22493	O2	CYT	184	88.305	67.907	-31.360	1.00	57.41	A1
ATOM	22441	O2P CYT	182	98.815	59.869	-32.615	1.00	47.91	A16S	ATOM	22494	N3	CYT	184	90.427	67.182	-31.046	1.00	57.41	A1
ATOM	22442	O5' CYT	182	97.211	59.113	-34.378	1.00	69.68	A16S	ATOM	22495	C4	CYT	184	91.537	66.688	-31.589	1.00	57.41	A1
ATOM	22443	C5' CYT	182	96.788	58.274	-35.443	1.00	69.68	A16S	ATOM	22496	N4	CYT	184	92.576	66.480	-30.794	1.00	57.41	A1
ATOM	22444	C4' CYT	182	95.290	58.316	-35.596	1.00	69.68	A16S	ATOM	22497	C5	CYT	184	91.630	66.395	-32.979	1.00	57.41	A1
ATOM	22445	O4' CYT	182	94.654	57.687	-34.456	1.00	69.68	A16S	ATOM	22498	C2' CYT	184	88.397	69.140	-34.374	1.00	64.32	A1	
ATOM	22446	C1' CYT	182	93.387	58.285	-34.238	1.00	69.68	A16S	ATOM	22499	O2' CYT	184	87.113	69.737	-34.381	1.00	64.32	A1	
ATOM	22447	N1 CYT	182	93.396	58.942	-32.926	1.00	47.91	A16S	ATOM	22500	C3' CYT	184	89.047	69.114	-35.751	1.00	64.32	A1	
ATOM	22448	C6 CYT	182	94.556	59.141	-32.239	1.00	47.91	A16S	ATOM	22501	O3' CYT	184	88.779	70.293	-36.500	1.00	64.32	A1	
ATOM	22449	C2 CYT	182	92.186	59.382	-32.401	1.00	47.91	A16S	ATOM	22502	P	CYT	185	89.767	71.558	-36.365	1.00	62.70	A1
ATOM	22450	O2 CYT	182	91.137	59.136	-33.030	1.00	47.91	A16S	ATOM	22503	O1P CYT	185	89.402	72.532	-37.421	1.00	67.21	A1	
ATOM	22451	N3 CYT	182	92.177	60.051	-31.225	1.00	47.91	A16S	ATOM	22504	O2P CYT	185	91.171	71.065	-36.280	1.00	67.21	A1	
ATOM	22452	C4 CYT	182	93.317	60.258	-30.577	1.00	47.91	A16S	ATOM	22505	O5' CYT	185	89.357	72.200	-34.966	1.00	62.70	A1	
ATOM	22453	N4 CYT	182	93.264	60.929	-29.433	1.00	47.91	A16S	ATOM	22506	C5' CYT	185	88.077	72.783	-34.804	1.00	62.70	A1	
ATOM	22454	C5' CYT	182	94.560	59.787	-31.073	1.00	47.91	A16S	ATOM	22507	C4' CYT	185	87.868	73.190	-33.375	1.00	62.70	A1	
ATOM	22455	C2' CYT	182	93.194	59.312	-35.351	1.00	69.68	A16S	ATOM	22508	O4' CYT	185	87.970	72.018	-32.530	1.00	62.70	A1	
ATOM	22456	O2' CYT	182	92.580	58.676	-36.453	1.00	69.68	A16S	ATOM	22509	C1' CYT	185	88.491	72.389	-31.264	1.00	62.70	A1	
ATOM	22457	C3' CYT	182	94.637	59.684	-35.645	1.00	69.68	A16S	ATOM	22510	N1 CYT	185	89.718	71.613	-31.028	1.00	67.21	A1	
ATOM	22458	O3' CYT	182	94.775	60.284	-36.929	1.00	69.68	A16S	ATOM	22511	C6 CYT	185	90.330	70.952	-32.052	1.00	67.21	A1	
ATOM	22459	P	183	94.909	61.884	-37.055	1.00	76.49	A16S	ATOM	22512	C2	CYT	185	90.258	71.574	-29.741	1.00	67.21	A1
ATOM	22460	O1P GUA	183	95.280	62.132	-38.468	1.00	54.52	A16S	ATOM	22513	O2	CYT	185	89.673	72.163	-28.829	1.00	67.21	A1
ATOM	22461	O2P GUA	183	95.772	62.402	-35.963	1.00	54.52	A16S	ATOM	22514	N3	CYT	185	91.402	70.897	-29.524	1.00	67.21	A1
ATOM	22462	O5' GUA	183	93.431	62.422	-36.813	1.00	76.49	A16S	ATOM	22515	C4	CYT	185	92.005	70.273	-30.534	1.00	67.21	A1
ATOM	22463	C5' GUA	183	92.379	62.045	-37.680	1.00	76.49	A16S	ATOM	22516	N4	CYT	185	93.148	69.637	-30.281	1.00	67.21	A1
ATOM	22464	C4' GUA	183	91.066	62.547	-37.149	1.00	76.49	A16S	ATOM	22517	C5	CYT	185	91.466	70.278	-31.852	1.00	67.21	A1
ATOM	22465	O4' GUA	183	90.752	61.893	-35.895	1.00	76.49	A16S	ATOM	22518	C2' CYT	185	88.740	73.900	-31.310	1.00	62.70	A1	
ATOM	22466	C1' GUA	183	89.945	62.755	-35.111	1.00	76.49	A16S	ATOM	22519	O2' CYT	185	87.624	74.576	-30.768	1.00	62.70	A1	
ATOM	22467	N9 GUA	183	90.581	62.942	-33.815	1.00	54.52	A16S	ATOM	22520	C3' CYT	185	88.911	74.127	-32.806	1.00	62.70	A1	
ATOM	22468	C4 GUA	183	89.960	63.370	-32.668	1.00	54.52	A16S	ATOM	22521	O3' CYT	185	88.641	75.466	-33.193	1.00	62.70	A1	
ATOM	22469	N3 GUA	183	88.653	63.683	-32.545	1.00	54.52	A16S	ATOM	22522	P	CYT	186	89.858	76.455	-33.544	1.00	73.28	A1
ATOM	22470	C2 GUA	183	88.349	64.049	-31.316	1.00	54.52	A16S	ATOM	22523	O1P CYT	186	89.291	77.578	-34.333	1.00	69.31	A1	
ATOM	22471	N2 GUA	183	87.089	64.374	-31.009	1.00	54.52	A16S	ATOM	22524	O2P CYT	186	90.997	75.674	-34.098	1.00	69.31	A1	
ATOM	22472	N1 GUA	183	89.255	64.120	-30.293	1.00	54.52	A16S	ATOM	22525	O5' CYT	186	90.303	77.006	-32.125	1.00	73.28	A1	
ATOM	22473	C6 GUA	183	90.605	63.812	-30.397	1.00	54.52	A16S	ATOM	22526	C5' CYT	186	89.346	77.523	-31.225	1.00	73.28	A1	
ATOM	22474	O6 GUA	183	91.338	63.925	-29.408	1.00	54.52	A16S	ATOM	22527	C4' CYT	186	89.924	77.564	-29.841	1.00	73.28	A1	
ATOM	22475	C5 GUA	183	90.945	63.398	-31.707	1.00	54.52	A16S	ATOM	22528	O4' CYT	186	90.133	76.210	-29.364	1.00	73.28	A1	
ATOM	22476	N7 GUA	183	92.162	62.991	-32.237	1.00	54.52	A16S	ATOM	22529	C1' CYT	186	91.250	76.184	-28.490	1.00	73.28	A1	
ATOM	22477	C8 GUA	183	91.898	62.733	-33.489	1.00	54.52	A16S	ATOM	22530	N1 CYT	186	92.239	75.247	-29.028	1.00	69.31	A1	
ATOM	22478	O2' GUA	183	89.805	64.068	-35.878	1.00	76.49	A16S	ATOM	22531	C6 CYT	186	92.219	74.880	-30.343	1.00	69.31	A1	
ATOM	22479	O2' GUA	183	88.604	64.031	-36.616	1.00	76.49	A16S	ATOM	22532	C2 CYT	186	93.213	74.734	-28.165	1.00	69.31	A1	
ATOM	22480	C3' GUA	183	91.028	64.016	-36.779	1.00	76.49	A16S	ATOM	22533	O2 CYT	186	93.199	75.085	-26.980	1.00	69.31	A1	
ATOM	22481	O3' GUA	183	90.845	64.810	-37.934	1.00	64.32	A16S	ATOM	22534	N3 CYT	186	94.139	73.874	-28.643	1.00	69.31	A1	
ATOM	22482	P	184	91.512	66.265	-38.007	1.00	64.32	A16S	ATOM	22535	C4 CYT	186	94.114	73.525	-29.929	1.00	69.31	A1	
ATOM	22483	O1P CYT	184	91.469	66.655	-39.446	1.00	57.41	A16S	ATOM	22536	N4 CYT	186	95.046	72.680	-30.362	1.00	69.31	A1	
ATOM	22484	O2P CYT	184	92.803	66.264	-37.281	1.00	57.41	A16S	ATOM	22537	C5 CYT	186	93.129	74.029	-30.833	1.00	69.31	A1	
ATOM	22485	O5' CYT	184	90.532	67.184	-37.160	1.00	64.32	A16S	ATOM	22538	C2' CYT	186	91.796	77.607	-28.425	1.00	73.28	A1	
ATOM	22486	C5' CYT	184	89.173	67.309	-37.517	1.00	64.32	A16S	ATOM	22539	O2' CYT	186	91.231	78.281	-27.322	1.00	73.28	A1	
ATOM	22487	C4' CYT	184	88.408	67.890	-36.371	1.00	64.32	A16S	ATOM	22540	C3' CYT	186	91.311	78.161	-29.753	1.00	73.28	A1	
ATOM	22488	O4' CYT	184	88.397	66.940	-35.276	1.00	64.32	A16S	ATOM	22541	O3' CYT	186	91.293	79.577	-29.766	1.00	73.28	A1	
ATOM	22489	C1' CYT	184	88.318	67.641	-34.047	1.00	64.32	A16S	ATOM	22542	P	CYT	187	92.670	80.372	-30.003	1.00	78.69	A1
ATOM	22490	N1 CYT	184	89.442	67.230	-33.202	1.00	57.41	A16S	ATOM	22543	O1P CYT	187	92.400	81.835	-29.924	1.00	57.80	A1	

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ATOM	22544	O2P	CYT	187	93.337	79.807	-31.214	1.00	57.80	Al6S	22597	C5	URI	189	109.931	76.019	-28.071	1.00	51.00	F
ATOM	22545	O5'	CYT	187	93.527	79.987	-28.718	1.00	78.69	Al6S	22598	C2'	URI	189	107.149	72.556	-29.850	1.00	68.57	F
ATOM	22546	C5'	CYT	187	94.915	80.232	-28.680	1.00	78.69	Al6S	22599	O2'	URI	189	107.295	71.839	-31.059	1.00	68.57	F
ATOM	22547	C4'	CYT	187	95.563	79.387	-27.619	1.00	78.69	Al6S	22600	C3'	URI	189	105.675	72.721	-29.447	1.00	68.57	F
ATOM	22548	O4'	CYT	187	95.146	78.007	-27.764	1.00	78.69	Al6S	22601	O3'	URI	189	104.951	71.862	-30.332	1.00	68.57	F
ATOM	22549	C1'	CYT	187	96.272	77.155	-27.667	1.00	78.69	Al6S	22602	P	GUA	190	103.873	70.795	-29.792	1.00	58.15	F
ATOM	22550	N1	CYT	187	96.466	76.539	-28.989	1.00	57.80	Al6S	22603	O1P	GUA	190	104.287	69.465	-30.304	1.00	54.99	F
ATOM	22551	C6	CYT	187	95.711	76.938	-30.057	1.00	57.80	Al6S	22604	O2P	GUA	190	102.534	71.330	-30.142	1.00	54.99	F
ATOM	22552	C2	CYT	187	97.410	75.517	-29.134	1.00	57.80	Al6S	22605	O5'	GUA	190	103.958	70.773	-28.205	1.00	58.15	P
ATOM	22553	O2	CYT	187	98.129	75.222	-28.168	1.00	57.80	Al6S	22606	C5'	GUA	190	102.959	70.071	-27.452	1.00	58.15	P
ATOM	22554	N3	CYT	187	97.522	74.888	-30.326	1.00	57.80	Al6S	22607	C4'	GUA	190	103.608	69.037	-26.573	1.00	58.15	P
ATOM	22555	C4	CYT	187	96.754	75.264	-31.351	1.00	57.80	Al6S	22608	O4'	GUA	190	104.438	68.210	-27.401	1.00	58.15	P
ATOM	22556	N4	CYT	187	96.875	74.593	-32.499	1.00	57.80	Al6S	22609	C1'	GUA	190	105.508	67.748	-26.629	1.00	58.15	P
ATOM	22557	C5	CYT	187	95.823	76.334	-31.244	1.00	57.80	Al6S	22610	N9	GUA	190	106.676	67.530	-27.468	1.00	54.99	P
ATOM	22558	C2'	CYT	187	97.444	78.009	-27.180	1.00	78.69	Al6S	22611	C4	GUA	190	107.734	66.741	-27.130	1.00	54.99	P
ATOM	22559	O2'	CYT	187	97.497	78.020	-25.769	1.00	78.69	Al6S	22612	N3	GUA	190	107.887	66.099	-25.954	1.00	54.99	P
ATOM	22560	C3'	CYT	187	97.071	79.364	-27.758	1.00	78.69	Al6S	22613	C2	GUA	190	108.985	65.374	-25.926	1.00	54.99	P
ATOM	22561	O3'	CYT	187	97.619	80.454	-27.048	1.00	78.69	Al6S	22614	N2	GUA	190	109.282	64.673	-24.827	1.00	54.99	P
ATOM	22562	P	URI	188	98.665	81.415	-27.778	1.00	78.58	Al6S	22615	N1	GUA	190	109.871	65.283	-26.973	1.00	54.99	P
ATOM	22563	O1P	URI	188	98.355	82.790	-27.327	1.00	62.53	Al6S	22616	C6	GUA	190	109.740	65.943	-28.193	1.00	54.99	P
ATOM	22564	O2P	URI	188	98.653	81.098	-29.231	1.00	62.53	Al6S	22617	O6	GUA	190	110.603	65.798	-29.067	1.00	54.99	P
ATOM	22565	O5'	URI	188	100.052	80.980	-27.125	1.00	78.58	Al6S	22618	C5	GUA	190	108.554	66.730	-28.234	1.00	54.99	P
ATOM	22566	C5'	URI	188	101.189	80.646	-27.917	1.00	78.58	Al6S	22619	N7	GUA	190	108.032	67.533	-29.241	1.00	54.99	P
ATOM	22567	C4'	URI	188	101.222	79.161	-28.166	1.00	78.58	Al6S	22620	C8	GUA	190	106.924	67.998	-28.735	1.00	54.99	P
ATOM	22568	O4'	URI	188	100.110	78.834	-29.015	1.00	78.58	Al6S	22621	C2'	GUA	190	105.675	68.631	-25.394	1.00	58.15	A
ATOM	22569	C1'	URI	188	100.420	77.674	-29.730	1.00	78.58	Al6S	22622	O2'	GUA	190	105.553	67.842	-24.235	1.00	58.15	A
ATOM	22570	N1	URI	188	99.757	77.705	-31.038	1.00	62.53	Al6S	22623	C3'	GUA	190	104.537	69.637	-25.528	1.00	58.15	A
ATOM	22571	C6	URI	188	98.812	78.658	-31.332	1.00	62.53	Al6S	22624	O3'	GUA	190	103.937	69.759	-24.222	1.00	58.15	A
ATOM	22572	C2	URI	188	100.081	76.718	-31.946	1.00	62.53	Al6S	22625	P	GUA	191	102.503	69.069	-23.869	1.00	54.55	A
ATOM	22573	O2	URI	188	100.930	75.878	-31.731	1.00	62.53	Al6S	22626	O1P	GUA	191	102.725	68.163	-22.719	1.00	51.95	A
ATOM	22574	N3	URI	188	99.365	76.747	-33.115	1.00	62.53	Al6S	22627	O2P	GUA	191	101.775	68.559	-25.056	1.00	51.95	A
ATOM	22575	C4	URI	188	98.376	77.646	-33.458	1.00	62.53	Al6S	22628	O5'	GUA	191	101.684	70.288	-23.271	1.00	54.55	A
ATOM	22576	O4	URI	188	97.730	77.470	-34.497	1.00	62.53	Al6S	22629	C5'	GUA	191	102.298	71.165	-22.338	1.00	54.55	A
ATOM	22577	C5	URI	188	98.126	78.660	-32.476	1.00	62.53	Al6S	22630	C4'	GUA	191	101.397	72.331	-22.062	1.00	54.55	A
ATOM	22578	C2'	URI	188	101.924	77.417	-29.662	1.00	78.58	Al6S	22631	O4'	GUA	191	101.337	73.179	-23.231	1.00	54.55	A
ATOM	22579	O2'	URI	188	102.081	76.240	-28.927	1.00	78.58	Al6S	22632	C1'	GUA	191	100.004	73.606	-23.440	1.00	54.55	A
ATOM	22580	C3'	URI	188	102.454	78.616	-28.879	1.00	78.58	Al6S	22633	N9	GUA	191	99.529	72.951	-24.649	1.00	51.95	A
ATOM	22581	O3'	URI	188	103.363	78.166	-27.855	1.00	78.58	Al6S	22634	C4	GUA	191	98.350	73.186	-25.303	1.00	51.95	A
ATOM	22582	P	URI	189	104.746	77.423	-28.237	1.00	68.57	Al6S	22635	N3	GUA	191	97.377	74.028	-24.900	1.00	51.95	A
ATOM	22583	O1P	URI	189	105.250	76.779	-27.001	1.00	51.00	Al6S	22636	C2	GUA	191	96.378	74.074	-25.764	1.00	51.95	A
ATOM	22584	O2P	URI	189	105.607	78.388	-28.952	1.00	51.00	Al6S	22637	N2	GUA	191	95.330	74.866	-25.516	1.00	51.95	A
ATOM	22585	O5'	URI	189	104.352	76.291	-29.290	1.00	68.57	Al6S	22638	N1	GUA	191	96.338	73.349	-26.935	1.00	51.95	A
ATOM	22586	C5'	URI	189	104.375	74.901	-28.948	1.00	68.57	Al6S	22639	C6	GUA	191	97.332	72.476	-27.364	1.00	51.95	A
ATOM	22587	C4'	URI	189	105.337	74.161	-29.842	1.00	68.57	Al6S	22640	O6	GUA	191	97.213	71.885	-28.442	1.00	51.95	A
ATOM	22588	O4'	URI	189	106.572	74.881	-29.838	1.00	68.57	Al6S	22641	C5	GUA	191	98.401	72.409	-26.439	1.00	51.95	A
ATOM	22589	C1'	URI	189	107.605	73.992	-30.123	1.00	68.57	Al6S	22642	N7	GUA	191	99.566	71.657	-26.468	1.00	51.95	A
ATOM	22590	N1	URI	189	108.845	74.501	-29.535	1.00	51.00	Al6S	22643	C8	GUA	191	100.198	72.003	-25.382	1.00	51.95	A
ATOM	22591	C6	URI	189	108.826	75.436	-28.530	1.00	51.00	Al6S	22644	C2'	GUA	191	99.222	73.197	-22.199	1.00	54.55	A
ATOM	22592	C2	URI	189	110.029	74.053	-30.071	1.00	51.00	Al6S	22645	O2'	GUA	191	99.365	74.176	-21.192	1.00	54.55	A
ATOM	22593	O2	URI	189	110.084	73.164	-30.908	1.00	51.00	Al6S	22646	C3'	GUA	191	99.959	71.932	-21.826	1.00	54.55	A
ATOM	22594	N3	URI	189	111.148	74.680	-29.589	1.00	51.00	Al6S	22647	O3'	GUA	191	99.747	71.582	-20.477	1.00	54.55	A
ATOM	22595	C4	URI	189	111.195	75.666	-28.629	1.00	51.00	Al6S	22648	P	GUA	192	98.804	70.336	-20.138	1.00	78.30	A
ATOM	22596	O4	URI	189	112.263	76.213	-28.387	1.00	51.00	Al6S	22649	O1P	GUA	192	98.855	70.162	-18.659	1.00	65.71	A

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ATOM	22650	O2P	GUA	192	99.228	69.225	-21.037	1.00	65.71	A16S	ATOM	22703	C6	URI	194	89.064	66.175	-25.030	1.00	69.84	AI
ATOM	22651	O5'	GUA	192	97.350	70.825	-20.582	1.00	78.30	A16S	ATOM	22704	C2	URI	194	88.931	65.347	-27.273	1.00	69.84	AI
ATOM	22652	C5'	GUA	192	96.678	71.861	-19.870	1.00	78.30	A16S	ATOM	22705	O2	URI	194	88.357	65.222	-28.339	1.00	69.84	AI
ATOM	22653	O4'	GUA	192	95.370	72.226	-20.547	1.00	78.30	A16S	ATOM	22706	N3	URI	194	90.167	64.803	-27.036	1.00	69.84	AI
ATOM	22654	C4'	GUA	192	95.630	72.765	-21.871	1.00	78.30	A16S	ATOM	22707	C4	URI	194	90.896	64.887	-25.872	1.00	69.84	AI
ATOM	22655	C1'	GUA	192	94.483	72.575	-22.684	1.00	78.30	A16S	ATOM	22708	O4	URI	194	91.971	64.294	-25.787	1.00	69.84	AI
ATOM	22656	N9	GUA	192	94.850	71.814	-23.869	1.00	65.71	A16S	ATOM	22709	C5	URI	194	90.267	65.637	-24.828	1.00	69.84	AI
ATOM	22657	C4	GUA	192	94.061	71.654	-24.975	1.00	65.71	A16S	ATOM	22710	C2'	URI	194	85.970	65.552	-26.313	1.00	76.79	AI
ATOM	22658	N3	GUA	192	92.835	72.191	-25.153	1.00	65.71	A16S	ATOM	22711	O2'	URI	194	84.888	65.878	-27.162	1.00	76.79	AI
ATOM	22659	C2	GUA	192	92.328	71.877	-26.328	1.00	65.71	A16S	ATOM	22712	C3'	URI	194	85.605	65.634	-24.838	1.00	76.79	AI
ATOM	22660	N2	GUA	192	91.115	72.334	-26.669	1.00	65.71	A16S	ATOM	22713	O3'	URI	194	84.316	65.088	-24.604	1.00	76.79	AI
ATOM	22661	N1	GUA	192	92.971	71.093	-27.254	1.00	65.71	A16S	ATOM	22714	P	GUA	195	84.181	63.553	-24.148	1.00	75.65	AI
ATOM	22662	C6	GUA	192	94.227	70.525	-27.085	1.00	65.71	A16S	ATOM	22715	O1P	GUA	195	82.869	63.438	-23.473	1.00	64.75	AI
ATOM	22663	O6	GUA	192	94.709	69.825	-27.977	1.00	65.71	A16S	ATOM	22716	O2P	GUA	195	85.410	63.132	-23.432	1.00	64.75	AI
ATOM	22664	C5	GUA	192	94.786	70.861	-25.831	1.00	65.71	A16S	ATOM	22717	O5'	GUA	195	84.104	62.757	-25.520	1.00	75.65	AI
ATOM	22665	N7	GUA	192	96.013	70.530	-25.274	1.00	65.71	A16S	ATOM	22718	C5'	GUA	195	82.957	62.868	-26.340	1.00	75.65	AI
ATOM	22666	C8	GUA	192	96.007	71.118	-24.110	1.00	65.71	A16S	ATOM	22719	C4'	GUA	195	83.154	62.086	-27.603	1.00	75.65	AI
ATOM	22667	C2'	GUA	192	93.468	71.796	-21.857	1.00	78.30	A16S	ATOM	22720	O4'	GUA	195	84.211	62.701	-28.385	1.00	75.65	AI
ATOM	22668	O2'	GUA	192	92.560	72.702	-21.273	1.00	78.30	A16S	ATOM	22721	C1'	GUA	195	84.940	61.696	-29.070	1.00	75.65	AI
ATOM	22669	C3'	GUA	192	94.374	71.117	-20.843	1.00	78.30	A16S	ATOM	22722	N9	GUA	195	86.315	61.734	-28.585	1.00	64.75	AI
ATOM	22670	O3'	GUA	192	93.623	70.710	-19.709	1.00	78.30	A16S	ATOM	22723	C4	GUA	195	87.443	61.318	-29.257	1.00	64.75	AI
ATOM	22671	P	GUA	193	92.934	69.256	-19.704	1.00	72.26	A16S	ATOM	22724	N3	GUA	195	87.484	60.821	-30.512	1.00	64.75	AI
ATOM	22672	O1P	GUA	193	92.405	69.034	-18.333	1.00	71.57	A16S	ATOM	22725	C2	GUA	195	88.714	60.483	-30.867	1.00	64.75	AI
ATOM	22673	O2P	GUA	193	93.898	68.289	-20.290	1.00	71.57	A16S	ATOM	22726	N2	GUA	195	88.939	59.962	-32.072	1.00	64.75	AI
ATOM	22674	O5'	GUA	193	91.714	69.387	-20.721	1.00	72.26	A16S	ATOM	22727	N1	GUA	195	89.814	60.627	-30.062	1.00	64.75	AI
ATOM	22675	C5'	GUA	193	90.738	70.399	-20.541	1.00	72.26	A16S	ATOM	22728	C6	GUA	195	89.793	61.132	-28.766	1.00	64.75	AI
ATOM	22676	C4'	GUA	193	89.817	70.471	-21.732	1.00	72.26	A16S	ATOM	22729	O6	GUA	195	90.838	61.201	-28.115	1.00	64.75	AI
ATOM	22677	O4'	GUA	193	90.576	70.782	-22.925	1.00	72.26	A16S	ATOM	22730	C5	GUA	195	88.483	61.502	-28.371	1.00	64.75	AI
ATOM	22678	C1'	GUA	193	89.873	70.304	-24.058	1.00	72.26	A16S	ATOM	22731	N7	GUA	195	88.025	62.042	-27.177	1.00	64.75	AI
ATOM	22679	N9	GUA	193	90.761	69.448	-24.825	1.00	71.57	A16S	ATOM	22732	C8	GUA	195	86.737	62.169	-27.352	1.00	64.75	AI
ATOM	22680	C4	GUA	193	90.546	69.010	-26.108	1.00	71.57	A16S	ATOM	22733	C2'	GUA	195	84.248	60.363	-28.762	1.00	75.65	AI
ATOM	22681	N3	GUA	193	89.483	69.312	-26.880	1.00	71.57	A16S	ATOM	22734	O2'	GUA	195	83.256	60.103	-29.730	1.00	75.65	AI
ATOM	22682	C2	GUA	193	89.560	68.745	-28.065	1.00	71.57	A16S	ATOM	22735	C3'	GUA	195	83.628	60.659	-27.405	1.00	75.65	AI
ATOM	22683	N2	GUA	193	88.588	68.942	-28.958	1.00	71.57	A16S	ATOM	22736	O3'	GUA	195	82.537	59.793	-27.119	1.00	75.65	AI
ATOM	22684	N1	GUA	193	90.595	67.943	-28.462	1.00	71.57	A16S	ATOM	22737	P	URI	196	82.797	58.424	-26.315	1.00	77.56	AI
ATOM	22685	C6	GUA	193	91.700	67.617	-27.683	1.00	71.57	A16S	ATOM	22738	O1P	URI	196	81.479	57.876	-25.914	1.00	75.96	AI
ATOM	22686	O6	GUA	193	92.586	66.881	-28.139	1.00	71.57	A16S	ATOM	22739	O2P	URI	196	83.831	58.663	-25.280	1.00	75.96	AI
ATOM	22687	C5	GUA	193	91.631	68.220	-26.410	1.00	71.57	A16S	ATOM	22740	O5'	URI	196	83.385	57.441	-27.419	1.00	77.56	AI
ATOM	22688	N7	GUA	193	92.513	68.163	-25.338	1.00	71.57	A16S	ATOM	22741	C5'	URI	196	82.544	56.941	-28.438	1.00	77.56	AI
ATOM	22689	C8	GUA	193	91.955	68.908	-24.421	1.00	71.57	A16S	ATOM	22742	C4'	URI	196	83.353	56.222	-29.482	1.00	77.56	AI
ATOM	22690	C2'	GUA	193	88.671	69.508	-23.551	1.00	72.26	A16S	ATOM	22743	O4'	URI	196	84.321	57.138	-30.055	1.00	77.56	AI
ATOM	22691	O2'	GUA	193	87.496	70.288	-23.631	1.00	72.26	A16S	ATOM	22744	C1'	URI	196	85.430	56.399	-30.544	1.00	77.56	AI
ATOM	22692	C3'	GUA	193	89.100	69.194	-22.125	1.00	72.26	A16S	ATOM	22745	N1	URI	196	86.652	56.890	-29.893	1.00	75.96	AI
ATOM	22693	O3'	GUA	193	87.972	68.934	-21.305	1.00	72.26	A16S	ATOM	22746	C6	URI	196	86.602	57.665	-28.761	1.00	75.96	AI
ATOM	22694	P	URI	194	87.461	67.421	-21.130	1.00	76.79	A16S	ATOM	22747	C2	URI	196	87.862	56.523	-30.452	1.00	75.96	AI
ATOM	22695	O1P	URI	194	86.275	67.479	-20.238	1.00	69.84	A16S	ATOM	22748	O2	URI	196	87.945	55.869	-31.481	1.00	75.96	AI
ATOM	22696	O2P	URI	194	88.621	66.561	-20.755	1.00	69.84	A16S	ATOM	22749	N3	URI	196	88.971	56.953	-29.766	1.00	75.96	AI
ATOM	22697	O5'	URI	194	86.982	67.006	-22.594	1.00	76.79	A16S	ATOM	22750	C4	URI	196	88.992	57.706	-28.614	1.00	75.96	AI
ATOM	22698	C5'	URI	194	85.818	67.583	-23.163	1.00	76.79	A16S	ATOM	22751	O4	URI	196	90.072	57.959	-28.078	1.00	75.96	AI
ATOM	22699	C4'	URI	194	85.655	67.133	-24.593	1.00	76.79	A16S	ATOM	22752	C5	URI	196	87.700	58.074	-28.119	1.00	75.96	AI
ATOM	22700	O4'	URI	194	86.815	67.553	-25.359	1.00	76.79	A16S	ATOM	22753	C2'	URI	196	85.164	54.926	-30.212	1.00	77.56	AI
ATOM	22701	C1'	URI	194	87.055	66.624	-26.406	1.00	76.79	A16S	ATOM	22754	O2'	URI	196	84.564	54.293	-31.329	1.00	77.56	AI
ATOM	22702	N1	URI	194	88.388	66.043	-26.215	1.00	69.84	A16S	ATOM	22755	C3'	URI	196	84.217	55.060	-29.024	1.00	77.56	AI

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ATOM	22756	O3' URI	196	83.450	53.874	-28.823	1.00	77.56	Al6S	ATOM	22809	C6	CYT	199	92.543	50.232	-21.964	1.00	53.77	P
ATOM	22757	P GUA	197	83.912	52.791	-27.717	1.00	73.81	Al6S	ATOM	22810	C2	CYT	199	93.795	51.600	-20.465	1.00	53.77	P
ATOM	22758	O1P GUA	197	83.008	51.632	-27.913	1.00	57.55	Al6S	ATOM	22811	O2	CYT	199	94.877	51.825	-19.907	1.00	53.77	P
ATOM	22759	O2P GUA	197	84.010	53.424	-26.377	1.00	57.55	Al6S	ATOM	22812	N3	CYT	199	92.697	52.340	-20.225	1.00	53.77	P
ATOM	22760	O5' GUA	197	85.366	52.344	-28.194	1.00	73.81	Al6S	ATOM	22813	C4	CYT	199	91.555	52.041	-20.832	1.00	53.77	P
ATOM	22761	C5' GUA	197	85.528	51.592	-29.394	1.00	73.81	Al6S	ATOM	22814	N4	CYT	199	90.506	52.806	-20.577	1.00	53.77	P
ATOM	22762	C4' GUA	197	86.970	51.197	-29.581	1.00	73.81	Al6S	ATOM	22815	C5	CYT	199	91.444	50.947	-21.730	1.00	53.77	P
ATOM	22763	O4' GUA	197	87.776	52.369	-29.873	1.00	73.81	Al6S	ATOM	22816	C2'	CYT	199	95.389	48.962	-20.426	1.00	61.28	P
ATOM	22764	C1' GUA	197	89.095	52.170	-29.380	1.00	73.81	Al6S	ATOM	22817	O2'	CYT	199	96.789	48.861	-20.488	1.00	61.28	P
ATOM	22765	N9 GUA	197	89.410	53.243	-28.439	1.00	57.55	Al6S	ATOM	22818	C3'	CYT	199	94.738	47.628	-20.744	1.00	61.28	P
ATOM	22766	C4' GUA	197	90.663	53.609	-28.001	1.00	57.55	Al6S	ATOM	22819	O3'	CYT	199	95.390	46.550	-20.095	1.00	61.28	P
ATOM	22767	N3 GUA	197	91.833	53.048	-28.376	1.00	57.55	Al6S	ATOM	22820	P	CYT	200	94.906	46.093	-18.638	1.00	67.86	P
ATOM	22768	C2 GUA	197	92.869	53.615	-27.781	1.00	57.55	Al6S	ATOM	22821	O1P	CYT	200	95.781	44.943	-18.307	1.00	51.05	P
ATOM	22769	N2 GUA	197	94.104	53.182	-28.048	1.00	57.55	Al6S	ATOM	22822	O2P	CYT	200	93.430	45.951	-18.586	1.00	51.05	P
ATOM	22770	C1' GUA	197	92.770	54.646	-26.885	1.00	57.55	Al6S	ATOM	22823	O5'	CYT	200	95.314	47.297	-17.688	1.00	67.86	P
ATOM	22771	N6 GUA	197	91.578	55.239	-26.481	1.00	57.55	Al6S	ATOM	22824	C5'	CYT	200	96.651	47.418	-17.235	1.00	67.86	P
ATOM	22772	O6 GUA	197	91.597	56.164	-25.665	1.00	57.55	Al6S	ATOM	22825	C4'	CYT	200	96.748	48.509	-16.209	1.00	67.86	P
ATOM	22773	C5 GUA	197	90.453	54.643	-27.117	1.00	57.55	Al6S	ATOM	22826	O4'	CYT	200	96.320	49.753	-16.811	1.00	67.86	P
ATOM	22774	N7 GUA	197	89.096	54.928	-27.001	1.00	57.55	Al6S	ATOM	22827	C1'	CYT	200	95.699	50.560	-15.835	1.00	67.86	P
ATOM	22775	C8 GUA	197	88.519	54.079	-27.806	1.00	57.55	Al6S	ATOM	22828	N1	CYT	200	94.359	50.893	-16.316	1.00	51.05	P
ATOM	22776	C2' GUA	197	89.124	50.784	-28.730	1.00	73.81	Al6S	ATOM	22829	C6	CYT	200	93.743	50.120	-17.257	1.00	51.05	P
ATOM	22777	O2' GUA	197	89.564	49.809	-29.659	1.00	73.81	Al6S	ATOM	22830	C2	CYT	200	93.720	52.017	-15.797	1.00	51.05	P
ATOM	22778	C3' GUA	197	87.658	50.598	-28.371	1.00	73.81	Al6S	ATOM	22831	O2	CYT	200	94.303	52.695	-14.941	1.00	51.05	P
ATOM	22779	O3' GUA	197	87.347	49.227	-28.223	1.00	73.81	Al6S	ATOM	22832	N3	CYT	200	92.487	52.337	-16.239	1.00	51.05	P
ATOM	22780	P URI	198	87.378	48.565	-26.762	1.00	59.19	Al6S	ATOM	22833	C4	CYT	200	91.895	51.579	-17.158	1.00	51.05	P
ATOM	22781	O1P URI	198	86.835	47.189	-26.931	1.00	54.09	Al6S	ATOM	22834	N4	CYT	200	90.682	51.935	-17.568	1.00	51.05	P
ATOM	22782	O2P URI	198	86.739	49.505	-25.796	1.00	54.09	Al6S	ATOM	22835	C5	CYT	200	92.520	50.423	-17.700	1.00	51.05	P
ATOM	22783	O5' URI	198	88.927	48.472	-26.404	1.00	59.19	Al6S	ATOM	22836	C2'	CYT	200	95.712	49.784	-14.516	1.00	67.86	P
ATOM	22784	C5' URI	198	89.807	47.676	-27.190	1.00	59.19	Al6S	ATOM	22837	O2'	CYT	200	96.835	50.197	-13.763	1.00	67.86	P
ATOM	22785	C4' URI	198	91.245	47.957	-26.822	1.00	59.19	Al6S	ATOM	22838	C3'	CYT	200	95.836	48.345	-15.008	1.00	67.86	P
ATOM	22786	O4' URI	198	91.570	49.342	-27.117	1.00	59.19	Al6S	ATOM	22839	O3'	CYT	200	96.481	47.507	-14.048	1.00	67.86	P
ATOM	22787	C1' URI	198	92.532	49.809	-26.184	1.00	54.09	Al6S	ATOM	22840	P	ADE	201	95.642	46.384	-13.260	1.00	59.55	P
ATOM	22788	N1 URI	198	91.970	50.943	-25.443	1.00	54.09	Al6S	ATOM	22841	O1P	ADE	201	96.574	45.248	-13.065	1.00	73.48	P
ATOM	22789	C6 URI	198	90.632	51.226	-25.444	1.00	54.09	Al6S	ATOM	22842	O2P	ADE	201	94.332	46.166	-13.948	1.00	73.48	P
ATOM	22790	C2 URI	198	92.861	51.722	-24.748	1.00	54.09	Al6S	ATOM	22843	O5'	ADE	201	95.354	47.036	-11.839	1.00	59.55	P
ATOM	22791	O2 URI	198	94.052	51.463	-24.692	1.00	54.09	Al6S	ATOM	22844	C5'	ADE	201	94.561	48.204	-11.734	1.00	59.55	P
ATOM	22792	N3 URI	198	92.314	52.802	-24.113	1.00	54.09	Al6S	ATOM	22845	C4'	ADE	201	95.012	49.025	-10.558	1.00	59.55	P
ATOM	22793	C4 URI	198	90.992	53.159	-24.090	1.00	54.09	Al6S	ATOM	22846	O4'	ADE	201	94.277	50.265	-10.533	1.00	59.55	P
ATOM	22794	O4 URI	198	90.665	54.216	-23.547	1.00	54.09	Al6S	ATOM	22847	C1'	ADE	201	93.974	50.614	-9.202	1.00	59.55	P
ATOM	22795	C5 URI	198	90.123	52.275	-24.806	1.00	54.09	Al6S	ATOM	22848	N9	ADE	201	92.533	50.806	-9.136	1.00	73.48	P
ATOM	22796	C2' URI	198	92.868	48.643	-25.266	1.00	59.19	Al6S	ATOM	22849	C4	ADE	201	91.874	51.868	-8.572	1.00	73.48	P
ATOM	22797	O2' URI	198	93.982	47.983	-25.819	1.00	59.19	Al6S	ATOM	22850	N3	ADE	201	92.414	52.899	-7.899	1.00	73.48	P
ATOM	22798	C3' URI	198	91.586	47.832	-25.353	1.00	59.19	Al6S	ATOM	22851	C2	ADE	201	91.473	53.776	-7.553	1.00	73.48	P
ATOM	22799	O3' URI	198	91.794	46.483	-25.009	1.00	59.19	Al6S	ATOM	22852	N1	ADE	201	90.151	53.742	-7.791	1.00	73.48	P
ATOM	22800	P CYT	199	91.607	46.022	-23.485	1.00	61.28	Al6S	ATOM	22853	C6	ADE	201	89.645	52.687	-8.471	1.00	73.48	P
ATOM	22801	O1P CYT	199	91.981	44.586	-23.451	1.00	53.77	Al6S	ATOM	22854	N6	ADE	201	88.335	52.655	-8.724	1.00	73.48	P
ATOM	22802	O2P CYT	199	90.272	46.454	-22.982	1.00	53.77	Al6S	ATOM	22855	C5	ADE	201	90.540	51.687	-8.882	1.00	73.48	P
ATOM	22803	O5' CYT	199	92.732	46.828	-22.704	1.00	61.28	Al6S	ATOM	22856	N7	ADE	201	90.357	50.502	-9.577	1.00	73.48	P
ATOM	22804	C5' CYT	199	94.099	46.573	-22.977	1.00	61.28	Al6S	ATOM	22857	C8	ADE	201	91.566	50.012	-9.686	1.00	73.48	P
ATOM	22805	C4' CYT	199	94.971	47.545	-22.238	1.00	61.28	Al6S	ATOM	22858	C2'	ADE	201	94.593	49.570	-8.270	1.00	59.55	P
ATOM	22806	O4' CYT	199	94.692	48.894	-22.686	1.00	61.28	Al6S	ATOM	22859	O2'	ADE	201	95.810	50.084	-7.771	1.00	59.55	P
ATOM	22807	C1' CYT	199	94.943	49.792	-21.625	1.00	61.28	Al6S	ATOM	22860	C3'	ADE	201	94.783	48.375	-9.206	1.00	59.55	P
ATOM	22808	N1 CYT	199	93.723	50.545	-21.355	1.00	53.77	Al6S	ATOM	22861	O3'	ADE	201	95.955	47.628	-8.889	1.00	59.55	P

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ATOM	22862	P	ADE	202	95.840	46.247	-8.074	1.00	60.13	A16S	ATOM	22915	C4	GUA	204	95.225	48.043	6.687	1.00	44.24	A1
ATOM	22863	O1P	ADE	202	97.136	45.533	-8.231	1.00	56.53	A16S	ATOM	22916	N3	GUA	204	96.318	48.390	7.402	1.00	44.24	A1
ATOM	22864	O2P	ADE	202	94.569	45.572	-8.459	1.00	56.53	A16S	ATOM	22917	C2	GUA	204	96.146	49.535	8.042	1.00	44.24	A1
ATOM	22865	O5	ADE	202	95.732	46.707	-6.555	1.00	60.13	A16S	ATOM	22918	N2	GUA	204	97.135	50.026	8.791	1.00	44.24	A1
ATOM	22866	C5	ADE	202	96.867	47.207	-5.860	1.00	60.13	A16S	ATOM	22919	N1	GUA	204	94.993	50.278	7.990	1.00	44.24	A1
ATOM	22867	C4	ADE	202	96.411	47.982	-4.659	1.00	60.13	A16S	ATOM	22920	C6	GUA	204	93.857	49.938	7.260	1.00	44.24	A1
ATOM	22868	O4	ADE	202	95.478	48.987	-5.125	1.00	60.13	A16S	ATOM	22921	O6	GUA	204	92.863	50.676	7.281	1.00	44.24	A1
ATOM	22869	C1	ADE	202	94.387	49.086	-4.233	1.00	60.13	A16S	ATOM	22922	C5	GUA	204	94.030	48.716	6.565	1.00	44.24	A1
ATOM	22870	N9	ADE	202	93.185	48.747	-4.984	1.00	56.53	A16S	ATOM	22923	N7	GUA	204	93.158	48.026	5.733	1.00	44.24	A1
ATOM	22871	C4	ADE	202	92.074	49.536	-5.158	1.00	56.53	A16S	ATOM	22924	C8	GUA	204	93.821	46.962	5.377	1.00	44.24	A1
ATOM	22872	N3	ADE	202	91.866	50.770	-4.675	1.00	56.53	A16S	ATOM	22925	C2	GUA	204	96.079	44.850	6.914	1.00	60.73	A1
ATOM	22873	C2	ADE	202	90.682	51.231	-5.067	1.00	56.53	A16S	ATOM	22926	O2	GUA	204	97.300	44.144	6.924	1.00	60.73	A1
ATOM	22874	N1	ADE	202	89.750	50.640	-5.819	1.00	56.53	A16S	ATOM	22927	C3	GUA	204	94.949	43.921	6.520	1.00	60.73	A1
ATOM	22875	C6	ADE	202	89.985	49.391	-6.274	1.00	56.53	A16S	ATOM	22928	O3	GUA	204	95.090	42.664	7.154	1.00	60.73	A1
ATOM	22876	N6	ADE	202	89.042	48.784	-6.999	1.00	56.53	A16S	ATOM	22929	P	GUA	205	94.541	42.460	8.651	1.00	56.04	A1
ATOM	22877	C5	ADE	202	91.209	48.800	-5.945	1.00	56.53	A16S	ATOM	22930	O1P	GUA	205	95.033	41.115	9.069	1.00	55.55	A1
ATOM	22878	N7	ADE	202	91.764	47.569	-6.262	1.00	56.53	A16S	ATOM	22931	O2P	GUA	205	93.081	42.760	8.658	1.00	55.55	A1
ATOM	22879	C8	ADE	202	92.934	47.589	-5.668	1.00	56.53	A16S	ATOM	22932	O5	GUA	205	95.306	43.554	9.521	1.00	56.04	A1
ATOM	22880	C2	ADE	202	94.674	48.170	-3.042	1.00	60.13	A16S	ATOM	22933	C5	GUA	205	96.626	43.309	9.978	1.00	56.04	A1
ATOM	22881	O2	ADE	202	95.254	48.921	-1.995	1.00	60.13	A16S	ATOM	22934	C4	GUA	205	97.134	44.491	10.755	1.00	56.04	A1
ATOM	22882	C3	ADE	202	95.626	47.149	-3.661	1.00	60.13	A16S	ATOM	22935	O4	GUA	205	97.029	45.668	9.912	1.00	56.04	A1
ATOM	22883	O3	ADE	202	96.517	46.569	-2.707	1.00	60.13	A16S	ATOM	22936	C1	GUA	205	96.781	46.805	10.718	1.00	56.04	A1
ATOM	22884	P	ADE	203	96.685	44.968	-2.641	1.00	72.87	A16S	ATOM	22937	N9	GUA	205	95.465	47.315	10.389	1.00	55.55	A1
ATOM	22885	O1P	ADE	203	95.358	44.377	-2.911	1.00	59.10	A16S	ATOM	22938	C4	GUA	205	94.920	48.465	10.875	1.00	55.55	A1
ATOM	22886	O2P	ADE	203	97.853	44.540	-3.450	1.00	59.10	A16S	ATOM	22939	N3	GUA	205	95.530	49.332	11.704	1.00	55.55	A1
ATOM	22887	O5	ADE	203	97.050	44.694	-1.118	1.00	72.87	A16S	ATOM	22940	C2	GUA	205	94.757	50.357	11.993	1.00	55.55	A1
ATOM	22888	C5	ADE	203	96.375	43.692	-0.366	1.00	72.87	A16S	ATOM	22941	N2	GUA	205	95.216	51.332	12.782	1.00	55.55	A1
ATOM	22889	C4	ADE	203	95.823	44.304	0.887	1.00	72.87	A16S	ATOM	22942	N1	GUA	205	93.480	50.502	11.524	1.00	55.55	A1
ATOM	22890	O4	ADE	203	96.908	44.898	1.619	1.00	72.87	A16S	ATOM	22943	C6	GUA	205	92.831	49.607	10.680	1.00	55.55	A1
ATOM	22891	C1	ADE	203	96.511	46.140	2.138	1.00	72.87	A16S	ATOM	22944	O6	GUA	205	91.663	49.821	10.326	1.00	55.55	A1
ATOM	22892	N9	ADE	203	97.623	47.060	1.960	1.00	59.10	A16S	ATOM	22945	C5	GUA	205	93.657	48.524	10.344	1.00	55.55	A1
ATOM	22893	C4	ADE	203	98.019	48.010	2.859	1.00	59.10	A16S	ATOM	22946	N7	GUA	205	93.417	47.436	9.518	1.00	55.55	A1
ATOM	22894	N3	ADE	203	97.376	48.384	3.973	1.00	59.10	A16S	ATOM	22947	C8	GUA	205	94.521	46.744	9.575	1.00	55.55	A1
ATOM	22895	C2	ADE	203	98.112	49.234	4.668	1.00	59.10	A16S	ATOM	22948	C2	GUA	205	96.761	46.333	12.165	1.00	56.04	A1
ATOM	22896	N1	ADE	203	99.331	49.705	4.402	1.00	59.10	A16S	ATOM	22949	O2	GUA	205	98.047	46.477	12.726	1.00	56.04	A1
ATOM	22897	C6	ADE	203	99.949	49.302	3.272	1.00	59.10	A16S	ATOM	22950	C3	GUA	205	96.330	44.888	11.980	1.00	56.04	A1
ATOM	22898	N6	ADE	203	101.187	49.738	3.028	1.00	59.10	A16S	ATOM	22951	O3	GUA	205	96.650	44.106	13.117	1.00	56.04	A1
ATOM	22899	C5	ADE	203	99.259	48.429	2.436	1.00	59.10	A16S	ATOM	22952	P	GUA	206	95.626	44.054	14.353	1.00	67.83	A1
ATOM	22900	N7	ADE	203	99.585	47.847	1.224	1.00	59.10	A16S	ATOM	22953	O1P	GUA	206	96.180	43.150	15.391	1.00	48.16	A1
ATOM	22901	C8	ADE	203	98.566	47.067	0.970	1.00	59.10	A16S	ATOM	22954	O2P	GUA	206	94.268	43.813	13.810	1.00	48.16	A1
ATOM	22902	C2	ADE	203	95.097	46.488	1.672	1.00	72.87	A16S	ATOM	22955	O5	GUA	206	95.657	45.524	14.941	1.00	67.83	A1
ATOM	22903	O2	ADE	203	94.202	46.440	2.763	1.00	72.87	A16S	ATOM	22956	C5	GUA	206	96.835	46.040	15.523	1.00	67.83	A1
ATOM	22904	C3	ADE	203	94.828	45.418	0.615	1.00	72.87	A16S	ATOM	22957	C4	GUA	206	96.511	47.301	16.261	1.00	67.83	A1
ATOM	22905	O3	ADE	203	93.500	44.868	0.612	1.00	72.87	A16S	ATOM	22958	O4	GUA	206	96.070	48.315	15.324	1.00	67.83	A1
ATOM	22906	P	GUA	204	92.960	43.957	1.857	1.00	60.73	A16S	ATOM	22959	C1	GUA	206	95.017	49.067	15.896	1.00	67.83	A1
ATOM	22907	O1P	GUA	204	92.631	42.638	1.270	1.00	44.24	A16S	ATOM	22960	N9	GUA	206	93.839	48.882	15.064	1.00	48.16	A1
ATOM	22908	O2P	GUA	204	91.931	44.691	2.627	1.00	44.24	A16S	ATOM	22961	C4	GUA	206	92.796	49.756	14.932	1.00	48.16	A1
ATOM	22909	O5	GUA	204	94.180	43.711	2.844	1.00	60.73	A16S	ATOM	22962	N3	GUA	206	92.666	50.930	15.577	1.00	48.16	A1
ATOM	22910	C5	GUA	204	93.946	43.450	4.223	1.00	60.73	A16S	ATOM	22963	C2	GUA	206	91.565	51.560	15.226	1.00	48.16	A1
ATOM	22911	C4	GUA	204	95.174	43.788	5.027	1.00	60.73	A16S	ATOM	22964	N2	GUA	206	91.290	52.745	15.767	1.00	48.16	A1
ATOM	22912	O4	GUA	204	95.676	45.086	4.612	1.00	60.73	A16S	ATOM	22965	N1	GUA	206	90.654	51.075	14.318	1.00	48.16	A1
ATOM	22913	C1	GUA	204	96.062	45.835	5.746	1.00	60.73	A16S	ATOM	22966	C6	GUA	206	90.770	49.860	13.647	1.00	48.16	A1
ATOM	22914	N9	GUA	204	95.080	46.903	5.925	1.00	44.24	A16S	ATOM	22967	O6	GUA	206	89.890	49.500	12.853	1.00	48.16	A1

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ATOM	22968	C5	GUA	206	91.951	49.181	14.009	1.00	48.16	A16S	ATOM	23021	O4' URI	209	86.066	49.159	18.840	1.00	89.46
ATOM	22969	N7	GUA	206	92.448	47.962	13.579	1.00	48.16	A16S	ATOM	23022	C1' URI	209	85.988	48.125	17.895	1.00	89.46
ATOM	22970	C8	GUA	206	93.565	47.821	14.239	1.00	48.16	A16S	ATOM	23023	N1 URI	209	86.927	47.051	18.236	1.00	89.23
ATOM	22971	C2'	GUA	206	94.837	48.575	17.327	1.00	67.83	A16S	ATOM	23024	C6 URI	209	87.714	47.122	19.360	1.00	89.23
ATOM	22972	O2'	GUA	206	95.620	49.383	18.180	1.00	67.83	A16S	ATOM	23025	C2 URI	209	87.047	45.999	17.344	1.00	89.23
ATOM	22973	C3'	GUA	206	95.340	47.144	17.199	1.00	67.83	A16S	ATOM	23026	O2 URI	209	86.300	45.847	16.392	1.00	89.23
ATOM	22974	O3'	GUA	206	95.779	46.572	18.416	1.00	67.83	A16S	ATOM	23027	N3 URI	209	88.069	45.128	17.616	1.00	89.23
ATOM	22975	P	CYT	207	94.712	45.860	19.375	1.00	85.22	A16S	ATOM	23028	C4 URI	209	88.944	45.184	18.683	1.00	89.23
ATOM	22976	O1P	CYT	207	95.370	45.755	20.710	1.00	42.41	A16S	ATOM	23029	O4 URI	209	89.920	44.431	18.700	1.00	89.23
ATOM	22977	O2P	CYT	207	94.126	44.645	18.730	1.00	42.41	A16S	ATOM	23030	C5 URI	209	88.692	46.250	19.608	1.00	89.23
ATOM	22978	O5'	CYT	207	93.564	46.946	19.457	1.00	85.22	A16S	ATOM	23031	C2' URI	209	84.520	47.800	17.628	1.00	89.46
ATOM	22979	C5' CYT	207	92.514	46.815	20.381	1.00	85.22	A16S	ATOM	23032	O2' URI	209	84.257	48.070	16.263	1.00	89.46	
ATOM	22980	C4' CYT	207	92.176	48.165	20.924	1.00	85.22	A16S	ATOM	23033	C3' URI	209	83.787	48.761	18.575	1.00	89.46	
ATOM	22981	O4' CYT	207	92.483	49.148	19.903	1.00	85.22	A16S	ATOM	23034	O3' URI	209	82.708	49.313	17.828	1.00	89.46	
ATOM	22982	C1' CYT	207	91.353	49.960	19.687	1.00	85.22	A16S	ATOM	23035	P URI	210	81.461	49.988	18.572	1.00	112.96	
ATOM	22983	N1 CYT	207	90.674	49.437	18.492	1.00	42.41	A16S	ATOM	23036	O1P URI	210	81.956	50.698	19.777	1.00	200.66	
ATOM	22984	C6 CYT	207	91.043	48.243	17.931	1.00	42.41	A16S	ATOM	23037	O2P URI	210	80.396	48.961	18.708	1.00	200.66	
ATOM	22985	C2 CYT	207	89.634	50.181	17.941	1.00	42.41	A16S	ATOM	23038	O5' URI	210	80.973	51.073	17.511	1.00	112.96	
ATOM	22986	O2 CYT	207	89.330	51.258	18.475	1.00	42.41	A16S	ATOM	23039	C5' URI	210	79.622	51.106	17.063	1.00	112.96	
ATOM	22987	N3 CYT	207	88.985	49.710	16.845	1.00	42.41	A16S	ATOM	23040	C4' URI	210	79.570	51.366	15.576	1.00	112.96	
ATOM	22988	C4 CYT	207	89.348	48.539	16.312	1.00	42.41	A16S	ATOM	23041	O4' URI	210	80.361	50.359	14.904	1.00	112.96	
ATOM	22989	N4 CYT	207	88.680	48.107	15.240	1.00	42.41	A16S	ATOM	23042	C1' URI	210	79.808	50.104	13.629	1.00	112.96	
ATOM	22990	C5 CYT	207	90.413	47.759	16.856	1.00	42.41	A16S	ATOM	23043	N1 URI	210	79.704	48.653	13.442	1.00	200.66	
ATOM	22991	C2' CYT	207	90.506	49.833	20.955	1.00	85.22	A16S	ATOM	23044	C6 URI	210	79.672	47.790	14.511	1.00	200.66	
ATOM	22992	O2' CYT	207	91.042	50.699	21.933	1.00	85.22	A16S	ATOM	23045	C2 URI	210	79.645	48.185	12.145	1.00	200.66	
ATOM	22993	C3' CYT	207	90.707	48.357	21.263	1.00	85.22	A16S	ATOM	23046	O2 URI	210	79.669	48.923	11.175	1.00	200.66	
ATOM	22994	O3' CYT	207	90.388	47.850	22.567	1.00	85.22	A16S	ATOM	23047	N3 URI	210	79.559	46.821	12.024	1.00	200.66	
ATOM	22995	P URI	208	91.007	48.539	23.888	1.00	100.74	A16S	ATOM	23048	C4 URI	210	79.527	45.898	13.048	1.00	200.66	
ATOM	22996	O1P URI	208	92.344	49.110	23.576	1.00	130.97	A16S	ATOM	23049	O4 URI	210	79.455	44.697	12.777	1.00	200.66	
ATOM	22997	O2P URI	208	90.878	47.553	24.989	1.00	130.97	A16S	ATOM	23050	C5 URI	210	79.590	46.463	14.363	1.00	200.66	
ATOM	22998	O5' URI	208	90.024	49.757	24.182	1.00	100.74	A16S	ATOM	23051	C2' URI	210	78.484	50.865	13.508	1.00	112.96	
ATOM	22999	C5' URI	208	88.655	49.530	24.499	1.00	100.74	A16S	ATOM	23052	O2' URI	210	78.665	51.980	12.662	1.00	112.96	
ATOM	23000	C4' URI	208	87.841	50.772	24.223	1.00	100.74	A16S	ATOM	23053	C3' URI	210	78.182	51.251	14.958	1.00	112.96	
ATOM	23001	O4' URI	208	88.292	51.862	25.059	1.00	100.74	A16S	ATOM	23054	O3' URI	210	77.461	52.494	14.961	1.00	112.96	
ATOM	23002	C1' URI	208	88.024	53.090	24.409	1.00	100.74	A16S	ATOM	23055	P GUA	211	78.241	53.894	15.182	1.00	151.93	
ATOM	23003	N1 URI	208	89.170	53.991	24.600	1.00	130.97	A16S	ATOM	23056	O1P GUA	211	78.656	53.985	16.603	1.00	68.76	
ATOM	23004	C6 URI	208	90.323	53.561	25.215	1.00	130.97	A16S	ATOM	23057	O2P GUA	211	77.458	55.003	14.587	1.00	68.76	
ATOM	23005	C2 URI	208	89.046	55.297	24.154	1.00	130.97	A16S	ATOM	23058	O5' GUA	211	79.531	53.736	14.266	1.00	151.93	
ATOM	23006	O2 URI	208	88.043	55.716	23.599	1.00	130.97	A16S	ATOM	23059	C5' GUA	211	80.150	54.860	13.650	1.00	151.93	
ATOM	23007	N3 URI	208	90.140	56.095	24.384	1.00	130.97	A16S	ATOM	23060	C4' GUA	211	81.438	55.162	14.360	1.00	151.93	
ATOM	23008	C4 URI	208	91.319	55.732	24.999	1.00	130.97	A16S	ATOM	23061	O4' GUA	211	81.984	53.923	14.842	1.00	151.93	
ATOM	23009	O4 URI	208	92.220	56.567	25.124	1.00	130.97	A16S	ATOM	23062	C1' GUA	211	83.382	54.036	14.918	1.00	151.93	
ATOM	23010	C5 URI	208	91.372	54.365	25.428	1.00	130.97	A16S	ATOM	23063	N9 GUA	211	83.967	52.828	14.358	1.00	68.76	
ATOM	23011	C2' URI	208	87.603	52.800	22.961	1.00	100.74	A16S	ATOM	23064	C4 GUA	211	85.006	52.133	14.904	1.00	68.76	
ATOM	23012	O2' URI	208	86.239	53.116	22.770	1.00	100.74	A16S	ATOM	23065	N3 GUA	211	85.679	52.484	16.011	1.00	68.76	
ATOM	23013	C3' URI	208	87.944	51.316	22.811	1.00	100.74	A16S	ATOM	23066	C2 GUA	211	86.598	51.600	16.325	1.00	68.76	
ATOM	23014	O3' URI	208	87.063	50.584	21.961	1.00	100.74	A16S	ATOM	23067	N2 GUA	211	87.358	51.802	17.397	1.00	68.76	
ATOM	23015	P URI	209	85.623	50.123	22.515	1.00	89.46	A16S	ATOM	23068	N1 GUA	211	86.836	50.454	15.609	1.00	68.76	
ATOM	23016	O1P URI	209	84.946	51.275	23.157	1.00	89.23	A16S	ATOM	23069	C6 GUA	211	86.149	50.072	14.462	1.00	68.76	
ATOM	23017	O2P URI	209	85.855	48.885	23.299	1.00	89.23	A16S	ATOM	23070	O6 GUA	211	86.428	49.006	13.899	1.00	68.76	
ATOM	23018	O5' URI	209	84.805	49.710	21.213	1.00	89.46	A16S	ATOM	23071	C5 GUA	211	85.166	51.023	14.109	1.00	68.76	
ATOM	23019	C5' URI	209	84.669	50.606	20.128	1.00	89.46	A16S	ATOM	23072	N7 GUA	211	84.265	51.040	13.053	1.00	68.76	
ATOM	23020	C4' URI	209	84.809	49.858	18.833	1.00	89.46	A16S	ATOM	23073	C8 GUA	211	83.578	52.136	13.236	1.00	68.76	

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ATOM	23074	C2' GUA	211	83.805	55.378	14.314	1.00151.93	Al6S	ATOM	23127	C6	CYT	214	95.225	54.977	10.757	1.00 44.67	Al
ATOM	23075	O2' GUA	211	84.100	56.267	15.370	1.00151.93	Al6S	ATOM	23128	C2	CYT	214	96.107	52.905	9.965	1.00 44.67	Al
ATOM	23076	C3' GUA	211	82.553	55.806	13.555	1.00151.93	Al6S	ATOM	23129	O2	CYT	214	97.037	52.092	9.965	1.00 44.67	Al
ATOM	23077	O3' GUA	211	82.406	57.214	13.648	1.00151.93	Al6S	ATOM	23130	N3	CYT	214	94.983	52.702	9.245	1.00 44.67	Al
ATOM	23078	P	212	83.451	58.187	12.909	1.00119.87	Al6S	ATOM	23131	C4	CYT	214	94.012	53.607	9.268	1.00 44.67	Al
ATOM	23079	O1P CYT	212	83.032	59.559	13.302	1.00 70.66	Al6S	ATOM	23132	N4	CYT	214	92.938	53.383	8.528	1.00 44.67	Al
ATOM	23080	O2P CYT	212	83.524	57.816	11.466	1.00 70.66	Al6S	ATOM	23133	C5	CYT	214	94.106	54.790	10.048	1.00 44.67	Al
ATOM	23081	O5' CYT	212	84.863	57.918	13.605	1.00119.87	Al6S	ATOM	23134	C2' CYT	214	98.607	54.713	10.569	1.00 79.27	Al	
ATOM	23082	C5' CYT	212	85.416	58.883	14.500	1.00119.87	Al6S	ATOM	23135	O2' CYT	214	99.846	54.305	11.109	1.00 79.27	Al	
ATOM	23083	C4' CYT	212	86.764	58.437	15.031	1.00119.87	Al6S	ATOM	23136	C3' CYT	214	98.442	56.217	10.638	1.00 79.27	Al	
ATOM	23084	O4' CYT	212	86.652	57.099	15.580	1.00119.87	Al6S	ATOM	23137	O3' CYT	214	99.606	56.878	10.182	1.00 79.27	Al	
ATOM	23085	C1' CYT	212	87.929	56.477	15.566	1.00119.87	Al6S	ATOM	23138	P	GUA	215	99.575	57.632	8.764	1.00 66.37	Al
ATOM	23086	N1 CYT	212	87.882	55.268	14.738	1.00 70.66	Al6S	ATOM	23139	O1P GUA	215	100.938	58.192	8.596	1.00 56.25	Al	
ATOM	23087	C6 CYT	212	87.041	55.166	13.666	1.00 70.66	Al6S	ATOM	23140	O2P GUA	215	98.400	58.537	8.736	1.00 56.25	Al	
ATOM	23088	C2 CYT	212	88.746	54.228	15.056	1.00 70.66	Al6S	ATOM	23141	O5' GUA	215	99.324	56.475	7.689	1.00 66.37	Al	
ATOM	23089	O2 CYT	212	89.464	54.341	16.060	1.00 70.66	Al6S	ATOM	23142	C5' GUA	215	100.339	55.514	7.438	1.00 66.37	Al	
ATOM	23090	N3 CYT	212	88.775	53.127	14.273	1.00 70.66	Al6S	ATOM	23143	C4' GUA	215	99.792	54.257	6.784	1.00 66.37	Al	
ATOM	23091	C4 CYT	212	87.962	53.041	13.219	1.00 70.66	Al6S	ATOM	23144	O4' GUA	215	98.578	53.771	7.428	1.00 66.37	Al	
ATOM	23092	N4 CYT	212	88.025	51.940	12.474	1.00 70.66	Al6S	ATOM	23145	C1' GUA	215	97.943	52.842	6.551	1.00 66.37	Al	
ATOM	23093	C5 CYT	212	87.049	54.080	12.886	1.00 70.66	Al6S	ATOM	23146	N9 GUA	215	96.567	53.245	6.310	1.00 56.25	Al	
ATOM	23094	C2' CYT	212	88.882	57.469	14.918	1.00119.87	Al6S	ATOM	23147	C4 GUA	215	95.678	52.570	5.521	1.00 56.25	Al	
ATOM	23095	O2' CYT	212	89.455	58.276	15.913	1.00119.87	Al6S	ATOM	23148	N3 GUA	215	95.926	51.422	4.862	1.00 56.25	Al	
ATOM	23096	C3' CYT	212	87.924	58.273	14.065	1.00119.87	Al6S	ATOM	23149	C2 GUA	215	94.870	51.004	4.183	1.00 56.25	Al	
ATOM	23097	O3' CYT	212	88.567	59.489	13.740	1.00119.87	Al6S	ATOM	23150	N2 GUA	215	94.938	49.869	3.473	1.00 56.25	Al	
ATOM	23098	P	213	89.722	59.490	12.623	1.00 79.49	Al6S	ATOM	23151	N1 GUA	215	93.671	51.668	4.149	1.00 56.25	Al	
ATOM	23099	O1P CYT	213	90.215	60.885	12.514	1.00 54.81	Al6S	ATOM	23152	C6 GUA	215	93.401	52.857	4.815	1.00 56.25	Al	
ATOM	23100	O2P CYT	213	89.173	58.801	11.426	1.00 54.81	Al6S	ATOM	23153	O6 GUA	215	92.290	53.381	4.709	1.00 56.25	Al	
ATOM	23101	O5' CYT	213	90.899	58.606	13.240	1.00 79.49	Al6S	ATOM	23154	C5 GUA	215	94.520	53.310	5.554	1.00 56.25	Al	
ATOM	23102	C5' CYT	213	91.700	59.104	14.311	1.00 79.49	Al6S	ATOM	23155	N7 GUA	215	94.677	54.431	6.354	1.00 56.25	Al	
ATOM	23103	C4' CYT	213	92.828	58.143	14.632	1.00 79.49	Al6S	ATOM	23156	C8 GUA	215	95.907	54.348	6.785	1.00 56.25	Al	
ATOM	23104	O4' CYT	213	92.289	56.833	14.949	1.00 79.49	Al6S	ATOM	23157	C2' GUA	215	98.711	52.905	5.234	1.00 66.37	Al	
ATOM	23105	C1' CYT	213	93.204	55.829	14.541	1.00 79.49	Al6S	ATOM	23158	O2' GUA	215	99.710	51.902	5.226	1.00 66.37	Al	
ATOM	23106	N1 CYT	213	92.556	55.001	13.520	1.00 54.81	Al6S	ATOM	23159	C3' GUA	215	99.342	54.286	5.339	1.00 66.37	Al	
ATOM	23107	C6 CYT	213	91.372	55.377	12.954	1.00 54.81	Al6S	ATOM	23160	O3' GUA	215	100.425	54.351	4.438	1.00 66.37	Al	
ATOM	23108	C2 CYT	213	93.174	53.813	13.136	1.00 54.81	Al6S	ATOM	23161	P	CYT	216	100.165	54.840	2.934	1.00 51.95	Al
ATOM	23109	O2 CYT	213	94.250	53.507	13.662	1.00 54.81	Al6S	ATOM	23162	O1P CYT	216	101.520	54.923	2.312	1.00 50.23	Al	
ATOM	23110	N3 CYT	213	92.587	53.031	12.203	1.00 54.81	Al6S	ATOM	23163	O2P CYT	216	99.288	56.039	2.989	1.00 50.23	Al	
ATOM	23111	C4 CYT	213	91.426	53.399	11.665	1.00 54.81	Al6S	ATOM	23164	O5' CYT	216	99.333	53.667	2.236	1.00 51.95	Al	
ATOM	23112	N4 CYT	213	90.875	52.594	10.764	1.00 54.81	Al6S	ATOM	23165	C5' CYT	216	99.967	52.453	1.850	1.00 51.95	Al	
ATOM	23113	C5 CYT	213	90.776	54.612	12.031	1.00 54.81	Al6S	ATOM	23166	C4' CYT	216	99.009	51.592	1.077	1.00 51.95	Al	
ATOM	23114	C2' CYT	213	94.429	56.546	13.986	1.00 79.49	Al6S	ATOM	23167	O4' CYT	216	97.801	51.457	1.858	1.00 51.95	Al	
ATOM	23115	O2' CYT	213	95.359	56.769	15.023	1.00 79.49	Al6S	ATOM	23168	C1' CYT	216	96.674	51.403	1.003	1.00 51.95	Al	
ATOM	23116	C3' CYT	213	93.807	57.846	13.512	1.00 79.49	Al6S	ATOM	23169	N1 CYT	216	95.817	52.553	1.292	1.00 50.23	Al	
ATOM	23117	O3' CYT	213	94.797	58.847	13.433	1.00 79.49	Al6S	ATOM	23170	C6 CYT	216	96.177	53.497	2.215	1.00 50.23	Al	
ATOM	23118	P	214	95.455	59.192	12.016	1.00 79.27	Al6S	ATOM	23171	C2 CYT	216	94.622	52.668	0.593	1.00 50.23	Al	
ATOM	23119	O1P CYT	214	96.239	60.415	12.276	1.00 44.67	Al6S	ATOM	23172	O2 CYT	216	94.325	51.777	-0.221	1.00 50.23	Al	
ATOM	23120	O2P CYT	214	94.411	59.196	10.958	1.00 44.67	Al6S	ATOM	23173	N3 CYT	216	93.822	53.734	0.819	1.00 50.23	Al	
ATOM	23121	O5' CYT	214	96.414	57.959	11.718	1.00 79.27	Al6S	ATOM	23174	C4 CYT	216	94.185	54.656	1.714	1.00 50.23	Al	
ATOM	23122	C5' CYT	214	97.557	57.716	12.516	1.00 79.27	Al6S	ATOM	23175	N4 CYT	216	93.378	55.701	1.894	1.00 50.23	Al	
ATOM	23123	C4' CYT	214	98.191	56.410	12.121	1.00 79.27	Al6S	ATOM	23176	C5 CYT	216	95.395	54.550	2.459	1.00 50.23	Al	
ATOM	23124	O4' CYT	214	97.277	55.321	12.421	1.00 79.27	Al6S	ATOM	23177	C2' CYT	216	97.192	51.459	-0.425	1.00 51.95	Al	
ATOM	23125	C1' CYT	214	97.476	54.266	11.489	1.00 79.27	Al6S	ATOM	23178	O2' CYT	216	97.327	50.145	-0.911	1.00 51.95	Al	
ATOM	23126	N1 CYT	214	96.233	54.061	10.729	1.00 44.67	Al6S	ATOM	23179	C3' CYT	216	98.514	52.182	-0.222	1.00 51.95	Al	

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ATOM	23180	O3' CYT	216	99.414	51.911	-1.276	1.00	51.95	Al6S	ATOM	23233	N3	CYT	219	94.373	62.319	-6.776	1.00	49.62	/
ATOM	23181	P	217	99.534	52.950	-2.487	1.00	57.57	Al6S	ATOM	23234	C4	CYT	219	95.372	61.506	-6.452	1.00	49.62	/
ATOM	23182	O1P URI	217	100.605	52.442	-3.371	1.00	48.24	Al6S	ATOM	23235	N4	CYT	219	95.918	61.650	-5.252	1.00	49.62	/
ATOM	23183	O2P URI	217	99.626	54.331	-1.929	1.00	48.24	Al6S	ATOM	23236	C5	CYT	219	95.864	60.519	-7.352	1.00	49.62	/
ATOM	23184	O5' URI	217	98.153	52.780	-3.242	1.00	57.57	Al6S	ATOM	23237	C2'	CYT	219	94.311	62.479	-11.064	1.00	52.17	/
ATOM	23185	C5' URI	217	97.882	51.588	-3.939	1.00	57.57	Al6S	ATOM	23238	O2'	CYT	219	93.310	63.010	-11.902	1.00	52.17	/
ATOM	23186	C4' URI	217	96.719	51.798	-4.855	1.00	57.57	Al6S	ATOM	23239	O3'	CYT	219	95.421	61.790	-11.839	1.00	52.17	/
ATOM	23187	O4' URI	217	95.522	51.977	-4.064	1.00	57.57	Al6S	ATOM	23240	C3'	CYT	219	95.754	62.497	-13.021	1.00	52.17	/
ATOM	23188	C1' URI	217	94.685	52.929	-4.687	1.00	57.57	Al6S	ATOM	23241	P	CYT	220	97.015	63.493	-13.008	1.00	49.54	/
ATOM	23189	N6 URI	217	94.551	54.066	-3.775	1.00	48.24	Al6S	ATOM	23242	O1P	CYT	220	97.388	63.740	-14.432	1.00	51.84	/
ATOM	23190	C1 URI	217	95.392	54.238	-2.707	1.00	48.24	Al6S	ATOM	23243	O2P	CYT	220	98.031	62.968	-12.059	1.00	51.84	/
ATOM	23191	C2 URI	217	93.528	54.930	-4.014	1.00	48.24	Al6S	ATOM	23244	O5'	CYT	220	96.427	64.829	-12.378	1.00	49.54	/
ATOM	23192	O2 URI	217	92.805	54.824	-4.979	1.00	48.24	Al6S	ATOM	23245	C5'	CYT	220	95.456	65.586	-13.081	1.00	49.54	/
ATOM	23193	N3 URI	217	93.376	55.923	-3.087	1.00	48.24	Al6S	ATOM	23246	C4'	CYT	220	94.910	66.663	-12.195	1.00	49.54	/
ATOM	23194	C4 URI	217	94.142	56.134	-1.970	1.00	48.24	Al6S	ATOM	23247	O4'	CYT	220	94.352	66.044	-11.009	1.00	49.54	/
ATOM	23195	O4 URI	217	93.789	56.984	-1.150	1.00	48.24	Al6S	ATOM	23248	C1'	CYT	220	94.421	66.954	-9.929	1.00	49.54	/
ATOM	23196	C5 URI	217	95.228	55.216	-1.816	1.00	48.24	Al6S	ATOM	23249	N1	CYT	220	95.096	66.301	-8.803	1.00	51.84	/
ATOM	23197	C2' URI	217	95.326	53.273	-6.025	1.00	57.57	Al6S	ATOM	23250	C6	CYT	220	95.825	65.156	-8.967	1.00	51.84	/
ATOM	23198	O2' URI	217	94.868	52.337	-5.978	1.00	57.57	Al6S	ATOM	23251	C2	CYT	220	94.991	66.893	-7.552	1.00	51.84	/
ATOM	23199	C3' URI	217	96.790	53.063	-5.686	1.00	57.57	Al6S	ATOM	23252	O2	CYT	220	94.284	67.899	-7.437	1.00	51.84	/
ATOM	23200	O3' URI	217	97.597	52.869	-6.832	1.00	57.57	Al6S	ATOM	23253	N3	CYT	220	95.651	66.360	-6.501	1.00	51.84	/
ATOM	23201	P	218	98.485	54.082	-7.383	1.00	62.88	Al6S	ATOM	23254	C4	CYT	220	96.389	65.266	-6.670	1.00	51.84	/
ATOM	23202	O1P URI	218	99.552	53.496	-8.243	1.00	51.22	Al6S	ATOM	23255	N4	CYT	220	97.055	64.803	-5.614	1.00	51.84	/
ATOM	23203	O2P URI	218	98.856	54.943	-6.225	1.00	51.22	Al6S	ATOM	23256	C5	CYT	220	96.484	64.606	-7.934	1.00	51.84	/
ATOM	23204	O5' URI	218	97.463	54.862	-8.315	1.00	62.88	Al6S	ATOM	23257	C2'	CYT	220	95.168	68.190	-10.434	1.00	49.54	/
ATOM	23205	C5' URI	218	96.898	54.215	-9.437	1.00	62.88	Al6S	ATOM	23258	O2'	CYT	220	94.231	69.152	-10.857	1.00	49.54	/
ATOM	23206	C4' URI	218	95.748	55.018	-9.962	1.00	62.88	Al6S	ATOM	23259	C3'	CYT	220	95.933	67.615	-11.615	1.00	49.54	/
ATOM	23207	O4' URI	218	94.671	55.004	-8.994	1.00	62.88	Al6S	ATOM	23260	O3'	CYT	220	96.294	68.613	-12.562	1.00	49.54	/
ATOM	23208	C1' URI	218	93.965	56.232	-9.052	1.00	62.88	Al6S	ATOM	23261	P	GUA	221	97.734	69.329	-12.460	1.00	64.80	/
ATOM	23209	N1 URI	218	94.126	56.898	-7.756	1.00	51.22	Al6S	ATOM	23262	O1P	GUA	221	97.767	70.295	-13.573	1.00	53.16	/
ATOM	23210	C6 URI	218	95.110	56.514	-6.890	1.00	51.22	Al6S	ATOM	23263	O2P	GUA	221	98.799	68.323	-12.351	1.00	53.16	/
ATOM	23211	C2 URI	218	93.259	57.923	-7.443	1.00	51.22	Al6S	ATOM	23264	O5'	GUA	221	97.695	70.122	-11.080	1.00	64.80	/
ATOM	23212	O2 URI	218	92.359	58.282	-8.191	1.00	51.22	Al6S	ATOM	23265	C5'	GUA	221	96.912	71.293	-10.963	1.00	64.80	/
ATOM	23213	N3 URI	218	93.483	58.513	-6.222	1.00	51.22	Al6S	ATOM	23266	C4'	GUA	221	96.890	71.787	-9.539	1.00	64.80	/
ATOM	23214	C4 URI	218	94.462	58.179	-5.311	1.00	51.22	Al6S	ATOM	23267	O4'	GUA	221	96.316	70.780	-8.663	1.00	64.80	/
ATOM	23215	O4 URI	218	94.573	58.827	-4.272	1.00	51.22	Al6S	ATOM	23268	C1'	GUA	221	96.779	71.002	-7.339	1.00	64.80	/
ATOM	23216	C5 URI	218	95.302	57.102	-5.711	1.00	51.22	Al6S	ATOM	23269	N9	GUA	221	97.472	69.811	-6.871	1.00	53.16	/
ATOM	23217	C2' URI	218	94.592	57.026	-10.196	1.00	62.88	Al6S	ATOM	23270	C4	GUA	221	97.845	69.578	-5.580	1.00	53.16	/
ATOM	23218	O2' URI	218	93.955	56.652	-11.404	1.00	62.88	Al6S	ATOM	23271	N3	GUA	221	97.576	70.377	-4.535	1.00	53.16	/
ATOM	23219	C3' URI	218	96.013	56.495	-10.153	1.00	62.88	Al6S	ATOM	23272	C2	GUA	221	98.101	69.917	-3.417	1.00	53.16	/
ATOM	23220	O3' URI	218	96.698	56.727	-11.370	1.00	62.88	Al6S	ATOM	23273	N2	GUA	221	97.918	70.594	-2.277	1.00	53.16	/
ATOM	23221	P	219	97.706	57.973	-11.496	1.00	52.17	Al6S	ATOM	23274	N1	GUA	221	98.840	68.762	-3.333	1.00	53.16	/
ATOM	23222	O1P	219	98.344	57.812	-12.823	1.00	49.62	Al6S	ATOM	23275	C6	GUA	221	99.127	67.923	-4.400	1.00	53.16	/
ATOM	23223	O2P	219	98.549	58.097	-10.289	1.00	49.62	Al6S	ATOM	23276	C5	GUA	221	99.810	66.914	-4.218	1.00	53.16	/
ATOM	23224	O5' CYT	219	96.750	58.242	-11.529	1.00	52.17	Al6S	ATOM	23277	O6	GUA	221	98.554	68.402	-5.608	1.00	53.16	/
ATOM	23225	C5' CYT	219	95.747	58.357	-12.518	1.00	52.17	Al6S	ATOM	23278	N7	GUA	221	98.585	67.878	-6.892	1.00	53.16	/
ATOM	23226	C4' CYT	219	94.790	60.453	-12.152	1.00	52.17	Al6S	ATOM	23279	C8	GUA	221	97.922	68.745	-7.607	1.00	53.16	/
ATOM	23227	O4' CYT	219	94.141	60.122	-10.902	1.00	52.17	Al6S	ATOM	23280	C2'	GUA	221	97.776	72.159	-7.411	1.00	64.80	/
ATOM	23228	C1' CYT	219	93.748	61.314	-10.254	1.00	52.17	Al6S	ATOM	23281	O2'	GUA	221	97.125	73.383	-7.129	1.00	64.80	/
ATOM	23229	N1	219	94.309	61.317	-8.914	1.00	49.62	Al6S	ATOM	23282	C3'	GUA	221	98.217	72.063	-8.862	1.00	64.80	/
ATOM	23230	C6	219	95.304	60.456	-8.561	1.00	49.62	Al6S	ATOM	23283	O3'	GUA	221	98.820	73.267	-9.297	1.00	64.80	/
ATOM	23231	C2	219	93.825	62.246	-8.005	1.00	49.62	Al6S	ATOM	23284	P	GUA	222	100.408	73.455	-9.130	1.00	65.96	/
ATOM	23232	O2	219	92.897	62.990	-8.355	1.00	49.62	Al6S	ATOM	23285	O1P	GUA	222	100.743	74.737	-9.798	1.00	50.29	/

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ATOM	23286	O2P	GUA	222	101.113	72.202	-9.541	1.00	50.29	A16S	23339	C2	URI	224	109.897	69.872	-3.067	1.00	39.68	A1
ATOM	23287	O5'	GUA	222	100.585	73.679	-7.563	1.00	65.96	A16S	23340	O2	URI	224	110.500	69.038	-2.430	1.00	39.68	A1
ATOM	23288	C5'	GUA	222	99.870	74.711	-6.903	1.00	65.96	A16S	23341	N3	URI	224	109.510	69.658	-4.360	1.00	39.68	A1
ATOM	23289	C4'	GUA	222	100.021	74.578	-5.413	1.00	65.96	A16S	23342	C4	URI	224	108.840	70.529	-5.170	1.00	39.68	A1
ATOM	23290	O4'	GUA	222	99.542	73.275	-4.992	1.00	65.96	A16S	23343	O4	URI	224	108.593	70.202	-6.332	1.00	39.68	A1
ATOM	23291	C1'	GUA	222	100.272	72.855	-3.852	1.00	65.96	A16S	23344	C5	URI	224	108.512	71.780	-4.555	1.00	39.68	A1
ATOM	23292	N9	GUA	222	100.932	71.591	-4.151	1.00	50.29	A16S	23345	C2'	URI	224	111.452	71.767	-1.121	1.00	50.92	A1
ATOM	23293	C4	GUA	222	101.588	70.803	-3.242	1.00	50.29	A16S	23346	O2'	URI	224	111.942	71.359	0.136	1.00	50.92	A1
ATOM	23294	N3	GUA	222	101.737	71.071	-1.925	1.00	50.29	A16S	23347	O3'	URI	224	111.344	73.280	-1.232	1.00	50.92	A1
ATOM	23295	C2	GUA	222	102.411	70.116	-1.301	1.00	50.29	A16S	23348	O3'	URI	224	112.499	73.965	-0.775	1.00	50.92	A1
ATOM	23296	N2	GUA	222	102.649	70.213	0.015	1.00	50.29	A16S	23349	P	GUA	225	113.655	74.357	-1.820	1.00	43.33	A1
ATOM	23297	N1	GUA	222	102.898	68.990	-1.924	1.00	50.29	A16S	23350	O1P	GUA	225	114.711	75.022	-1.018	1.00	38.17	A1
ATOM	23298	C6	GUA	222	102.745	68.694	-3.274	1.00	50.29	A16S	23351	O2P	GUA	225	113.075	75.045	-2.994	1.00	38.17	A1
ATOM	23299	O6	GUA	222	103.200	67.644	-3.724	1.00	50.29	A16S	23352	O5'	GUA	225	114.189	72.951	-2.338	1.00	43.33	A1
ATOM	23300	C5	GUA	222	102.033	69.713	-3.957	1.00	50.29	A16S	23353	C5'	GUA	225	114.907	72.090	-1.468	1.00	43.33	A1
ATOM	23301	N7	GUA	222	101.677	69.821	-5.294	1.00	50.29	A16S	23354	C4'	GUA	225	115.134	70.763	-2.130	1.00	43.33	A1
ATOM	23302	C8	GUA	222	101.024	70.949	-5.362	1.00	50.29	A16S	23355	O4'	GUA	225	113.846	70.207	-2.500	1.00	43.33	A1
ATOM	23303	C2'	GUA	222	101.285	73.950	-3.531	1.00	65.96	A16S	23356	C1'	GUA	225	114.001	69.400	-3.662	1.00	43.33	A1
ATOM	23304	O2'	GUA	222	100.735	74.808	-2.555	1.00	65.96	A16S	23357	N9	GUA	225	113.141	69.914	-4.721	1.00	38.17	A1
ATOM	23305	C3'	GUA	222	101.445	74.609	-4.893	1.00	65.96	A16S	23358	C4	GUA	225	112.901	69.296	-5.909	1.00	38.17	A1
ATOM	23306	O3'	GUA	222	101.902	75.945	-4.772	1.00	65.96	A16S	23359	N3	GUA	225	113.394	68.107	-6.282	1.00	38.17	A1
ATOM	23307	P	ADE	223	103.441	76.291	-5.069	1.00	53.84	A16S	23360	C2	GUA	225	112.972	67.755	-7.482	1.00	38.17	A1
ATOM	23308	O1P	ADE	223	103.577	77.772	-4.984	1.00	51.85	A16S	23361	N2	GUA	225	113.325	66.571	-7.999	1.00	38.17	A1
ATOM	23309	O2P	ADE	223	103.856	75.583	-6.304	1.00	51.85	A16S	23362	N1	GUA	225	112.161	68.533	-8.266	1.00	38.17	A1
ATOM	23310	O5'	ADE	223	104.223	75.647	-3.845	1.00	53.84	A16S	23363	C6	GUA	225	111.659	69.773	-7.909	1.00	38.17	A1
ATOM	23311	C5'	ADE	223	103.980	76.103	-2.528	1.00	53.84	A16S	23364	O6	GUA	225	110.956	70.142	-8.711	1.00	38.17	A1
ATOM	23312	C4'	ADE	223	104.596	75.163	-1.533	1.00	53.84	A16S	23365	C5	GUA	225	112.070	70.142	-6.605	1.00	38.17	A1
ATOM	23313	O4'	ADE	223	103.942	73.868	-1.595	1.00	53.84	A16S	23366	N7	GUA	225	111.773	71.266	-5.852	1.00	38.17	A1
ATOM	23314	C1'	ADE	223	104.885	72.843	-1.336	1.00	53.84	A16S	23367	C8	GUA	225	112.436	71.090	-4.741	1.00	38.17	A1
ATOM	23315	N9	ADE	223	104.991	72.026	-2.629	1.00	51.85	A16S	23368	C2'	GUA	225	115.470	69.482	-4.069	1.00	43.33	A1
ATOM	23316	C4	ADE	223	105.543	70.774	-2.629	1.00	51.85	A16S	23369	O2'	GUA	225	116.195	68.423	-3.488	1.00	43.33	A1
ATOM	23317	N3	ADE	223	106.063	70.041	-1.634	1.00	51.85	A16S	23370	C3'	GUA	225	115.853	70.816	-3.463	1.00	43.33	A1
ATOM	23318	C2	ADE	223	106.534	68.896	-2.099	1.00	51.85	A16S	23371	O3'	GUA	225	117.257	70.935	-3.336	1.00	43.33	A1
ATOM	23319	N1	ADE	223	106.550	68.435	-3.349	1.00	51.85	A16S	23372	P	GUA	226	118.081	71.706	-4.481	1.00	51.97	A1
ATOM	23320	C6	ADE	223	106.022	69.201	-4.327	1.00	51.85	A16S	23373	O1P	GUA	226	119.507	71.555	-4.095	1.00	38.48	A1
ATOM	23321	N6	ADE	223	106.054	68.753	-5.587	1.00	51.85	A16S	23374	O2P	GUA	226	117.508	73.079	-4.670	1.00	38.48	A1
ATOM	23322	C5	ADE	223	105.479	70.431	-3.963	1.00	51.85	A16S	23375	O5'	GUA	226	117.807	70.839	-5.801	1.00	51.97	A1
ATOM	23323	N7	ADE	223	104.869	71.433	-4.701	1.00	51.85	A16S	23376	C5'	GUA	226	118.402	69.556	-5.920	1.00	51.97	A1
ATOM	23324	C8	ADE	223	104.594	72.353	-3.808	1.00	51.85	A16S	23377	C4'	GUA	226	117.927	68.805	-7.147	1.00	51.97	A1
ATOM	23325	C2'	ADE	223	106.209	73.538	-1.014	1.00	53.84	A16S	23378	O4'	GUA	226	116.484	68.812	-7.238	1.00	51.97	A1
ATOM	23326	O2'	ADE	223	106.323	73.713	0.385	1.00	53.84	A16S	23379	C1'	GUA	226	116.115	68.394	-8.543	1.00	51.97	A1
ATOM	23327	C3'	ADE	223	106.047	74.842	-1.784	1.00	53.84	A16S	23380	N9	GUA	226	115.206	69.365	-9.132	1.00	38.48	A1
ATOM	23328	O3'	ADE	223	106.863	75.895	-1.310	1.00	53.84	A16S	23381	C4	GUA	226	114.617	69.236	-10.355	1.00	38.48	A1
ATOM	23329	P	URI	224	108.186	76.292	-2.127	1.00	50.92	A16S	23382	N3	GUA	226	114.735	68.179	-11.172	1.00	38.48	A1
ATOM	23330	O1P	URI	224	108.750	77.537	-1.529	1.00	39.68	A16S	23383	C2	GUA	226	114.072	68.346	-12.294	1.00	38.48	A1
ATOM	23331	O2P	URI	224	107.865	76.236	-3.583	1.00	39.68	A16S	23384	N2	GUA	226	114.047	67.370	-13.201	1.00	38.48	A1
ATOM	23332	C5'	URI	224	109.192	75.118	-1.777	1.00	50.92	A16S	23385	N1	GUA	226	113.376	69.476	-12.606	1.00	38.48	A1
ATOM	23333	O5'	URI	224	109.528	74.871	-0.432	1.00	50.92	A16S	23386	C6	GUA	226	113.245	70.584	-11.783	1.00	38.48	A1
ATOM	23334	C4'	URI	224	110.179	73.532	-0.305	1.00	50.92	A16S	23387	O6	GUA	226	112.607	71.563	-12.174	1.00	38.48	A1
ATOM	23335	O4'	URI	224	109.250	72.489	-0.688	1.00	50.92	A16S	23388	C5	GUA	226	113.922	70.403	-10.554	1.00	38.48	A1
ATOM	23336	C1'	URI	224	109.980	71.376	-1.174	1.00	50.92	A16S	23389	N7	GUA	226	114.036	71.239	-9.451	1.00	38.48	A1
ATOM	23337	N1	URI	224	109.559	71.097	-2.549	1.00	39.68	A16S	23390	C8	GUA	226	114.804	70.579	-8.629	1.00	38.48	A1
ATOM	23338	C6	URI	224	108.872	72.012	-3.292	1.00	39.68	A16S	23391	C2'	GUA	226	117.401	68.350	-9.365	1.00	51.97	A1

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ATOM	23392	O2' GUA	226	117.885	67.027	-9.403	1.00	51.97	Al6S	ATOM	23445	Cl' CYT	229	119.210	74.353	-21.994	1.00	47.40	A
ATOM	23393	C3' GUA	226	118.311	69.251	-8.544	1.00	51.97	Al6S	ATOM	23446	N1 CYT	229	119.375	74.756	-20.603	1.00	38.81	A
ATOM	23394	O3' GUA	226	119.668	68.971	-8.881	1.00	51.97	Al6S	ATOM	23447	C6 CYT	229	119.954	73.925	-19.691	1.00	38.81	A
ATOM	23395	P GUA	227	120.316	69.638	-10.206	1.00	44.33	Al6S	ATOM	23448	C2 CYT	229	118.935	76.005	-20.233	1.00	38.81	A
ATOM	23396	O1P GUA	227	121.777	69.332	-10.171	1.00	40.76	Al6S	ATOM	23449	O2 CYT	229	118.430	76.725	-21.098	1.00	38.81	A
ATOM	23397	O2P GUA	227	119.863	71.057	-10.307	1.00	40.76	Al6S	ATOM	23450	N3 CYT	229	119.068	76.408	-18.957	1.00	38.81	A
ATOM	23398	O5' GUA	227	119.694	68.803	-11.416	1.00	44.33	Al6S	ATOM	23451	C4 CYT	229	119.626	75.595	-18.066	1.00	38.81	A
ATOM	23399	C5' GUA	227	120.029	67.433	-11.569	1.00	44.33	Al6S	ATOM	23452	N4 CYT	229	119.724	76.020	-16.811	1.00	38.81	A
ATOM	23400	C4' GUA	227	119.516	66.904	-12.875	1.00	44.33	Al6S	ATOM	23453	C5 CYT	229	120.103	74.302	-18.421	1.00	38.81	A
ATOM	23401	O4' GUA	227	118.074	67.005	-12.899	1.00	44.33	Al6S	ATOM	23454	C2' CYT	229	120.272	74.998	-22.877	1.00	47.40	A
ATOM	23402	Cl' GUA	227	117.642	67.322	-14.206	1.00	44.33	Al6S	ATOM	23455	O3' CYT	229	119.771	75.176	-24.183	1.00	47.40	A
ATOM	23403	N9 GUA	227	117.002	68.627	-14.149	1.00	40.76	Al6S	ATOM	23456	C3' CYT	229	121.358	73.942	-22.825	1.00	47.40	A
ATOM	23404	C4 GUA	227	116.172	69.167	-15.090	1.00	40.76	Al6S	ATOM	23457	O3' CYT	229	122.259	74.048	-23.907	1.00	47.40	A
ATOM	23405	N3 GUA	227	115.810	68.587	-16.247	1.00	40.76	Al6S	ATOM	23458	P CYT	230	123.534	74.992	-23.758	1.00	43.52	A
ATOM	23406	C2 GUA	227	114.999	69.355	-16.948	1.00	40.76	Al6S	ATOM	23459	O1P CYT	230	124.369	74.760	-24.955	1.00	35.49	A
ATOM	23407	N2 GUA	227	114.564	70.577	-16.533	1.00	40.76	Al6S	ATOM	23460	O2P CYT	230	124.111	74.782	-22.408	1.00	35.49	A
ATOM	23408	N1 GUA	227	114.918	71.190	-15.348	1.00	40.76	Al6S	ATOM	23461	O5' CYT	230	122.921	76.460	-23.811	1.00	43.52	A
ATOM	23409	C6 GUA	227	114.456	72.305	-15.076	1.00	40.76	Al6S	ATOM	23462	C5' CYT	230	122.300	76.950	-24.997	1.00	43.52	A
ATOM	23410	O6 GUA	227	115.802	70.389	-14.594	1.00	40.76	Al6S	ATOM	23463	O4' CYT	230	121.652	78.285	-24.725	1.00	43.52	A
ATOM	23411	C5 GUA	227	116.398	70.619	-13.364	1.00	40.76	Al6S	ATOM	23464	C4' CYT	230	120.741	78.118	-23.610	1.00	43.52	A
ATOM	23412	N7 GUA	227	117.101	69.546	-13.141	1.00	40.76	Al6S	ATOM	23465	C1' CYT	230	120.696	79.308	-22.846	1.00	43.52	A
ATOM	23413	C8 GUA	227	118.877	67.303	-15.101	1.00	44.33	Al6S	ATOM	23466	N1 CYT	230	121.136	79.012	-21.485	1.00	35.49	A
ATOM	23414	O2' GUA	227	119.062	66.007	-15.624	1.00	44.33	Al6S	ATOM	23467	C6 CYT	230	121.650	77.792	-21.144	1.00	35.49	A
ATOM	23415	C2' GUA	227	119.961	67.667	-14.102	1.00	44.33	Al6S	ATOM	23468	C2 CYT	230	121.020	80.014	-20.538	1.00	35.49	A
ATOM	23416	C3' GUA	227	121.240	67.236	-14.532	1.00	44.33	Al6S	ATOM	23469	O2 CYT	230	120.574	81.109	-20.893	1.00	35.49	A
ATOM	23417	O3' GUA	227	122.224	68.290	-15.225	1.00	41.61	Al6S	ATOM	23470	N3 CYT	230	121.404	79.775	-19.267	1.00	35.49	A
ATOM	23418	P CYT	228	123.477	67.614	-15.641	1.00	41.61	Al6S	ATOM	23471	C4 CYT	230	121.906	78.589	-18.936	1.00	35.49	A
ATOM	23419	O1P CYT	228	122.291	69.453	-14.316	1.00	41.28	Al6S	ATOM	23472	N4 CYT	230	122.285	77.409	-17.676	1.00	35.49	A
ATOM	23420	O2P CYT	228	121.442	68.696	-16.545	1.00	41.61	Al6S	ATOM	23473	C5 CYT	230	122.047	77.541	-19.886	1.00	35.49	A
ATOM	23421	O5' CYT	228	121.217	67.730	-17.560	1.00	41.61	Al6S	ATOM	23474	C2' CYT	230	121.634	80.310	-23.505	1.00	43.52	A
ATOM	23422	C5' CYT	228	120.277	68.285	-18.590	1.00	41.61	Al6S	ATOM	23475	O2' CYT	230	120.884	81.188	-24.324	1.00	43.52	A
ATOM	23423	C4' CYT	228	119.005	68.582	-17.964	1.00	41.61	Al6S	ATOM	23476	C3' CYT	230	122.582	79.378	-24.242	1.00	43.52	A
ATOM	23424	O4' CYT	228	118.407	69.683	-18.617	1.00	41.61	Al6S	ATOM	23477	O3' CYT	230	123.213	80.036	-25.315	1.00	43.52	A
ATOM	23425	Cl' CYT	228	118.233	70.765	-17.645	1.00	41.28	Al6S	ATOM	23478	P GUA	231	124.638	80.733	-25.074	1.00	43.15	A
ATOM	23426	N1 CYT	228	118.831	70.725	-16.418	1.00	41.28	Al6S	ATOM	23479	O1P GUA	231	125.319	80.808	-26.405	1.00	37.98	A
ATOM	23427	C6 CYT	228	117.441	71.850	-18.009	1.00	41.28	Al6S	ATOM	23480	O2P GUA	231	125.306	80.032	-23.957	1.00	37.98	A
ATOM	23428	C2 CYT	228	116.921	71.852	-19.128	1.00	41.28	Al6S	ATOM	23481	O5' GUA	231	124.256	82.184	-24.531	1.00	43.15	A
ATOM	23429	O2 CYT	228	117.269	72.864	-17.147	1.00	41.28	Al6S	ATOM	23482	C5' GUA	231	123.681	83.160	-25.383	1.00	43.15	A
ATOM	23430	N3 CYT	228	117.867	72.832	-15.964	1.00	41.28	Al6S	ATOM	23483	C4' GUA	231	123.627	84.482	-24.671	1.00	43.15	A
ATOM	23431	C4 CYT	228	117.695	73.879	-15.161	1.00	41.28	Al6S	ATOM	23484	O4' GUA	231	122.749	85.159	-22.450	1.00	43.15	A
ATOM	23432	N4 CYT	228	118.676	71.730	-15.554	1.00	41.28	Al6S	ATOM	23485	C1' GUA	231	123.249	84.370	-23.521	1.00	43.15	A
ATOM	23433	C5 CYT	228	119.365	70.103	-19.725	1.00	41.61	Al6S	ATOM	23486	N9 GUA	231	123.504	84.267	-21.322	1.00	37.98	A
ATOM	23434	O2' CYT	228	119.063	69.403	-20.909	1.00	41.61	Al6S	ATOM	23487	C4 GUA	231	123.610	84.592	-19.984	1.00	37.98	A
ATOM	23435	C2' CYT	228	120.678	69.627	-19.150	1.00	41.61	Al6S	ATOM	23488	N3 GUA	231	123.512	85.822	-19.451	1.00	37.98	A
ATOM	23436	C3' CYT	228	121.640	69.483	-20.167	1.00	41.61	Al6S	ATOM	23489	C2 GUA	231	123.685	85.807	-18.138	1.00	37.98	A
ATOM	23437	O3' CYT	228	122.739	70.629	-20.370	1.00	47.40	Al6S	ATOM	23490	N2 GUA	231	123.635	86.939	-17.439	1.00	37.98	A
ATOM	23438	P CYT	229	123.774	70.056	-21.265	1.00	38.81	Al6S	ATOM	23491	N1 GUA	231	123.921	84.683	-17.409	1.00	37.98	A
ATOM	23439	O1P CYT	229	123.122	71.138	-19.033	1.00	38.81	Al6S	ATOM	23492	C6 GUA	231	124.010	83.403	-17.925	1.00	37.98	A
ATOM	23440	O2P CYT	229	121.940	71.763	-21.147	1.00	47.40	Al6S	ATOM	23493	O6 GUA	231	124.205	82.433	-17.153	1.00	37.98	A
ATOM	23441	O5' CYT	229	121.271	71.451	-22.365	1.00	47.40	Al6S	ATOM	23494	C5 GUA	231	123.844	83.401	-19.337	1.00	37.98	A
ATOM	23442	C5' CYT	229	120.552	72.664	-22.890	1.00	47.40	Al6S	ATOM	23495	N7 GUA	231	123.887	82.352	-20.239	1.00	37.98	A
ATOM	23443	C4' CYT	229	119.395	72.952	-22.069	1.00	47.40	Al6S	ATOM	23496	C8 GUA	231	123.681	82.911	-21.399	1.00	37.98	A
ATOM	23444	O4' CYT	229							ATOM	23497	C2' GUA	231	124.485	85.879	-22.991	1.00	43.15	A

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ATOM	23498	O2' GUA	231	124.081	87.084	-23.595	1.00	43.15	A16S	ATOM	23551	C1' URI	234	135.731	83.246	-14.829	1.00	51.44	A1
ATOM	23499	O3' GUA	231	124.946	84.911	-24.063	1.00	43.15	A16S	ATOM	23552	N1 URI	234	134.892	82.628	-15.861	1.00	55.85	A1
ATOM	23500	O3' GUA	231	125.780	85.535	-25.034	1.00	43.15	A16S	ATOM	23553	C6 URI	234	134.652	83.236	-17.060	1.00	55.85	A1
ATOM	23501	P	232	127.376	85.355	-24.936	1.00	39.60	A16S	ATOM	23554	C2 URI	234	134.373	81.400	-15.578	1.00	55.85	A1
ATOM	23502	O1P CYT	232	128.021	86.006	-26.109	1.00	34.76	A16S	ATOM	23555	O2 URI	234	134.555	80.848	-14.506	1.00	55.85	A1
ATOM	23503	O2P CYT	232	127.645	83.929	-24.674	1.00	34.76	A16S	ATOM	23556	N3 URI	234	133.633	80.837	-16.583	1.00	55.85	A1
ATOM	23504	O5' CYT	232	127.750	86.178	-23.627	1.00	39.60	A16S	ATOM	23557	C4 URI	234	133.369	81.379	-17.810	1.00	55.85	A1
ATOM	23505	C5' CYT	232	127.522	87.578	-23.570	1.00	39.60	A16S	ATOM	23558	O4 URI	234	132.681	80.753	-18.609	1.00	55.85	A1
ATOM	23506	C4' CYT	232	127.702	88.080	-22.163	1.00	39.60	A16S	ATOM	23559	C5 URI	234	133.929	82.665	-18.021	1.00	55.85	A1
ATOM	23507	O4' CYT	232	126.673	87.527	-21.304	1.00	39.60	A16S	ATOM	23560	C2' URI	234	137.225	82.996	-15.049	1.00	51.44	A1
ATOM	23508	C1' CYT	232	127.185	87.388	-19.989	1.00	39.60	A16S	ATOM	23561	O2' URI	234	137.872	82.841	-13.806	1.00	51.44	A1
ATOM	23509	N1 CYT	232	127.151	85.971	-19.633	1.00	34.76	A16S	ATOM	23562	C3' URI	234	137.660	84.284	-15.729	1.00	51.44	A1
ATOM	23510	C6 CYT	232	127.096	85.003	-20.593	1.00	34.76	A16S	ATOM	23563	O3' URI	234	139.037	84.533	-15.480	1.00	51.44	A1
ATOM	23511	C2 CYT	232	127.196	85.629	-18.296	1.00	34.76	A16S	ATOM	23564	P	235	140.039	84.743	-16.716	1.00	49.39	A1
ATOM	23512	O2 CYT	232	127.247	86.538	-17.459	1.00	34.76	A16S	ATOM	23565	O1P CYT	235	139.945	86.189	-17.045	1.00	41.04	A1
ATOM	23513	N3 CYT	232	127.192	84.321	-17.946	1.00	34.76	A16S	ATOM	23566	O2P CYT	235	139.751	83.723	-17.763	1.00	41.04	A1
ATOM	23514	C4 CYT	232	127.152	83.382	-18.890	1.00	34.76	A16S	ATOM	23567	O5' CYT	235	141.489	84.439	-16.130	1.00	49.39	A1
ATOM	23515	N4 CYT	232	127.165	82.116	-18.512	1.00	34.76	A16S	ATOM	23568	C5' CYT	235	142.045	85.264	-15.127	1.00	49.39	A1
ATOM	23516	C5 CYT	232	127.099	83.706	-20.266	1.00	34.76	A16S	ATOM	23569	C4' CYT	235	143.372	84.718	-14.679	1.00	49.39	A1
ATOM	23517	C2' CYT	232	128.631	87.881	-20.022	1.00	39.60	A16S	ATOM	23570	O4' CYT	235	143.196	83.378	-14.165	1.00	49.39	A1
ATOM	23518	O2' CYT	232	128.710	89.249	-19.695	1.00	39.60	A16S	ATOM	23571	C1' CYT	235	144.357	82.612	-14.435	1.00	49.39	A1
ATOM	23519	C3' CYT	232	128.975	87.641	-21.476	1.00	39.60	A16S	ATOM	23572	N1 CYT	235	143.989	81.482	-15.303	1.00	41.04	A1
ATOM	23520	O3' CYT	232	130.063	88.434	-21.855	1.00	39.60	A16S	ATOM	23573	C6 CYT	235	142.845	81.496	-16.047	1.00	41.04	A1
ATOM	23521	P	233	131.524	87.804	-21.832	1.00	41.45	A16S	ATOM	23574	C2 CYT	235	144.837	80.401	-15.353	1.00	41.04	A1
ATOM	23522	O1P GUA	233	132.407	88.891	-22.533	1.00	36.07	A16S	ATOM	23575	O2 CYT	235	145.882	80.440	-14.681	1.00	41.04	A1
ATOM	23523	O2P GUA	233	131.502	86.491	-22.533	1.00	36.07	A16S	ATOM	23576	N3 CYT	235	144.524	79.348	-16.129	1.00	41.04	A1
ATOM	23524	O5' GUA	233	131.818	87.612	-20.283	1.00	41.45	A16S	ATOM	23577	C4 CYT	235	143.419	79.371	-16.859	1.00	41.04	A1
ATOM	23525	C5' GUA	233	132.001	88.751	-19.464	1.00	41.45	A16S	ATOM	23578	N4 CYT	235	143.161	78.320	-17.630	1.00	41.04	A1
ATOM	23526	O4' GUA	233	132.233	88.344	-18.038	1.00	41.45	A16S	ATOM	23579	C5 CYT	235	142.529	80.471	-16.836	1.00	41.04	A1
ATOM	23527	C4' GUA	233	131.076	87.627	-17.541	1.00	41.45	A16S	ATOM	23580	C2' CYT	235	145.351	83.547	-15.116	1.00	49.39	A1
ATOM	23528	C1' GUA	233	131.494	86.664	-16.585	1.00	41.45	A16S	ATOM	23581	O2' CYT	235	146.145	84.185	-14.144	1.00	49.39	A1
ATOM	23529	N9 GUA	233	131.063	85.350	-17.047	1.00	36.07	A16S	ATOM	23582	C3' CYT	235	144.405	84.534	-15.767	1.00	49.39	A1
ATOM	23530	C4 GUA	233	130.963	84.208	-16.293	1.00	36.07	A16S	ATOM	23583	O3' CYT	235	145.071	85.748	-16.031	1.00	49.39	A1
ATOM	23531	N3 GUA	233	131.244	84.097	-14.979	1.00	36.07	A16S	ATOM	23584	P	236	145.803	85.947	-17.436	1.00	48.57	A1
ATOM	23532	C2 GUA	233	131.063	82.863	-14.539	1.00	36.07	A16S	ATOM	23585	O1P CYT	236	146.353	87.320	-17.401	1.00	41.28	A1
ATOM	23533	N2 GUA	233	131.288	82.568	-13.258	1.00	36.07	A16S	ATOM	23586	O2P CYT	236	144.868	85.549	-18.513	1.00	41.28	A1
ATOM	23534	N1 GUA	233	130.648	81.824	-15.323	1.00	36.07	A16S	ATOM	23587	O5' CYT	236	147.002	84.903	-17.391	1.00	48.57	A1
ATOM	23535	C6 GUA	233	130.362	81.910	-16.678	1.00	36.07	A16S	ATOM	23588	C5' CYT	236	148.091	85.108	-16.501	1.00	48.57	A1
ATOM	23536	O6 GUA	233	130.020	80.895	-17.302	1.00	36.07	A16S	ATOM	23589	C4' CYT	236	149.216	84.166	-16.827	1.00	48.57	A1
ATOM	23537	C5 GUA	233	130.536	83.230	-17.164	1.00	36.07	A16S	ATOM	23590	O4' CYT	236	148.869	82.815	-16.432	1.00	48.57	A1
ATOM	23538	N7 GUA	233	130.363	83.747	-18.440	1.00	36.07	A16S	ATOM	23591	C1' CYT	236	149.380	81.899	-17.381	1.00	48.57	A1
ATOM	23539	C8 GUA	233	130.685	85.007	-18.320	1.00	36.07	A16S	ATOM	23592	N1 CYT	236	148.238	81.242	-18.027	1.00	41.28	A1
ATOM	23540	C2' GUA	233	133.012	86.810	-16.443	1.00	41.45	A16S	ATOM	23593	C6 CYT	236	147.012	81.839	-18.042	1.00	41.28	A1
ATOM	23541	O2' GUA	233	133.276	87.739	-15.411	1.00	41.45	A16S	ATOM	23594	C2 CYT	236	148.425	80.003	-18.638	1.00	41.28	A1
ATOM	23542	C3' GUA	233	133.383	87.389	-17.802	1.00	41.45	A16S	ATOM	23595	O2 CYT	236	149.543	79.473	-18.584	1.00	41.28	A1
ATOM	23543	O3' GUA	233	134.602	88.112	-17.756	1.00	41.45	A16S	ATOM	23596	N3 CYT	236	147.385	79.408	-19.265	1.00	41.28	A1
ATOM	23544	P	234	135.965	87.399	-18.206	1.00	51.44	A16S	ATOM	23597	C4 CYT	236	146.197	79.999	-19.280	1.00	41.28	A1
ATOM	23545	O1P URI	234	137.065	88.380	-18.001	1.00	55.85	A16S	ATOM	23598	N4 CYT	236	145.204	79.382	-19.899	1.00	41.28	A1
ATOM	23546	O2P URI	234	135.801	86.752	-19.533	1.00	55.85	A16S	ATOM	23599	C5 CYT	236	145.973	81.258	-18.653	1.00	41.28	A1
ATOM	23547	O5' URI	234	136.148	86.256	-17.124	1.00	51.44	A16S	ATOM	23600	C2' CYT	236	150.230	82.708	-18.363	1.00	48.57	A1
ATOM	23548	C5' URI	234	136.575	86.576	-15.814	1.00	51.44	A16S	ATOM	23601	O2' CYT	236	151.559	82.759	-17.884	1.00	48.57	A1
ATOM	23549	C4' URI	234	136.794	85.314	-15.032	1.00	51.44	A16S	ATOM	23602	C3' CYT	236	149.545	84.064	-18.300	1.00	48.57	A1
ATOM	23550	O4' URI	234	135.523	84.642	-14.855	1.00	51.44	A16S	ATOM	23603	O3' CYT	236	150.407	85.133	-18.654	1.00	48.57	A1

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ATOM	23604	P	CYT	237	150.688	85.459	-20.201	1.00	44.94	Al6S	ATOM	23657	O2	URI	239	151.604	78.921	-27.204	1.00	55.33
ATOM	23605	O1P	CYT	237	151.681	86.572	-20.241	1.00	48.03	Al6S	ATOM	23658	N3	URI	239	162.697	80.794	-27.837	1.00	55.33
ATOM	23606	O2P	CYT	237	149.398	85.595	-20.929	1.00	48.03	Al6S	ATOM	23659	C4	URI	239	162.777	82.086	-28.289	1.00	55.33
ATOM	23607	O5	CYT	237	151.392	84.140	-20.734	1.00	44.94	Al6S	ATOM	23660	O4	URI	239	163.879	82.634	-28.352	1.00	55.33
ATOM	23608	C5	CYT	237	152.769	83.918	-20.523	1.00	44.94	Al6S	ATOM	23661	C5	URI	239	161.520	82.687	-28.597	1.00	55.33
ATOM	23609	C4	CYT	237	153.221	82.788	-21.388	1.00	44.94	Al6S	ATOM	23662	C2	URI	239	158.635	79.646	-26.432	1.00	55.37
ATOM	23610	O4	CYT	237	152.573	81.572	-20.944	1.00	44.94	Al6S	ATOM	23663	O2	URI	239	158.942	78.316	-26.056	1.00	55.37
ATOM	23611	C1	CYT	237	152.337	80.728	-22.056	1.00	44.94	Al6S	ATOM	23664	C3	URI	239	157.128	79.885	-26.543	1.00	55.37
ATOM	23612	N1	CYT	237	150.902	80.441	-22.118	1.00	48.03	Al6S	ATOM	23665	O3	URI	239	156.527	78.672	-26.087	1.00	55.37
ATOM	23613	C6	CYT	237	149.987	81.305	-21.587	1.00	48.03	Al6S	ATOM	23666	P	CYT	240	154.956	78.400	-26.276	1.00	43.84
ATOM	23614	C2	CYT	237	150.487	79.284	-22.760	1.00	48.03	Al6S	ATOM	23667	O1P	CYT	240	154.232	79.632	-25.877	1.00	55.81
ATOM	23615	O2	CYT	237	151.346	78.489	-23.156	1.00	48.03	Al6S	ATOM	23668	O2P	CYT	240	154.647	77.107	-25.595	1.00	55.81
ATOM	23616	N3	CYT	237	149.165	79.053	-22.923	1.00	48.03	Al6S	ATOM	23669	O5	CYT	240	154.755	78.170	-27.840	1.00	43.84
ATOM	23617	C4	CYT	237	148.277	79.923	-22.444	1.00	48.03	Al6S	ATOM	23670	C5	CYT	240	154.973	76.893	-28.423	1.00	43.84
ATOM	23618	N4	CYT	237	146.986	79.683	-22.661	1.00	48.03	Al6S	ATOM	23671	C4	CYT	240	153.668	76.288	-28.896	1.00	43.84
ATOM	23619	C5	CYT	237	148.676	81.088	-21.727	1.00	48.03	Al6S	ATOM	23672	O4	CYT	240	152.718	76.273	-27.798	1.00	43.84
ATOM	23620	C2	CYT	237	152.829	81.467	-23.305	1.00	44.94	Al6S	ATOM	23673	C1	CYT	240	151.400	76.287	-28.322	1.00	43.84
ATOM	23621	O2	CYT	237	154.134	81.043	-23.651	1.00	44.94	Al6S	ATOM	23674	N1	CYT	240	150.639	77.383	-27.711	1.00	55.81
ATOM	23622	C3	CYT	237	152.797	82.916	-22.836	1.00	44.94	Al6S	ATOM	23675	C6	CYT	240	151.257	78.355	-26.977	1.00	55.81
ATOM	23623	O3	CYT	237	153.736	83.708	-23.535	1.00	44.94	Al6S	ATOM	23676	C2	CYT	240	149.252	77.412	-27.900	1.00	55.81
ATOM	23624	P	ADE	238	153.284	84.518	-24.841	1.00	46.23	Al6S	ATOM	23677	O2	CYT	240	148.720	76.510	-28.561	1.00	55.81
ATOM	23625	O1P	ADE	238	154.522	85.066	-25.466	1.00	53.23	Al6S	ATOM	23678	N3	CYT	240	148.529	78.412	-27.359	1.00	55.81
ATOM	23626	O2P	ADE	238	152.186	85.436	-24.472	1.00	53.23	Al6S	ATOM	23679	C4	CYT	240	149.135	79.355	-26.645	1.00	55.81
ATOM	23627	O5	ADE	238	152.729	83.389	-25.802	1.00	46.23	Al6S	ATOM	23680	N4	CYT	240	148.381	80.320	-26.130	1.00	55.81
ATOM	23628	C5	ADE	238	153.611	82.431	-26.345	1.00	46.23	Al6S	ATOM	23681	C5	CYT	240	150.549	79.349	-26.427	1.00	55.81
ATOM	23629	C4	ADE	238	153.295	82.222	-27.794	1.00	46.23	Al6S	ATOM	23682	C2	CYT	240	151.507	76.428	-29.837	1.00	43.84
ATOM	23630	O4	ADE	238	151.975	81.678	-27.910	1.00	46.23	Al6S	ATOM	23683	O2	CYT	240	151.399	75.139	-30.395	1.00	43.84
ATOM	23631	C1	ADE	238	151.429	82.060	-29.137	1.00	46.23	Al6S	ATOM	23684	C3	CYT	240	152.908	77.004	-29.997	1.00	43.84
ATOM	23632	N9	ADE	238	149.977	82.022	-29.031	1.00	53.23	Al6S	ATOM	23685	O3	CYT	240	153.411	76.644	-31.272	1.00	43.84
ATOM	23633	C4	ADE	238	149.247	81.001	-29.570	1.00	53.23	Al6S	ATOM	23686	P	ADE	241	153.156	77.610	-32.526	1.00	46.88
ATOM	23634	N3	ADE	238	149.724	79.947	-30.247	1.00	53.23	Al6S	ATOM	23687	O1P	ADE	241	153.980	77.144	-33.673	1.00	39.78
ATOM	23635	C2	ADE	238	148.739	79.157	-30.625	1.00	53.23	Al6S	ATOM	23688	O2P	ADE	241	153.264	79.016	-32.061	1.00	39.78
ATOM	23636	N1	ADE	238	147.430	79.292	-30.423	1.00	53.23	Al6S	ATOM	23689	O5	ADE	241	151.629	77.388	-32.875	1.00	46.88
ATOM	23637	C6	ADE	238	146.989	80.364	-29.741	1.00	53.23	Al6S	ATOM	23690	C5	ADE	241	151.173	76.179	-33.439	1.00	46.88
ATOM	23638	N6	ADE	238	145.685	80.495	-29.554	1.00	53.23	Al6S	ATOM	23691	C4	ADE	241	150.126	76.483	-34.469	1.00	46.88
ATOM	23639	C5	ADE	238	147.936	81.274	-29.276	1.00	53.23	Al6S	ATOM	23692	O4	ADE	241	149.127	77.323	-33.895	1.00	46.88
ATOM	23640	N7	ADE	238	147.832	82.451	-28.552	1.00	53.23	Al6S	ATOM	23693	C1	ADE	241	148.540	78.065	-34.916	1.00	46.88
ATOM	23641	C8	ADE	238	149.073	82.856	-28.435	1.00	53.23	Al6S	ATOM	23694	N9	ADE	241	147.844	79.200	-34.321	1.00	39.78
ATOM	23642	C2	ADE	238	152.162	83.295	-29.664	1.00	46.23	Al6S	ATOM	23695	C4	ADE	241	146.477	79.310	-34.309	1.00	39.78
ATOM	23643	O2	ADE	238	152.518	83.040	-30.999	1.00	46.23	Al6S	ATOM	23696	N3	ADE	241	145.594	78.468	-34.870	1.00	39.78
ATOM	23644	C3	ADE	238	153.279	83.487	-28.616	1.00	46.23	Al6S	ATOM	23697	C2	ADE	241	144.353	78.872	-34.643	1.00	39.78
ATOM	23645	O3	ADE	238	154.633	83.912	-28.925	1.00	46.23	Al6S	ATOM	23698	N1	ADE	241	143.922	79.933	-33.955	1.00	39.78
ATOM	23646	P	URI	239	155.586	83.127	-29.987	1.00	55.37	Al6S	ATOM	23699	C6	ADE	241	144.835	80.750	-33.386	1.00	39.78
ATOM	23647	O1P	URI	239	156.913	83.693	-29.671	1.00	55.33	Al6S	ATOM	23700	N6	ADE	241	144.399	81.791	-32.665	1.00	39.78
ATOM	23648	O2P	URI	239	155.085	83.222	-31.375	1.00	55.33	Al6S	ATOM	23701	C5	ADE	241	146.195	80.441	-33.578	1.00	39.78
ATOM	23649	O5	URI	239	155.658	81.586	-29.564	1.00	55.37	Al6S	ATOM	23702	N7	ADE	241	147.367	81.057	-33.163	1.00	39.78
ATOM	23650	C5	URI	239	155.823	81.204	-28.199	1.00	55.37	Al6S	ATOM	23703	C8	ADE	241	148.315	80.286	-33.641	1.00	39.78
ATOM	23651	C4	URI	239	156.857	80.112	-28.026	1.00	55.37	Al6S	ATOM	23704	C2	ADE	241	149.531	78.208	-36.079	1.00	46.88
ATOM	23652	O4	URI	239	158.113	80.523	-28.588	1.00	55.37	Al6S	ATOM	23705	O2	ADE	241	148.857	77.927	-37.286	1.00	46.88
ATOM	23653	C1	URI	239	159.143	79.927	-27.847	1.00	55.37	Al6S	ATOM	23706	C3	ADE	241	150.645	77.216	-35.693	1.00	46.88
ATOM	23654	N1	URI	239	160.387	80.695	-27.982	1.00	55.33	Al6S	ATOM	23707	O3	ADE	241	150.835	76.102	-36.576	1.00	46.88
ATOM	23655	C6	URI	239	160.395	81.987	-28.436	1.00	55.33	Al6S	ATOM	23708	P	GUA	242	151.045	76.304	-38.149	1.00	50.89
ATOM	23656	C2	URI	239	161.564	80.055	-27.648	1.00	55.33	Al6S	ATOM	23709	O1P	GUA	242	151.912	75.162	-38.530	1.00	57.34

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ATOM	23710	O2P	GUA	242	151.477	77.694	-38.418	1.00	57.34	Al6S	ATOM	23763	N3	URI	244	137.911	69.457	-39.431	1.00	62.26	A
ATOM	23711	O5'	GUA	242	149.622	76.042	-38.817	1.00	50.89	Al6S	ATOM	23764	C4	URI	244	139.226	69.604	-39.809	1.00	62.26	A
ATOM	23712	C5'	GUA	242	148.965	74.785	-38.683	1.00	50.89	Al6S	ATOM	23765	O4	URI	244	139.492	69.781	-40.996	1.00	62.26	A
ATOM	23713	C4'	GUA	242	148.008	74.835	-37.518	1.00	50.89	Al6S	ATOM	23766	C5	URI	244	140.174	69.384	-38.762	1.00	62.26	A
ATOM	23714	C4'	GUA	242	147.174	76.021	-37.632	1.00	50.89	Al6S	ATOM	23767	C2'	URI	244	137.668	66.982	-35.852	1.00	59.48	A
ATOM	23715	C1'	GUA	242	145.922	75.773	-37.023	1.00	50.89	Al6S	ATOM	23768	O2'	URI	244	136.602	66.741	-34.956	1.00	59.48	A
ATOM	23716	N9	GUA	242	144.877	75.891	-38.037	1.00	57.34	Al6S	ATOM	23769	C3'	URI	244	138.991	66.425	-35.348	1.00	59.48	A
ATOM	23717	C4	GUA	242	143.528	75.897	-37.797	1.00	57.34	Al6S	ATOM	23770	O3'	URI	244	138.830	65.184	-34.680	1.00	59.48	A
ATOM	23718	N3	GUA	242	142.945	75.804	-36.584	1.00	57.34	Al6S	ATOM	23771	P	ADE	245	139.153	63.823	-35.456	1.00	69.22	A
ATOM	23719	C2	GUA	242	141.632	75.830	-36.562	1.00	57.34	Al6S	ATOM	23772	O1P	ADE	245	139.350	62.778	-34.418	1.00	100.82	A
ATOM	23720	N2	GUA	242	140.908	75.756	-35.544	1.00	57.34	Al6S	ATOM	23773	O2P	ADE	245	140.214	64.071	-36.461	1.00	100.82	A
ATOM	23721	N1	GUA	242	140.936	75.934	-37.842	1.00	57.34	Al6S	ATOM	23774	O5'	ADE	245	137.798	63.533	-36.233	1.00	69.22	A
ATOM	23722	C6	GUA	242	140.784	76.034	-39.106	1.00	57.34	Al6S	ATOM	23775	C5'	ADE	245	136.644	63.060	-35.547	1.00	69.22	A
ATOM	23723	O5	GUA	242	141.510	76.133	-40.108	1.00	57.34	Al6S	ATOM	23776	C4'	ADE	245	135.775	63.207	-36.503	1.00	69.22	A
ATOM	23724	C5	GUA	242	142.932	76.008	-39.034	1.00	57.34	Al6S	ATOM	23777	O4'	ADE	245	135.217	62.660	-37.470	1.00	69.22	A
ATOM	23725	N7	GUA	242	143.890	76.076	-40.036	1.00	57.34	Al6S	ATOM	23778	C1'	ADE	245	135.300	62.660	-37.772	1.00	69.22	A
ATOM	23726	C8	GUA	242	145.028	76.005	-39.398	1.00	57.34	Al6S	ATOM	23779	N9	ADE	245	136.031	63.627	-39.582	1.00	100.82	A
ATOM	23727	C2'	GUA	242	146.003	74.362	-36.437	1.00	50.89	Al6S	ATOM	23780	C4	ADE	245	135.593	64.198	-40.752	1.00	100.82	A
ATOM	23728	O2'	GUA	242	146.557	74.415	-35.140	1.00	50.89	Al6S	ATOM	23781	N3	ADE	245	134.464	63.916	-41.425	1.00	100.82	A
ATOM	23729	C3'	GUA	242	146.988	73.719	-37.390	1.00	50.89	Al6S	ATOM	23782	C2	ADE	245	134.343	64.709	-42.487	1.00	100.82	A
ATOM	23730	O3'	GUA	242	147.521	72.536	-36.814	1.00	50.89	Al6S	ATOM	23783	N1	ADE	245	135.160	65.681	-42.918	1.00	100.82	A
ATOM	23731	P	CYT	243	146.796	71.130	-37.092	1.00	54.62	Al6S	ATOM	23784	C6	ADE	245	136.289	65.936	-42.218	1.00	100.82	A
ATOM	23732	O1P	CYT	243	147.601	70.052	-36.466	1.00	56.86	Al6S	ATOM	23785	N6	ADE	245	137.104	66.909	-42.640	1.00	100.82	A
ATOM	23733	O2P	CYT	243	146.474	71.076	-38.540	1.00	56.86	Al6S	ATOM	23786	C5	ADE	245	136.536	65.160	-41.077	1.00	100.82	A
ATOM	23734	O5'	CYT	243	145.448	71.220	-36.264	1.00	54.62	Al6S	ATOM	23787	N7	ADE	245	137.577	65.158	-40.158	1.00	100.82	A
ATOM	23735	C5'	CYT	243	145.508	71.247	-34.854	1.00	54.62	Al6S	ATOM	23788	C8	ADE	245	137.238	64.221	-39.303	1.00	100.82	A
ATOM	23736	C4'	CYT	243	144.133	71.132	-34.264	1.00	54.62	Al6S	ATOM	23789	O2'	ADE	245	135.833	61.230	-38.666	1.00	69.22	A
ATOM	23737	O4'	CYT	243	143.355	72.320	-34.556	1.00	54.62	Al6S	ATOM	23790	C2'	ADE	245	134.746	60.332	-38.772	1.00	69.22	A
ATOM	23738	C1'	CYT	243	141.986	71.970	-34.626	1.00	54.62	Al6S	ATOM	23791	C3'	ADE	245	136.535	61.258	-37.306	1.00	69.22	A
ATOM	23739	N1	CYT	243	141.516	72.243	-35.987	1.00	56.86	Al6S	ATOM	23792	O3'	ADE	245	136.671	60.041	-36.557	1.00	69.22	A
ATOM	23740	C6	CYT	243	142.396	72.530	-36.986	1.00	56.86	Al6S	ATOM	23793	P	GUA	246	135.370	59.270	-35.974	1.00	92.85	A
ATOM	23741	C2	CYT	243	140.146	72.196	-36.247	1.00	56.86	Al6S	ATOM	23794	O1P	GUA	246	135.842	58.439	-34.828	1.00	55.89	A
ATOM	23742	O2	CYT	243	139.366	71.966	-35.305	1.00	56.86	Al6S	ATOM	23795	O2P	GUA	246	134.609	58.628	-37.082	1.00	55.89	A
ATOM	23743	N3	CYT	243	139.704	72.412	-37.505	1.00	56.86	Al6S	ATOM	23796	O5'	GUA	246	134.457	60.399	-35.316	1.00	92.85	A
ATOM	23744	C4	CYT	243	140.573	72.691	-38.472	1.00	56.86	Al6S	ATOM	23797	C5'	GUA	246	133.834	60.168	-34.053	1.00	92.85	A
ATOM	23745	N4	CYT	243	140.099	72.912	-39.692	1.00	56.86	Al6S	ATOM	23798	C4'	GUA	246	132.798	61.230	-33.759	1.00	92.85	A
ATOM	23746	C5	CYT	243	141.970	72.760	-38.230	1.00	56.86	Al6S	ATOM	23799	O4'	GUA	246	131.881	61.354	-34.854	1.00	92.85	A
ATOM	23747	C2'	CYT	243	141.917	70.483	-34.294	1.00	54.62	Al6S	ATOM	23800	C1'	GUA	246	130.596	61.682	-34.366	1.00	92.85	A
ATOM	23748	O2'	CYT	243	141.897	70.323	-32.891	1.00	54.62	Al6S	ATOM	23801	N9	GUA	246	129.636	61.005	-35.226	1.00	55.89	A
ATOM	23749	C3'	CYT	243	143.261	70.031	-34.815	1.00	54.62	Al6S	ATOM	23802	C4	GUA	246	128.676	61.621	-35.987	1.00	55.89	A
ATOM	23750	O3'	CYT	243	143.622	68.771	-34.287	1.00	54.62	Al6S	ATOM	23803	N3	GUA	246	128.318	62.917	-35.907	1.00	55.89	A
ATOM	23751	P	URI	244	143.247	67.441	-35.105	1.00	59.48	Al6S	ATOM	23804	C2	GUA	246	127.455	63.249	-36.849	1.00	55.89	A
ATOM	23752	O1P	URI	244	143.603	66.328	-34.193	1.00	62.26	Al6S	ATOM	23805	N2	GUA	246	126.965	64.498	-36.898	1.00	55.89	A
ATOM	23753	O2P	URI	244	143.822	67.485	-36.477	1.00	62.26	Al6S	ATOM	23806	N1	GUA	246	127.003	62.386	-37.811	1.00	55.89	A
ATOM	23754	O5'	URI	244	141.662	67.519	-35.211	1.00	59.48	Al6S	ATOM	23807	C6	GUA	246	127.368	61.053	-37.922	1.00	55.89	A
ATOM	23755	C5'	URI	244	140.879	67.518	-34.028	1.00	59.48	Al6S	ATOM	23808	O6	GUA	246	126.937	60.376	-38.861	1.00	55.89	A
ATOM	23756	C4'	URI	244	139.418	67.496	-34.364	1.00	59.48	Al6S	ATOM	23809	C5	GUA	246	128.260	60.669	-36.883	1.00	55.89	A
ATOM	23757	O4'	URI	244	139.043	68.731	-35.015	1.00	59.48	Al6S	ATOM	23810	N7	GUA	246	128.841	59.440	-36.599	1.00	55.89	A
ATOM	23758	C1'	URI	244	137.981	68.479	-35.917	1.00	59.48	Al6S	ATOM	23811	C8	GUA	246	129.621	59.682	-35.581	1.00	55.89	A
ATOM	23759	N1	URI	244	138.419	68.888	-37.252	1.00	62.26	Al6S	ATOM	23812	C2'	GUA	246	130.568	61.539	-32.844	1.00	92.85	A
ATOM	23760	C6	URI	244	139.747	69.040	-37.551	1.00	62.26	Al6S	ATOM	23813	O2'	GUA	246	130.358	62.793	-32.238	1.00	92.85	A
ATOM	23761	C2	URI	244	137.447	69.103	-38.193	1.00	62.26	Al6S	ATOM	23814	C3'	GUA	246	131.936	60.925	-32.553	1.00	92.85	A
ATOM	23762	O2	URI	244	136.263	68.985	-37.950	1.00	62.26	Al6S	ATOM	23815	O3'	GUA	246	132.610	61.392	-31.393	1.00	92.85	A

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ATOM	23816	P	URI	247	132.979	62.961	-31.204	1.00	53.63	A16S	ATOM	23869	N1	GUA	249	124.609	64.499	-41.442	1.00	48.57
ATOM	23817	O1P	URI	247	134.385	62.929	-30.746	1.00	66.84	A16S	ATOM	23870	O6	GUA	249	125.246	64.539	-40.205	1.00	48.57
ATOM	23818	O2P	URI	247	131.962	63.639	-30.362	1.00	66.84	A16S	ATOM	23871	O6	GUA	249	125.740	63.503	-39.735	1.00	48.57
ATOM	23819	O5'	URI	247	133.014	63.694	-32.628	1.00	53.63	A16S	ATOM	23872	C5	GUA	249	125.221	65.851	-39.643	1.00	48.57
ATOM	23820	C5'	URI	247	133.928	64.781	-32.780	1.00	53.63	A16S	ATOM	23873	N7	GUA	249	125.734	66.330	-38.445	1.00	48.57
ATOM	23821	C4'	URI	247	133.760	65.546	-34.079	1.00	53.63	A16S	ATOM	23874	C8	GUA	249	125.405	67.594	-38.433	1.00	48.57
ATOM	23822	O4'	URI	247	134.034	64.745	-35.247	1.00	53.63	A16S	ATOM	23875	C2'	GUA	249	122.637	69.316	-39.620	1.00	49.46
ATOM	23823	C1'	URI	247	133.653	65.498	-36.382	1.00	53.63	A16S	ATOM	23876	O2'	GUA	249	122.029	70.310	-40.429	1.00	49.46
ATOM	23824	N1	URI	247	132.971	64.640	-37.356	1.00	66.84	A16S	ATOM	23877	C3'	GUA	249	122.579	69.692	-38.151	1.00	49.46
ATOM	23825	C6	URI	247	132.486	63.402	-37.034	1.00	66.84	A16S	ATOM	23878	O3'	GUA	249	121.279	70.150	-37.788	1.00	49.46
ATOM	23826	C2	URI	247	132.841	65.141	-38.623	1.00	66.84	A16S	ATOM	23879	P	GUA	250	120.169	69.078	-37.338	1.00	60.16
ATOM	23827	O2	URI	247	133.247	66.239	-38.932	1.00	66.84	A16S	ATOM	23880	O1P	GUA	250	118.986	69.839	-36.877	1.00	57.37
ATOM	23828	N3	URI	247	132.214	64.318	-39.513	1.00	66.84	A16S	ATOM	23881	O2P	GUA	250	120.802	68.081	-36.439	1.00	57.37
ATOM	23829	C4	URI	247	131.710	63.072	-39.263	1.00	66.84	A16S	ATOM	23882	O5'	GUA	250	119.791	68.332	-38.688	1.00	60.16
ATOM	23830	O4	URI	247	131.171	62.450	-40.173	1.00	66.84	A16S	ATOM	23883	C5'	GUA	250	119.347	69.074	-39.819	1.00	60.16
ATOM	23831	C5	URI	247	131.875	62.621	-37.921	1.00	66.84	A16S	ATOM	23884	C4'	GUA	250	119.040	68.143	-40.963	1.00	60.16
ATOM	23832	C2'	URI	247	132.787	66.669	-35.900	1.00	53.63	A16S	ATOM	23885	O4'	GUA	250	120.259	67.497	-41.413	1.00	60.16
ATOM	23833	O2'	URI	247	133.557	67.848	-35.980	1.00	53.63	A16S	ATOM	23886	C1'	GUA	250	119.975	66.164	-41.788	1.00	60.16
ATOM	23834	C3'	URI	247	132.490	66.292	-34.447	1.00	53.63	A16S	ATOM	23887	N9	GUA	250	120.762	65.284	-40.933	1.00	57.37
ATOM	23835	O3'	URI	247	132.398	67.518	-33.723	1.00	53.63	A16S	ATOM	23888	C4	GUA	250	120.992	63.945	-41.123	1.00	57.37
ATOM	23836	P	URI	248	130.965	68.069	-33.238	1.00	45.77	A16S	ATOM	23889	N3	GUA	250	120.522	63.194	-42.138	1.00	57.37
ATOM	23837	O1P	URI	248	131.221	69.145	-32.243	1.00	43.08	A16S	ATOM	23890	C2	GUA	250	120.915	61.934	-42.035	1.00	57.37
ATOM	23838	O2P	URI	248	130.138	66.897	-32.850	1.00	43.08	A16S	ATOM	23891	N2	GUA	250	120.562	61.032	-42.957	1.00	57.37
ATOM	23839	O5'	URI	248	130.319	68.729	-34.535	1.00	45.77	A16S	ATOM	23892	N1	GUA	250	121.691	61.459	-41.019	1.00	57.37
ATOM	23840	C5'	URI	248	130.190	70.133	-34.625	1.00	45.77	A16S	ATOM	23893	C6	GUA	250	122.181	62.216	-39.970	1.00	57.37
ATOM	23841	C4'	URI	248	129.431	70.517	-35.867	1.00	45.77	A16S	ATOM	23894	O6	GUA	250	122.861	61.682	-39.104	1.00	57.37
ATOM	23842	O4'	URI	248	130.122	69.990	-37.025	1.00	45.77	A16S	ATOM	23895	C5	GUA	250	121.786	63.559	-40.068	1.00	57.37
ATOM	23843	C1'	URI	248	129.190	69.754	-38.068	1.00	45.77	A16S	ATOM	23896	N7	GUA	250	122.060	64.634	-39.237	1.00	57.37
ATOM	23844	N1	URI	248	129.193	68.325	-38.391	1.00	43.08	A16S	ATOM	23897	C8	GUA	250	121.428	65.634	-39.786	1.00	57.37
ATOM	23845	C6	URI	248	129.761	67.395	-37.556	1.00	43.08	A16S	ATOM	23898	C2'	GUA	250	118.463	65.969	-41.660	1.00	60.16
ATOM	23846	C2	URI	248	128.575	67.948	-39.567	1.00	43.08	A16S	ATOM	23899	O2'	GUA	250	117.850	66.292	-42.899	1.00	60.16
ATOM	23847	O2	URI	248	128.091	68.752	-40.342	1.00	43.08	A16S	ATOM	23900	C3'	GUA	250	118.119	66.999	-40.599	1.00	60.16
ATOM	23848	N3	URI	248	128.548	66.601	-39.805	1.00	43.08	A16S	ATOM	23901	O3'	GUA	250	116.774	67.436	-40.702	1.00	60.16
ATOM	23849	C4	URI	248	129.081	65.615	-39.013	1.00	43.08	A16S	ATOM	23902	P	URI	251	115.664	66.825	-39.715	1.00	56.60
ATOM	23850	O4	URI	248	129.987	64.411	-39.373	1.00	43.08	A16S	ATOM	23903	O1P	URI	251	114.451	67.674	-39.864	1.00	61.44
ATOM	23851	C5	URI	248	129.729	66.087	-37.818	1.00	43.08	A16S	ATOM	23904	O2P	URI	251	116.261	66.627	-38.370	1.00	61.44
ATOM	23852	C2'	URI	248	127.830	70.179	-37.531	1.00	45.77	A16S	ATOM	23905	O5'	URI	251	115.380	65.384	-40.322	1.00	56.60
ATOM	23853	O2'	URI	248	127.658	71.541	-37.853	1.00	45.77	A16S	ATOM	23906	C5'	URI	251	114.688	65.238	-41.547	1.00	56.60
ATOM	23854	C3'	URI	248	128.035	69.952	-36.042	1.00	45.77	A16S	ATOM	23907	C4'	URI	251	114.708	63.799	-41.968	1.00	56.60
ATOM	23855	O3'	URI	248	127.075	70.662	-35.275	1.00	45.77	A16S	ATOM	23908	O4'	URI	251	116.071	63.422	-42.271	1.00	56.60
ATOM	23856	P	GUA	249	125.707	69.938	-34.855	1.00	49.46	A16S	ATOM	23909	C1'	URI	251	116.260	62.052	-41.963	1.00	56.60
ATOM	23857	O1P	GUA	249	124.997	70.851	-33.945	1.00	48.57	A16S	ATOM	23910	N1	URI	251	117.278	61.963	-40.913	1.00	61.44
ATOM	23858	O2P	GUA	249	126.031	68.558	-34.419	1.00	48.57	A16S	ATOM	23911	C6	URI	251	117.638	63.059	-40.183	1.00	61.44
ATOM	23859	O5'	GUA	249	124.862	69.873	-36.203	1.00	49.46	A16S	ATOM	23912	C2	URI	251	117.851	60.732	-40.683	1.00	61.44
ATOM	23860	C5'	GUA	249	124.234	71.042	-36.718	1.00	49.46	A16S	ATOM	23913	O2	URI	251	117.556	59.737	-41.327	1.00	61.44
ATOM	23861	C4'	GUA	249	123.650	70.770	-38.080	1.00	49.46	A16S	ATOM	23914	N3	URI	251	118.781	60.707	-39.674	1.00	61.44
ATOM	23862	O4'	GUA	249	124.701	70.237	-38.927	1.00	49.46	A16S	ATOM	23915	C4	URI	251	119.179	61.766	-38.895	1.00	61.44
ATOM	23863	C1'	GUA	249	124.148	69.297	-39.841	1.00	49.46	A16S	ATOM	23916	O4	URI	251	120.005	61.585	-38.004	1.00	61.44
ATOM	23864	N9	GUA	249	124.703	67.978	-39.549	1.00	48.57	A16S	ATOM	23917	C5	URI	251	118.543	63.004	-39.208	1.00	61.44
ATOM	23865	C4	GUA	249	124.596	66.860	-40.343	1.00	48.57	A16S	ATOM	23918	C2'	URI	251	114.915	61.526	-41.468	1.00	56.60
ATOM	23866	N3	GUA	249	123.983	66.795	-41.547	1.00	48.57	A16S	ATOM	23919	O2'	URI	251	114.142	61.065	-42.554	1.00	56.60
ATOM	23867	C2	GUA	249	124.024	65.573	-42.060	1.00	48.57	A16S	ATOM	23920	O3'	URI	251	114.321	62.795	-40.902	1.00	56.60
ATOM	23868	N2	GUA	249	123.473	65.333	-43.255	1.00	48.57	A16S	ATOM	23921	C3'	URI	251	112.927	62.663	-40.770	1.00	56.60

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ATOM	23922	P	GUA	252	112.311	62.302	-39.340	1.00	74.48	A16S	ATOM	23975	C1' GUA	254	117.461	53.608	-29.767	1.00	59.84
ATOM	23923	O1P GUA	252	110.838	62.504	-39.460	1.00	69.55	A16S	ATOM	23976	N9 GUA	254	117.205	55.040	-29.811	1.00	65.82	
ATOM	23924	O2P GUA	252	113.076	63.046	-38.309	1.00	69.55	A16S	ATOM	23977	C4 GUA	254	117.917	56.020	-29.175	1.00	65.82	
ATOM	23925	O5' GUA	252	112.649	60.754	-39.140	1.00	74.48	A16S	ATOM	23978	N3 GUA	254	119.001	55.834	-28.400	1.00	65.82	
ATOM	23926	C5' GUA	252	111.940	59.746	-39.855	1.00	74.48	A16S	ATOM	23979	C2 GUA	254	119.461	56.975	-27.912	1.00	65.82	
ATOM	23927	C4' GUA	252	112.564	58.393	-39.612	1.00	74.48	A16S	ATOM	23980	N2 GUA	254	120.538	56.977	-27.109	1.00	65.82	
ATOM	23928	O4' GUA	252	113.977	58.473	-39.929	1.00	74.48	A16S	ATOM	23981	N1 GUA	254	118.900	58.198	-28.170	1.00	65.82	
ATOM	23929	C1' GUA	252	114.704	57.597	-39.084	1.00	74.48	A16S	ATOM	23982	C6 GUA	254	117.786	58.412	-28.965	1.00	65.82	
ATOM	23930	N9 GUA	252	115.635	58.386	-38.289	1.00	69.55	A16S	ATOM	23983	O6 GUA	254	117.359	59.557	-29.126	1.00	65.82	
ATOM	23931	C4 GUA	252	116.691	57.896	-37.569	1.00	69.55	A16S	ATOM	23984	C5 GUA	254	117.282	57.198	-29.494	1.00	65.82	
ATOM	23932	N3 GUA	252	117.054	56.602	-37.487	1.00	69.55	A16S	ATOM	23985	N7 GUA	254	116.197	56.963	-30.325	1.00	65.82	
ATOM	23933	C2 GUA	252	118.115	56.437	-36.723	1.00	69.55	A16S	ATOM	23986	C8 GUA	254	116.194	55.671	-30.488	1.00	65.82	
ATOM	23934	N2 GUA	252	118.613	55.210	-36.542	1.00	69.55	A16S	ATOM	23987	C2' GUA	254	117.165	53.006	-28.393	1.00	59.84	
ATOM	23935	N1 GUA	252	118.766	57.465	-36.082	1.00	69.55	A16S	ATOM	23988	O2' GUA	254	118.059	51.953	-28.117	1.00	59.84	
ATOM	23936	C6 GUA	252	118.404	58.805	-36.150	1.00	69.55	A16S	ATOM	23989	C3' GUA	254	115.727	52.529	-28.562	1.00	59.84	
ATOM	23937	O6 GUA	252	119.050	59.647	-35.528	1.00	69.55	A16S	ATOM	23990	O3' GUA	254	115.453	51.447	-27.688	1.00	59.84	
ATOM	23938	C5 GUA	252	117.272	58.995	-36.975	1.00	69.55	A16S	ATOM	23991	P GUA	255	114.611	51.716	-26.350	1.00	63.28	
ATOM	23939	N7 GUA	252	116.596	60.156	-37.320	1.00	69.55	A16S	ATOM	23992	O1P GUA	255	114.443	50.444	-25.592	1.00	78.28	
ATOM	23940	C8 GUA	252	115.633	59.746	-38.101	1.00	69.55	A16S	ATOM	23993	O2P GUA	255	113.408	52.504	-26.746	1.00	78.28	
ATOM	23941	C2' GUA	252	113.691	56.875	-38.200	1.00	74.48	A16S	ATOM	23994	O5' GUA	255	115.554	52.665	-25.488	1.00	63.28	
ATOM	23942	O2' GUA	252	113.320	55.652	-38.801	1.00	74.48	A16S	ATOM	23995	C5' GUA	255	116.818	52.223	-25.040	1.00	63.28	
ATOM	23943	C3' GUA	252	112.550	57.878	-38.181	1.00	74.48	A16S	ATOM	23996	C4' GUA	255	117.530	53.357	-24.371	1.00	63.28	
ATOM	23944	O3' GUA	252	111.336	57.205	-37.880	1.00	74.48	A16S	ATOM	23997	O4' GUA	255	117.882	54.346	-25.364	1.00	63.28	
ATOM	23945	P GUA	253	110.812	57.146	-36.361	1.00	67.05	A16S	ATOM	23998	C1' GUA	255	117.807	55.638	-24.793	1.00	63.28	
ATOM	23946	O1P GUA	253	109.590	56.309	-36.400	1.00	73.11	A16S	ATOM	23999	N9 GUA	255	116.845	56.402	-25.572	1.00	78.28	
ATOM	23947	O2P GUA	253	110.734	58.530	-35.840	1.00	73.11	A16S	ATOM	24000	C4 GUA	255	116.780	57.770	-25.708	1.00	78.28	
ATOM	23948	O5' GUA	253	111.945	56.357	-35.557	1.00	67.05	A16S	ATOM	24001	N3 GUA	255	117.614	58.669	-25.143	1.00	78.28	
ATOM	23949	C5' GUA	253	112.058	54.951	-35.710	1.00	67.05	A16S	ATOM	24002	C2 GUA	255	117.289	59.911	-25.469	1.00	78.28	
ATOM	23950	C4' GUA	253	113.330	54.423	-35.087	1.00	67.05	A16S	ATOM	24003	N2 GUA	255	118.014	60.940	-25.007	1.00	78.28	
ATOM	23951	O4' GUA	253	114.472	55.192	-35.540	1.00	67.05	A16S	ATOM	24004	N1 GUA	255	116.231	60.238	-26.275	1.00	78.28	
ATOM	23952	C1' GUA	253	115.534	55.019	-34.614	1.00	67.05	A16S	ATOM	24005	C6 GUA	255	115.365	59.329	-26.862	1.00	78.28	
ATOM	23953	N9 GUA	253	116.010	56.323	-34.172	1.00	73.11	A16S	ATOM	24006	O6 GUA	255	114.445	59.730	-27.574	1.00	78.28	
ATOM	23954	C4 GUA	253	117.165	56.553	-33.479	1.00	73.11	A16S	ATOM	24007	C5 GUA	255	115.700	58.001	-26.529	1.00	78.28	
ATOM	23955	N3 GUA	253	118.054	55.616	-33.100	1.00	73.11	A16S	ATOM	24008	N7 GUA	255	115.105	56.808	-26.906	1.00	78.28	
ATOM	23956	C2 GUA	253	119.077	56.141	-32.453	1.00	73.11	A16S	ATOM	24009	C8 GUA	255	115.817	55.890	-26.316	1.00	78.28	
ATOM	23957	N2 GUA	253	120.055	55.349	-32.007	1.00	73.11	A16S	ATOM	24010	C2' GUA	255	117.390	55.461	-23.329	1.00	63.28	
ATOM	23958	N1 GUA	253	119.215	57.482	-32.199	1.00	73.11	A16S	ATOM	24011	O2' GUA	255	118.515	55.384	-22.483	1.00	63.28	
ATOM	23959	C6 GUA	253	118.311	58.464	-32.584	1.00	73.11	A16S	ATOM	24012	C3' GUA	255	116.680	54.124	-23.380	1.00	63.28	
ATOM	23960	O6 GUA	253	118.536	59.646	-32.312	1.00	73.11	A16S	ATOM	24013	O3' GUA	255	116.734	53.501	-22.113	1.00	63.28	
ATOM	23961	C5 GUA	253	117.208	57.912	-33.275	1.00	73.11	A16S	ATOM	24014	P URI	256	115.502	53.659	-21.098	1.00	55.63	
ATOM	23962	N7 GUA	253	116.096	58.526	-33.828	1.00	73.11	A16S	ATOM	24015	O1P URI	256	114.223	53.479	-21.838	1.00	60.92	
ATOM	23963	C8 GUA	253	115.414	57.544	-34.350	1.00	73.11	A16S	ATOM	24016	O2P URI	256	115.806	52.811	-19.912	1.00	60.92	
ATOM	23964	C2' GUA	253	114.978	54.212	-33.443	1.00	67.05	A16S	ATOM	24017	O5' URI	256	115.575	55.177	-20.646	1.00	55.63	
ATOM	23965	O2' GUA	253	115.273	52.848	-33.641	1.00	67.05	A16S	ATOM	24018	C5' URI	256	116.608	55.621	-19.794	1.00	55.63	
ATOM	23966	C3' GUA	253	113.488	54.477	-33.580	1.00	67.05	A16S	ATOM	24019	C4' URI	256	116.442	57.086	-19.530	1.00	55.63	
ATOM	23967	O3' GUA	253	112.770	53.446	-32.915	1.00	67.05	A16S	ATOM	24020	O4' URI	256	116.594	57.810	-20.773	1.00	55.63	
ATOM	23968	P GUA	254	112.340	53.653	-31.379	1.00	59.84	A16S	ATOM	24021	C1' URI	256	115.809	58.981	-20.724	1.00	55.63	
ATOM	23969	O1P GUA	254	111.270	52.665	-31.059	1.00	65.82	A16S	ATOM	24022	N1 URI	256	114.957	59.002	-21.917	1.00	60.92	
ATOM	23970	O2P GUA	254	112.062	55.102	-31.225	1.00	65.82	A16S	ATOM	24023	C6 URI	256	114.607	57.848	-22.560	1.00	60.92	
ATOM	23971	O5' GUA	254	113.657	53.311	-30.534	1.00	59.84	A16S	ATOM	24024	C2 URI	256	114.514	60.223	-22.364	1.00	60.92	
ATOM	23972	C5' GUA	254	114.329	52.055	-30.683	1.00	59.84	A16S	ATOM	24025	O2 URI	256	114.828	61.269	-21.834	1.00	60.92	
ATOM	23973	C4' GUA	254	115.693	52.079	-30.009	1.00	59.84	A16S	ATOM	24026	N3 URI	256	113.694	60.175	-23.460	1.00	60.92	
ATOM	23974	O4' GUA	254	116.592	52.989	-30.700	1.00	59.84	A16S	ATOM	24027	C4 URI	256	113.294	59.057	-24.142	1.00	60.92	

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ATOM	24028	O4	URI	256	112.535	59.175	-25.098	1.00	60.92	Al6S	ATOM	24081	O5' URI	259	113.495	65.243	-25.141	1.00	50.27	
ATOM	24029	C5	URI	256	113.812	57.834	-23.632	1.00	60.92	Al6S	ATOM	24082	C5' URI	259	112.847	66.395	-25.654	1.00	50.27	
ATOM	24030	C2' URI	256	115.045	58.971	-19.395	1.00	55.63	Al6S	Al6S	ATOM	24083	C4' URI	259	113.857	67.485	-25.887	1.00	50.27	
ATOM	24031	O2' URI	256	115.754	59.733	-18.444	1.00	55.63	Al6S	Al6S	ATOM	24084	O4' URI	259	114.460	67.851	-24.619	1.00	50.27	
ATOM	24032	C3' URI	256	115.068	57.493	-19.040	1.00	55.63	Al6S	Al6S	ATOM	24085	C1' URI	259	115.834	68.147	-24.810	1.00	50.27	
ATOM	24033	O3' URI	256	115.000	57.286	-17.637	1.00	55.63	Al6S	Al6S	ATOM	24086	N1 URI	259	116.620	67.159	-24.061	1.00	54.88	
ATOM	24034	P	ADE	257	113.595	56.919	-16.949	1.00	56.34	Al6S	ATOM	24087	C6 URI	259	116.068	65.975	-23.649	1.00	54.88	
ATOM	24035	O1P ADE	257	112.954	55.882	-17.801	1.00	61.79	Al6S	Al6S	ATOM	24088	C2 URI	259	117.925	67.459	-23.790	1.00	54.88	
ATOM	24036	O2P ADE	257	113.813	56.658	-15.501	1.00	61.79	Al6S	Al6S	ATOM	24089	O2 URI	259	118.441	68.496	-24.137	1.00	54.88	
ATOM	24037	O5' ADE	257	112.760	58.266	-17.073	1.00	56.34	Al6S	Al6S	ATOM	24090	N3 URI	259	118.607	66.500	-23.097	1.00	54.88	
ATOM	24038	C5' ADE	257	111.361	58.287	-16.844	1.00	56.34	Al6S	Al6S	ATOM	24091	C4 URI	259	118.121	65.298	-22.656	1.00	54.88	
ATOM	24039	C4' ADE	257	110.856	59.697	-16.971	1.00	56.34	Al6S	Al6S	ATOM	24092	O4 URI	259	118.866	64.533	-22.045	1.00	54.88	
ATOM	24040	O4' ADE	257	111.360	60.491	-15.870	1.00	56.34	Al6S	Al6S	ATOM	24093	C5 URI	259	116.754	65.059	-22.974	1.00	54.88	
ATOM	24041	C1' ADE	257	111.783	61.751	-16.340	1.00	56.34	Al6S	Al6S	ATOM	24094	C2' URI	259	116.099	68.087	-26.313	1.00	50.27	
ATOM	24042	N9 ADE	257	113.207	61.865	-16.034	1.00	61.79	Al6S	Al6S	ATOM	24095	O2' URI	259	115.921	69.379	-26.859	1.00	50.27	
ATOM	24043	C4 ADE	257	113.925	63.017	-15.815	1.00	61.79	Al6S	Al6S	ATOM	24096	C3' URI	259	115.037	67.091	-26.754	1.00	50.27	
ATOM	24044	N3 ADE	257	113.489	64.284	-15.916	1.00	61.79	Al6S	Al6S	ATOM	24097	O3' URI	259	114.707	67.248	-28.120	1.00	50.27	
ATOM	24045	C2 ADE	257	114.452	65.139	-15.585	1.00	61.79	Al6S	Al6S	ATOM	24098	P	GUA	260	115.212	66.163	-29.178	1.00	44.58
ATOM	24046	N1 ADE	257	115.704	64.892	-15.190	1.00	61.79	Al6S	Al6S	ATOM	24099	O1P GUA	260	114.758	66.560	-30.535	1.00	62.68	
ATOM	24047	C6 ADE	257	116.113	63.611	-15.101	1.00	61.79	Al6S	Al6S	ATOM	24100	O2P GUA	260	114.839	64.833	-28.636	1.00	62.68	
ATOM	24048	N6 ADE	257	117.362	63.371	-14.702	1.00	61.79	Al6S	Al6S	ATOM	24101	O5' GUA	260	116.795	66.306	-29.110	1.00	44.58	
ATOM	24049	C5 ADE	257	115.189	62.606	-15.436	1.00	61.79	Al6S	Al6S	ATOM	24102	C5' GUA	260	117.437	67.455	-29.640	1.00	44.58	
ATOM	24050	N7 ADE	257	115.284	61.221	-15.471	1.00	61.79	Al6S	Al6S	ATOM	24103	C4' GUA	260	118.899	67.443	-29.291	1.00	44.58	
ATOM	24051	C8 ADE	257	114.088	60.834	-15.843	1.00	61.79	Al6S	Al6S	ATOM	24104	O4' GUA	260	119.051	67.548	-27.854	1.00	44.58	
ATOM	24052	C2' ADE	257	111.387	61.850	-17.816	1.00	56.34	Al6S	Al6S	ATOM	24105	C1' GUA	260	120.242	66.892	-27.460	1.00	44.58	
ATOM	24053	O2' ADE	257	110.121	62.468	-17.926	1.00	56.34	Al6S	Al6S	ATOM	24106	N9 GUA	260	119.907	65.807	-26.551	1.00	62.68	
ATOM	24054	C3' ADE	257	111.357	60.384	-18.221	1.00	56.34	Al6S	Al6S	ATOM	24107	C4 GUA	260	120.751	65.247	-25.633	1.00	62.68	
ATOM	24055	O3' ADE	257	110.456	60.137	-19.280	1.00	56.34	Al6S	Al6S	ATOM	24108	N3 GUA	260	122.014	65.646	-25.377	1.00	62.68	
ATOM	24056	P	ADE	258	111.006	60.109	-20.776	1.00	47.68	Al6S	ATOM	24109	C2 GUA	260	122.595	64.878	-24.477	1.00	62.68	
ATOM	24057	O1P ADE	258	109.869	59.824	-21.695	1.00	57.51	Al6S	Al6S	ATOM	24110	N2 GUA	260	123.856	65.115	-24.120	1.00	62.68	
ATOM	24058	O2P ADE	258	112.190	59.217	-20.778	1.00	57.51	Al6S	Al6S	ATOM	24111	C1 GUA	260	121.985	63.813	-23.870	1.00	62.68	
ATOM	24059	O5' ADE	258	111.491	61.610	-21.009	1.00	47.68	Al6S	Al6S	ATOM	24112	C6 GUA	260	120.690	63.384	-24.128	1.00	62.68	
ATOM	24060	C5' ADE	258	110.541	62.669	-21.119	1.00	47.68	Al6S	Al6S	ATOM	24113	O6 GUA	260	120.247	62.392	-23.552	1.00	62.68	
ATOM	24061	C4' ADE	258	111.246	63.985	-21.319	1.00	47.68	Al6S	Al6S	ATOM	24114	C5 GUA	260	120.053	64.199	-25.085	1.00	62.68	
ATOM	24062	O4' ADE	258	111.874	64.407	-20.081	1.00	47.68	Al6S	Al6S	ATOM	24115	N7 GUA	260	118.778	64.127	-25.618	1.00	62.68	
ATOM	24063	C1' ADE	258	113.127	65.011	-20.367	1.00	47.68	Al6S	Al6S	ATOM	24116	C8 GUA	260	118.733	65.109	-26.476	1.00	62.68	
ATOM	24064	N9 ADE	258	114.182	64.218	-19.729	1.00	57.51	Al6S	Al6S	ATOM	24117	C2' GUA	260	120.869	66.316	-28.728	1.00	44.58	
ATOM	24065	C4 ADE	258	115.262	64.703	-19.033	1.00	57.51	Al6S	Al6S	ATOM	24118	O2' GUA	260	121.805	67.233	-29.242	1.00	44.58	
ATOM	24066	N3 ADE	258	115.550	65.986	-18.761	1.00	57.51	Al6S	Al6S	ATOM	24119	C3' GUA	260	119.644	66.164	-29.611	1.00	44.58	
ATOM	24067	C2 ADE	258	116.692	66.078	-18.092	1.00	57.51	Al6S	Al6S	ATOM	24120	O3' GUA	260	119.989	66.108	-30.982	1.00	44.58	
ATOM	24068	N1 ADE	258	117.517	65.114	-17.696	1.00	57.51	Al6S	Al6S	ATOM	24121	P	GUA	261	119.971	64.701	-31.749	1.00	54.80
ATOM	24069	C6 ADE	258	117.200	63.837	-17.980	1.00	57.51	Al6S	Al6S	ATOM	24122	O1P GUA	261	119.960	65.029	-33.198	1.00	78.56	
ATOM	24070	N6 ADE	258	118.028	62.876	-17.578	1.00	57.51	Al6S	Al6S	ATOM	24123	O2P GUA	261	118.900	63.854	-31.176	1.00	78.56	
ATOM	24071	C5 ADE	258	116.010	63.601	-18.682	1.00	57.51	Al6S	Al6S	ATOM	24124	O5' GUA	261	121.381	64.078	-31.376	1.00	54.80	
ATOM	24072	N7 ADE	258	115.398	62.436	-19.116	1.00	57.51	Al6S	Al6S	ATOM	24125	C5' GUA	261	122.507	64.922	-31.322	1.00	54.80	
ATOM	24073	C8 ADE	258	114.318	62.856	-19.724	1.00	57.51	Al6S	Al6S	ATOM	24126	C4' GUA	261	123.628	64.286	-30.548	1.00	54.80	
ATOM	24074	O2' ADE	258	113.272	65.082	-21.893	1.00	47.68	Al6S	Al6S	ATOM	24127	O4' GUA	261	123.915	62.980	-31.066	1.00	54.80	
ATOM	24075	O2' ADE	258	112.862	66.349	-22.355	1.00	47.68	Al6S	Al6S	ATOM	24128	C1' GUA	261	125.197	62.971	-31.643	1.00	54.80	
ATOM	24076	C3' ADE	258	112.363	63.946	-22.346	1.00	47.68	Al6S	Al6S	ATOM	24129	N9 GUA	261	124.961	62.948	-33.078	1.00	78.56	
ATOM	24077	O3' ADE	258	111.818	64.159	-23.637	1.00	47.68	Al6S	Al6S	ATOM	24130	C4 GUA	261	125.171	61.877	-33.883	1.00	78.56	
ATOM	24078	P - URI	259	112.709	63.878	-24.934	1.00	50.27	Al6S	Al6S	ATOM	24131	N3 GUA	261	125.731	60.722	-33.504	1.00	78.56	
ATOM	24079	O1P URI	259	111.791	63.678	-26.081	1.00	54.88	Al6S	Al6S	ATOM	24132	C2 GUA	261	125.738	59.843	-34.483	1.00	78.56	
ATOM	24080	O2P URI	259	113.727	62.846	-24.629	1.00	54.88	Al6S	Al6S	ATOM	24133	N2 GUA	261	126.267	58.617	-34.285	1.00	78.56	

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ATOM	24134	N1	GUA	261	125.228	60.089	-35.734	1.00	78.56	Al6S	ATOM	24187	O5'	CYT	264	126.672	54.884	-32.333	1.00	68.29	A
ATOM	24135	C6	GUA	261	124.646	61.280	-36.137	1.00	78.56	Al6S	ATOM	24188	C5'	CYT	264	126.309	53.529	-32.139	1.00	68.29	A
ATOM	24136	O6	GUA	261	124.211	61.393	-37.278	1.00	78.56	Al6S	ATOM	24189	C4'	CYT	264	125.111	53.177	-32.988	1.00	68.29	A
ATOM	24137	C5	GUA	261	124.640	62.224	-35.106	1.00	78.56	Al6S	ATOM	24190	O4'	CYT	264	123.959	53.950	-32.568	1.00	68.29	A
ATOM	24138	N7	GUA	261	124.156	63.522	-35.085	1.00	78.56	Al6S	ATOM	24191	C1'	CYT	264	123.066	54.076	-33.661	1.00	68.29	A
ATOM	24139	C8	GUA	261	124.389	63.922	-33.864	1.00	78.56	Al6S	ATOM	24192	N1	CYT	264	122.727	55.491	-33.843	1.00	65.00	A
ATOM	24140	C2'	GUA	261	125.995	64.114	-31.004	1.00	54.80	Al6S	ATOM	24193	C6	CYT	264	123.481	56.479	-33.284	1.00	65.00	A
ATOM	24141	O2'	GUA	261	126.682	63.604	-29.882	1.00	54.80	Al6S	ATOM	24194	C2	CYT	264	121.615	55.807	-34.616	1.00	65.00	A
ATOM	24142	C3'	GUA	261	124.888	65.116	-30.685	1.00	54.80	Al6S	ATOM	24195	O2	CYT	264	120.942	54.886	-35.092	1.00	65.00	A
ATOM	24143	O3'	GUA	261	124.929	65.999	-29.554	1.00	54.80	Al6S	ATOM	24196	N3	CYT	264	121.300	57.099	-34.827	1.00	65.00	A
ATOM	24144	P	CYT	262	125.859	65.705	-28.268	1.00	52.62	Al6S	ATOM	24197	C4	CYT	264	122.052	58.056	-34.296	1.00	65.00	A
ATOM	24145	O1P	CYT	262	125.408	66.732	-27.299	1.00	67.99	Al6S	ATOM	24198	N4	CYT	264	121.720	59.315	-34.549	1.00	65.00	A
ATOM	24146	O2P	CYT	262	127.302	65.609	-28.607	1.00	67.99	Al6S	ATOM	24199	C5	CYT	264	123.181	57.764	-33.485	1.00	65.00	A
ATOM	24147	O5'	CYT	262	125.403	64.319	-27.634	1.00	52.62	Al6S	ATOM	24200	C2'	CYT	264	123.749	53.485	-34.895	1.00	68.29	A
ATOM	24148	C5'	CYT	262	125.924	63.954	-26.354	1.00	52.62	Al6S	ATOM	24201	O2'	CYT	264	123.252	53.483	-34.472	1.00	68.29	A
ATOM	24149	C4'	CYT	262	125.441	62.589	-25.920	1.00	52.62	Al6S	ATOM	24202	C3'	CYT	264	125.212	53.483	-34.472	1.00	68.29	A
ATOM	24150	O4'	CYT	262	124.041	62.611	-25.560	1.00	52.62	Al6S	ATOM	24203	O3'	CYT	264	125.928	52.465	-35.159	1.00	68.29	A
ATOM	24151	C1'	CYT	262	123.514	61.305	-25.704	1.00	52.62	Al6S	ATOM	24204	P	ADE	265	126.571	52.777	-36.598	1.00	85.77	A
ATOM	24152	N1	CYT	262	122.348	61.361	-26.574	1.00	67.99	Al6S	ATOM	24205	O1P	ADE	265	127.479	51.645	-36.912	1.00	81.69	A
ATOM	24153	C6	CYT	262	122.134	62.420	-27.408	1.00	67.99	Al6S	ATOM	24206	O2P	ADE	265	127.101	54.167	-36.595	1.00	81.69	A
ATOM	24154	C2	CYT	262	121.469	60.302	-26.545	1.00	67.99	Al6S	ATOM	24207	O5'	ADE	265	125.330	52.726	-37.599	1.00	85.77	A
ATOM	24155	O2	CYT	262	121.687	59.377	-25.755	1.00	67.99	Al6S	ATOM	24208	C5'	ADE	265	124.876	51.489	-38.137	1.00	85.77	A
ATOM	24156	N3	CYT	262	120.403	60.304	-27.367	1.00	67.99	Al6S	ATOM	24209	C4'	ADE	265	123.716	51.721	-39.074	1.00	85.77	A
ATOM	24157	C4	CYT	262	120.202	61.328	-28.191	1.00	67.99	Al6S	ATOM	24210	O4'	ADE	265	122.655	52.371	-38.331	1.00	85.77	A
ATOM	24158	N4	CYT	262	119.148	61.278	-28.997	1.00	67.99	Al6S	ATOM	24211	C1'	ADE	265	122.000	53.317	-39.158	1.00	85.77	A
ATOM	24159	C5	CYT	262	121.080	62.445	-28.227	1.00	67.99	Al6S	ATOM	24212	N9	ADE	265	122.205	54.645	-38.575	1.00	81.69	A
ATOM	24160	C2'	CYT	262	124.607	60.416	-26.302	1.00	52.62	Al6S	ATOM	24213	C4	ADE	265	121.460	55.774	-38.813	1.00	81.69	A
ATOM	24161	O2'	CYT	262	125.220	59.674	-25.269	1.00	52.62	Al6S	ATOM	24214	N3	ADE	265	120.399	55.894	-39.625	1.00	81.69	A
ATOM	24162	C3'	CYT	262	125.551	61.444	-26.914	1.00	52.62	Al6S	ATOM	24215	C2	ADE	265	119.924	57.138	-39.596	1.00	81.69	A
ATOM	24163	O3'	CYT	262	126.877	60.944	-26.890	1.00	52.62	Al6S	ATOM	24216	N1	ADE	265	120.358	58.194	-38.903	1.00	81.69	A
ATOM	24164	P	CYT	263	127.526	60.316	-28.211	1.00	62.06	Al6S	ATOM	24217	C6	ADE	265	121.432	58.041	-38.101	1.00	81.69	A
ATOM	24165	O1P	CYT	263	128.904	59.969	-27.787	1.00	59.09	Al6S	ATOM	24218	N6	ADE	265	121.875	59.098	-37.418	1.00	81.69	A
ATOM	24166	O2P	CYT	263	127.319	61.205	-29.386	1.00	59.09	Al6S	ATOM	24219	C5	ADE	265	122.025	56.767	-38.039	1.00	81.69	A
ATOM	24167	O5'	CYT	263	126.725	58.956	-28.419	1.00	62.06	Al6S	ATOM	24220	N7	ADE	265	123.110	56.277	-37.328	1.00	81.69	A
ATOM	24168	C5'	CYT	263	127.049	57.792	-27.667	1.00	62.06	Al6S	ATOM	24221	C8	ADE	265	123.175	55.019	-37.681	1.00	81.69	A
ATOM	24169	C4'	CYT	263	126.195	56.642	-28.122	1.00	62.06	Al6S	ATOM	24222	C2'	ADE	265	122.590	53.170	-40.562	1.00	85.77	A
ATOM	24170	O4'	CYT	263	124.809	56.987	-27.876	1.00	62.06	Al6S	ATOM	24223	O2'	ADE	265	121.839	52.235	-41.309	1.00	85.77	A
ATOM	24171	C1'	CYT	263	123.996	56.475	-28.914	1.00	62.06	Al6S	ATOM	24224	C3'	ADE	265	123.983	52.653	-40.245	1.00	85.77	A
ATOM	24172	N1	CYT	263	123.315	57.597	-29.566	1.00	59.09	Al6S	ATOM	24225	O3'	ADE	265	124.513	51.950	-41.358	1.00	85.77	A
ATOM	24173	C6	CYT	263	123.814	58.864	-29.487	1.00	59.09	Al6S	ATOM	24226	P	CYT	266	125.577	52.676	-42.318	1.00	68.64	A
ATOM	24174	C2	CYT	263	122.139	57.350	-30.264	1.00	59.09	Al6S	ATOM	24227	O1P	CYT	266	126.193	51.637	-43.185	1.00	78.40	A
ATOM	24175	O2	CYT	263	121.717	56.192	-30.328	1.00	59.09	Al6S	ATOM	24228	O2P	CYT	266	126.442	53.518	-41.458	1.00	78.40	A
ATOM	24176	N3	CYT	263	121.486	58.374	-30.849	1.00	59.09	Al6S	ATOM	24229	O5'	CYT	266	124.708	53.640	-43.246	1.00	68.64	A
ATOM	24177	C4	CYT	263	121.972	59.606	-30.757	1.00	59.09	Al6S	ATOM	24230	C5'	CYT	266	123.870	53.108	-44.262	1.00	68.64	A
ATOM	24178	N4	CYT	263	121.295	60.581	-31.345	1.00	59.09	Al6S	ATOM	24231	C4'	CYT	266	122.847	54.130	-44.684	1.00	68.64	A
ATOM	24179	C5	CYT	263	123.176	59.890	-30.059	1.00	59.09	Al6S	ATOM	24232	O4'	CYT	266	122.057	54.537	-43.531	1.00	68.64	A
ATOM	24180	C2'	CYT	263	124.902	55.701	-29.867	1.00	62.06	Al6S	ATOM	24233	C1'	CYT	266	121.690	55.902	-43.662	1.00	68.64	A
ATOM	24181	O2'	CYT	263	124.889	54.328	-29.521	1.00	62.06	Al6S	ATOM	24234	N1	CYT	266	122.317	56.659	-42.573	1.00	78.40	A
ATOM	24182	C3'	CYT	263	126.242	56.375	-29.613	1.00	62.06	Al6S	ATOM	24235	C6	CYT	266	123.316	56.114	-41.820	1.00	78.40	A
ATOM	24183	O3'	CYT	263	127.320	55.524	-29.972	1.00	62.06	Al6S	ATOM	24236	C2	CYT	266	121.882	57.964	-42.331	1.00	78.40	A
ATOM	24184	P	CYT	264	127.856	55.534	-31.489	1.00	68.29	Al6S	ATOM	24237	O2	CYT	266	120.964	58.423	-43.022	1.00	78.40	A
ATOM	24185	O1P	CYT	264	129.029	54.633	-31.560	1.00	65.00	Al6S	ATOM	24238	N3	CYT	266	122.470	58.688	-41.353	1.00	78.40	A
ATOM	24186	O2P	CYT	264	127.997	56.954	-31.909	1.00	65.00	Al6S	ATOM	24239	C4	CYT	266	123.450	58.149	-40.628	1.00	78.40	A

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ATOM	24240	N4	CYT	266	124.000	58.896	-39.670	1.00	78.40	Al6S	ATOM	24293	C4' ADE	269	129.153	69.321	-47.682	1.00	74.91
ATOM	24241	C5	CYT	266	123.907	56.817	-40.849	1.00	78.40	Al6S	ATOM	24294	O4' ADE	269	128.843	68.317	-46.694	1.00	74.91
ATOM	24242	C2' CYT	266	122.222	56.370	-45.016	1.00	68.64	Al6S	ATOM	24295	C1' ADE	269	129.918	68.205	-45.805	1.00	74.91	
ATOM	24243	O2' CYT	266	121.240	56.191	-46.011	1.00	68.64	Al6S	ATOM	24296	N9 ADE	269	130.082	66.812	-45.399	1.00	58.11	
ATOM	24244	C3' CYT	266	123.407	55.439	-45.198	1.00	68.64	Al6S	ATOM	24297	C4 ADE	269	130.520	66.421	-44.158	1.00	58.11	
ATOM	24245	O3' CYT	266	123.774	55.343	-46.557	1.00	68.64	Al6S	ATOM	24298	N3 ADE	269	130.832	67.215	-43.123	1.00	58.11	
ATOM	24246	P	CYT	267	124.996	56.227	-47.100	1.00	77.95	Al6S	ATOM	24299	C2 ADE	269	131.243	66.493	-42.091	1.00	58.11
ATOM	24247	O1P CYT	267	125.288	55.778	-48.489	1.00	64.50	Al6S	ATOM	24300	N1 ADE	269	131.374	65.171	-41.987	1.00	58.11	
ATOM	24248	O2P CYT	267	126.063	56.159	-46.073	1.00	64.50	Al6S	ATOM	24301	C6 ADE	269	131.057	64.404	-43.050	1.00	58.11	
ATOM	24249	O5' CYT	267	124.411	57.713	-47.142	1.00	77.95	Al6S	ATOM	24302	N6 ADE	269	131.214	63.090	-42.955	1.00	58.11	
ATOM	24250	C5' CYT	267	123.314	58.035	-47.998	1.00	77.95	Al6S	ATOM	24303	C5 ADE	269	130.592	65.044	-44.198	1.00	58.11	
ATOM	24251	C4' CYT	267	122.851	59.459	-47.774	1.00	77.95	Al6S	ATOM	24304	N7 ADE	269	130.175	64.564	-45.431	1.00	58.11	
ATOM	24252	O4' CYT	267	122.340	59.603	-46.422	1.00	77.95	Al6S	ATOM	24305	C8 ADE	269	129.879	65.652	-46.107	1.00	58.11	
ATOM	24253	C1' CYT	267	122.597	60.919	-45.954	1.00	77.95	Al6S	ATOM	24306	C2' ADE	269	131.148	68.861	-46.436	1.00	74.91	
ATOM	24254	N1 CYT	267	123.471	60.838	-44.775	1.00	64.50	Al6S	ATOM	24307	O2' ADE	269	131.498	70.014	-45.709	1.00	74.91	
ATOM	24255	C6 CYT	267	124.157	59.694	-44.479	1.00	64.50	Al6S	ATOM	24308	C3' ADE	269	130.666	69.240	-47.831	1.00	74.91	
ATOM	24256	C2 CYT	267	123.592	61.962	-43.960	1.00	64.50	Al6S	ATOM	24309	O3' ADE	269	131.291	70.507	-48.128	1.00	74.91	
ATOM	24257	O2 CYT	267	122.952	62.984	-44.255	1.00	64.50	Al6S	ATOM	24310	P	GUA	270	130.555	71.915	-47.767	1.00	58.40
ATOM	24258	N3 CYT	267	124.398	61.911	-42.873	1.00	64.50	Al6S	ATOM	24311	O1P GUA	270	129.418	72.118	-48.709	1.00	59.41	
ATOM	24259	C4 CYT	267	125.062	60.790	-42.591	1.00	64.50	Al6S	ATOM	24312	O2P GUA	270	131.590	72.978	-47.621	1.00	59.41	
ATOM	24260	N4 CYT	267	125.840	60.781	-41.507	1.00	64.50	Al6S	ATOM	24313	O5' GUA	270	129.914	71.690	-46.327	1.00	58.40	
ATOM	24261	C5 CYT	267	124.956	59.627	-43.407	1.00	64.50	Al6S	ATOM	24314	C5' GUA	270	130.163	72.578	-45.253	1.00	58.40	
ATOM	24262	C2' CYT	267	123.255	61.685	-47.102	1.00	77.95	Al6S	ATOM	24315	C4' GUA	270	129.550	72.025	-43.994	1.00	58.40	
ATOM	24263	O2' CYT	267	122.267	62.370	-47.846	1.00	77.95	Al6S	ATOM	24316	O4' GUA	270	129.957	70.641	-43.832	1.00	58.40	
ATOM	24264	C3' CYT	267	123.907	60.545	-47.875	1.00	77.95	Al6S	ATOM	24317	C1' GUA	270	130.324	70.398	-42.489	1.00	58.40	
ATOM	24265	O3' CYT	267	124.168	60.910	-49.222	1.00	77.95	Al6S	ATOM	24318	N9 GUA	270	131.776	70.217	-42.456	1.00	59.41	
ATOM	24266	P	ADE	268	125.647	61.382	-49.638	1.00	88.52	Al6S	ATOM	24319	C4 GUA	270	132.563	69.939	-41.357	1.00	59.41
ATOM	24267	O1P ADE	268	125.725	61.376	-51.126	1.00	63.58	Al6S	ATOM	24320	N3 GUA	270	132.132	69.746	-40.090	1.00	59.41	
ATOM	24268	O2P ADE	268	126.604	60.557	-48.851	1.00	63.58	Al6S	ATOM	24321	C2 GUA	270	133.137	69.532	-39.258	1.00	59.41	
ATOM	24269	O5' ADE	268	125.712	62.896	-49.145	1.00	88.52	Al6S	ATOM	24322	N2 GUA	270	132.900	69.328	-37.963	1.00	59.41	
ATOM	24270	C5' ADE	268	124.808	63.859	-49.674	1.00	88.52	Al6S	ATOM	24323	N1 GUA	270	134.452	69.505	-39.633	1.00	59.41	
ATOM	24271	C4' ADE	268	124.788	65.100	-48.813	1.00	88.52	Al6S	ATOM	24324	C6 GUA	270	134.920	69.700	-40.924	1.00	59.41	
ATOM	24272	O4' ADE	268	124.413	64.737	-47.458	1.00	88.52	Al6S	ATOM	24325	O6 GUA	270	136.137	69.667	-41.151	1.00	59.41	
ATOM	24273	C1' ADE	268	125.030	65.629	-46.543	1.00	88.52	Al6S	ATOM	24326	C5 GUA	270	133.858	69.928	-41.832	1.00	59.41	
ATOM	24274	N9 ADE	268	125.842	64.851	-45.608	1.00	63.58	Al6S	ATOM	24327	N7 GUA	270	133.883	70.160	-43.197	1.00	59.41	
ATOM	24275	C4 ADE	268	126.400	65.320	-44.441	1.00	63.58	Al6S	ATOM	24328	C8 GUA	270	132.632	70.321	-43.521	1.00	59.41	
ATOM	24276	N3 ADE	268	126.332	66.568	-43.946	1.00	63.58	Al6S	ATOM	24329	C2' GUA	270	129.841	71.614	-41.692	1.00	58.40	
ATOM	24277	C2 ADE	268	126.972	66.648	-42.785	1.00	63.58	Al6S	ATOM	24330	O2' GUA	270	128.500	71.427	-41.290	1.00	58.40	
ATOM	24278	N1 ADE	268	127.617	65.698	-42.108	1.00	63.58	Al6S	ATOM	24331	C3' GUA	270	129.990	72.719	-42.726	1.00	58.40	
ATOM	24279	C6 ADE	268	127.665	64.455	-42.627	1.00	63.58	Al6S	ATOM	24332	O3' GUA	270	129.162	73.844	-42.471	1.00	58.40	
ATOM	24280	N6 ADE	268	128.298	63.506	-41.939	1.00	63.58	Al6S	ATOM	24333	P	GUA	271	129.824	75.198	-41.929	1.00	50.11
ATOM	24281	C5 ADE	268	127.034	64.237	-43.863	1.00	63.58	Al6S	ATOM	24334	O1P GUA	271	128.811	76.280	-41.874	1.00	49.62	
ATOM	24282	N7 ADE	268	126.899	63.107	-44.660	1.00	63.58	Al6S	ATOM	24335	O2P GUA	271	131.072	75.413	-42.690	1.00	49.62	
ATOM	24283	C8 ADE	268	126.189	63.524	-45.682	1.00	63.58	Al6S	ATOM	24336	O5' GUA	271	130.232	74.813	-40.441	1.00	50.11	
ATOM	24284	C2' ADE	268	125.839	66.632	-47.367	1.00	88.52	Al6S	ATOM	24337	C5' GUA	271	129.239	74.435	-39.498	1.00	50.11	
ATOM	24285	O2' ADE	268	125.043	67.774	-47.626	1.00	88.52	Al6S	ATOM	24338	C4' GUA	271	129.886	73.967	-38.222	1.00	50.11	
ATOM	24286	C3' ADE	268	126.110	65.826	-48.628	1.00	88.52	Al6S	ATOM	24339	O4' GUA	271	129.886	73.967	-38.222	1.00	50.11	
ATOM	24287	O3' ADE	268	126.384	66.689	-49.722	1.00	88.52	Al6S	ATOM	24340	C1' GUA	271	130.612	72.737	-38.479	1.00	50.11	
ATOM	24288	P	ADE	269	127.871	66.760	-50.319	1.00	74.91	Al6S	ATOM	24341	N9 GUA	271	131.786	72.705	-37.679	1.00	50.11
ATOM	24289	O1P ADE	269	127.797	67.548	-51.569	1.00	58.11	Al6S	ATOM	24342	C4 GUA	271	132.942	72.725	-38.575	1.00	49.62	
ATOM	24290	O2P ADE	269	128.461	65.396	-50.340	1.00	58.11	Al6S	ATOM	24343	N3 GUA	271	134.270	72.610	-38.222	1.00	49.62	
ATOM	24291	O5' ADE	269	128.704	67.582	-49.241	1.00	74.91	Al6S	ATOM	24344	C2 GUA	271	134.748	72.430	-36.976	1.00	49.62	
ATOM	24292	C5' ADE	269	128.399	68.935	-48.922	1.00	74.91	Al6S	ATOM	24345	N2 GUA	271	136.070	72.394	-36.954	1.00	49.62	
															136.719	72.235	-35.794	1.00	49.62

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ATOM	24346	N1	GUA	271	136.854	72.515	-38.064	1.00	49.62	Al6S	ATOM	24399	P	ADE	274	138.984	84.064	-33.660	1.00	51.97	A
ATOM	24347	C6	GUA	271	136.386	72.690	-39.355	1.00	49.62	Al6S	ATOM	24400	O1P	ADE	274	138.109	84.829	-32.737	1.00	52.55	A
ATOM	24348	O6	GUA	271	137.185	72.786	-40.286	1.00	49.62	Al6S	ATOM	24401	O2P	ADE	274	138.603	83.926	-35.078	1.00	52.55	A
ATOM	24349	N5	GUA	271	134.974	72.736	-39.399	1.00	49.62	Al6S	ATOM	24402	O5'	ADE	274	140.460	84.660	-33.575	1.00	51.97	A
ATOM	24350	C7	GUA	271	134.113	72.899	-40.476	1.00	49.62	Al6S	ATOM	24403	C5'	ADE	274	140.881	85.441	-32.453	1.00	51.97	A
ATOM	24351	C8	GUA	271	132.922	72.883	-39.944	1.00	49.62	Al6S	ATOM	24404	C4'	ADE	274	142.173	86.156	-32.781	1.00	51.97	A
ATOM	24352	C2'	GUA	271	131.711	73.926	-36.752	1.00	50.11	Al6S	ATOM	24405	O4'	ADE	274	143.202	85.152	-32.919	1.00	51.97	A
ATOM	24353	O2'	GUA	271	130.985	73.607	-35.580	1.00	50.11	Al6S	ATOM	24406	C1'	ADE	274	144.047	85.482	-33.996	1.00	51.97	A
ATOM	24354	C3'	GUA	271	130.925	74.899	-37.611	1.00	50.11	Al6S	ATOM	24407	N9	ADE	274	144.190	84.308	-34.849	1.00	52.55	A
ATOM	24355	O3'	GUA	271	130.317	75.915	-36.807	1.00	50.11	Al6S	ATOM	24408	C4	ADE	274	145.398	83.806	-35.227	1.00	52.55	A
ATOM	24356	P	CYT	272	130.920	77.410	-36.808	1.00	48.28	Al6S	ATOM	24409	N3	ADE	274	146.595	84.309	-34.917	1.00	52.55	A
ATOM	24357	O1P	CYT	272	130.050	78.234	-35.938	1.00	47.68	Al6S	ATOM	24410	C2	ADE	274	147.551	83.554	-35.434	1.00	52.55	A
ATOM	24358	O2P	CYT	272	131.172	77.839	-38.208	1.00	47.68	Al6S	ATOM	24411	N1	ADE	274	147.445	82.430	-36.172	1.00	52.55	A
ATOM	24359	O5'	CYT	272	132.312	77.240	-36.056	1.00	48.28	Al6S	ATOM	24412	C6	ADE	274	146.216	81.958	-36.455	1.00	52.55	A
ATOM	24360	C5'	CYT	272	132.337	76.757	-34.718	1.00	48.28	Al6S	ATOM	24413	N6	ADE	274	146.114	80.849	-37.172	1.00	52.55	A
ATOM	24361	C4'	CYT	272	133.752	76.666	-34.198	1.00	48.28	Al6S	ATOM	24414	C5	ADE	274	145.125	82.668	-35.970	1.00	52.55	A
ATOM	24362	O4'	CYT	272	134.447	75.537	-34.779	1.00	48.28	Al6S	ATOM	24415	N7	ADE	274	143.759	82.464	-36.078	1.00	52.55	A
ATOM	24363	C1'	CYT	272	135.843	75.786	-34.748	1.00	48.28	Al6S	ATOM	24416	C8	ADE	274	143.243	83.469	-35.404	1.00	52.55	A
ATOM	24364	N1	CYT	272	136.346	75.746	-36.109	1.00	47.68	Al6S	ATOM	24417	C2'	ADE	274	143.539	86.753	-34.672	1.00	51.97	A
ATOM	24365	C6	CYT	272	135.519	75.925	-37.178	1.00	47.68	Al6S	ATOM	24418	O2'	ADE	274	144.392	87.824	-34.338	1.00	51.97	A
ATOM	24366	O2	CYT	272	137.693	75.555	-36.292	1.00	47.68	Al6S	ATOM	24419	C3'	ADE	274	142.123	86.897	-34.111	1.00	51.97	A
ATOM	24367	O2	CYT	272	138.395	75.352	-35.295	1.00	47.68	Al6S	ATOM	24420	O3'	ADE	274	141.772	88.301	-34.021	1.00	51.97	A
ATOM	24368	N3	CYT	272	138.204	75.589	-37.538	1.00	47.68	Al6S	ATOM	24421	P	CYT	275	141.736	89.064	-32.601	1.00	50.86	A
ATOM	24369	C4	CYT	272	137.402	75.794	-38.576	1.00	47.68	Al6S	ATOM	24422	O1P	CYT	275	141.333	90.452	-32.923	1.00	83.75	A
ATOM	24370	N4	CYT	272	137.950	75.849	-39.783	1.00	47.68	Al6S	ATOM	24423	O2P	CYT	275	143.019	88.824	-31.903	1.00	83.75	A
ATOM	24371	C5	CYT	272	136.004	75.959	-38.420	1.00	47.68	Al6S	ATOM	24424	O5'	CYT	275	140.548	88.365	-31.784	1.00	50.86	A
ATOM	24372	C2'	CYT	272	136.042	77.201	-34.209	1.00	48.28	Al6S	ATOM	24425	C5'	CYT	275	140.449	88.439	-30.338	1.00	50.86	A
ATOM	24373	O2'	CYT	272	136.354	77.176	-32.833	1.00	48.28	Al6S	ATOM	24426	C4'	CYT	275	139.004	88.246	-29.896	1.00	50.86	A
ATOM	24374	C3'	CYT	272	134.685	77.818	-34.507	1.00	48.28	Al6S	ATOM	24427	O4'	CYT	275	138.219	89.260	-30.552	1.00	50.86	A
ATOM	24375	O3'	CYT	272	134.445	78.946	-33.695	1.00	48.28	Al6S	ATOM	24428	N1	CYT	275	136.925	88.779	-30.764	1.00	50.86	A
ATOM	24376	P	GUA	273	134.828	80.393	-34.254	1.00	51.90	Al6S	ATOM	24429	C1'	CYT	275	136.431	89.278	-32.037	1.00	83.75	A
ATOM	24377	O1P	GUA	273	134.344	81.387	-33.261	1.00	55.98	Al6S	ATOM	24430	C6	CYT	275	137.283	89.580	-33.054	1.00	83.75	A
ATOM	24378	O2P	GUA	273	134.396	80.484	-35.671	1.00	55.98	Al6S	ATOM	24431	C2	CYT	275	135.059	89.423	-32.197	1.00	83.75	A
ATOM	24379	O5'	GUA	273	136.413	80.391	-34.211	1.00	51.90	Al6S	ATOM	24432	O2	CYT	275	134.318	89.178	-31.233	1.00	83.75	A
ATOM	24380	O5'	GUA	273	137.089	80.175	-32.983	1.00	51.90	Al6S	ATOM	24433	N3	CYT	275	134.571	89.828	-33.388	1.00	83.75	A
ATOM	24381	C4'	GUA	273	138.573	80.244	-33.196	1.00	51.90	Al6S	ATOM	24434	C4	CYT	275	135.408	90.093	-34.390	1.00	83.75	A
ATOM	24382	O4'	GUA	273	138.994	79.135	-34.029	1.00	51.90	Al6S	ATOM	24435	N4	CYT	275	134.889	90.455	-35.564	1.00	83.75	A
ATOM	24383	C1'	GUA	273	140.035	79.563	-34.886	1.00	51.90	Al6S	ATOM	24436	C5	CYT	275	136.819	89.988	-34.238	1.00	83.75	A
ATOM	24384	N9	GUA	273	139.590	79.409	-36.263	1.00	55.98	Al6S	ATOM	24437	C2'	CYT	275	136.930	87.253	-30.677	1.00	50.86	A
ATOM	24385	C4	GUA	273	140.403	79.360	-37.364	1.00	55.98	Al6S	ATOM	24438	O2'	CYT	275	135.905	86.825	-29.790	1.00	50.86	A
ATOM	24386	N3	GUA	273	141.746	79.458	-37.354	1.00	55.98	Al6S	ATOM	24439	C3'	CYT	275	138.373	86.907	-30.274	1.00	50.86	A
ATOM	24387	C2	GUA	273	142.257	79.368	-38.565	1.00	55.98	Al6S	ATOM	24440	O3'	CYT	275	138.208	86.013	-29.153	1.00	50.86	A
ATOM	24388	N2	GUA	273	143.586	79.448	-38.736	1.00	55.98	Al6S	ATOM	24441	P	GUA	276	139.420	85.687	-28.135	1.00	61.83	A
ATOM	24389	N1	GUA	273	141.507	79.192	-39.696	1.00	55.98	Al6S	ATOM	24442	O1P	GUA	276	138.811	84.983	-26.979	1.00	51.82	A
ATOM	24390	C6	GUA	273	140.128	79.079	-39.731	1.00	55.98	Al6S	ATOM	24443	O2P	GUA	276	140.246	86.898	-27.888	1.00	51.82	A
ATOM	24391	O6	GUA	273	139.561	78.901	-40.807	1.00	55.98	Al6S	ATOM	24444	O5'	GUA	276	140.289	84.588	-28.892	1.00	61.83	A
ATOM	24392	C5	GUA	273	139.562	79.184	-38.435	1.00	55.98	Al6S	ATOM	24445	C5'	GUA	276	139.775	83.283	-29.116	1.00	61.83	A
ATOM	24393	N7	GUA	273	138.236	79.132	-38.018	1.00	55.98	Al6S	ATOM	24446	C4'	GUA	276	140.908	82.322	-29.288	1.00	61.83	A
ATOM	24394	C8	GUA	273	138.303	79.273	-36.721	1.00	55.98	Al6S	ATOM	24447	O4'	GUA	276	141.764	82.903	-30.289	1.00	61.83	A
ATOM	24395	O2'	GUA	273	140.357	81.009	-34.521	1.00	51.90	Al6S	ATOM	24448	C1'	GUA	276	143.110	82.780	-29.899	1.00	61.83	A
ATOM	24396	C2'	GUA	273	141.372	81.007	-33.545	1.00	51.90	Al6S	ATOM	24449	N9	GUA	276	143.689	84.116	-29.848	1.00	51.82	A
ATOM	24397	C3'	GUA	273	139.022	81.470	-33.962	1.00	51.90	Al6S	ATOM	24450	C4	GUA	276	144.937	84.468	-30.282	1.00	51.82	A
ATOM	24398	O3'	GUA	273	139.140	82.578	-33.084	1.00	51.90	Al6S	ATOM	24451	N3	GUA	276	145.853	83.632	-30.804	1.00	51.82	A

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ATOM	24452	C2	GUA	276	146.968	84.264	-31.126	1.00	51.82	A16S	ATOM	24505	O3'	CYT	278	142.784	70.582	-28.715	1.00	53.66
ATOM	24453	N2	GUA	276	147.995	83.581	-31.650	1.00	51.82	A16S	ATOM	24506	P	GUA	279	143.116	70.142	-27.203	1.00	47.49
ATOM	24454	N1	GUA	276	147.158	85.608	-30.957	1.00	51.82	A16S	ATOM	24507	O1P	GUA	279	142.944	68.671	-27.168	1.00	50.01
ATOM	24455	C6	GUA	276	146.222	86.487	-30.433	1.00	51.82	A16S	ATOM	24508	O2P	GUA	279	142.369	70.993	-26.248	1.00	50.01
ATOM	24456	O6	GUA	276	146.494	87.684	-30.340	1.00	51.82	A16S	ATOM	24509	O5'	GUA	279	144.659	70.481	-27.026	1.00	47.49
ATOM	24457	C5	GUA	276	145.031	85.825	-30.073	1.00	51.82	A16S	ATOM	24510	C5'	GUA	279	145.640	69.784	-27.777	1.00	47.49
ATOM	24458	N7	GUA	276	143.865	86.319	-29.512	1.00	51.82	A16S	ATOM	24511	C4'	GUA	279	147.015	70.334	-27.482	1.00	47.49
ATOM	24459	C8	GUA	276	143.099	85.268	-29.393	1.00	51.82	A16S	ATOM	24512	O4'	GUA	279	147.142	71.683	-28.001	1.00	47.49
ATOM	24460	C2'	GUA	276	143.166	81.922	-28.633	1.00	61.83	A16S	ATOM	24513	C1'	GUA	279	148.042	72.419	-27.191	1.00	47.49
ATOM	24461	O2'	GUA	276	143.339	80.591	-29.047	1.00	61.83	A16S	ATOM	24514	N9	GUA	279	147.318	73.538	-26.603	1.00	50.01
ATOM	24462	C3'	GUA	276	141.781	82.140	-28.055	1.00	61.83	A16S	ATOM	24515	C4	GUA	279	147.865	74.578	-25.900	1.00	50.01
ATOM	24463	O3'	GUA	276	141.224	81.123	-27.182	1.00	61.83	A16S	ATOM	24516	N3	GUA	279	149.177	74.772	-25.664	1.00	50.01
ATOM	24464	P	ADE	277	141.769	79.588	-27.179	1.00	43.62	A16S	ATOM	24517	C2	GUA	279	149.392	75.852	-24.936	1.00	50.01
ATOM	24465	O1P	ADE	277	141.053	78.940	-26.064	1.00	51.35	A16S	ATOM	24518	N2	GUA	279	150.637	76.214	-24.627	1.00	50.01
ATOM	24466	O2P	ADE	277	143.254	79.499	-27.217	1.00	51.35	A16S	ATOM	24519	N1	GUA	279	148.398	76.663	-24.459	1.00	50.01
ATOM	24467	O5'	ADE	277	141.126	78.932	-28.480	1.00	43.62	A16S	ATOM	24520	C6	GUA	279	147.039	76.471	-24.677	1.00	50.01
ATOM	24468	C5'	ADE	277	139.717	78.675	-28.539	1.00	43.62	A16S	ATOM	24521	O6	GUA	279	146.220	77.241	-24.172	1.00	50.01
ATOM	24469	C4'	ADE	277	139.379	77.801	-29.731	1.00	43.62	A16S	ATOM	24522	C5	GUA	279	146.796	75.337	-25.481	1.00	50.01
ATOM	24470	O4'	ADE	277	139.861	78.431	-30.952	1.00	43.62	A16S	ATOM	24523	N7	GUA	279	145.603	74.806	-25.943	1.00	50.01
ATOM	24471	C1'	ADE	277	140.510	77.471	-31.765	1.00	43.62	A16S	ATOM	24524	C8	GUA	279	145.961	73.743	-26.607	1.00	50.01
ATOM	24472	N9	ADE	277	141.949	77.710	-31.675	1.00	51.35	A16S	ATOM	24525	C2'	GUA	279	148.548	71.458	-26.116	1.00	47.49
ATOM	24473	C4	ADE	277	142.941	76.946	-32.233	1.00	51.35	A16S	ATOM	24526	O2'	GUA	279	149.727	70.832	-26.577	1.00	47.49
ATOM	24474	N3	ADE	277	142.795	75.841	-32.980	1.00	51.35	A16S	ATOM	24527	C3'	GUA	279	147.388	70.481	-26.021	1.00	47.49
ATOM	24475	C2	ADE	277	143.979	75.356	-33.336	1.00	51.35	A16S	ATOM	24528	O3'	GUA	279	147.808	69.239	-25.487	1.00	47.49
ATOM	24476	N1	ADE	277	145.200	75.815	-33.053	1.00	51.35	A16S	ATOM	24529	P	GUA	280	147.688	68.970	-23.911	1.00	57.51
ATOM	24477	C6	ADE	277	145.314	76.929	-32.303	1.00	51.35	A16S	ATOM	24530	O1P	GUA	280	148.084	67.560	-23.669	1.00	50.47
ATOM	24478	N6	ADE	277	146.533	77.382	-32.023	1.00	51.35	A16S	ATOM	24531	O2P	GUA	280	146.357	69.433	-23.471	1.00	50.47
ATOM	24479	C5	ADE	277	144.129	77.542	-31.860	1.00	51.35	A16S	ATOM	24532	O5'	GUA	280	148.786	69.933	-23.275	1.00	57.51
ATOM	24480	N7	ADE	277	143.891	78.671	-31.092	1.00	51.35	A16S	ATOM	24533	C5'	GUA	280	150.162	69.779	-23.602	1.00	57.51
ATOM	24481	C8	ADE	277	142.587	78.726	-31.013	1.00	51.35	A16S	ATOM	24534	C4'	GUA	280	150.999	70.816	-22.885	1.00	57.51
ATOM	24482	C2'	ADE	277	140.107	76.108	-31.213	1.00	43.62	A16S	ATOM	24535	O4'	GUA	280	150.786	72.138	-23.450	1.00	57.51
ATOM	24483	O2'	ADE	277	138.874	75.747	-31.793	1.00	43.62	A16S	ATOM	24536	C1'	GUA	280	150.959	73.116	-22.435	1.00	57.51
ATOM	24484	C3'	ADE	277	139.988	76.407	-29.724	1.00	43.62	A16S	ATOM	24537	N9	GUA	280	149.704	73.835	-22.262	1.00	50.47
ATOM	24485	O3'	ADE	277	139.064	75.509	-29.124	1.00	43.62	A16S	ATOM	24538	C4	GUA	280	149.528	74.987	-21.543	1.00	50.47
ATOM	24486	P	CYT	278	139.556	74.430	-28.035	1.00	53.65	A16S	ATOM	24539	N3	GUA	280	150.498	75.683	-20.910	1.00	50.47
ATOM	24487	O1P	CYT	278	138.474	73.423	-27.982	1.00	48.02	A16S	ATOM	24540	C2	GUA	280	150.012	76.748	-20.289	1.00	50.47
ATOM	24488	O2P	CYT	278	139.952	75.146	-26.790	1.00	48.02	A16S	ATOM	24541	N2	GUA	280	150.831	77.572	-19.627	1.00	50.47
ATOM	24489	O5'	CYT	278	140.840	73.747	-28.689	1.00	53.65	A16S	ATOM	24542	N1	GUA	280	148.683	77.086	-20.277	1.00	50.47
ATOM	24490	C5'	CYT	278	140.711	72.810	-29.759	1.00	53.65	A16S	ATOM	24543	C6	GUA	280	147.674	76.380	-20.914	1.00	50.47
ATOM	24491	C4'	CYT	278	142.077	72.344	-30.225	1.00	53.65	A16S	ATOM	24544	O6	GUA	280	146.511	76.766	-20.824	1.00	50.47
ATOM	24492	O4'	CYT	278	142.777	73.421	-30.908	1.00	53.65	A16S	ATOM	24545	C5	GUA	280	148.180	75.251	-21.601	1.00	50.47
ATOM	24493	C1'	CYT	278	144.158	73.368	-30.596	1.00	53.65	A16S	ATOM	24546	N7	GUA	280	147.526	74.298	-22.365	1.00	50.47
ATOM	24494	N1	CYT	278	144.487	74.552	-29.797	1.00	48.02	A16S	ATOM	24547	C8	GUA	280	148.472	73.484	-22.742	1.00	50.47
ATOM	24495	C6	CYT	278	143.501	75.352	-29.293	1.00	48.02	A16S	ATOM	24548	C2'	GUA	280	151.315	72.372	-21.148	1.00	57.51
ATOM	24496	C2	CYT	278	145.824	74.851	-29.560	1.00	48.02	A16S	ATOM	24549	O2'	GUA	280	152.712	72.313	-21.010	1.00	57.51
ATOM	24497	O2	CYT	278	146.687	74.111	-30.032	1.00	48.02	A16S	ATOM	24550	C3'	GUA	280	150.708	71.003	-21.410	1.00	57.51
ATOM	24498	N3	CYT	278	146.142	75.940	-28.826	1.00	48.02	A16S	ATOM	24551	O3'	GUA	280	151.342	70.003	-20.633	1.00	57.51
ATOM	24499	C4	CYT	278	145.176	76.720	-28.345	1.00	48.02	A16S	ATOM	24552	P	GUA	281	150.857	69.745	-19.124	1.00	40.10
ATOM	24500	N4	CYT	278	145.528	77.793	-27.648	1.00	48.02	A16S	ATOM	24553	O1P	GUA	281	151.859	68.837	-18.501	1.00	40.37
ATOM	24501	C5	CYT	278	143.798	76.437	-28.566	1.00	48.02	A16S	ATOM	24554	O2P	GUA	281	149.417	69.362	-19.123	1.00	40.37
ATOM	24502	C2'	CYT	278	144.383	72.074	-29.821	1.00	53.65	A16S	ATOM	24555	O5'	GUA	281	151.024	71.170	-18.438	1.00	40.10
ATOM	24503	O2'	CYT	278	144.654	71.043	-30.746	1.00	53.65	A16S	ATOM	24556	C5'	GUA	281	152.315	71.666	-18.158	1.00	40.10
ATOM	24504	C3'	CYT	278	143.036	71.917	-29.130	1.00	53.65	A16S	ATOM	24557	C4'	GUA	281	152.224	72.966	-17.417	1.00	40.10

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ATOM	24558	O4' GUA	281	151.492	73.927	-18.224	1.00	40.10	A16S	ATOM	24611	N7 ADE	283	144.267	73.055	-12.351	1.00	43.67	F
ATOM	24559	C1' GUA	281	150.901	74.892	-17.373	1.00	40.10	A16S	ATOM	24612	C8 ADE	283	144.627	73.907	-11.421	1.00	43.67	F
ATOM	24560	N9 GUA	281	149.475	74.941	-17.666	1.00	40.37	A16S	ATOM	24613	C2' ADE	283	143.186	75.358	-8.689	1.00	48.03	F
ATOM	24561	C4 GUA	281	148.595	75.900	-17.237	1.00	40.37	A16S	ATOM	24614	O2' ADE	283	142.743	76.486	-7.957	1.00	48.03	F
ATOM	24562	N3 GUA	281	148.902	76.972	-16.475	1.00	40.37	A16S	ATOM	24615	C3' ADE	283	144.451	74.781	-8.075	1.00	48.03	F
ATOM	24563	C2 GUA	281	147.842	77.712	-16.221	1.00	40.37	A16S	ATOM	24616	O3' ADE	283	144.416	74.730	-6.651	1.00	48.03	F
ATOM	24564	N2 GUA	281	147.970	78.824	-15.500	1.00	40.37	A16S	ATOM	24617	P GUA	284	143.455	73.680	-5.916	1.00	43.18	F
ATOM	24565	N1 GUA	281	146.581	77.417	-16.668	1.00	40.37	A16S	ATOM	24618	O1P GUA	284	143.734	73.771	-4.465	1.00	43.01	F
ATOM	24566	C6 GUA	281	146.248	76.328	-17.464	1.00	40.37	A16S	ATOM	24619	O2P GUA	284	143.594	72.357	-6.619	1.00	43.01	F
ATOM	24567	O6 GUA	281	145.085	76.175	-17.841	1.00	40.37	A16S	ATOM	24620	O5' GUA	284	142.022	74.308	-6.186	1.00	43.18	F
ATOM	24568	C5 GUA	281	147.372	75.526	-17.742	1.00	40.37	A16S	ATOM	24621	C5' GUA	284	140.842	73.592	-5.910	1.00	43.18	F
ATOM	24569	N7 GUA	281	147.479	74.352	-18.469	1.00	40.37	A16S	ATOM	24622	C4' GUA	284	139.823	73.854	-6.985	1.00	43.18	F
ATOM	24570	C8 GUA	281	148.746	74.047	-18.403	1.00	40.37	A16S	ATOM	24623	O4' GUA	284	138.847	72.796	-6.924	1.00	43.18	F
ATOM	24571	C2' GUA	281	151.194	74.446	-15.938	1.00	40.10	A16S	ATOM	24624	C1' GUA	284	137.566	73.323	-7.135	1.00	43.18	F
ATOM	24572	O2' GUA	281	152.377	75.061	-15.496	1.00	40.10	A16S	ATOM	24625	N9 GUA	284	136.887	73.284	-5.854	1.00	43.01	F
ATOM	24573	C3' GUA	281	151.419	72.958	-16.137	1.00	40.10	A16S	ATOM	24626	C4 GUA	284	135.572	73.558	-5.629	1.00	43.01	F
ATOM	24574	O3' GUA	281	152.133	72.378	-15.061	1.00	40.10	A16S	ATOM	24627	N3 GUA	284	134.678	73.925	-6.562	1.00	43.01	F
ATOM	24575	P URI	282	151.319	71.640	-13.884	1.00	51.96	A16S	ATOM	24628	C2 GUA	284	133.479	74.099	-6.049	1.00	43.01	F
ATOM	24576	O1P URI	282	152.317	71.116	-12.917	1.00	54.65	A16S	ATOM	24629	N2 GUA	284	132.470	74.456	-6.847	1.00	43.01	F
ATOM	24577	O2P URI	282	150.324	70.714	-14.490	1.00	54.65	A16S	ATOM	24630	N1 GUA	284	133.185	73.934	-4.721	1.00	43.01	F
ATOM	24578	O5' URI	282	150.524	72.825	-13.177	1.00	51.96	A16S	ATOM	24631	C6 GUA	284	134.099	73.560	-3.744	1.00	43.01	F
ATOM	24579	C5' URI	282	151.230	73.857	-12.506	1.00	51.96	A16S	ATOM	24632	O6 GUA	284	133.734	73.440	-2.576	1.00	43.01	F
ATOM	24580	C4' URI	282	150.285	74.948	-12.082	1.00	51.96	A16S	ATOM	24633	C5 GUA	284	135.384	73.364	-4.284	1.00	43.01	F
ATOM	24581	O4' URI	282	149.728	75.602	-13.251	1.00	51.96	A16S	ATOM	24634	N7 GUA	284	136.569	72.982	-3.671	1.00	43.01	F
ATOM	24582	C1' URI	282	148.416	76.063	-12.958	1.00	51.96	A16S	ATOM	24635	C8 GUA	284	137.434	72.950	-4.644	1.00	43.01	F
ATOM	24583	N1 URI	282	147.470	75.358	-13.828	1.00	54.65	A16S	ATOM	24636	C2' GUA	284	137.768	74.730	-7.674	1.00	43.18	F
ATOM	24584	C6 URI	282	147.846	74.274	-14.577	1.00	54.65	A16S	ATOM	24637	O2' GUA	284	138.055	74.602	-9.045	1.00	43.18	F
ATOM	24585	C2 URI	282	146.176	75.817	-13.845	1.00	54.65	A16S	ATOM	24638	C3' GUA	284	139.015	75.142	-6.923	1.00	43.18	F
ATOM	24586	O2 URI	282	145.816	76.786	-13.205	1.00	54.65	A16S	ATOM	24639	O3' GUA	284	139.651	76.194	-7.640	1.00	43.18	F
ATOM	24587	N3 URI	282	145.318	75.101	-14.635	1.00	54.65	A16S	ATOM	24640	P CYT	285	139.380	77.729	-7.228	1.00	36.03	P
ATOM	24588	C4 URI	282	145.621	74.005	-15.393	1.00	54.65	A16S	ATOM	24641	O1P CYT	285	140.276	78.559	-8.052	1.00	36.63	P
ATOM	24589	O4 URI	282	144.733	73.464	-16.040	1.00	54.65	A16S	ATOM	24642	O2P CYT	285	139.453	77.825	-5.751	1.00	36.63	P
ATOM	24590	C5 URI	282	146.987	73.598	-15.337	1.00	54.65	A16S	ATOM	24643	O5' CYT	285	137.890	78.046	-7.708	1.00	36.63	P
ATOM	24591	C2' URI	282	148.139	75.700	-11.503	1.00	51.96	A16S	ATOM	24644	C5' CYT	285	137.646	78.633	-8.984	1.00	36.03	P
ATOM	24592	O2' URI	282	148.494	76.788	-10.678	1.00	51.96	A16S	ATOM	24645	C4' CYT	285	136.196	79.045	-9.118	1.00	36.03	P
ATOM	24593	C3' URI	282	149.051	74.495	-11.334	1.00	51.96	A16S	ATOM	24646	O4' CYT	285	135.367	77.883	-8.873	1.00	36.03	P
ATOM	24594	O3' URI	282	149.327	74.211	-9.976	1.00	51.96	A16S	ATOM	24647	C1' CYT	285	134.204	78.259	-8.154	1.00	36.03	P
ATOM	24595	P ADE	283	148.325	73.263	-9.160	1.00	48.03	A16S	ATOM	24648	N1 CYT	285	134.299	77.725	-6.787	1.00	36.63	P
ATOM	24596	O1P ADE	283	148.829	73.231	-7.757	1.00	43.67	A16S	ATOM	24649	C6 CYT	285	135.502	77.363	-6.252	1.00	36.63	P
ATOM	24597	O2P ADE	283	148.064	71.988	-9.885	1.00	43.67	A16S	ATOM	24650	C2 CYT	285	133.138	77.638	-6.025	1.00	36.63	P
ATOM	24598	O5' ADE	283	146.967	74.080	-9.190	1.00	48.03	A16S	ATOM	24651	O2 CYT	285	132.052	77.860	-6.564	1.00	36.63	P
ATOM	24599	C5' ADE	283	146.888	75.321	-8.527	1.00	48.03	A16S	ATOM	24652	N3 CYT	285	133.224	77.299	-4.724	1.00	36.63	P
ATOM	24600	O4' ADE	283	145.476	75.804	-8.522	1.00	48.03	A16S	ATOM	24653	C4 CYT	285	134.409	77.017	-4.189	1.00	36.63	P
ATOM	24601	C4' ADE	283	145.078	76.140	-9.874	1.00	48.03	A16S	ATOM	24654	N4 CYT	285	134.456	76.774	-2.883	1.00	36.63	P
ATOM	24602	C1' ADE	283	143.712	75.824	-10.051	1.00	48.03	A16S	ATOM	24655	C5 CYT	285	135.602	77.000	-4.970	1.00	36.63	P
ATOM	24603	N9 ADE	283	143.644	74.795	-11.077	1.00	43.67	A16S	ATOM	24656	C2' CYT	285	134.188	79.785	-8.114	1.00	36.03	P
ATOM	24604	C4 ADE	283	142.574	74.501	-11.880	1.00	43.67	A16S	ATOM	24657	O2' CYT	285	133.489	80.278	-9.232	1.00	36.03	P
ATOM	24605	N3 ADE	283	141.385	75.123	-11.911	1.00	43.67	A16S	ATOM	24658	C3' CYT	285	135.677	80.094	-8.143	1.00	36.03	P
ATOM	24606	C2 ADE	283	140.578	74.539	-12.792	1.00	43.67	A16S	ATOM	24659	O3' CYT	285	135.914	81.429	-8.588	1.00	36.03	P
ATOM	24607	N1 ADE	283	140.807	73.486	-13.580	1.00	43.67	A16S	ATOM	24660	P CYT	286	136.123	82.601	-7.507	1.00	38.02	P
ATOM	24608	C6 ADE	283	142.016	72.889	-13.525	1.00	43.67	A16S	ATOM	24661	O1P CYT	286	136.381	83.869	-8.220	1.00	44.93	P
ATOM	24609	N6 ADE	283	142.243	71.831	-14.301	1.00	43.67	A16S	ATOM	24662	O2P CYT	286	137.105	82.108	-6.506	1.00	44.93	P
ATOM	24610	C5 ADE	283	142.962	73.416	-12.642	1.00	43.67	A16S	ATOM	24663	O5' CYT	286	134.699	82.762	-6.812	1.00	38.02	P

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ATOM	24664	C5' CYT	286	133.568	83.164	-7.572	1.00 38.02	Al6S	ATOM	24717	C6	GUA	288	137.425	87.005	-2.015	1.00 51.68
ATOM	24665	C4' CYT	286	132.312	83.092	-6.738	1.00 38.02	Al6S	ATOM	24718	O6	GUA	288	137.867	87.344	-3.122	1.00 51.68
ATOM	24666	O4' CYT	286	132.107	81.737	-6.263	1.00 38.02	Al6S	ATOM	24719	C5	GUA	288	136.120	87.191	-1.486	1.00 51.68
ATOM	24667	C1' CYT	286	131.446	81.769	-5.009	1.00 38.02	Al6S	ATOM	24720	N7	GUA	288	135.012	87.814	-2.037	1.00 51.68
ATOM	24668	N1	286	132.316	81.189	-3.990	1.00 44.93	Al6S	ATOM	24721	C8	GUA	288	134.081	87.674	-1.137	1.00 51.68
ATOM	24669	C6	286	133.634	80.923	-4.232	1.00 44.93	Al6S	ATOM	24722	C2'	GUA	288	134.202	87.100	2.456	1.00 43.36
ATOM	24670	C2	286	131.770	80.959	-2.741	1.00 44.93	Al6S	ATOM	24723	O2'	GUA	288	133.782	86.228	3.492	1.00 43.36
ATOM	24671	O2	286	130.562	81.151	-2.588	1.00 44.93	Al6S	ATOM	24724	C3'	GUA	288	133.549	88.469	2.522	1.00 43.36
ATOM	24672	N3	286	132.563	80.530	-1.732	1.00 44.93	Al6S	ATOM	24725	O3'	GUA	288	133.429	88.947	3.838	1.00 43.36
ATOM	24673	C4	286	133.859	80.311	-1.958	1.00 44.93	Al6S	ATOM	24726	P	URI	289	134.267	90.228	4.266	1.00 44.20
ATOM	24674	N4	286	134.612	79.931	-0.928	1.00 44.93	Al6S	ATOM	24727	O1P	URI	289	133.904	90.643	5.642	1.00 43.71
ATOM	24675	C5	286	134.437	80.487	-3.251	1.00 44.93	Al6S	ATOM	24728	O2P	URI	289	134.121	91.196	3.152	1.00 43.71
ATOM	24676	C2'	286	131.226	83.238	-4.661	1.00 38.02	Al6S	ATOM	24729	O5'	URI	289	135.749	89.661	4.288	1.00 44.20
ATOM	24677	O2'	286	129.936	83.624	-5.060	1.00 38.02	Al6S	ATOM	24730	C5'	URI	289	136.058	88.529	5.072	1.00 44.20
ATOM	24678	C3'	286	132.334	83.897	-5.463	1.00 38.02	Al6S	ATOM	24731	C4'	URI	289	137.493	88.122	4.868	1.00 44.20
ATOM	24679	O3'	286	132.048	85.249	-5.732	1.00 38.02	Al6S	ATOM	24732	O4'	URI	289	137.674	87.474	3.586	1.00 44.20
ATOM	24680	P	287	132.468	86.360	-4.672	1.00 41.08	Al6S	ATOM	24733	C1'	URI	289	138.956	87.785	3.070	1.00 44.20
ATOM	24681	O1P	287	133.787	86.037	-4.099	1.00 40.18	Al6S	ATOM	24734	N1	URI	289	138.749	88.491	1.803	1.00 43.71
ATOM	24682	O2P	287	131.381	86.184	-3.529	1.00 41.08	Al6S	ATOM	24735	C6	URI	289	137.548	89.074	1.536	1.00 43.71
ATOM	24683	O5'	287	129.996	86.369	-3.808	1.00 41.08	Al6S	ATOM	24736	C2	URI	289	139.780	88.544	0.905	1.00 43.71
ATOM	24684	C5'	287	129.191	86.199	-2.549	1.00 41.08	Al6S	ATOM	24737	O2	URI	289	140.866	88.038	1.112	1.00 43.71
ATOM	24685	C4'	287	129.278	84.821	-2.113	1.00 41.08	Al6S	ATOM	24738	N3	URI	289	139.491	89.212	-0.253	1.00 43.71
ATOM	24686	O4'	287	129.330	84.772	-0.702	1.00 41.08	Al6S	ATOM	24739	C4	URI	289	138.298	89.816	-0.585	1.00 43.71
ATOM	24687	C1'	287	130.629	84.241	-0.329	1.00 40.18	Al6S	ATOM	24740	O4	URI	289	138.146	90.290	-1.707	1.00 43.71
ATOM	24688	N9	287	130.965	83.663	0.866	1.00 40.18	Al6S	ATOM	24741	C5	URI	289	137.296	89.718	0.407	1.00 43.71
ATOM	24689	C4	287	130.132	83.452	1.906	1.00 40.18	Al6S	ATOM	24742	C2'	URI	289	139.670	88.632	4.123	1.00 44.20
ATOM	24690	N3	287	130.752	82.893	2.926	1.00 40.18	Al6S	ATOM	24743	O2'	URI	289	140.434	87.775	4.939	1.00 44.20
ATOM	24691	C2	287	130.069	82.623	4.042	1.00 40.18	Al6S	ATOM	24744	C3'	URI	289	138.489	89.255	4.859	1.00 44.20
ATOM	24692	N2	287	132.089	82.567	2.923	1.00 40.18	Al6S	ATOM	24745	O3'	URI	289	138.797	89.607	6.192	1.00 44.20
ATOM	24693	N1	287	132.967	82.791	1.859	1.00 40.18	Al6S	ATOM	24746	P	CYT	290	139.298	91.086	6.513	1.00 38.40
ATOM	24694	C6	287	134.176	82.490	1.962	1.00 40.18	Al6S	ATOM	24747	O1P	CYT	290	139.465	91.191	7.983	1.00 41.22
ATOM	24695	O6	287	132.307	83.377	0.764	1.00 40.18	Al6S	ATOM	24748	O2P	CYT	290	138.408	92.032	5.799	1.00 41.22
ATOM	24696	C5	287	132.797	83.751	-0.475	1.00 40.18	Al6S	ATOM	24749	O5'	CYT	290	140.731	91.140	5.823	1.00 38.40
ATOM	24697	N7	287	131.767	84.250	-1.093	1.00 40.18	Al6S	ATOM	24750	C5'	CYT	290	141.846	90.499	6.418	1.00 38.40
ATOM	24698	C8	287	129.172	86.204	-0.191	1.00 41.08	Al6S	ATOM	24751	C4'	CYT	290	143.078	90.730	5.588	1.00 38.40
ATOM	24699	C2'	287	127.815	86.489	0.070	1.00 41.08	Al6S	ATOM	24752	O4'	CYT	290	142.914	90.091	4.296	1.00 38.40
ATOM	24700	O2'	287	129.694	87.007	-1.367	1.00 41.08	Al6S	ATOM	24753	C1'	CYT	290	143.590	90.849	3.307	1.00 38.40
ATOM	24701	C3'	287	129.114	88.304	-1.375	1.00 41.08	Al6S	ATOM	24754	N1	CYT	290	142.594	91.340	2.359	1.00 41.22
ATOM	24702	O3'	287	129.924	89.540	-0.753	1.00 43.36	Al6S	ATOM	24755	C6	CYT	290	141.271	91.381	2.683	1.00 41.22
ATOM	24703	P	288	128.975	90.675	-0.665	1.00 51.68	Al6S	ATOM	24756	C2	CYT	290	143.026	91.773	1.118	1.00 41.22
ATOM	24704	O1P	288	131.189	89.694	-1.511	1.00 51.68	Al6S	ATOM	24757	O2	CYT	290	144.243	91.734	0.867	1.00 41.22
ATOM	24705	O2P	288	130.308	89.063	0.710	1.00 43.36	Al6S	ATOM	24758	N3	CYT	290	142.122	92.231	0.224	1.00 41.22
ATOM	24706	O5'	288	131.551	89.418	1.285	1.00 43.36	Al6S	ATOM	24759	C4	CYT	290	140.834	92.267	0.547	1.00 41.22
ATOM	24707	C5'	288	132.176	88.213	1.934	1.00 43.36	Al6S	ATOM	24760	N4	CYT	290	139.978	92.721	-0.359	1.00 41.22
ATOM	24708	C4'	288	132.386	87.184	0.931	1.00 43.36	Al6S	ATOM	24761	C5	CYT	290	140.367	91.837	1.815	1.00 41.22
ATOM	24709	O4'	288	133.672	86.600	1.110	1.00 43.36	Al6S	ATOM	24762	C2'	CYT	290	144.275	92.005	4.029	1.00 38.40
ATOM	24710	C1'	288	134.500	86.985	-0.033	1.00 51.68	Al6S	ATOM	24763	O2'	CYT	290	145.553	91.610	4.471	1.00 38.40
ATOM	24711	N9	288	135.831	86.700	-0.237	1.00 51.68	Al6S	ATOM	24764	C3'	CYT	290	143.358	92.172	5.220	1.00 38.40
ATOM	24712	C4	288	136.644	86.050	0.614	1.00 51.68	Al6S	ATOM	24765	O3'	CYT	290	144.004	92.874	6.258	1.00 38.40
ATOM	24713	N3	288	137.866	85.899	0.119	1.00 51.68	Al6S	ATOM	24766	P	URI	291	143.691	94.436	6.441	1.00 39.09
ATOM	24714	C2	288	138.821	85.281	0.847	1.00 51.68	Al6S	ATOM	24767	O1P	URI	291	144.230	94.877	7.763	1.00 35.42
ATOM	24715	N2	288	138.247	86.340	-1.119	1.00 51.68	Al6S	ATOM	24768	O2P	URI	291	142.249	94.611	6.134	1.00 35.42
ATOM	24716	N1	288						ATOM	24769	O5'	URI	291	144.516	95.116	5.259	1.00 39.09

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ATOM	24770	C5' URI	291	145.903	94.853	5.084	1.00	39.09	Al6S	ATOM	24823	N6 ADE	293	146.856	106.977	-4.698	1.00	51.30	A
ATOM	24771	C4' URI	291	146.333	95.305	3.713	1.00	39.09	Al6S	ATOM	24824	C5 ADE	293	145.103	106.985	-3.051	1.00	51.30	A
ATOM	24772	O4' URI	291	145.616	94.534	2.718	1.00	39.09	Al6S	ATOM	24825	N7 ADE	293	145.640	106.300	-1.973	1.00	51.30	A
ATOM	24773	C1' URI	291	145.439	95.315	1.555	1.00	39.09	Al6S	ATOM	24826	C8 ADE	293	144.691	106.331	-1.075	1.00	51.30	A
ATOM	24774	N1 URI	291	144.006	95.373	1.258	1.00	35.42	Al6S	ATOM	24827	C2' ADE	293	141.237	106.232	-0.949	1.00	36.82	A
ATOM	24775	C6 URI	291	143.058	95.090	2.208	1.00	35.42	Al6S	ATOM	24828	O2' ADE	293	140.002	106.829	-0.633	1.00	36.82	A
ATOM	24776	C2 URI	291	143.649	95.738	-0.020	1.00	35.42	Al6S	ATOM	24829	C3' ADE	293	141.546	105.120	0.036	1.00	36.82	A
ATOM	24777	O2 URI	291	144.472	96.002	-0.881	1.00	35.42	Al6S	ATOM	24830	O3' ADE	293	140.332	104.478	0.403	1.00	36.82	A
ATOM	24778	N3 URI	291	142.300	95.794	-0.251	1.00	35.42	Al6S	ATOM	24831	P GUA	294	140.114	102.919	0.073	1.00	33.98	A
ATOM	24779	C4 URI	291	141.299	95.533	0.651	1.00	35.42	Al6S	ATOM	24832	O1P GUA	294	138.985	102.443	0.938	1.00	50.92	A
ATOM	24780	O4 URI	291	140.127	95.655	0.297	1.00	35.42	Al6S	ATOM	24833	O2P GUA	294	141.455	102.284	0.191	1.00	50.92	A
ATOM	24781	C5 URI	291	141.750	95.156	1.955	1.00	35.42	Al6S	ATOM	24834	O5' GUA	294	139.624	102.894	-1.439	1.00	33.98	A
ATOM	24782	C2' URI	291	146.007	96.709	1.832	1.00	39.09	Al6S	ATOM	24835	C5' GUA	294	138.419	103.532	-1.800	1.00	33.98	A
ATOM	24783	O2' URI	291	147.282	96.842	1.234	1.00	39.09	Al6S	ATOM	24836	C4' GUA	294	138.540	104.128	-3.177	1.00	33.98	A
ATOM	24784	C3' URI	291	146.003	96.744	3.358	1.00	39.09	Al6S	ATOM	24837	O4' GUA	294	139.748	104.921	-3.212	1.00	33.98	A
ATOM	24785	O3' URI	291	147.001	97.620	3.853	1.00	39.09	Al6S	ATOM	24838	C1' GUA	294	140.353	104.800	-4.479	1.00	33.98	A
ATOM	24786	P GUA	292	146.622	99.137	4.206	1.00	36.18	Al6S	ATOM	24839	N9 GUA	294	141.720	104.319	-4.300	1.00	50.92	A
ATOM	24787	O1P GUA	292	147.853	99.815	4.714	1.00	40.43	Al6S	ATOM	24840	C4 GUA	294	142.762	104.535	-5.162	1.00	50.92	A
ATOM	24788	O2P GUA	292	145.404	99.109	5.042	1.00	40.43	Al6S	ATOM	24841	N3 GUA	294	142.685	105.189	-6.336	1.00	50.92	A
ATOM	24789	O5' GUA	292	146.185	99.789	2.820	1.00	36.18	Al6S	ATOM	24842	C2 GUA	294	143.856	105.266	-6.931	1.00	50.92	A
ATOM	24790	C5' GUA	292	147.148	100.179	1.847	1.00	36.18	Al6S	ATOM	24843	N2 GUA	294	143.947	105.869	-8.116	1.00	50.92	A
ATOM	24791	O4' GUA	292	146.455	100.579	0.567	1.00	36.18	Al6S	ATOM	24844	N1 GUA	294	145.018	104.756	-6.413	1.00	50.92	A
ATOM	24792	C4' GUA	292	145.676	99.454	0.093	1.00	36.18	Al6S	ATOM	24845	C6 GUA	294	145.129	104.080	-5.205	1.00	50.92	A
ATOM	24793	C1' GUA	292	144.595	99.926	-0.693	1.00	36.18	Al6S	ATOM	24846	O6 GUA	294	146.246	103.667	-4.823	1.00	50.92	A
ATOM	24794	N9 GUA	292	143.358	99.412	-0.137	1.00	40.43	Al6S	ATOM	24847	C5 GUA	294	143.865	103.972	-4.558	1.00	50.92	A
ATOM	24795	C4 GUA	292	142.137	99.434	-0.751	1.00	40.43	Al6S	ATOM	24848	N7 GUA	294	143.514	103.377	-3.355	1.00	50.92	A
ATOM	24796	N3 GUA	292	141.893	99.871	-2.000	1.00	40.43	Al6S	ATOM	24849	C8 GUA	294	142.233	103.605	-3.244	1.00	50.92	A
ATOM	24797	C2 GUA	292	140.615	99.814	-2.299	1.00	40.43	Al6S	ATOM	24850	C2' GUA	294	139.443	103.941	-5.358	1.00	33.98	A
ATOM	24798	N2 GUA	292	140.199	100.195	-3.511	1.00	40.43	Al6S	ATOM	24851	O2' GUA	294	138.601	104.805	-6.087	1.00	33.98	A
ATOM	24799	N1 GUA	292	139.651	99.376	-1.437	1.00	40.43	Al6S	ATOM	24852	C3' GUA	294	138.674	103.135	-4.320	1.00	33.98	A
ATOM	24800	C6 GUA	292	139.882	98.914	-0.149	1.00	40.43	Al6S	ATOM	24853	O3' GUA	294	137.375	102.797	-4.800	1.00	33.98	A
ATOM	24801	O6 GUA	292	138.935	98.540	0.547	1.00	40.43	Al6S	ATOM	24854	P ADE	295	137.111	101.362	-5.466	1.00	46.06	A
ATOM	24802	C5 GUA	292	141.252	98.955	0.179	1.00	40.43	Al6S	ATOM	24855	O1P ADE	295	135.701	101.305	-5.902	1.00	38.02	A
ATOM	24803	N7 GUA	292	141.912	98.581	1.339	1.00	40.43	Al6S	ATOM	24856	O2P ADE	295	137.636	100.294	-4.574	1.00	38.02	A
ATOM	24804	C8 GUA	292	143.163	98.864	1.101	1.00	40.43	Al6S	ATOM	24857	O5' ADE	295	137.979	101.420	-6.799	1.00	46.06	A
ATOM	24805	C2' GUA	292	144.618	101.448	-0.610	1.00	36.18	Al6S	ATOM	24858	C5' ADE	295	137.436	101.922	-8.022	1.00	46.06	A
ATOM	24806	O2' GUA	292	145.308	101.971	-1.718	1.00	36.18	Al6S	ATOM	24859	C4' ADE	295	138.491	101.904	-9.107	1.00	46.06	A
ATOM	24807	C3' GUA	292	145.391	101.657	0.678	1.00	36.18	Al6S	ATOM	24860	O4' ADE	295	139.587	102.758	-8.682	1.00	46.06	A
ATOM	24808	O3' GUA	292	145.951	102.954	0.703	1.00	36.18	Al6S	ATOM	24861	C1' ADE	295	140.824	102.164	-9.037	1.00	46.06	A
ATOM	24809	P ADE	293	145.480	103.992	1.818	1.00	36.82	Al6S	ATOM	24862	N9 ADE	295	141.449	101.670	-7.811	1.00	38.02	A
ATOM	24810	O1P ADE	293	146.524	105.039	1.907	1.00	51.30	Al6S	ATOM	24863	C4 ADE	295	142.787	101.600	-7.531	1.00	38.02	A
ATOM	24811	O2P ADE	293	145.140	103.196	3.025	1.00	51.30	Al6S	ATOM	24864	N3 ADE	295	143.802	101.964	-8.322	1.00	38.02	A
ATOM	24812	C5' ADE	293	144.164	104.642	1.197	1.00	36.82	Al6S	ATOM	24865	C2 ADE	295	144.964	101.787	-7.700	1.00	38.02	A
ATOM	24813	O5' ADE	293	143.107	105.110	2.037	1.00	36.82	Al6S	ATOM	24866	N1 ADE	295	145.207	101.324	-6.466	1.00	38.02	A
ATOM	24814	C4' ADE	293	142.098	105.879	1.229	1.00	36.82	Al6S	ATOM	24867	C6 ADE	295	144.158	100.967	-5.699	1.00	38.02	A
ATOM	24815	O4' ADE	293	142.742	107.054	0.687	1.00	36.82	Al6S	ATOM	24868	N6 ADE	295	144.390	100.518	-4.462	1.00	38.02	A
ATOM	24816	C1' ADE	293	142.373	107.218	-0.671	1.00	36.82	Al6S	ATOM	24869	C5 ADE	295	142.875	101.100	-6.249	1.00	38.02	A
ATOM	24817	N9 ADE	293	143.567	106.993	-1.481	1.00	51.30	Al6S	ATOM	24870	N7 ADE	295	141.617	100.839	-5.738	1.00	38.02	A
ATOM	24818	C4 ADE	293	143.819	107.405	-2.770	1.00	51.30	Al6S	ATOM	24871	C8 ADE	295	140.811	101.192	-6.700	1.00	38.02	A
ATOM	24819	N3 ADE	293	143.007	108.095	-3.591	1.00	51.30	Al6S	ATOM	24872	C2' ADE	295	140.475	101.023	-9.981	1.00	46.06	A
ATOM	24820	C2 ADE	293	143.609	108.343	-4.752	1.00	51.30	Al6S	ATOM	24873	O2' ADE	295	140.256	101.526	-11.276	1.00	46.06	A
ATOM	24821	N1 ADE	293	144.834	108.005	-5.156	1.00	51.30	Al6S	ATOM	24874	C3' ADE	295	139.165	100.568	-9.386	1.00	46.06	A
ATOM	24822	C6 ADE	293	145.624	107.312	-4.308	1.00	51.30	Al6S	ATOM	24875	O3' ADE	295	138.483	99.772	-10.337	1.00	46.06	A

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ATOM	24876	P	GUA	296	138.414	98.173	-10.133	1.00	39.71	A16S	ATOM	24929	C1' ADE	298	146.405	89.434	-3.634	1.00	43.77	
ATOM	24877	O1P	GUA	296	137.915	97.596	-11.417	1.00	47.44	A16S	ATOM	24930	N9 ADE	298	144.994	89.692	-3.894	1.00	42.86	
ATOM	24878	O2P	GUA	296	137.678	97.906	-8.870	1.00	47.44	A16S	ATOM	24931	C4 ADE	298	143.982	89.649	-2.968	1.00	42.86	
ATOM	24879	O5'	GUA	296	139.918	97.696	-9.871	1.00	39.71	A16S	ATOM	24932	N3 ADE	298	144.093	89.427	-1.649	1.00	42.86	
ATOM	24880	C5'	GUA	296	140.906	97.786	-10.885	1.00	39.71	A16S	ATOM	24933	C2 ADE	298	142.892	89.395	-1.078	1.00	42.86	
ATOM	24881	C4'	GUA	296	142.285	97.624	-10.290	1.00	39.71	A16S	ATOM	24934	N1 ADE	298	141.688	89.549	-1.634	1.00	42.86	
ATOM	24882	O4'	GUA	296	142.410	98.466	-9.110	1.00	39.71	A16S	ATOM	24935	C6 ADE	298	141.616	89.779	-2.961	1.00	42.86	
ATOM	24883	C1'	GUA	296	143.329	97.882	-8.206	1.00	39.71	A16S	ATOM	24936	N6 ADE	298	140.419	89.924	-3.521	1.00	42.86	
ATOM	24884	N9	GUA	296	142.642	97.646	-6.940	1.00	47.44	A16S	ATOM	24937	C5 ADE	298	142.815	89.842	-3.677	1.00	42.86	
ATOM	24885	C4	GUA	296	143.222	97.308	-5.741	1.00	47.44	A16S	ATOM	24938	N7 ADE	298	143.087	90.053	-5.017	1.00	42.86	
ATOM	24886	N3	GUA	296	144.544	97.172	-5.507	1.00	47.44	A16S	ATOM	24939	C8 ADE	298	144.393	89.965	-5.091	1.00	42.86	
ATOM	24887	C2	GUA	296	144.788	96.840	-4.246	1.00	47.44	A16S	ATOM	24940	C2' ADE	298	146.624	87.924	-3.547	1.00	43.77	
ATOM	24888	N2	GUA	296	146.048	96.698	-3.813	1.00	47.44	A16S	ATOM	24941	O2' ADE	298	147.683	87.665	-2.649	1.00	43.77	
ATOM	24889	N1	GUA	296	143.814	96.632	-3.311	1.00	47.44	A16S	ATOM	24942	C3' ADE	298	146.972	87.599	-4.994	1.00	43.77	
ATOM	24890	C6	GUA	296	142.452	96.758	-3.535	1.00	47.44	A16S	ATOM	24943	O3' ADE	298	147.612	86.332	-5.096	1.00	43.77	
ATOM	24891	O6	GUA	296	141.659	96.537	-2.620	1.00	47.44	A16S	ATOM	24944	P	URI	299	146.783	85.071	-5.650	1.00	45.56
ATOM	24892	C5	GUA	296	142.175	97.136	-4.864	1.00	47.44	A16S	ATOM	24945	O1P URI	299	147.765	83.989	-5.908	1.00	53.91	
ATOM	24893	N7	GUA	296	140.964	97.380	-5.490	1.00	47.44	A16S	ATOM	24946	O2P URI	299	145.917	85.555	-6.748	1.00	53.91	
ATOM	24894	C8	GUA	296	141.290	97.684	-6.716	1.00	47.44	A16S	ATOM	24947	O5' URI	299	145.840	84.631	-4.439	1.00	45.56	
ATOM	24895	C2'	GUA	296	143.819	96.582	-8.858	1.00	39.71	A16S	ATOM	24948	C5' URI	299	146.391	84.107	-3.232	1.00	45.56	
ATOM	24896	O2'	GUA	296	144.972	96.823	-9.631	1.00	39.71	A16S	ATOM	24949	C4' URI	299	145.377	84.183	-2.110	1.00	45.56	
ATOM	24897	C3'	GUA	296	142.660	96.247	-9.779	1.00	39.71	A16S	ATOM	24950	O4' URI	299	144.902	85.552	-2.022	1.00	45.56	
ATOM	24898	O3'	GUA	296	143.137	95.434	-10.845	1.00	39.71	A16S	ATOM	24951	C1' URI	299	143.528	85.564	-1.686	1.00	45.56	
ATOM	24899	P	GUA	297	143.288	93.850	-10.636	1.00	41.67	A16S	ATOM	24952	N1 URI	299	142.786	86.102	-2.829	1.00	53.91	
ATOM	24900	O1P	GUA	297	143.882	93.288	-11.876	1.00	39.81	A16S	ATOM	24953	C6 URI	299	143.422	86.429	-3.992	1.00	53.91	
ATOM	24901	O2P	GUA	297	142.008	93.306	-10.134	1.00	39.81	A16S	ATOM	24954	C2 URI	299	141.425	86.258	-2.695	1.00	53.91	
ATOM	24902	O5'	GUA	297	144.362	93.731	-9.471	1.00	41.67	A16S	ATOM	24955	O2 URI	299	140.828	86.001	-1.672	1.00	53.91	
ATOM	24903	C5'	GUA	297	145.721	94.034	-9.721	1.00	41.67	A16S	ATOM	24956	N3 URI	299	140.788	86.735	-3.807	1.00	53.91	
ATOM	24904	C4'	GUA	297	146.534	93.778	-8.487	1.00	41.67	A16S	ATOM	24957	C4 URI	299	141.363	87.075	-5.004	1.00	53.91	
ATOM	24905	O4'	GUA	297	146.015	94.579	-7.394	1.00	41.67	A16S	ATOM	24958	O4 URI	299	140.656	87.504	-5.910	1.00	53.91	
ATOM	24906	C1'	GUA	297	146.157	93.869	-6.178	1.00	41.67	A16S	ATOM	24959	C5 URI	299	142.776	86.899	-5.056	1.00	53.91	
ATOM	24907	N9	GUA	297	144.827	93.695	-5.611	1.00	39.81	A16S	ATOM	24960	C2' URI	299	143.134	84.124	-1.371	1.00	45.56	
ATOM	24908	C4	GUA	297	144.509	93.427	-4.303	1.00	39.81	A16S	ATOM	24961	O2' URI	299	143.333	83.891	0.010	1.00	45.56	
ATOM	24909	N3	GUA	297	145.385	93.248	-3.294	1.00	39.81	A16S	ATOM	24962	C3' URI	299	144.107	83.348	-2.253	1.00	45.56	
ATOM	24910	C2	GUA	297	144.767	93.021	-2.145	1.00	39.81	A16S	ATOM	24963	O3' URI	299	144.291	82.035	-1.721	1.00	45.56	
ATOM	24911	N2	GUA	297	145.474	92.823	-1.027	1.00	39.81	A16S	ATOM	24964	P	GUA	300	143.760	80.752	-2.524	1.00	67.34
ATOM	24912	C1	GUA	297	143.405	92.976	-2.008	1.00	39.81	A16S	ATOM	24965	O1P GUA	300	144.682	79.647	-2.202	1.00	51.34	
ATOM	24913	N6	GUA	297	142.495	93.158	-3.037	1.00	39.81	A16S	ATOM	24966	O2P GUA	300	143.540	81.128	-3.929	1.00	51.34	
ATOM	24914	O6	GUA	297	141.283	93.103	-2.802	1.00	39.81	A16S	ATOM	24967	O5' GUA	300	142.339	80.416	-1.887	1.00	67.34	
ATOM	24915	C5	GUA	297	143.140	93.395	-4.263	1.00	39.81	A16S	ATOM	24968	C5' GUA	300	142.162	80.169	-0.490	1.00	67.34	
ATOM	24916	N7	GUA	297	142.608	93.619	-5.517	1.00	39.81	A16S	ATOM	24969	C4' GUA	300	140.745	80.517	-0.105	1.00	67.34	
ATOM	24917	C8	GUA	297	143.645	93.789	-6.284	1.00	39.81	A16S	ATOM	24970	O4' GUA	300	140.509	81.808	-0.688	1.00	67.34	
ATOM	24918	C2'	GUA	297	146.860	92.555	-6.510	1.00	41.67	A16S	ATOM	24971	C1' GUA	300	139.160	81.920	-1.048	1.00	67.34	
ATOM	24919	O2'	GUA	297	148.253	92.750	-6.423	1.00	41.67	A16S	ATOM	24972	N9 GUA	300	139.052	82.668	-2.290	1.00	51.34	
ATOM	24920	C3'	GUA	297	146.454	92.362	-7.957	1.00	41.67	A16S	ATOM	24973	C4 GUA	300	137.932	83.307	-2.743	1.00	51.34	
ATOM	24921	O3'	GUA	297	147.385	91.540	-8.632	1.00	41.67	A16S	ATOM	24974	N3 GUA	300	136.737	83.336	-2.126	1.00	51.34	
ATOM	24922	P	ADE	298	147.017	90.021	-8.925	1.00	43.77	A16S	ATOM	24975	C2 GUA	300	135.858	84.035	-2.804	1.00	51.34	
ATOM	24923	O1P ADE	298	148.149	89.501	-9.716	1.00	42.86	A16S	ATOM	24976	N2 GUA	300	134.616	84.173	-2.348	1.00	51.34		
ATOM	24924	O2P ADE	298	145.642	89.959	-9.479	1.00	42.86	A16S	ATOM	24977	N1 GUA	300	136.131	84.654	-3.985	1.00	51.34		
ATOM	24925	O5' ADE	298	146.978	89.351	-7.481	1.00	43.77	A16S	ATOM	24978	C6 GUA	300	137.356	84.640	-4.632	1.00	51.34		
ATOM	24926	C5' ADE	298	148.174	89.054	-6.788	1.00	43.77	A16S	ATOM	24979	O6 GUA	300	137.497	85.243	-5.697	1.00	51.34		
ATOM	24927	C4' ADE	298	147.888	88.765	-5.332	1.00	43.77	A16S	ATOM	24980	C5 GUA	300	138.303	83.898	-3.924	1.00	51.34		
ATOM	24928	O4' ADE	298	147.174	89.891	-4.743	1.00	43.77	A16S	ATOM	24981	N7 GUA	300	139.632	83.636	-4.212	1.00	51.34		

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ATOM	24982	C8	GUA	300	140.035	82.899	-3.216	1.00	51.34	A16S	ATOM	25035	C4' CYT	303	131.508	78.013	9.825	1.00	50.43
ATOM	24983	C2' GUA	300	138.494	80.547	-1.000	1.00	67.34	A16S	ATOM	25036	O4' CYT	303	132.282	79.166	9.397	1.00	50.43	
ATOM	24984	O2' GUA	300	137.505	80.563	0.018	1.00	67.34	A16S	ATOM	25037	C1' CYT	303	131.572	79.869	8.388	1.00	50.43	
ATOM	24985	C3' GUA	300	139.652	79.604	-0.667	1.00	67.34	A16S	ATOM	25038	N1 CYT	303	132.393	79.910	7.176	1.00	48.43	
ATOM	24986	O3' GUA	300	139.088	78.801	0.381	1.00	67.34	A16S	ATOM	25039	C6 CYT	303	133.401	79.013	6.973	1.00	48.43	
ATOM	24987	P	GUA	301	139.752	77.410	0.817	1.00	50.25	A16S	ATOM	25040	C2 CYT	303	132.117	80.897	6.221	1.00	48.43
ATOM	24988	O1P GUA	301	140.838	77.069	-0.136	1.00	111.48	A16S	ATOM	25041	O2 CYT	303	131.183	81.686	6.427	1.00	48.43	
ATOM	24989	O2P GUA	301	138.636	76.454	1.036	1.00	111.48	A16S	ATOM	25042	N3 CYT	303	132.865	80.966	5.100	1.00	48.43	
ATOM	24990	O5' GUA	301	140.368	77.756	2.237	1.00	50.25	A16S	ATOM	25043	C4 CYT	303	133.846	80.088	4.908	1.00	48.43	
ATOM	24991	C5' GUA	301	141.290	76.880	2.862	1.00	50.25	A16S	ATOM	25044	N4 CYT	303	134.554	80.194	3.788	1.00	48.43	
ATOM	24992	C4' GUA	301	141.431	77.233	4.317	1.00	50.25	A16S	ATOM	25045	C5 CYT	303	134.144	79.060	5.863	1.00	48.43	
ATOM	24993	O4' GUA	301	142.082	78.517	4.441	1.00	50.25	A16S	ATOM	25046	C2' CYT	303	130.251	79.138	8.151	1.00	50.43	
ATOM	24994	C1' GUA	301	141.527	79.223	5.535	1.00	50.25	A16S	ATOM	25047	O2' CYT	303	129.217	79.775	8.873	1.00	50.43	
ATOM	24995	N9 GUA	301	140.945	80.464	5.039	1.00	111.48	A16S	ATOM	25048	C3' CYT	303	130.591	77.738	8.646	1.00	50.43	
ATOM	24996	C4 GUA	301	140.378	81.449	5.804	1.00	111.48	A16S	ATOM	25049	O3' CYT	303	129.438	76.998	9.004	1.00	50.43	
ATOM	24997	N3 GUA	301	140.251	81.430	7.148	1.00	111.48	A16S	ATOM	25050	P	GUA	304	128.843	75.930	7.963	1.00	46.62
ATOM	24998	C2 GUA	301	139.667	82.523	7.603	1.00	111.48	A16S	ATOM	25051	O1P GUA	304	127.841	75.092	8.674	1.00	52.99	
ATOM	24999	N2 GUA	301	139.462	82.664	8.918	1.00	111.48	A16S	ATOM	25052	O2P GUA	304	129.982	75.283	7.258	1.00	52.99	
ATOM	25000	N1 GUA	301	139.243	83.556	6.802	1.00	111.48	A16S	ATOM	25053	O5' GUA	304	128.075	76.822	6.893	1.00	46.62	
ATOM	25001	C6 GUA	301	139.365	83.597	5.415	1.00	111.48	A16S	ATOM	25054	C5' GUA	304	126.873	77.493	7.232	1.00	46.62	
ATOM	25002	O6 GUA	301	138.952	84.580	4.786	1.00	111.48	A16S	ATOM	25055	C4' GUA	304	126.369	78.256	6.041	1.00	46.62	
ATOM	25003	C5 GUA	301	139.987	82.426	4.914	1.00	111.48	A16S	ATOM	25056	O4' GUA	304	127.271	79.351	5.758	1.00	46.62	
ATOM	25004	N7 GUA	301	140.295	82.058	3.612	1.00	111.48	A16S	ATOM	25057	C1' GUA	304	127.374	79.534	4.360	1.00	46.62	
ATOM	25005	C8 GUA	301	140.859	80.887	3.734	1.00	111.48	A16S	ATOM	25058	N9 GUA	304	128.764	79.301	3.982	1.00	52.99	
ATOM	25006	C2' GUA	301	140.512	78.298	6.203	1.00	50.25	A16S	ATOM	25059	C4 GUA	304	129.344	79.579	2.769	1.00	52.99	
ATOM	25007	O2' GUA	301	141.182	77.573	7.211	1.00	50.25	A16S	ATOM	25060	N3 GUA	304	128.733	80.147	1.714	1.00	52.99	
ATOM	25008	C3' GUA	301	140.111	77.415	5.037	1.00	50.25	A16S	ATOM	25061	C2 GUA	304	129.554	80.307	0.692	1.00	52.99	
ATOM	25009	O3' GUA	301	139.619	76.156	5.456	1.00	50.25	A16S	ATOM	25062	N2 GUA	304	129.107	80.892	-0.426	1.00	52.99	
ATOM	25010	P	CYT	302	138.038	75.906	5.498	1.00	60.60	A16S	ATOM	25063	N1 GUA	304	130.870	79.915	0.697	1.00	52.99
ATOM	25011	O1P CYT	302	137.456	76.596	4.312	1.00	77.67	A16S	ATOM	25064	C6 GUA	304	131.519	79.314	1.773	1.00	52.99	
ATOM	25012	O2P CYT	302	137.791	74.450	5.684	1.00	77.67	A16S	ATOM	25065	O6 GUA	304	132.715	78.986	1.675	1.00	52.99	
ATOM	25013	O5' CYT	302	137.611	76.676	6.828	1.00	60.60	A16S	ATOM	25066	C5 GUA	304	130.650	79.161	2.883	1.00	52.99	
ATOM	25014	C5' CYT	302	138.173	76.308	8.082	1.00	60.60	A16S	ATOM	25067	N7 GUA	304	130.892	78.645	4.146	1.00	52.99	
ATOM	25015	C4' CYT	302	137.599	77.146	9.197	1.00	60.60	A16S	ATOM	25068	C8 GUA	304	129.747	78.752	4.763	1.00	52.99	
ATOM	25016	O4' CYT	302	138.061	78.511	9.060	1.00	60.60	A16S	ATOM	25069	C2' GUA	304	126.391	78.559	3.715	1.00	46.62	
ATOM	25017	C1' CYT	302	137.094	79.390	9.606	1.00	60.60	A16S	ATOM	25070	O2' GUA	304	125.141	79.184	3.621	1.00	46.62	
ATOM	25018	N1 CYT	302	136.666	80.330	8.568	1.00	77.67	A16S	ATOM	25071	C3' GUA	304	126.344	77.458	4.756	1.00	46.62	
ATOM	25019	C6 CYT	302	137.029	80.162	7.263	1.00	77.67	A16S	ATOM	25072	O3' GUA	304	125.139	76.721	4.674	1.00	46.62	
ATOM	25020	C2 CYT	302	135.878	81.403	8.944	1.00	77.67	A16S	ATOM	25073	P	GUA	305	125.040	75.485	3.667	1.00	45.98
ATOM	25021	O2 CYT	302	135.574	81.523	10.139	1.00	77.67	A16S	ATOM	25074	O1P GUA	305	123.686	74.902	3.761	1.00	50.05	
ATOM	25022	N3 CYT	302	135.465	82.284	8.007	1.00	77.67	A16S	ATOM	25075	O2P GUA	305	126.224	74.630	3.875	1.00	50.05	
ATOM	25023	C4 CYT	302	135.818	82.113	6.735	1.00	77.67	A16S	ATOM	25076	O5' GUA	305	125.165	76.150	2.230	1.00	45.98	
ATOM	25024	N4 CYT	302	135.381	82.996	5.841	1.00	77.67	A16S	ATOM	25077	C5' GUA	305	124.047	76.797	1.647	1.00	45.98	
ATOM	25025	C5 CYT	302	136.633	81.024	6.323	1.00	77.67	A16S	ATOM	25078	C4' GUA	305	124.377	77.252	0.258	1.00	45.98	
ATOM	25026	C2' CYT	302	135.952	78.527	10.133	1.00	60.60	A16S	ATOM	25079	O4' GUA	305	125.549	78.105	0.313	1.00	45.98	
ATOM	25027	O2' CYT	302	136.227	78.256	11.493	1.00	60.60	A16S	ATOM	25080	C1' GUA	305	126.230	78.037	-0.931	1.00	45.98	
ATOM	25028	C3' CYT	302	136.090	77.289	9.258	1.00	60.60	A16S	ATOM	25081	N9 GUA	305	127.615	77.659	-0.685	1.00	50.05	
ATOM	25029	O3' CYT	302	135.470	76.157	9.856	1.00	60.60	A16S	ATOM	25082	C4 GUA	305	128.637	77.693	-1.604	1.00	50.05	
ATOM	25030	P	CYT	303	134.304	75.381	9.067	1.00	50.43	A16S	ATOM	25083	N3 GUA	305	128.527	78.072	-2.894	1.00	50.05
ATOM	25031	O1P CYT	303	133.840	74.230	9.878	1.00	48.43	A16S	ATOM	25084	C2 GUA	305	129.688	78.024	-3.520	1.00	50.05	
ATOM	25032	O2P CYT	303	134.814	75.156	7.692	1.00	48.43	A16S	ATOM	25085	N2 GUA	305	129.766	78.374	-4.816	1.00	50.05	
ATOM	25033	O5' CYT	303	133.107	76.425	8.989	1.00	50.43	A16S	ATOM	25086	N1 GUA	305	130.858	77.630	-2.924	1.00	50.05	
ATOM	25034	C5' CYT	303	132.455	76.886	10.166	1.00	50.43	A16S	ATOM	25087	C6 GUA	305	130.990	77.235	-1.601	1.00	50.05	

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ATOM	25088	O6	GUA	305	132.098	76.901	-1.167	1.00	50.05	Al6S	ATOM	25141	C4' ADE	308	132.838	66.464	-9.482	1.00	44.79	
ATOM	25089	C5	GUA	305	129.756	77.285	-0.921	1.00	50.05	Al6S	ATOM	25142	O4' ADE	308	133.158	67.526	-8.546	1.00	44.79	
ATOM	25090	N7	GUA	305	129.445	76.985	0.397	1.00	50.05	Al6S	ATOM	25143	C1' ADE	308	133.907	66.996	-7.467	1.00	44.79	
ATOM	25091	C8	GUA	305	128.163	77.219	0.489	1.00	50.05	Al6S	ATOM	25144	N9 ADE	308	133.112	67.131	-6.250	1.00	30.27	
ATOM	25092	C2'	GUA	305	125.501	76.996	-1.781	1.00	45.98	Al6S	ATOM	25145	C4 ADE	308	133.603	67.050	-4.976	1.00	30.27	
ATOM	25093	O2'	GUA	305	124.553	77.602	-2.638	1.00	45.98	Al6S	ATOM	25146	N3 ADE	308	134.874	66.840	-4.615	1.00	30.27	
ATOM	25094	C3'	GUA	305	124.832	76.173	-0.700	1.00	45.98	Al6S	ATOM	25147	C2 ADE	308	134.986	66.840	-3.296	1.00	30.27	
ATOM	25095	O3'	GUA	305	123.774	75.421	-1.244	1.00	45.98	Al6S	ATOM	25148	N1 ADE	308	134.044	67.013	-2.371	1.00	30.27	
ATOM	25096	P	CYT	306	123.990	73.855	-1.491	1.00	36.88	Al6S	ATOM	25149	C6 ADE	308	132.773	67.209	-2.770	1.00	30.27	
ATOM	25097	O1P	CYT	306	122.632	73.249	-1.664	1.00	41.12	Al6S	ATOM	25150	N6 ADE	308	131.833	67.368	-1.837	1.00	30.27	
ATOM	25098	O2P	CYT	306	124.886	73.383	-0.407	1.00	41.12	Al6S	ATOM	25151	C5 ADE	308	132.522	67.231	-4.142	1.00	30.27	
ATOM	25099	O5'	CYT	306	124.778	73.771	-2.865	1.00	36.88	Al6S	ATOM	25152	N7 ADE	308	131.361	67.411	-4.876	1.00	30.27	
ATOM	25100	C5'	CYT	306	124.131	74.134	-4.064	1.00	36.88	Al6S	ATOM	25153	C8 ADE	308	131.763	67.350	-6.119	1.00	30.27	
ATOM	25101	C4'	CYT	306	125.132	74.345	-5.165	1.00	36.88	Al6S	ATOM	25154	C2' ADE	308	134.193	65.536	-7.808	1.00	44.79	
ATOM	25102	O4'	CYT	306	126.092	75.360	-4.774	1.00	36.88	Al6S	ATOM	25155	O2' ADE	308	135.380	65.481	-8.566	1.00	44.79	
ATOM	25103	C1'	CYT	306	127.326	75.109	-5.418	1.00	36.88	Al6S	ATOM	25156	C3' ADE	308	132.981	65.196	-8.659	1.00	44.79	
ATOM	25104	N1	CYT	306	128.319	74.784	-4.398	1.00	41.12	Al6S	ATOM	25157	O3' ADE	308	133.209	64.055	-9.494	1.00	44.79	
ATOM	25105	C6	CYT	306	127.972	74.640	-3.089	1.00	41.12	Al6S	ATOM	25158	P	CYT	309	132.650	62.603	-9.048	1.00	38.03
ATOM	25106	C2	CYT	306	129.634	74.613	-4.797	1.00	41.12	Al6S	ATOM	25159	O1P	CYT	309	132.782	61.702	-10.220	1.00	36.37
ATOM	25107	O2	CYT	306	129.908	74.747	-5.988	1.00	41.12	Al6S	ATOM	25160	O2P	CYT	309	131.307	62.796	-8.421	1.00	36.37
ATOM	25108	N3	CYT	306	130.571	74.297	-3.886	1.00	41.12	Al6S	ATOM	25161	O5' CYT	309	133.668	62.135	-7.910	1.00	38.03	
ATOM	25109	C4	CYT	306	130.226	74.143	-2.617	1.00	41.12	Al6S	ATOM	25162	C5' CYT	309	135.032	61.907	-8.217	1.00	38.03	
ATOM	25110	N4	CYT	306	131.176	73.812	-1.761	1.00	41.12	Al6S	ATOM	25163	C4' CYT	309	135.869	61.938	-6.965	1.00	38.03	
ATOM	25111	C5	CYT	306	128.886	74.319	-2.173	1.00	41.12	Al6S	ATOM	25164	O4' CYT	309	135.583	63.157	-6.247	1.00	38.03	
ATOM	25112	C2'	CYT	306	127.083	73.903	-6.315	1.00	36.88	Al6S	ATOM	25165	C1' CYT	309	135.757	62.950	-4.858	1.00	38.03	
ATOM	25113	O2'	CYT	306	126.515	74.358	-7.522	1.00	36.88	Al6S	ATOM	25166	N1	CYT	309	134.508	63.289	-4.172	1.00	36.37
ATOM	25114	C3'	CYT	306	126.029	73.180	-5.509	1.00	36.88	Al6S	ATOM	25167	C6	CYT	309	133.348	63.443	-4.872	1.00	36.37
ATOM	25115	O3'	CYT	306	125.352	72.231	-6.303	1.00	36.88	Al6S	ATOM	25168	C2	CYT	309	134.525	63.460	-2.788	1.00	36.37
ATOM	25116	P	CYT	307	125.701	70.681	-6.135	1.00	40.13	Al6S	ATOM	25169	O2	CYT	309	135.591	63.314	-2.183	1.00	36.37
ATOM	25117	O1P	CYT	307	124.633	69.907	-6.834	1.00	33.70	Al6S	ATOM	25170	N3	CYT	309	133.382	63.786	-2.146	1.00	36.37
ATOM	25118	O2P	CYT	307	125.958	70.457	-4.700	1.00	33.70	Al6S	ATOM	25171	C4	CYT	309	132.257	63.951	-2.841	1.00	36.37
ATOM	25119	O5'	CYT	307	127.084	70.519	-6.899	1.00	40.13	Al6S	ATOM	25172	N4	CYT	309	131.159	64.297	-2.180	1.00	36.37
ATOM	25120	C5'	CYT	307	127.209	70.911	-8.259	1.00	40.13	Al6S	ATOM	25173	C5	CYT	309	132.211	63.774	-4.253	1.00	36.37
ATOM	25121	C4'	CYT	307	128.654	70.874	-8.681	1.00	40.13	Al6S	ATOM	25174	C2' CYT	309	136.185	61.503	-4.671	1.00	38.03	
ATOM	25122	O4'	CYT	307	129.412	71.833	-7.899	1.00	40.13	Al6S	ATOM	25175	O2' CYT	309	137.591	61.524	-4.657	1.00	38.03	
ATOM	25123	C1'	CYT	307	130.693	71.310	-7.628	1.00	40.13	Al6S	ATOM	25176	C3' CYT	309	135.611	60.857	-5.930	1.00	38.03	
ATOM	25124	N1	CYT	307	130.793	71.103	-6.188	1.00	33.70	Al6S	ATOM	25177	O3' CYT	309	136.278	59.639	-6.283	1.00	38.03	
ATOM	25125	C6	CYT	307	129.681	71.136	-5.398	1.00	33.70	Al6S	ATOM	25178	P	ADE	310	135.509	58.249	-6.133	1.00	53.84
ATOM	25126	C2	CYT	307	132.049	70.887	-5.631	1.00	33.70	Al6S	ATOM	25179	O1P	ADE	310	136.155	57.253	-7.008	1.00	42.46
ATOM	25127	O2	CYT	307	133.039	70.841	-6.388	1.00	33.70	Al6S	ATOM	25180	O2P	ADE	310	134.068	58.489	-6.243	1.00	42.46
ATOM	25128	N3	CYT	307	132.158	70.734	-4.289	1.00	33.70	Al6S	ATOM	25181	O5' ADE	310	135.818	57.820	-4.648	1.00	53.84	
ATOM	25129	C4	CYT	307	131.064	70.789	-3.526	1.00	33.70	Al6S	ATOM	25182	C5' ADE	310	137.156	57.717	-4.208	1.00	53.84	
ATOM	25130	N4	CYT	307	131.212	70.655	-2.216	1.00	33.70	Al6S	ATOM	25183	C4' ADE	310	137.195	57.894	-2.729	1.00	53.84	
ATOM	25131	C5	CYT	307	129.770	70.989	-4.075	1.00	33.70	Al6S	ATOM	25184	O4' ADE	310	136.308	58.971	-2.432	1.00	53.84	
ATOM	25132	C2'	CYT	307	130.816	70.018	-8.428	1.00	40.13	Al6S	ATOM	25185	C1' ADE	310	135.836	58.816	-1.134	1.00	53.84	
ATOM	25133	O2'	CYT	307	131.243	70.371	-9.726	1.00	40.13	Al6S	ATOM	25186	N9 ADE	310	134.498	59.364	-1.072	1.00	42.46	
ATOM	25134	C3'	CYT	307	129.372	69.562	-8.442	1.00	40.13	Al6S	ATOM	25187	C4 ADE	310	133.969	59.981	0.025	1.00	42.46	
ATOM	25135	O3'	CYT	307	129.120	68.662	-9.506	1.00	40.13	Al6S	ATOM	25188	N3 ADE	310	134.538	60.099	1.235	1.00	42.46	
ATOM	25136	P	ADE	308	129.018	67.095	-9.195	1.00	44.79	Al6S	ATOM	25189	C2 ADE	310	133.758	60.800	2.039	1.00	42.46	
ATOM	25137	O1P	ADE	308	128.514	66.378	-10.392	1.00	30.27	Al6S	ATOM	25190	N1 ADE	310	132.567	61.363	1.784	1.00	42.46	
ATOM	25138	O2P	ADE	308	128.292	66.981	-7.905	1.00	30.27	Al6S	ATOM	25191	C6 ADE	310	132.034	61.224	0.552	1.00	42.46	
ATOM	25139	O5'	ADE	308	130.527	66.656	-8.963	1.00	44.79	Al6S	ATOM	25192	N6 ADE	310	130.862	61.795	0.289	1.00	42.46	
ATOM	25140	C5'	ADE	308	131.464	66.714	-10.020	1.00	44.79	Al6S	ATOM	25193	C5 ADE	310	132.755	60.492	-0.383	1.00	42.46	

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ATOM	25194	N7	ADE	310	132.497	60.153	-1.703	1.00	42.46	A16S	ATOM	25247	O1P	GUA	313	140.614	58.346	-11.102	1.00	57.74	F
ATOM	25195	C8	ADE	310	133.555	59.466	-2.059	1.00	42.46	A16S	ATOM	25248	O2P	GUA	313	139.617	56.886	-9.226	1.00	57.74	F
ATOM	25196	C2'	ADE	310	136.112	57.395	-0.651	1.00	53.84	A16S	ATOM	25249	O5'	GUA	313	140.442	55.856	-11.346	1.00	63.14	F
ATOM	25197	O2'	ADE	310	137.064	57.511	0.394	1.00	53.84	A16S	ATOM	25250	C5'	GUA	313	141.113	55.866	-12.594	1.00	63.14	F
ATOM	25198	C3'	ADE	310	136.687	56.726	-1.901	1.00	53.84	A16S	ATOM	25251	C4'	GUA	313	140.754	54.645	-13.406	1.00	63.14	F
ATOM	25199	O3'	ADE	310	137.892	56.050	-1.557	1.00	53.84	A16S	ATOM	25252	O4'	GUA	313	141.113	53.448	-12.663	1.00	63.14	F
ATOM	25200	P	GUA	311	137.880	54.536	-1.039	1.00	56.14	A16S	ATOM	25253	C1'	GUA	313	140.249	52.388	-13.030	1.00	63.14	F
ATOM	25201	O1P	GUA	311	137.216	53.731	-2.095	1.00	53.21	A16S	ATOM	25254	N9	GUA	313	139.511	51.968	-11.847	1.00	57.74	F
ATOM	25202	O2P	GUA	311	137.385	54.468	0.359	1.00	53.21	A16S	ATOM	25255	N3	GUA	313	138.727	50.852	-11.750	1.00	57.74	F
ATOM	25203	O5'	GUA	311	139.436	54.227	-1.013	1.00	56.14	A16S	ATOM	25256	C4	GUA	313	138.540	49.938	-12.718	1.00	57.74	F
ATOM	25204	C5'	GUA	311	140.357	55.245	-0.649	1.00	56.14	A16S	ATOM	25257	C2	GUA	313	137.718	48.983	-12.339	1.00	57.74	F
ATOM	25205	O4'	GUA	311	141.671	55.053	-1.369	1.00	56.14	A16S	ATOM	25258	N2	GUA	313	137.434	47.991	-13.190	1.00	57.74	F
ATOM	25206	C4'	GUA	311	142.200	53.744	-1.030	1.00	56.14	A16S	ATOM	25259	N1	GUA	313	137.116	48.932	-11.102	1.00	57.74	F
ATOM	25207	C1'	GUA	311	142.881	53.197	-2.149	1.00	56.14	A16S	ATOM	25260	C6	GUA	313	137.294	49.869	-10.091	1.00	57.74	F
ATOM	25208	N9	GUA	311	142.177	51.992	-2.583	1.00	53.21	A16S	ATOM	25261	O6	GUA	313	136.699	49.741	-9.017	1.00	57.74	F
ATOM	25209	C4	GUA	311	142.532	51.187	-3.637	1.00	53.21	A16S	ATOM	25262	C5	GUA	313	138.185	50.894	-10.486	1.00	57.74	F
ATOM	25210	N3	GUA	311	143.620	51.340	-4.416	1.00	53.21	A16S	ATOM	25263	N7	GUA	313	138.641	52.004	-9.793	1.00	57.74	F
ATOM	25211	C2	GUA	311	143.673	50.434	-5.370	1.00	53.21	A16S	ATOM	25264	C8	GUA	313	139.430	52.607	-10.639	1.00	57.74	F
ATOM	25212	N2	GUA	311	144.689	50.441	-6.241	1.00	53.21	A16S	ATOM	25265	C2'	GUA	313	139.299	52.944	-14.090	1.00	63.14	F
ATOM	25213	N1	GUA	311	142.737	49.457	-5.545	1.00	53.21	A16S	ATOM	25266	O2'	GUA	313	139.830	52.712	-15.380	1.00	63.14	F
ATOM	25214	C6	GUA	311	141.609	49.278	-4.755	1.00	53.21	A16S	ATOM	25267	C3'	GUA	313	139.289	54.418	-13.714	1.00	63.14	F
ATOM	25215	O6	GUA	311	140.818	48.362	-5.010	1.00	53.21	A16S	ATOM	25268	O3'	GUA	313	138.815	55.232	-14.776	1.00	63.14	F
ATOM	25216	C5	GUA	311	141.540	50.240	-3.724	1.00	53.21	A16S	ATOM	25269	P	GUA	314	137.305	55.790	-14.725	1.00	54.51	P
ATOM	25217	N7	GUA	311	140.600	50.418	-2.719	1.00	53.21	A16S	ATOM	25270	O1P	GUA	314	137.163	56.807	-15.798	1.00	52.47	P
ATOM	25218	C8	GUA	311	141.024	51.461	-2.062	1.00	53.21	A16S	ATOM	25271	O2P	GUA	314	137.062	56.175	-13.313	1.00	52.47	P
ATOM	25219	C2'	GUA	311	142.890	54.278	-3.233	1.00	56.14	A16S	ATOM	25272	O5'	GUA	314	136.394	54.544	-15.130	1.00	54.51	P
ATOM	25220	O2'	GUA	311	144.064	55.049	-3.091	1.00	56.14	A16S	ATOM	25273	C5'	GUA	314	136.405	54.078	-16.472	1.00	54.51	P
ATOM	25221	C3'	GUA	311	141.623	55.053	-2.889	1.00	56.14	A16S	ATOM	25274	C4'	GUA	314	135.842	52.676	-16.578	1.00	54.51	P
ATOM	25222	O3'	GUA	311	141.674	56.390	-3.392	1.00	56.14	A16S	ATOM	25275	O4'	GUA	314	136.475	51.788	-15.615	1.00	54.51	P
ATOM	25223	P	GUA	312	141.012	56.751	-4.823	1.00	59.76	A16S	ATOM	25276	C1'	GUA	314	135.572	50.734	-15.288	1.00	54.51	P
ATOM	25224	O1P	GUA	312	141.204	58.219	-4.960	1.00	49.26	A16S	ATOM	25277	N9	GUA	314	135.293	50.786	-13.858	1.00	52.47	P
ATOM	25225	O2P	GUA	312	139.640	56.175	-4.929	1.00	49.26	A16S	ATOM	25278	C4	GUA	314	134.579	49.862	-13.139	1.00	52.47	P
ATOM	25226	O5'	GUA	312	141.922	56.014	-5.906	1.00	59.76	A16S	ATOM	25279	N3	GUA	314	134.025	48.737	-13.629	1.00	52.47	P
ATOM	25227	C5'	GUA	312	142.955	56.712	-6.589	1.00	59.76	A16S	ATOM	25280	C2	GUA	314	133.409	48.044	-12.688	1.00	52.47	P
ATOM	25228	C4'	GUA	312	143.368	55.957	-7.834	1.00	59.76	A16S	ATOM	25281	N2	GUA	314	132.824	46.880	-12.994	1.00	52.47	P
ATOM	25229	O4'	GUA	312	143.784	54.602	-7.481	1.00	59.76	A16S	ATOM	25282	N1	GUA	314	133.329	48.436	-11.377	1.00	52.47	P
ATOM	25230	C1'	GUA	312	143.413	53.702	-8.520	1.00	59.76	A16S	ATOM	25283	C6	GUA	314	133.882	49.595	-10.859	1.00	52.47	P
ATOM	25231	N9	GUA	312	142.385	52.801	-8.010	1.00	49.26	A16S	ATOM	25284	O6	GUA	314	133.741	49.858	-9.675	1.00	52.47	P
ATOM	25232	C4	GUA	312	141.937	51.649	-8.616	1.00	49.26	A16S	ATOM	25285	C5	GUA	314	134.559	50.337	-11.849	1.00	52.47	P
ATOM	25233	N3	GUA	312	142.386	51.140	-9.782	1.00	49.26	A16S	ATOM	25286	N7	GUA	314	135.246	51.538	-11.756	1.00	52.47	P
ATOM	25234	C2	GUA	312	141.769	50.015	-10.099	1.00	49.26	A16S	ATOM	25287	C8	GUA	314	135.666	51.764	-12.970	1.00	52.47	P
ATOM	25235	N2	GUA	312	142.105	49.369	-11.220	1.00	49.26	A16S	ATOM	25288	C2'	GUA	314	134.294	50.985	-16.094	1.00	54.51	P
ATOM	25236	N1	GUA	312	140.781	49.442	-9.340	1.00	49.26	A16S	ATOM	25289	O2'	GUA	314	134.367	50.318	-17.334	1.00	54.51	P
ATOM	25237	C6	GUA	312	140.295	49.954	-8.144	1.00	49.26	A16S	ATOM	25290	C3'	GUA	314	134.366	52.487	-16.291	1.00	54.51	P
ATOM	25238	O6	GUA	312	139.393	49.367	-7.547	1.00	49.26	A16S	ATOM	25291	O3'	GUA	314	133.601	52.841	-17.416	1.00	54.51	P
ATOM	25239	C5	GUA	312	140.957	51.154	-7.783	1.00	49.26	A16S	ATOM	25292	P	CYT	315	132.145	53.464	-17.206	1.00	58.74	A
ATOM	25240	N7	GUA	312	140.794	51.973	-6.674	1.00	49.26	A16S	ATOM	25293	O1P	CYT	315	131.653	53.897	-18.542	1.00	50.39	A
ATOM	25241	C8	GUA	312	141.662	52.935	-6.850	1.00	49.26	A16S	ATOM	25294	O2P	CYT	315	132.197	54.442	-16.085	1.00	50.39	A
ATOM	25242	C2'	GUA	312	142.854	54.559	-9.652	1.00	59.76	A16S	ATOM	25295	O5'	CYT	315	131.281	52.222	-16.710	1.00	58.74	A
ATOM	25243	O2'	GUA	312	143.920	54.958	-10.487	1.00	59.76	A16S	ATOM	25296	C5'	CYT	315	131.185	51.043	-17.492	1.00	58.74	A
ATOM	25244	C3'	GUA	312	142.276	55.721	-8.861	1.00	59.76	A16S	ATOM	25297	C4'	CYT	315	130.445	49.978	-16.730	1.00	58.74	A
ATOM	25245	O3'	GUA	312	142.056	56.852	-9.680	1.00	59.76	A16S	ATOM	25298	O4'	CYT	315	131.187	49.639	-15.533	1.00	58.74	A
ATOM	25246	P	GUA	313	140.607	57.073	-10.328	1.00	63.14	A16S	ATOM	25299	C1'	CYT	315	130.294	49.088	-14.584	1.00	58.74	A

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ATOM	25300	N1	CYT	315	130.478	49.758	-13.301	1.00	50.39	A16S	ATOM	25353	O3'	CYT	317	118.410	46.040	-11.495	1.00	47.84
ATOM	25301	C6	CYT	315	131.139	50.943	-13.203	1.00	50.39	A16S	ATOM	25354	P	URI	318	117.000	46.791	-11.474	1.00	45.06
ATOM	25302	C2	CYT	315	129.921	49.171	-12.176	1.00	50.39	A16S	ATOM	25355	O1P	URI	318	115.983	45.807	-11.941	1.00	49.98
ATOM	25303	O2	CYT	315	129.395	48.062	-12.292	1.00	50.39	A16S	ATOM	25356	O2P	URI	318	117.168	48.072	-12.201	1.00	49.98
ATOM	25304	N3	CYT	315	129.973	49.812	-10.994	1.00	50.39	A16S	ATOM	25357	O5'	URI	318	116.792	47.122	-9.928	1.00	45.06
ATOM	25305	C4	CYT	315	130.576	50.990	-10.911	1.00	50.39	A16S	ATOM	25358	C5'	URI	318	116.791	46.081	-8.953	1.00	45.06
ATOM	25306	N4	CYT	315	130.564	51.611	-9.739	1.00	50.39	A16S	ATOM	25359	C4'	URI	318	116.691	46.666	-7.563	1.00	45.06
ATOM	25307	C5	CYT	315	131.211	51.589	-12.035	1.00	50.39	A16S	ATOM	25360	O4'	URI	318	117.962	47.239	-7.168	1.00	45.06
ATOM	25308	C2'	CYT	315	128.872	49.304	-15.109	1.00	58.74	A16S	ATOM	25361	C1'	URI	318	117.740	48.374	-6.344	1.00	45.06
ATOM	25309	O2'	CYT	315	128.347	48.097	-15.628	1.00	58.74	A16S	ATOM	25362	N1	URI	318	118.376	49.533	-6.990	1.00	49.98
ATOM	25310	C3'	CYT	315	129.092	50.370	-16.172	1.00	58.74	A16S	ATOM	25363	C6	URI	318	118.457	49.625	-8.358	1.00	49.98
ATOM	25311	O3'	CYT	315	128.085	50.295	-17.164	1.00	58.74	A16S	ATOM	25364	C2	URI	318	118.898	50.524	-6.183	1.00	49.98
ATOM	25312	P	ADE	316	126.955	51.431	-17.222	1.00	55.16	A16S	ATOM	25365	O2	URI	318	118.835	50.490	-4.971	1.00	49.98
ATOM	25313	O1P	ADE	316	126.465	51.474	-18.626	1.00	54.97	A16S	ATOM	25366	N3	URI	318	119.501	51.559	-6.854	1.00	49.98
ATOM	25314	O2P	ADE	316	127.485	52.663	-16.585	1.00	54.97	A16S	ATOM	25367	C4	URI	318	119.630	51.704	-8.215	1.00	49.98
ATOM	25315	O5'	ADE	316	125.791	50.902	-16.280	1.00	55.16	A16S	ATOM	25368	O4	URI	318	120.280	52.642	-8.662	1.00	49.98
ATOM	25316	C5'	ADE	316	124.965	49.846	-16.706	1.00	55.16	A16S	ATOM	25369	C5	URI	318	119.049	50.652	-8.981	1.00	49.98
ATOM	25317	C4'	ADE	316	124.771	48.866	-15.591	1.00	55.16	A16S	ATOM	25370	C2'	URI	318	116.225	48.520	-6.175	1.00	45.06
ATOM	25318	O4'	ADE	316	125.893	48.963	-14.681	1.00	55.16	A16S	ATOM	25371	O2'	URI	318	115.809	47.865	-5.003	1.00	45.06
ATOM	25319	C1'	ADE	316	125.485	48.536	-13.400	1.00	55.16	A16S	ATOM	25372	C3'	URI	318	115.721	47.820	-7.425	1.00	45.06
ATOM	25320	N9	ADE	316	125.931	49.514	-12.406	1.00	54.97	A16S	ATOM	25373	O3'	URI	318	114.395	47.364	-7.287	1.00	45.06
ATOM	25321	C4	ADE	316	125.863	49.355	-11.042	1.00	54.97	A16S	ATOM	25374	P	GUA	319	113.193	48.323	-7.724	1.00	45.03
ATOM	25322	N3	ADE	316	125.389	48.295	-10.371	1.00	54.97	A16S	ATOM	25375	O1P	GUA	319	111.939	47.533	-7.773	1.00	58.06
ATOM	25323	C2	ADE	316	125.468	48.494	-9.066	1.00	54.97	A16S	ATOM	25376	O2P	GUA	319	113.636	49.072	-8.923	1.00	58.06
ATOM	25324	N1	ADE	316	125.936	49.548	-8.401	1.00	54.97	A16S	ATOM	25377	O5'	GUA	319	113.109	49.292	-6.483	1.00	45.03
ATOM	25325	C6	ADE	316	126.413	50.596	-9.102	1.00	54.97	A16S	ATOM	25378	C5'	GUA	319	112.489	50.542	-6.580	1.00	45.03
ATOM	25326	N6	ADE	316	126.892	51.638	-8.433	1.00	54.97	A16S	ATOM	25379	C4'	GUA	319	113.177	51.496	-5.657	1.00	45.03
ATOM	25327	C5	ADE	316	126.378	50.514	-10.500	1.00	54.97	A16S	ATOM	25380	O4'	GUA	319	114.608	51.375	-5.844	1.00	45.03
ATOM	25328	N7	ADE	316	126.775	51.390	-11.500	1.00	54.97	A16S	ATOM	25381	C1'	GUA	319	115.177	52.659	-6.007	1.00	45.03
ATOM	25329	C8	ADE	316	126.491	50.750	-12.609	1.00	54.97	A16S	ATOM	25382	N9	GUA	319	115.548	52.800	-7.411	1.00	58.06
ATOM	25330	C2'	ADE	316	123.970	48.304	-13.457	1.00	55.16	A16S	ATOM	25383	C4	GUA	319	116.486	53.651	-7.917	1.00	58.06
ATOM	25331	O2'	ADE	316	123.741	46.923	-13.648	1.00	55.16	A16S	ATOM	25384	N3	GUA	319	117.250	54.492	-7.199	1.00	58.06
ATOM	25332	C3'	ADE	316	123.577	49.102	-14.694	1.00	55.16	A16S	ATOM	25385	C2	GUA	319	118.026	55.221	-7.962	1.00	58.06
ATOM	25333	O3'	ADE	316	122.428	48.546	-15.331	1.00	55.16	A16S	ATOM	25386	N2	GUA	319	118.840	56.114	-7.406	1.00	58.06
ATOM	25334	P	CYT	317	120.958	48.898	-14.785	1.00	47.84	A16S	ATOM	25387	N1	GUA	319	118.056	55.131	-9.330	1.00	58.06
ATOM	25335	O1P	CYT	317	119.989	48.323	-15.750	1.00	50.14	A16S	ATOM	25388	C6	GUA	319	117.276	54.268	-10.096	1.00	58.06
ATOM	25336	O2P	CYT	317	120.877	50.336	-14.445	1.00	50.14	A16S	ATOM	25389	O5'	GUA	319	117.369	54.274	-11.336	1.00	58.06
ATOM	25337	O5'	CYT	317	120.872	48.093	-13.416	1.00	47.84	A16S	ATOM	25390	C5	GUA	319	116.440	53.477	-9.285	1.00	58.06
ATOM	25338	C5'	CYT	317	120.934	46.669	-13.396	1.00	47.84	A16S	ATOM	25391	N7	GUA	319	115.509	52.506	-9.631	1.00	58.06
ATOM	25339	C4'	CYT	317	120.764	46.168	-11.984	1.00	47.84	A16S	ATOM	25392	C8	GUA	319	115.009	52.128	-8.486	1.00	58.06
ATOM	25340	O4'	CYT	317	121.917	46.549	-11.197	1.00	47.84	A16S	ATOM	25393	C2'	GUA	319	114.109	53.660	-5.562	1.00	45.03
ATOM	25341	C1'	CYT	317	121.514	46.800	-9.862	1.00	47.84	A16S	ATOM	25394	O2'	GUA	319	114.203	53.835	-4.174	1.00	45.03
ATOM	25342	N1	CYT	317	121.946	48.157	-9.510	1.00	50.14	A16S	ATOM	25395	C3'	GUA	319	112.836	52.931	-5.960	1.00	45.03
ATOM	25343	C6	CYT	317	122.249	49.063	-10.484	1.00	50.14	A16S	ATOM	25396	O3'	GUA	319	111.688	53.268	-5.205	1.00	45.03
ATOM	25344	C2	CYT	317	122.034	48.513	-8.159	1.00	50.14	A16S	ATOM	25397	P	ADE	320	110.357	53.747	-5.966	1.00	47.66
ATOM	25345	O2	CYT	317	121.766	47.660	-7.286	1.00	50.14	A16S	ATOM	25398	O1P	ADE	320	110.214	52.908	-7.191	1.00	45.08
ATOM	25346	N3	CYT	317	122.408	49.777	-7.836	1.00	50.14	A16S	ATOM	25399	O2P	ADE	320	109.234	53.803	-4.976	1.00	45.08
ATOM	25347	C4	CYT	317	122.685	50.658	-8.799	1.00	50.14	A16S	ATOM	25400	O5'	ADE	320	110.735	55.242	-6.380	1.00	47.66
ATOM	25348	N4	CYT	317	123.024	51.895	-8.437	1.00	50.14	A16S	ATOM	25401	C5'	ADE	320	110.021	55.941	-7.387	1.00	47.66
ATOM	25349	C5	CYT	317	122.620	50.311	-10.176	1.00	50.14	A16S	ATOM	25402	C4'	ADE	320	110.492	57.367	-7.437	1.00	47.66
ATOM	25350	C2'	CYT	317	119.994	46.602	-9.786	1.00	47.84	A16S	ATOM	25403	O4'	ADE	320	110.188	58.011	-6.183	1.00	47.66
ATOM	25351	O2'	CYT	317	119.664	45.304	-9.339	1.00	47.84	A16S	ATOM	25404	C1'	ADE	320	111.186	58.962	-5.882	1.00	47.66
ATOM	25352	C3'	CYT	317	119.590	46.773	-11.236	1.00	47.84	A16S	ATOM	25405	N9	ADE	320	111.695	58.668	-4.552	1.00	45.08

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ATOM	25406	C4	ADE	320	112.359	59.540	-3.734	1.00	45.08	A16S	ATOM	25459	C8	ADE	322	121.187	54.589	-6.427	1.00	47.30	A1
ATOM	25407	N3	ADE	320	112.720	60.795	-4.018	1.00	45.08	A16S	ATOM	25460	C2'	ADE	322	123.442	56.287	-7.697	1.00	45.59	A1
ATOM	25408	C2	ADE	320	113.301	61.354	-2.969	1.00	45.08	A16S	ATOM	25461	O2'	ADE	322	124.816	56.029	-7.564	1.00	45.59	A1
ATOM	25409	N1	ADE	320	113.546	60.837	-1.764	1.00	45.08	A16S	ATOM	25462	C3'	ADE	322	123.132	57.581	-8.459	1.00	45.59	A1
ATOM	25410	C6	ADE	320	113.179	59.568	-1.522	1.00	45.08	A16S	ATOM	25463	O3'	ADE	322	124.385	57.949	-9.096	1.00	45.59	A1
ATOM	25411	N6	ADE	320	113.432	59.050	-0.324	1.00	45.08	A16S	ATOM	25464	P	CYT	323	125.101	59.376	-8.830	1.00	58.13	A1
ATOM	25412	C5	ADE	320	112.556	58.869	-2.546	1.00	45.08	A16S	ATOM	25465	O1P	CYT	323	125.321	59.554	-7.388	1.00	47.21	A1
ATOM	25413	N7	ADE	320	112.070	57.576	-2.627	1.00	45.08	A16S	ATOM	25466	O2P	CYT	323	124.425	60.429	-9.610	1.00	47.21	A1
ATOM	25414	C8	ADE	320	111.578	57.503	-3.841	1.00	45.08	A16S	ATOM	25467	O5'	CYT	323	126.573	59.215	-9.410	1.00	58.13	A1
ATOM	25415	C2'	ADE	320	112.243	58.895	-6.980	1.00	47.66	A16S	ATOM	25468	C5'	CYT	323	126.911	58.201	-10.355	1.00	58.13	A1
ATOM	25416	O2'	ADE	320	112.015	59.902	-7.949	1.00	47.66	A16S	ATOM	25469	C4'	CYT	323	126.795	56.849	-9.716	1.00	58.13	A1
ATOM	25417	C3'	ADE	320	111.994	57.508	-7.542	1.00	47.66	A16S	ATOM	25470	O4'	CYT	323	125.531	56.292	-10.125	1.00	58.13	A1
ATOM	25418	O3'	ADE	320	112.408	57.434	-8.888	1.00	47.66	A16S	ATOM	25471	C1'	CYT	323	125.604	54.891	-10.089	1.00	58.13	A1
ATOM	25419	P	GUA	321	113.821	56.783	-9.223	1.00	46.32	A16S	ATOM	25472	N1	CYT	323	124.856	54.376	-11.238	1.00	47.21	A1
ATOM	25420	O1P	GUA	321	113.956	56.783	-10.700	1.00	61.01	A16S	ATOM	25473	C6	CYT	323	123.604	53.844	-11.084	1.00	47.21	A1
ATOM	25421	O2P	GUA	321	113.869	55.503	-8.483	1.00	61.01	A16S	ATOM	25474	C2	CYT	323	125.443	54.439	-12.475	1.00	47.21	A1
ATOM	25422	O5'	GUA	321	114.864	57.796	-8.571	1.00	46.32	A16S	ATOM	25475	O2	CYT	323	126.590	54.913	-12.546	1.00	47.21	A1
ATOM	25423	C5'	GUA	321	115.021	59.120	-9.079	1.00	46.32	A16S	ATOM	25476	N3	CYT	323	124.762	53.983	-13.560	1.00	47.21	A1
ATOM	25424	C4'	GUA	321	115.929	59.910	-8.174	1.00	46.32	A16S	ATOM	25477	C4	CYT	323	123.540	53.461	-13.406	1.00	47.21	A1
ATOM	25425	O4'	GUA	321	115.315	59.980	-6.869	1.00	46.32	A16S	ATOM	25478	N4	CYT	323	122.904	53.012	-14.488	1.00	47.21	A1
ATOM	25426	C1'	GUA	321	116.284	59.783	-5.865	1.00	46.32	A16S	ATOM	25479	C5	CYT	323	122.917	53.375	-12.132	1.00	47.21	A1
ATOM	25427	N9	GUA	321	115.885	58.609	-5.096	1.00	61.01	A16S	ATOM	25480	C2'	CYT	323	127.067	54.476	-9.877	1.00	58.13	A1
ATOM	25428	C4	GUA	321	116.016	58.425	-3.745	1.00	61.01	A16S	ATOM	25481	O2'	CYT	323	127.198	53.979	-8.559	1.00	58.13	A1
ATOM	25429	N3	GUA	321	116.595	59.279	-2.884	1.00	61.01	A16S	ATOM	25482	C3'	CYT	323	127.810	55.791	-10.100	1.00	58.13	A1
ATOM	25430	C2	GUA	321	116.566	58.824	-1.645	1.00	61.01	A16S	ATOM	25483	O3'	CYT	323	129.005	55.973	-9.325	1.00	58.13	A1
ATOM	25431	N2	GUA	321	117.141	59.525	-0.664	1.00	61.01	A16S	ATOM	25484	P	ADE	324	129.058	55.614	-7.735	1.00	47.77	A1
ATOM	25432	N1	GUA	321	115.983	57.642	-1.278	1.00	61.01	A16S	ATOM	25485	O1P	ADE	324	129.969	56.639	-7.153	1.00	48.24	A1
ATOM	25433	C6	GUA	321	115.365	56.754	-2.149	1.00	61.01	A16S	ATOM	25486	O2P	ADE	324	129.350	54.176	-7.500	1.00	48.24	A1
ATOM	25434	O6	GUA	321	114.845	55.720	-1.712	1.00	61.01	A16S	ATOM	25487	O5'	ADE	324	127.626	55.937	-7.112	1.00	47.77	A1
ATOM	25435	C5	GUA	321	115.424	57.211	-3.482	1.00	61.01	A16S	ATOM	25488	C5'	ADE	324	127.463	57.025	-6.192	1.00	47.77	A1
ATOM	25436	N7	GUA	321	114.959	56.627	-4.648	1.00	61.01	A16S	ATOM	25489	C4'	ADE	324	127.033	56.520	-4.831	1.00	47.77	A1
ATOM	25437	C8	GUA	321	115.260	57.488	-5.580	1.00	61.01	A16S	ATOM	25490	O4'	ADE	324	125.741	55.901	-4.925	1.00	47.77	A1
ATOM	25438	C2'	GUA	321	117.655	59.731	-6.544	1.00	46.32	A16S	ATOM	25491	C1'	ADE	324	125.633	54.914	-3.933	1.00	47.77	A1
ATOM	25439	O2'	GUA	321	118.241	61.015	-6.535	1.00	46.32	A16S	ATOM	25492	N9	ADE	324	124.888	53.787	-4.455	1.00	48.24	A1
ATOM	25440	C3'	GUA	321	117.300	59.292	-7.958	1.00	46.32	A16S	ATOM	25493	C4	ADE	324	124.325	52.809	-3.691	1.00	48.24	A1
ATOM	25441	O3'	GUA	321	118.201	59.881	-8.887	1.00	46.32	A16S	ATOM	25494	N3	ADE	324	124.395	52.684	-2.358	1.00	48.24	A1
ATOM	25442	P	ADE	322	119.442	59.043	-9.462	1.00	45.59	A16S	ATOM	25495	C2	ADE	324	123.698	51.643	-1.961	1.00	48.24	A1
ATOM	25443	O1P	ADE	322	120.209	59.993	-10.295	1.00	47.30	A16S	ATOM	25496	N1	ADE	324	122.994	50.774	-2.690	1.00	48.24	A1
ATOM	25444	O2P	ADE	322	118.918	57.805	-10.086	1.00	47.30	A16S	ATOM	25497	C6	ADE	324	122.955	50.929	-4.029	1.00	48.24	A1
ATOM	25445	O5'	ADE	322	120.335	58.710	-8.176	1.00	45.59	A16S	ATOM	25498	N6	ADE	324	122.263	50.061	-4.763	1.00	48.24	A1
ATOM	25446	C5'	ADE	322	121.512	59.472	-7.863	1.00	45.59	A16S	ATOM	25499	C5	ADE	324	123.648	51.994	-4.570	1.00	48.24	A1
ATOM	25447	C4'	ADE	322	122.629	58.556	-7.401	1.00	45.59	A16S	ATOM	25500	N7	ADE	324	123.806	52.434	-5.871	1.00	48.24	A1
ATOM	25448	O4'	ADE	322	122.108	57.723	-6.349	1.00	45.59	A16S	ATOM	25501	C8	ADE	324	124.560	53.493	-5.747	1.00	48.24	A1
ATOM	25449	C1'	ADE	322	122.845	56.529	-6.311	1.00	45.59	A16S	ATOM	25502	C2'	ADE	324	127.014	54.585	-3.384	1.00	47.77	A1
ATOM	25450	N9	ADE	322	122.018	55.456	-5.772	1.00	47.30	A16S	ATOM	25503	O2'	ADE	324	127.011	54.863	-2.001	1.00	47.77	A1
ATOM	25451	C4	ADE	322	121.939	55.123	-4.449	1.00	47.30	A16S	ATOM	25504	C3'	ADE	324	127.942	55.467	-4.229	1.00	47.77	A1
ATOM	25452	N3	ADE	322	122.589	55.701	-3.429	1.00	47.30	A16S	ATOM	25505	O3'	ADE	324	128.893	56.064	-3.343	1.00	47.77	A1
ATOM	25453	C2	ADE	322	122.256	55.123	-2.273	1.00	47.30	A16S	ATOM	25506	P	CYT	325	128.754	57.616	-2.902	1.00	60.87	A1
ATOM	25454	N1	ADE	322	121.412	54.110	-2.046	1.00	47.30	A16S	ATOM	25507	O1P	CYT	325	127.378	57.855	-2.397	1.00	63.60	A1
ATOM	25455	C6	ADE	322	120.781	53.555	-3.100	1.00	47.30	A16S	ATOM	25508	O2P	CYT	325	129.332	58.513	-3.936	1.00	63.60	A1
ATOM	25456	N6	ADE	322	119.943	52.551	-2.877	1.00	47.30	A16S	ATOM	25509	O5'	CYT	325	129.695	57.695	-1.629	1.00	60.87	A1
ATOM	25457	C5	ADE	322	121.049	54.076	-4.375	1.00	47.30	A16S	ATOM	25510	C5'	CYT	325	129.578	56.728	-0.606	1.00	60.87	A1
ATOM	25458	N7	ADE	322	120.582	53.743	-5.637	1.00	47.30	A16S	ATOM	25511	C4'	CYT	325	130.940	56.297	-0.158	1.00	60.87	A1

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ATOM	25512	O4' CYT	325	131.695	57.473	0.232	1.00	60.87	Al6S	ATOM	25565	C5	GUA	327	126.724	50.564	-3.797	1.00	58.23
ATOM	25513	C1' CYT	325	132.317	57.239	1.475	1.00	60.87	Al6S	ATOM	25566	N7	GUA	327	127.413	51.244	-2.808	1.00	58.23
ATOM	25514	N1	325	131.514	57.926	2.484	1.00	63.60	Al6S	ATOM	25567	C8	GUA	327	127.101	50.619	-1.710	1.00	58.23
ATOM	25515	C6	325	130.360	58.572	2.141	1.00	63.60	Al6S	ATOM	25568	C2' GUA	327	126.680	47.385	-0.883	1.00	50.29	
ATOM	25516	C2	325	131.940	57.899	3.800	1.00	63.60	Al6S	ATOM	25569	O2' GUA	327	125.992	46.305	-0.307	1.00	50.29	
ATOM	25517	O2	325	132.998	57.317	4.067	1.00	63.60	Al6S	ATOM	25570	C3' GUA	327	127.786	47.855	0.040	1.00	50.29	
ATOM	25518	N3	325	131.194	58.505	4.751	1.00	63.60	Al6S	ATOM	25571	O3' GUA	327	128.443	46.697	0.541	1.00	50.29	
ATOM	25519	C4	325	130.064	59.123	4.413	1.00	63.60	Al6S	ATOM	25572	P	GUA	328	129.469	45.882	-0.407	1.00	40.03
ATOM	25520	N4	325	129.356	59.693	5.382	1.00	63.60	Al6S	ATOM	25573	O1P GUA	328	129.795	44.620	0.287	1.00	47.72	
ATOM	25521	C5	325	129.610	59.179	3.065	1.00	63.60	Al6S	ATOM	25574	O2P GUA	328	130.569	46.810	-0.785	1.00	47.72	
ATOM	25522	C2' CYT	325	132.277	55.726	1.688	1.00	60.87	Al6S	ATOM	25575	O5' GUA	328	128.636	45.538	-1.723	1.00	40.03	
ATOM	25523	O2' CYT	325	133.342	55.094	0.997	1.00	60.87	Al6S	ATOM	25576	C5' GUA	328	127.815	44.385	-1.794	1.00	40.03	
ATOM	25524	C3' CYT	325	130.931	55.402	1.070	1.00	60.87	Al6S	ATOM	25577	C4' GUA	328	127.459	44.076	-3.234	1.00	40.03	
ATOM	25525	O3' CYT	325	130.832	54.038	0.688	1.00	60.87	Al6S	ATOM	25578	O4' GUA	328	126.825	45.242	-3.832	1.00	40.03	
ATOM	25526	P	326	129.507	53.208	1.045	1.00	53.87	Al6S	ATOM	25579	C1' GUA	328	127.177	45.332	-5.202	1.00	40.03	
ATOM	25527	O1P GUA	326	129.494	52.023	0.146	1.00	61.91	Al6S	ATOM	25580	N9	GUA	328	127.913	46.577	-5.393	1.00	47.72
ATOM	25528	O2P GUA	326	128.333	54.130	1.069	1.00	61.91	Al6S	ATOM	25581	C4	GUA	328	128.291	47.149	-6.586	1.00	47.72
ATOM	25529	O5' GUA	326	129.771	52.688	2.525	1.00	53.87	Al6S	ATOM	25582	N3	GUA	328	128.080	46.642	-7.813	1.00	47.72
ATOM	25530	C5' GUA	326	130.915	51.898	2.823	1.00	53.87	Al6S	ATOM	25583	C2	GUA	328	128.542	47.441	-8.762	1.00	47.72
ATOM	25531	C4' GUA	326	131.087	51.756	4.317	1.00	53.87	Al6S	ATOM	25584	N2	GUA	328	128.421	47.101	-10.039	1.00	47.72
ATOM	25532	O4' GUA	326	131.407	53.047	4.906	1.00	53.87	Al6S	ATOM	25585	N1	GUA	328	129.157	48.633	-8.528	1.00	47.72
ATOM	25533	C1' GUA	326	130.864	53.118	6.220	1.00	53.87	Al6S	ATOM	25586	C6	GUA	328	129.381	49.179	-7.275	1.00	47.72
ATOM	25534	N9	326	129.916	54.231	6.276	1.00	61.91	Al6S	ATOM	25587	O6	GUA	328	129.931	50.286	-7.175	1.00	47.72
ATOM	25535	C4	326	129.237	54.677	7.383	1.00	61.91	Al6S	ATOM	25588	C5	GUA	328	128.902	48.334	-6.245	1.00	47.72
ATOM	25536	N3	326	129.309	54.153	8.622	1.00	61.91	Al6S	ATOM	25589	N7	GUA	328	128.935	48.494	-4.870	1.00	47.72
ATOM	25537	C2	326	128.530	54.794	9.477	1.00	61.91	Al6S	ATOM	25590	C8	GUA	328	128.343	47.426	-4.407	1.00	47.72
ATOM	25538	N2	326	128.455	54.395	10.753	1.00	61.91	Al6S	ATOM	25591	C2' GUA	328	127.982	44.076	-5.532	1.00	40.03	
ATOM	25539	N1	326	127.759	55.870	9.146	1.00	61.91	Al6S	ATOM	25592	O2' GUA	328	127.071	43.072	-5.930	1.00	40.03	
ATOM	25540	C6	326	127.673	56.433	7.882	1.00	61.91	Al6S	ATOM	25593	C3' GUA	328	128.610	43.766	-4.180	1.00	40.03	
ATOM	25541	O6	326	126.944	57.413	7.696	1.00	61.91	Al6S	ATOM	25594	O3' GUA	328	129.038	42.403	-4.087	1.00	40.03	
ATOM	25542	C5	326	128.489	55.744	6.948	1.00	61.91	Al6S	ATOM	25595	P	CYT	329	130.565	42.025	-4.442	1.00	49.15
ATOM	25543	N7	326	128.678	55.959	5.590	1.00	61.91	Al6S	ATOM	25596	O1P CYT	329	130.822	40.597	-4.125	1.00	62.74	
ATOM	25544	C8	326	129.531	55.039	5.236	1.00	61.91	Al6S	ATOM	25597	O2P CYT	329	131.457	43.061	-3.865	1.00	62.74	
ATOM	25545	O2' GUA	326	130.231	51.752	6.501	1.00	53.87	Al6S	ATOM	25598	O5' CYT	329	130.584	42.183	-6.021	1.00	49.15	
ATOM	25546	C2' GUA	326	131.216	50.926	7.084	1.00	53.87	Al6S	ATOM	25599	C5' CYT	329	129.764	41.363	-6.831	1.00	49.15	
ATOM	25547	O3' GUA	326	129.861	51.310	5.089	1.00	53.87	Al6S	ATOM	25600	C4' CYT	329	130.124	41.555	-8.274	1.00	49.15	
ATOM	25548	C3' GUA	326	129.676	49.911	4.988	1.00	53.87	Al6S	ATOM	25601	O4' CYT	329	129.605	42.822	-8.748	1.00	49.15	
ATOM	25549	P	327	128.297	49.331	4.397	1.00	50.29	Al6S	ATOM	25602	C1' CYT	329	130.532	43.404	-9.647	1.00	49.15	
ATOM	25550	O1P GUA	327	127.222	50.324	4.626	1.00	58.23	Al6S	ATOM	25603	N1	CYT	329	131.006	44.663	-9.053	1.00	62.74
ATOM	25551	O2P GUA	327	128.157	47.955	4.939	1.00	58.23	Al6S	ATOM	25604	C6	CYT	329	130.951	44.865	-9.894	1.00	62.74
ATOM	25552	O5' GUA	327	128.557	49.173	2.832	1.00	50.29	Al6S	ATOM	25605	C2	CYT	329	131.537	45.444	-11.114	1.00	62.74
ATOM	25553	C5' GUA	327	127.664	49.710	1.878	1.00	50.29	Al6S	ATOM	25606	O2	CYT	329	131.943	46.820	-9.362	1.00	62.74
ATOM	25554	O4' GUA	327	126.989	48.608	1.099	1.00	50.29	Al6S	ATOM	25607	N3	CYT	329	131.879	47.012	-8.047	1.00	62.74
ATOM	25555	C4' GUA	327	125.926	49.238	0.345	1.00	50.29	Al6S	ATOM	25608	C4	CYT	329	132.305	48.178	-7.567	1.00	62.74
ATOM	25556	C1' GUA	327	125.785	48.618	-0.917	1.00	50.29	Al6S	ATOM	25609	N4	CYT	329	131.371	46.014	-7.165	1.00	62.74
ATOM	25557	N9	327	126.258	49.561	-1.919	1.00	58.23	Al6S	ATOM	25610	C5	CYT	329	131.642	42.374	-9.865	1.00	49.15
ATOM	25558	C4	327	125.987	49.537	-3.261	1.00	58.23	Al6S	ATOM	25611	C2' CYT	329	131.288	41.534	-10.949	1.00	49.15	
ATOM	25559	N3	327	125.176	48.663	-3.893	1.00	58.23	Al6S	ATOM	25612	O2' CYT	329	131.611	41.638	-8.537	1.00	49.15	
ATOM	25560	C2	327	125.136	48.888	-5.193	1.00	58.23	Al6S	ATOM	25613	C3' CYT	329	132.146	40.338	-8.634	1.00	49.15	
ATOM	25561	N2	327	124.361	48.141	-5.976	1.00	58.23	Al6S	ATOM	25614	O3' CYT	329	133.709	40.105	-8.402	1.00	55.33	
ATOM	25562	N1	327	125.848	49.871	-5.817	1.00	58.23	Al6S	ATOM	25615	P	CYT	330	133.906	38.644	-8.519	1.00	52.85
ATOM	25563	C6	327	126.687	50.776	-5.183	1.00	58.23	Al6S	ATOM	25616	O1P CYT	330	134.128	40.811	-7.167	1.00	52.85	
ATOM	25564	O6	327	127.288	51.624	-5.843	1.00	58.23	Al6S	ATOM	25617	O2P CYT	330						

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ATOM	25618	O5' CYT	330	134.391	40.788	-9.669	1.00	55.33	Al6S	ATOM	25671	C2' CYT	332	146.274	46.629	-10.186	1.00	64.18	A
ATOM	25619	C5' CYT	330	134.153	40.271	-10.973	1.00	55.33	Al6S	ATOM	25672	O2' CYT	332	147.212	47.521	-10.751	1.00	64.18	A
ATOM	25620	O4' CYT	330	134.857	41.102	-12.009	1.00	55.33	Al6S	ATOM	25673	C3' CYT	332	146.399	45.221	-10.754	1.00	64.18	A
ATOM	25621	O1' CYT	330	134.210	42.390	-12.131	1.00	55.33	Al6S	ATOM	25674	O3' CYT	332	147.757	44.863	-10.965	1.00	64.18	A
ATOM	25622	C1' CYT	330	135.185	43.376	-12.430	1.00	55.33	Al6S	ATOM	25675	P ADE	333	148.551	44.027	-9.845	1.00	72.50	A
ATOM	25623	N1 CYT	330	135.217	44.337	-11.323	1.00	52.85	Al6S	ATOM	25676	O1P ADE	333	149.834	43.633	-10.475	1.00	61.82	A
ATOM	25624	C6 CYT	330	134.746	44.002	-10.087	1.00	52.85	Al6S	ATOM	25677	O2P ADE	333	147.665	42.985	-9.266	1.00	61.82	A
ATOM	25625	C2 CYT	330	135.756	45.595	-11.553	1.00	52.85	Al6S	ATOM	25678	O5' ADE	333	148.890	45.107	-8.728	1.00	72.50	A
ATOM	25626	O2 CYT	330	136.161	45.868	-12.692	1.00	52.85	Al6S	ATOM	25679	C5' ADE	333	149.762	46.191	-9.014	1.00	72.50	A
ATOM	25627	N3 CYT	330	135.828	46.479	-10.536	1.00	52.85	Al6S	ATOM	25680	C4' ADE	333	149.763	47.779	-7.779	1.00	72.50	A
ATOM	25628	C4 CYT	330	135.384	46.136	-9.330	1.00	52.85	Al6S	ATOM	25681	O4' ADE	333	148.457	47.779	-7.758	1.00	72.50	A
ATOM	25629	N4 CYT	330	135.491	47.025	-8.349	1.00	52.85	Al6S	ATOM	25682	C1' ADE	333	148.176	48.055	-6.395	1.00	72.50	A
ATOM	25630	C5 CYT	330	134.814	44.862	-9.073	1.00	52.85	Al6S	ATOM	25683	N9 ADE	333	146.924	47.391	-6.043	1.00	61.82	A
ATOM	25631	C2' CYT	330	136.533	42.661	-12.565	1.00	55.33	Al6S	ATOM	25684	C4 ADE	333	146.138	47.666	-4.953	1.00	61.82	A
ATOM	25632	O2' CYT	330	136.797	42.339	-13.916	1.00	55.33	Al6S	ATOM	25685	N3 ADE	333	146.369	48.569	-3.988	1.00	61.82	A
ATOM	25633	C3' CYT	330	136.305	41.430	-11.706	1.00	55.33	Al6S	ATOM	25686	C2 ADE	333	145.382	48.565	-3.098	1.00	61.82	A
ATOM	25634	O3' CYT	330	137.148	40.368	-12.109	1.00	55.33	Al6S	ATOM	25687	N1 ADE	333	144.274	47.822	-3.069	1.00	61.82	A
ATOM	25635	P CYT	331	138.565	40.164	-11.389	1.00	57.33	Al6S	ATOM	25688	C6 ADE	333	144.070	46.929	-4.058	1.00	61.82	A
ATOM	25636	O1P CYT	331	139.058	38.843	-11.848	1.00	71.22	Al6S	ATOM	25689	N6 ADE	333	142.957	46.200	-4.040	1.00	61.82	A
ATOM	25637	O2P CYT	331	138.429	40.433	-9.935	1.00	71.22	Al6S	ATOM	25690	C5 ADE	333	145.046	46.828	-5.056	1.00	61.82	A
ATOM	25638	O5' CYT	331	139.479	41.302	-12.023	1.00	57.33	Al6S	ATOM	25691	N7 ADE	333	145.149	46.026	-6.181	1.00	61.82	A
ATOM	25639	C5' CYT	331	139.753	41.324	-13.415	1.00	57.33	Al6S	ATOM	25692	C8 ADE	333	146.279	46.396	-6.728	1.00	61.82	A
ATOM	25640	C4' CYT	331	140.499	42.579	-13.772	1.00	57.33	Al6S	ATOM	25693	C2 ADE	333	149.382	47.598	-5.579	1.00	72.50	A
ATOM	25641	O4' CYT	331	139.623	43.723	-13.619	1.00	57.33	Al6S	ATOM	25694	O2' ADE	333	150.228	48.711	-5.371	1.00	72.50	A
ATOM	25642	C1' CYT	331	140.376	44.838	-13.164	1.00	57.33	Al6S	ATOM	25695	C3' ADE	333	149.995	46.557	-6.506	1.00	72.50	A
ATOM	25643	N1 CYT	331	139.874	45.245	-11.840	1.00	71.22	Al6S	ATOM	25696	O3' ADE	333	151.386	46.416	-6.288	1.00	72.50	A
ATOM	25644	C6 CYT	331	139.038	44.440	-11.118	1.00	71.22	Al6S	ATOM	25697	P CYT	334	151.920	45.274	-5.299	1.00	73.06	A
ATOM	25645	C2 CYT	331	140.277	46.477	-11.327	1.00	71.22	Al6S	ATOM	25698	O1P CYT	334	153.405	45.327	-5.378	1.00	57.98	A
ATOM	25646	O2 CYT	331	141.027	47.191	-12.012	1.00	71.22	Al6S	ATOM	25699	O2P CYT	334	151.208	44.003	-5.594	1.00	57.98	A
ATOM	25647	N3 CYT	331	139.842	46.863	-10.102	1.00	71.22	Al6S	ATOM	25700	O5' CYT	334	151.443	45.751	-3.853	1.00	73.06	A
ATOM	25648	C4 CYT	331	139.036	46.068	-9.402	1.00	71.22	Al6S	ATOM	25701	C5' CYT	334	151.012	46.899	-3.234	1.00	73.06	A
ATOM	25649	N4 CYT	331	138.647	46.484	-8.199	1.00	71.22	Al6S	ATOM	25702	C4' CYT	334	151.226	47.272	-2.001	1.00	73.06	A
ATOM	25650	C5 CYT	331	138.599	44.810	-9.906	1.00	71.22	Al6S	ATOM	25703	O4' CYT	334	149.886	47.669	-2.381	1.00	73.06	A
ATOM	25651	C2' CYT	331	141.836	44.394	-13.100	1.00	57.33	Al6S	ATOM	25704	C1' CYT	334	148.991	47.358	-1.329	1.00	73.06	A
ATOM	25652	O2' CYT	331	142.483	44.664	-14.327	1.00	57.33	Al6S	ATOM	25705	N1 CYT	334	147.977	46.444	-1.840	1.00	57.98	A
ATOM	25653	C3' CYT	331	141.671	42.904	-12.866	1.00	57.33	Al6S	ATOM	25706	C6 CYT	334	148.175	45.733	-2.985	1.00	57.98	A
ATOM	25654	O3' CYT	331	142.839	42.206	-13.253	1.00	57.33	Al6S	ATOM	25707	C2 CYT	334	146.805	46.308	-1.121	1.00	57.98	A
ATOM	25655	P CYT	332	143.952	41.863	-12.155	1.00	64.18	Al6S	ATOM	25708	O2 CYT	334	146.672	46.968	-0.076	1.00	57.98	A
ATOM	25656	O1P CYT	332	145.005	41.096	-12.853	1.00	52.19	Al6S	ATOM	25709	N3 CYT	334	145.849	45.465	-1.564	1.00	57.98	A
ATOM	25657	O2P CYT	332	143.280	41.277	-10.970	1.00	52.19	Al6S	ATOM	25710	C4 CYT	334	146.045	44.773	-2.682	1.00	57.98	A
ATOM	25658	O5' CYT	332	144.546	43.284	-11.755	1.00	64.18	Al6S	ATOM	25711	N4 CYT	334	145.073	43.959	-3.089	1.00	57.98	A
ATOM	25659	C5' CYT	332	145.204	44.089	-12.718	1.00	64.18	Al6S	ATOM	25712	C5 CYT	334	147.246	44.889	-3.436	1.00	57.98	A
ATOM	25660	C4' CYT	332	145.683	45.368	-12.085	1.00	64.18	Al6S	ATOM	25713	C2' CYT	334	149.793	46.684	-0.218	1.00	73.06	A
ATOM	25661	O4' CYT	332	144.556	46.226	-11.778	1.00	64.18	Al6S	ATOM	25714	O2' CYT	334	150.133	47.621	0.781	1.00	73.06	A
ATOM	25662	C1' CYT	332	144.861	47.013	-10.636	1.00	64.18	Al6S	ATOM	25715	C3' CYT	334	150.989	46.158	-0.997	1.00	73.06	A
ATOM	25663	N1 CYT	332	143.850	46.750	-9.596	1.00	52.19	Al6S	ATOM	25716	O3' CYT	334	152.105	45.983	-0.143	1.00	73.06	A
ATOM	25664	C6 CYT	332	143.093	45.612	-9.616	1.00	52.19	Al6S	ATOM	25717	P URI	335	152.332	44.571	0.582	1.00	80.36	A
ATOM	25665	C2 CYT	332	143.691	47.685	-8.565	1.00	52.19	Al6S	ATOM	25718	O1P URI	335	153.666	44.662	1.218	1.00	63.55	A
ATOM	25666	O2 CYT	332	144.370	48.725	-8.587	1.00	52.19	Al6S	ATOM	25719	O2P URI	335	152.063	43.496	-0.397	1.00	63.55	A
ATOM	25667	N3 CYT	332	142.804	47.432	-7.574	1.00	52.19	Al6S	ATOM	25720	O5' URI	335	151.205	44.506	1.709	1.00	80.36	A
ATOM	25668	C4 CYT	332	142.087	46.307	-7.590	1.00	52.19	Al6S	ATOM	25721	C5' URI	335	151.254	45.365	2.846	1.00	80.36	A
ATOM	25669	N4 CYT	332	141.244	46.092	-6.577	1.00	52.19	Al6S	ATOM	25722	C4' URI	335	150.007	45.208	3.684	1.00	80.36	A
ATOM	25670	C5 CYT	332	142.210	45.352	-8.642	1.00	52.19	Al6S	ATOM	25723	O4' URI	335	148.842	45.532	2.877	1.00	80.36	A

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ATOM	25724	C1' URI	335	147.734	44.761	3.316	1.00 80.36	A16S	ATOM	25777	P	URI	338	146.855	32.022	8.719	1.00 97.08
ATOM	25725	N1 URI	335	147.223	43.980	2.181	1.00 63.55	A16S	ATOM	25778	O1P URI	URI	338	148.000	32.805	8.195	1.00110.54
ATOM	25726	C6 URI	335	147.924	43.880	1.004	1.00 63.55	A16S	ATOM	25779	O2P URI	URI	338	147.039	31.164	9.911	1.00110.54
ATOM	25727	C2 URI	335	145.996	43.350	2.342	1.00 63.55	A16S	ATOM	25780	O5' URI	URI	338	146.288	31.138	7.520	1.00 97.08
ATOM	25728	O2 URI	335	145.347	43.400	3.383	1.00 63.55	A16S	ATOM	25781	C5' URI	URI	338	145.152	30.301	7.706	1.00 97.08
ATOM	25729	N3 URI	335	145.556	42.659	1.245	1.00 63.55	A16S	ATOM	25782	C4' URI	URI	338	144.767	29.644	6.403	1.00 97.08
ATOM	25730	C4 URI	335	146.196	42.527	0.034	1.00 63.55	A16S	ATOM	25783	O4' URI	URI	338	144.494	30.678	5.422	1.00 97.08
ATOM	25731	O4 URI	335	145.648	41.885	-0.871	1.00 63.55	A16S	ATOM	25784	C1' URI	URI	338	144.899	30.239	4.137	1.00 97.08
ATOM	25732	C5 URI	335	147.467	43.194	-0.048	1.00 63.55	A16S	ATOM	25785	N1 URI	URI	338	145.954	31.141	3.656	1.00110.54
ATOM	25733	C2' URI	335	148.215	43.873	4.462	1.00 80.36	A16S	ATOM	25786	C6 URI	URI	338	146.765	31.825	4.531	1.00110.54
ATOM	25734	O2' URI	335	147.910	44.471	5.708	1.00 80.36	A16S	ATOM	25787	C2 URI	URI	338	146.110	31.270	2.288	1.00110.54
ATOM	25735	C3' URI	335	149.708	43.802	4.174	1.00 80.36	A16S	ATOM	25788	O2 URI	URI	338	145.397	30.689	1.484	1.00110.54
ATOM	25736	O3' URI	335	150.441	43.479	5.345	1.00 80.36	A16S	ATOM	25789	N3 URI	URI	338	147.130	32.105	1.899	1.00110.54
ATOM	25737	P	CYT	150.765	41.940	5.672	1.00103.46	A16S	ATOM	25790	C4 URI	URI	338	147.988	32.811	2.723	1.00110.54
ATOM	25738	O1P	CYT	151.695	41.950	6.824	1.00 63.30	A16S	ATOM	25791	O4 URI	URI	338	148.881	33.499	2.222	1.00110.54
ATOM	25739	O2P	CYT	151.161	41.266	4.411	1.00 63.30	A16S	ATOM	25792	C5 URI	URI	338	147.750	32.633	4.124	1.00110.54
ATOM	25740	O5' URI	336	149.375	41.334	6.160	1.00103.46	A16S	ATOM	25793	C2' URI	URI	338	145.388	28.797	4.289	1.00 97.08
ATOM	25741	C5' URI	336	148.883	41.626	7.462	1.00103.46	A16S	ATOM	25794	O2' URI	URI	338	144.320	27.908	4.036	1.00 97.08
ATOM	25742	C4' URI	336	147.523	41.007	7.664	1.00103.46	A16S	ATOM	25795	C3' URI	URI	338	145.837	28.789	5.744	1.00 97.08
ATOM	25743	O4' URI	336	146.609	41.537	6.668	1.00103.46	A16S	ATOM	25796	O3' URI	URI	338	145.850	27.473	6.293	1.00 97.08
ATOM	25744	C1' URI	336	145.655	40.545	6.324	1.00103.46	A16S	ATOM	25797	P	ADE	339	147.191	26.583	6.212	1.00 98.81
ATOM	25745	N1	CYT	145.837	40.195	4.914	1.00 63.30	A16S	ATOM	25798	O1P	ADE	339	148.357	27.497	6.318	1.00113.30
ATOM	25746	C6	CYT	146.976	40.534	4.240	1.00 63.30	A16S	ATOM	25799	O2P	ADE	339	147.034	25.474	7.187	1.00113.30
ATOM	25747	C2	CYT	144.816	39.503	4.274	1.00 63.30	A16S	ATOM	25800	O5' ADE	339	147.164	25.974	4.739	1.00 98.81	
ATOM	25748	O2	CYT	143.801	39.214	4.922	1.00 63.30	A16S	ATOM	25801	C5' ADE	339	148.001	24.874	4.372	1.00 98.81	
ATOM	25749	N3	CYT	144.955	39.169	2.975	1.00 63.30	A16S	ATOM	25802	C4' ADE	339	147.161	23.751	3.811	1.00 98.81	
ATOM	25750	C4	CYT	146.064	39.507	2.319	1.00 63.30	A16S	ATOM	25803	O4' ADE	339	146.372	23.177	4.874	1.00 98.81	
ATOM	25751	N4	CYT	146.157	39.162	1.032	1.00 63.30	A16S	ATOM	25804	C1' ADE	339	145.033	23.036	4.463	1.00 98.81	
ATOM	25752	C5	CYT	147.130	40.214	2.953	1.00 63.30	A16S	ATOM	25805	N9 ADE	339	144.237	23.862	5.363	1.00113.30	
ATOM	25753	C2' URI	336	145.932	39.335	7.208	1.00103.46	A16S	ATOM	25806	C4 ADE	339	143.454	23.381	6.381	1.00113.30	
ATOM	25754	O2' URI	336	145.159	39.421	8.387	1.00103.46	A16S	ATOM	25807	N3 ADE	339	143.213	22.094	6.680	1.00113.30	
ATOM	25755	C3' URI	336	147.420	39.506	7.456	1.00103.46	A16S	ATOM	25808	C2 ADE	339	142.442	22.000	7.760	1.00113.30	
ATOM	25756	O3' URI	336	147.832	38.761	8.590	1.00103.46	A16S	ATOM	25809	N1 ADE	339	141.927	22.973	8.521	1.00113.30	
ATOM	25757	P	CYT	148.327	37.249	8.392	1.00105.04	A16S	ATOM	25810	C6 ADE	339	142.190	24.257	8.194	1.00113.30	
ATOM	25758	O1P	CYT	148.931	36.818	9.671	1.00 63.14	A16S	ATOM	25811	N6 ADE	339	141.686	25.225	8.963	1.00113.30	
ATOM	25759	O2P	CYT	149.123	37.199	7.140	1.00 63.14	A16S	ATOM	25812	C5 ADE	339	142.991	24.491	7.058	1.00113.30	
ATOM	25760	O5' URI	337	146.990	36.419	8.150	1.00105.04	A16S	ATOM	25813	N7 ADE	339	143.435	25.655	6.446	1.00113.30	
ATOM	25761	C5' URI	337	146.045	36.235	9.195	1.00105.04	A16S	ATOM	25814	C8 ADE	339	144.156	25.227	5.439	1.00113.30	
ATOM	25762	C4' URI	337	144.917	35.354	8.722	1.00105.04	A16S	ATOM	25815	C2' ADE	339	144.950	23.314	2.958	1.00 98.81	
ATOM	25763	O4' URI	337	144.203	36.019	7.643	1.00105.04	A16S	ATOM	25816	O2' ADE	339	144.930	22.084	2.267	1.00 98.81	
ATOM	25764	C1' URI	337	143.753	35.055	6.702	1.00105.04	A16S	ATOM	25817	C3' ADE	339	146.195	24.175	2.716	1.00 98.81	
ATOM	25765	N1	CYT	144.493	35.256	5.453	1.00 63.14	A16S	ATOM	25818	O3' ADE	339	146.872	24.005	1.460	1.00 98.81	
ATOM	25766	C6	CYT	145.637	36.003	5.425	1.00 63.14	A16S	ATOM	25819	P	CYT	340	146.091	23.432	0.174	1.00129.25
ATOM	25767	C2	CYT	144.012	34.652	4.283	1.00 63.14	A16S	ATOM	25820	O1P	CYT	340	146.304	21.961	0.159	1.00104.71
ATOM	25768	O2	CYT	142.964	33.987	4.337	1.00 63.14	A16S	ATOM	25821	O2P	CYT	340	144.706	23.974	0.178	1.00104.71
ATOM	25769	N3	CYT	144.700	34.808	3.126	1.00 63.14	A16S	ATOM	25822	O5' CYT	340	146.892	24.039	-1.068	1.00129.25	
ATOM	25770	C4	CYT	145.822	35.535	3.112	1.00 63.14	A16S	ATOM	25823	C5' CYT	340	146.200	24.560	-2.202	1.00129.25	
ATOM	25771	N4	CYT	146.469	35.658	1.954	1.00 63.14	A16S	ATOM	25824	C4' CYT	340	146.647	25.977	-2.474	1.00129.25	
ATOM	25772	C5	CYT	146.329	36.167	4.288	1.00 63.14	A16S	ATOM	25825	O4' CYT	340	146.558	26.715	-1.242	1.00129.25	
ATOM	25773	C2' URI	337	144.090	33.689	7.291	1.00105.04	A16S	ATOM	25826	C1' CYT	340	147.491	27.765	-1.269	1.00129.25	
ATOM	25774	O2' URI	337	143.020	33.243	8.100	1.00105.04	A16S	ATOM	25827	N1	CYT	340	147.992	27.995	0.091	1.00104.71
ATOM	25775	C3' URI	337	145.334	34.040	8.087	1.00105.04	A16S	ATOM	25828	C6	CYT	340	147.825	27.058	1.071	1.00104.71
ATOM	25776	O3' URI	337	145.667	33.049	9.042	1.00105.04	A16S	ATOM	25829	C2	CYT	340	148.599	29.216	0.380	1.00104.71

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ATOM	25830	O2	CYT	340	148.797	30.018	-0.544	1.00104.71	Al6S	25883	C3' GUA	342	139.167	31.028	-3.663	1.00124.35	Al	
ATOM	25831	N3	CYT	340	148.956	29.492	1.657	1.00104.71	Al6S	25884	O3' GUA	342	137.855	31.382	-4.094	1.00124.35	Al	
ATOM	25832	C4	CYT	340	148.741	28.591	2.617	1.00104.71	Al6S	25885	P	GUA	343	137.300	32.871	-3.811	1.00 92.65	Al
ATOM	25833	N4	CYT	340	149.062	28.921	3.871	1.00104.71	Al6S	25886	O1P GUA	343	138.308	33.846	-4.307	1.00 71.86	Al	
ATOM	25834	C5	CYT	340	148.176	27.315	2.337	1.00104.71	Al6S	25887	O2P GUA	343	135.891	32.973	-4.274	1.00 71.86	Al	
ATOM	25835	C2'	CYT	340	148.494	27.522	-2.400	1.00129.25	Al6S	25888	O5' GUA	343	137.269	32.960	-2.226	1.00 92.65	Al	
ATOM	25836	O2'	CYT	340	148.340	28.539	-3.370	1.00129.25	Al6S	25889	C5' GUA	343	137.067	34.196	-1.581	1.00 92.65	Al	
ATOM	25837	C3'	CYT	340	148.092	26.138	-2.925	1.00129.25	Al6S	25890	C4' GUA	343	137.206	34.028	-0.097	1.00 92.65	Al	
ATOM	25838	O3'	CYT	340	148.126	26.217	-4.350	1.00129.25	Al6S	25891	O4' GUA	343	138.476	33.403	0.203	1.00 92.65	Al	
ATOM	25839	P	GUA	341	147.503	25.034	-5.248	1.00115.51	Al6S	25892	C1' GUA	343	139.087	34.060	1.298	1.00 92.65	Al	
ATOM	25840	O1P GUA	341	147.814	25.340	-6.675	1.00105.95	Al6S	25893	N9 GUA	343	140.213	34.809	0.765	1.00 71.86	Al		
ATOM	25841	O2P GUA	341	147.956	23.749	-4.655	1.00105.95	Al6S	25894	C4 GUA	343	141.019	35.669	1.456	1.00 71.86	Al		
ATOM	25842	O5' GUA	341	145.918	25.136	-5.055	1.00115.51	Al6S	25895	N3 GUA	343	140.906	35.975	2.764	1.00 71.86	Al		
ATOM	25843	C5' GUA	341	145.174	26.293	-5.459	1.00115.51	Al6S	25896	C2 GUA	343	141.830	36.832	3.151	1.00 71.86	Al		
ATOM	25844	C4' GUA	341	143.689	25.980	-5.447	1.00115.51	Al6S	25897	N2 GUA	343	141.860	37.238	4.432	1.00 71.86	Al		
ATOM	25845	O4' GUA	341	143.407	25.090	-4.344	1.00115.51	Al6S	25898	N1 GUA	343	142.790	37.352	2.312	1.00 71.86	Al		
ATOM	25846	C1' GUA	341	142.118	25.357	-3.839	1.00115.51	Al6S	25899	C6 GUA	343	142.917	37.053	0.956	1.00 71.86	Al		
ATOM	25847	N9 GUA	341	142.209	25.442	-2.385	1.00105.95	Al6S	25900	O6 GUA	343	143.813	37.584	0.280	1.00 71.86	Al		
ATOM	25848	C4 GUA	341	142.817	26.427	-1.643	1.00105.95	Al6S	25901	C5 GUA	343	141.934	36.130	0.537	1.00 71.86	Al		
ATOM	25849	N3 GUA	341	143.428	27.526	-2.129	1.00105.95	Al6S	25902	N7 GUA	343	141.707	35.568	-0.709	1.00 71.86	Al		
ATOM	25850	C2 GUA	341	143.938	28.276	-1.166	1.00105.95	Al6S	25903	C8 GUA	343	140.675	34.793	-0.526	1.00 71.86	Al		
ATOM	25851	N2 GUA	341	144.579	29.411	-1.475	1.00105.95	Al6S	25904	C2' GUA	343	138.033	34.991	1.889	1.00 92.65	Al		
ATOM	25852	N1 GUA	341	143.858	27.969	0.172	1.00105.95	Al6S	25905	O2' GUA	343	137.235	34.325	2.844	1.00 92.65	Al		
ATOM	25853	C6 GUA	341	143.237	26.840	0.696	1.00105.95	Al6S	25906	C3' GUA	343	137.261	35.344	0.636	1.00 92.65	Al		
ATOM	25854	O6 GUA	341	143.230	26.652	1.921	1.00105.95	Al6S	25907	O3' GUA	343	135.967	35.835	0.881	1.00 92.65	Al		
ATOM	25855	C5 GUA	341	142.679	26.030	-0.328	1.00105.95	Al6S	25908	P	ADE	344	135.682	37.375	0.606	1.00 96.29	Al	
ATOM	25856	N7 GUA	341	141.982	24.833	-0.246	1.00105.95	Al6S	25909	O1P ADE	344	134.264	37.664	0.943	1.00 68.00	Al		
ATOM	25857	C8 GUA	341	141.719	24.526	-1.486	1.00105.95	Al6S	25910	O2P ADE	344	136.190	37.640	-0.767	1.00 68.00	Al		
ATOM	25858	O2' GUA	341	141.522	26.554	-4.587	1.00115.51	Al6S	25911	O5' ADE	344	136.622	38.086	1.673	1.00 96.29	Al		
ATOM	25859	C2' GUA	341	140.555	26.102	-5.508	1.00115.51	Al6S	25912	C5' ADE	344	136.518	37.741	3.047	1.00 96.29	Al		
ATOM	25860	C3' GUA	341	142.743	27.166	-5.276	1.00115.51	Al6S	25913	C4' ADE	344	137.289	38.719	3.882	1.00 96.29	Al		
ATOM	25861	O3' GUA	341	142.359	27.690	-6.551	1.00115.51	Al6S	25914	O4' ADE	344	138.710	38.431	3.825	1.00 96.29	Al		
ATOM	25862	P	GUA	342	142.308	29.283	-6.791	1.00124.35	Al6S	25915	C1' ADE	344	139.439	39.646	3.829	1.00 96.29	Al	
ATOM	25863	O1P GUA	342	143.690	29.789	-6.576	1.00 82.08	Al6S	25916	N9 ADE	344	140.141	39.742	2.555	1.00 96.29	Al		
ATOM	25864	O2P GUA	342	141.630	29.546	-8.086	1.00 82.08	Al6S	25917	C4 ADE	344	141.271	40.476	2.297	1.00 68.00	Al		
ATOM	25865	O5' GUA	342	141.369	29.842	-5.625	1.00124.35	Al6S	25918	N3 ADE	344	141.943	41.263	3.152	1.00 68.00	Al		
ATOM	25866	C5' GUA	342	140.039	29.354	-5.457	1.00124.35	Al6S	25919	C2 ADE	344	143.001	41.799	2.555	1.00 68.00	Al		
ATOM	25867	C4' GUA	342	139.550	29.606	-4.044	1.00124.35	Al6S	25920	N1 ADE	344	143.432	41.646	1.302	1.00 68.00	Al		
ATOM	25868	O4' GUA	342	140.632	29.314	-3.113	1.00124.35	Al6S	25921	C6 ADE	344	142.735	40.848	0.472	1.00 68.00	Al		
ATOM	25869	C1' GUA	342	140.507	30.134	-1.958	1.00124.35	Al6S	25922	N6 ADE	344	143.172	40.690	-0.776	1.00 68.00	Al		
ATOM	25870	N9 GUA	342	141.668	31.014	-1.874	1.00 82.08	Al6S	25923	C5 ADE	344	141.589	40.227	0.978	1.00 68.00	Al		
ATOM	25871	C4 GUA	342	142.123	31.648	-0.745	1.00 82.08	Al6S	25924	N7 ADE	344	140.667	39.367	0.406	1.00 68.00	Al		
ATOM	25872	N3 GUA	342	141.588	31.546	0.486	1.00 82.08	Al6S	25925	C8 ADE	344	139.828	39.113	1.380	1.00 68.00	Al		
ATOM	25873	C2 GUA	342	142.239	32.283	1.371	1.00 82.08	Al6S	25926	C2' ADE	344	138.421	40.769	4.027	1.00 96.29	Al		
ATOM	25874	N2 GUA	342	141.835	32.299	2.652	1.00 82.08	Al6S	25927	O2' ADE	344	138.236	40.993	5.408	1.00 96.29	Al		
ATOM	25875	N1 GUA	342	143.334	33.056	1.067	1.00 82.08	Al6S	25928	C3' ADE	344	137.190	40.147	3.394	1.00 96.29	Al		
ATOM	25876	C6 GUA	342	143.905	33.172	-0.196	1.00 82.08	Al6S	25929	O3' ADE	344	135.981	40.748	3.818	1.00 96.29	Al		
ATOM	25877	O6 GUA	342	144.899	33.888	-0.361	1.00 82.08	Al6S	25930	P	GUA	345	135.575	42.185	3.236	1.00 70.36	Al	
ATOM	25878	C5 GUA	342	143.210	32.391	-1.153	1.00 82.08	Al6S	25931	O1P GUA	345	136.183	42.304	1.882	1.00 48.26	Al		
ATOM	25879	N7 GUA	342	143.439	32.224	-2.512	1.00 82.08	Al6S	25932	O2P GUA	345	134.104	42.346	3.399	1.00 48.26	Al		
ATOM	25880	C8 GUA	342	142.505	31.395	-2.896	1.00 82.08	Al6S	25933	O5' GUA	345	136.335	43.175	4.224	1.00 70.36	Al		
ATOM	25881	C2' GUA	342	139.234	30.951	-2.146	1.00124.35	Al6S	25934	C5' GUA	345	136.613	44.508	3.848	1.00 70.36	Al		
ATOM	25882	O2' GUA	342	138.143	30.249	-1.585	1.00124.35	Al6S	25935	C4' GUA	345	137.906	44.963	4.472	1.00 70.36	Al		

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ATOM	25936	O4' GUA	345	138.963	44.028	4.140	1.00	70.36	Al6S	ATOM	25989	C4	CYT	347	142.282	54.059	10.899	1.00	50.78	P
ATOM	25937	C1' GUA	345	140.149	44.736	3.819	1.00	70.36	Al6S	ATOM	25990	N4	CYT	347	143.229	53.361	11.530	1.00	50.78	P
ATOM	25938	N9 GUA	345	140.451	44.436	2.427	1.00	48.26	Al6S	ATOM	25991	C5' CYT	347	141.885	53.688	9.583	1.00	50.78	P	
ATOM	25939	C4 GUA	345	141.586	44.751	1.716	1.00	48.26	Al6S	ATOM	25992	C2' CYT	347	140.021	57.701	8.502	1.00	47.02	P	
ATOM	25940	N3 GUA	345	142.646	45.443	2.173	1.00	48.26	Al6S	ATOM	25993	O2' CYT	347	139.015	58.690	8.478	1.00	47.02	P	
ATOM	25941	C2 GUA	345	143.582	45.589	1.240	1.00	48.26	Al6S	ATOM	25994	C3' CYT	347	140.510	57.362	7.105	1.00	47.02	P	
ATOM	25942	N2 GUA	345	144.701	46.284	1.514	1.00	48.26	Al6S	ATOM	25995	O3' CYT	347	140.572	58.512	6.287	1.00	47.02	P	
ATOM	25943	N1 GUA	345	143.488	45.075	-0.027	1.00	48.26	Al6S	ATOM	25996	P ADE	348	141.956	59.314	6.116	1.00	51.70	P	
ATOM	25944	C6 GUA	345	142.406	44.356	-0.513	1.00	48.26	Al6S	ATOM	25997	O1P ADE	348	142.854	59.098	7.281	1.00	50.77	P	
ATOM	25945	O6 GUA	345	142.418	43.931	-1.676	1.00	48.26	Al6S	ATOM	25998	O2P ADE	348	142.449	59.007	4.747	1.00	50.77	P	
ATOM	25946	C5 GUA	345	141.392	44.212	0.467	1.00	48.26	Al6S	ATOM	25999	O5' ADE	348	141.485	60.833	6.216	1.00	51.70	P	
ATOM	25947	N7 GUA	345	140.157	43.590	0.388	1.00	48.26	Al6S	ATOM	26000	C5' ADE	348	141.397	61.641	5.065	1.00	51.70	P	
ATOM	25948	C8 GUA	345	139.636	43.751	1.569	1.00	48.26	Al6S	ATOM	26001	C4' ADE	348	139.993	62.175	4.880	1.00	51.70	P	
ATOM	25949	C2' GUA	345	139.893	46.216	4.118	1.00	70.36	Al6S	ATOM	26002	O4' ADE	348	140.051	62.994	3.696	1.00	51.70	P	
ATOM	25950	O2' GUA	345	140.331	46.516	5.424	1.00	70.36	Al6S	ATOM	26003	C1' ADE	348	139.160	62.499	2.734	1.00	51.70	P	
ATOM	25951	C3' GUA	345	138.377	46.308	3.954	1.00	70.36	Al6S	ATOM	26004	N9 ADE	348	139.941	61.689	1.807	1.00	50.77	P	
ATOM	25952	O3' GUA	345	137.778	47.341	4.732	1.00	70.36	Al6S	ATOM	26005	C4 ADE	348	139.510	61.252	0.585	1.00	50.77	P	
ATOM	25953	P GUA	346	136.343	47.930	4.303	1.00	81.58	Al6S	ATOM	26006	N3 ADE	348	138.308	61.469	0.027	1.00	50.77	P	
ATOM	25954	O1P GUA	346	135.448	47.861	5.482	1.00	56.37	Al6S	ATOM	26007	C2 ADE	348	138.243	60.903	-1.161	1.00	50.77	P	
ATOM	25955	O2P GUA	346	135.925	47.284	3.035	1.00	56.37	Al6S	ATOM	26008	N1 ADE	348	139.171	60.193	-1.807	1.00	50.77	P	
ATOM	25956	O5' GUA	346	136.646	49.465	4.013	1.00	81.58	Al6S	ATOM	26009	C6 ADE	348	140.369	59.993	-1.215	1.00	50.77	P	
ATOM	25957	C5' GUA	346	137.292	50.282	4.988	1.00	81.58	Al6S	ATOM	26010	N6 ADE	348	141.287	59.278	-1.858	1.00	50.77	P	
ATOM	25958	C4' GUA	346	138.402	51.067	4.343	1.00	81.58	Al6S	ATOM	26011	C5 ADE	348	140.568	60.549	0.044	1.00	50.77	P	
ATOM	25959	O4' GUA	346	139.346	50.118	3.811	1.00	81.58	Al6S	ATOM	26012	N7 ADE	348	141.651	60.540	0.911	1.00	50.77	P	
ATOM	25960	C1' GUA	346	139.912	50.631	2.633	1.00	81.58	Al6S	ATOM	26013	C8 ADE	348	141.227	61.222	1.943	1.00	50.77	P	
ATOM	25961	N9 GUA	346	139.881	49.595	1.610	1.00	56.37	Al6S	ATOM	26014	C2' ADE	348	138.089	61.720	3.487	1.00	51.70	P	
ATOM	25962	C4 GUA	346	140.887	49.328	0.723	1.00	56.37	Al6S	ATOM	26015	O2' ADE	348	137.028	62.577	3.864	1.00	51.70	P	
ATOM	25963	N3 GUA	346	142.061	49.979	0.653	1.00	56.37	Al6S	ATOM	26016	C3' ADE	348	138.903	61.131	4.635	1.00	51.70	P	
ATOM	25964	C2 GUA	346	142.835	49.492	-0.290	1.00	56.37	Al6S	ATOM	26017	O3' ADE	348	138.110	60.934	5.808	1.00	51.70	P	
ATOM	25965	N2 GUA	346	144.054	50.018	-0.481	1.00	56.37	Al6S	ATOM	26018	P GUA	349	136.810	59.975	5.763	1.00	42.46	P	
ATOM	25966	N1 GUA	346	142.479	48.453	-1.113	1.00	56.37	Al6S	ATOM	26019	O1P GUA	349	137.245	58.582	5.988	1.00	59.28	P	
ATOM	25967	C6 GUA	346	141.273	47.772	-1.062	1.00	56.37	Al6S	ATOM	26020	O2P GUA	349	135.982	60.288	4.575	1.00	59.28	P	
ATOM	25968	O6 GUA	346	141.051	46.859	-1.858	1.00	56.37	Al6S	ATOM	26021	O5' GUA	349	136.015	60.395	7.082	1.00	42.46	P	
ATOM	25969	C5' GUA	346	140.437	48.277	-0.040	1.00	56.37	Al6S	ATOM	26022	C5' GUA	349	135.227	61.584	7.120	1.00	42.46	P	
ATOM	25970	N7 GUA	346	139.158	47.886	0.361	1.00	56.37	Al6S	ATOM	26023	C4' GUA	349	134.340	61.614	8.356	1.00	42.46	P	
ATOM	25971	C8 GUA	346	138.876	48.699	1.341	1.00	56.37	Al6S	ATOM	26024	O4' GUA	349	133.635	60.347	8.485	1.00	42.46	P	
ATOM	25972	C2' GUA	346	139.209	51.942	2.270	1.00	81.58	Al6S	ATOM	26025	C1' GUA	349	133.406	60.069	9.854	1.00	42.46	P	
ATOM	25973	O2' GUA	346	140.055	53.041	2.552	1.00	81.58	Al6S	ATOM	26026	N9 GUA	349	134.021	58.780	10.169	1.00	59.28	P	
ATOM	25974	C3' GUA	346	137.968	51.913	3.156	1.00	81.58	Al6S	ATOM	26027	C4 GUA	349	134.001	58.104	11.378	1.00	59.28	P	
ATOM	25975	O3' GUA	346	137.664	53.278	3.488	1.00	81.58	Al6S	ATOM	26028	N3 GUA	349	133.404	58.514	12.518	1.00	59.28	P	
ATOM	25976	P CYT	347	137.888	53.851	4.987	1.00	47.02	Al6S	ATOM	26029	C2 GUA	349	133.585	57.650	13.507	1.00	59.28	P	
ATOM	25977	O1P CYT	347	136.525	54.118	5.608	1.00	50.78	Al6S	ATOM	26030	N2 GUA	349	133.083	57.897	14.720	1.00	59.28	P	
ATOM	25978	O2P CYT	347	138.919	53.118	5.758	1.00	50.78	Al6S	ATOM	26031	N1 GUA	349	134.277	56.483	13.381	1.00	59.28	P	
ATOM	25979	O5' CYT	347	138.586	55.245	4.726	1.00	47.02	Al6S	ATOM	26032	C6 GUA	349	134.891	56.042	12.219	1.00	59.28	P	
ATOM	25980	C5' CYT	347	139.746	55.601	5.444	1.00	47.02	Al6S	ATOM	26033	O6 GUA	349	135.488	54.969	12.213	1.00	59.28	P	
ATOM	25981	C4' CYT	347	139.378	56.497	6.595	1.00	47.02	Al6S	ATOM	26034	C5 GUA	349	134.722	56.954	11.161	1.00	59.28	P	
ATOM	25982	O4' CYT	347	139.002	55.700	7.752	1.00	47.02	Al6S	ATOM	26035	N7 GUA	349	135.181	56.899	9.857	1.00	59.28	P	
ATOM	25983	C1' CYT	347	139.414	56.365	8.935	1.00	47.02	Al6S	ATOM	26036	C8 GUA	349	134.741	57.998	9.309	1.00	59.28	P	
ATOM	25984	N1 CYT	347	140.402	55.524	9.615	1.00	50.78	Al6S	ATOM	26037	C2' GUA	349	133.968	61.250	10.651	1.00	42.46	P	
ATOM	25985	C6 CYT	347	140.945	54.440	8.986	1.00	50.78	Al6S	ATOM	26038	O2' GUA	349	132.960	62.214	10.856	1.00	42.46	P	
ATOM	25986	C2 CYT	347	140.795	55.857	10.909	1.00	50.78	Al6S	ATOM	26039	C3' GUA	349	135.020	61.795	9.703	1.00	42.46	P	
ATOM	25987	O2 CYT	347	140.279	56.837	11.454	1.00	50.78	Al6S	ATOM	26040	O3' GUA	349	135.210	63.178	9.995	1.00	42.46	P	
ATOM	25988	N3 CYT	347	141.735	55.104	11.533	1.00	50.78	Al6S	ATOM	26041	P CYT	350	136.177	63.620	11.211	1.00	46.10	P	

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ATOM	26042	O1P	CYT	350	135.970	65.071	11.440	1.00	61.42	A16S	ATOM	26095	N2	GUA	352	145.386	55.004	13.584	1.00	64.18	AJ
ATOM	26043	O2P	CYT	350	137.555	63.107	10.970	1.00	61.42	A16S	ATOM	26096	N1	GUA	352	144.344	56.914	12.842	1.00	64.18	AJ
ATOM	26044	O5'	CYT	350	135.587	62.855	12.476	1.00	46.10	A16S	ATOM	26097	C6	GUA	352	143.680	58.122	12.951	1.00	64.18	AJ
ATOM	26045	C5'	CYT	350	134.601	63.461	13.308	1.00	46.10	A16S	ATOM	26098	O6	GUA	352	143.364	58.737	11.938	1.00	64.18	AJ
ATOM	26046	C4'	CYT	350	134.662	62.876	14.694	1.00	46.10	A16S	ATOM	26099	C5	GUA	352	143.463	58.477	14.301	1.00	64.18	AJ
ATOM	26047	O4'	CYT	350	134.358	61.457	14.620	1.00	46.10	A16S	ATOM	26100	N7	GUA	352	142.836	59.588	14.849	1.00	64.18	AJ
ATOM	26048	C1'	CYT	350	135.098	60.756	15.605	1.00	46.10	A16S	ATOM	26101	C8	GUA	352	142.932	59.409	16.137	1.00	64.18	AJ
ATOM	26049	N1	CYT	350	135.892	59.731	14.922	1.00	61.42	A16S	ATOM	26102	C2'	GUA	352	145.428	57.931	18.043	1.00	46.79	AJ
ATOM	26050	C6	CYT	350	136.063	59.774	13.569	1.00	61.42	A16S	ATOM	26103	O2'	GUA	352	145.914	56.888	18.861	1.00	46.79	AJ
ATOM	26051	C2	CYT	350	136.453	58.702	15.672	1.00	61.42	A16S	ATOM	26104	C3'	GUA	352	145.499	59.300	18.698	1.00	46.79	AJ
ATOM	26052	O2	CYT	350	136.313	58.712	16.904	1.00	61.42	A16S	ATOM	26105	O3'	GUA	352	146.653	59.405	19.500	1.00	46.79	AJ
ATOM	26053	N3	CYT	350	137.134	57.725	15.040	1.00	61.42	A16S	ATOM	26106	P	URI	353	148.060	59.746	18.814	1.00	49.56	AJ
ATOM	26054	C4	CYT	350	137.262	57.755	13.715	1.00	61.42	A16S	ATOM	26107	O1P	URI	353	149.028	59.980	19.918	1.00	57.58	AJ
ATOM	26055	N4	CYT	350	137.894	56.744	13.126	1.00	61.42	A16S	ATOM	26108	O2P	URI	353	147.838	60.811	17.800	1.00	57.58	AJ
ATOM	26056	C5	CYT	350	136.734	58.816	12.932	1.00	61.42	A16S	ATOM	26109	O5'	URI	353	148.435	58.398	18.046	1.00	49.56	AJ
ATOM	26057	C2'	CYT	350	135.929	61.788	16.363	1.00	46.10	A16S	ATOM	26110	C5'	URI	353	148.691	57.192	18.757	1.00	49.56	AJ
ATOM	26058	O2'	CYT	350	135.222	62.205	17.509	1.00	46.10	A16S	ATOM	26111	C4'	URI	353	149.272	56.157	17.829	1.00	49.56	AJ
ATOM	26059	C3'	CYT	350	136.035	62.890	15.324	1.00	46.10	A16S	ATOM	26112	O4'	URI	353	148.281	55.737	16.859	1.00	49.56	AJ
ATOM	26060	O3'	CYT	350	136.339	64.128	15.911	1.00	46.10	A16S	ATOM	26113	C1'	URI	353	148.909	55.490	15.613	1.00	49.56	AJ
ATOM	26061	P	ADE	351	137.869	64.557	16.039	1.00	57.50	A16S	ATOM	26114	N1	URI	353	148.327	56.402	14.623	1.00	57.58	AJ
ATOM	26062	O1P	ADE	351	137.928	65.840	16.781	1.00	60.61	A16S	ATOM	26115	C6	URI	353	147.660	57.537	15.012	1.00	57.58	AJ
ATOM	26063	O2P	ADE	351	138.477	64.447	14.684	1.00	60.61	A16S	ATOM	26116	C2	URI	353	148.479	56.086	13.287	1.00	57.58	AJ
ATOM	26064	O5'	ADE	351	138.504	63.410	16.940	1.00	57.50	A16S	ATOM	26117	O2	URI	353	149.053	55.086	12.900	1.00	57.58	AJ
ATOM	26065	C5'	ADE	351	138.461	63.501	18.348	1.00	57.50	A16S	ATOM	26118	N3	URI	353	147.931	56.990	12.416	1.00	57.58	AJ
ATOM	26066	C4'	ADE	351	139.098	62.290	18.973	1.00	57.50	A16S	ATOM	26119	C4	URI	353	147.264	58.147	12.737	1.00	57.58	AJ
ATOM	26067	O4'	ADE	351	138.425	61.093	18.561	1.00	57.50	A16S	ATOM	26120	C5	URI	353	146.856	58.874	11.833	1.00	57.58	AJ
ATOM	26068	C1'	ADE	351	139.298	59.985	18.661	1.00	57.50	A16S	ATOM	26121	O4	URI	353	147.138	58.397	14.141	1.00	57.58	AJ
ATOM	26069	N9	ADE	351	139.483	59.322	17.374	1.00	60.61	A16S	ATOM	26122	C2'	URI	353	150.408	55.708	15.804	1.00	49.56	AJ
ATOM	26070	C4	ADE	351	139.876	58.017	17.230	1.00	60.61	A16S	ATOM	26123	O2'	URI	353	151.021	54.486	16.120	1.00	49.56	AJ
ATOM	26071	N3	ADE	351	140.077	57.119	18.209	1.00	60.61	A16S	ATOM	26124	C3'	URI	353	150.432	56.651	16.993	1.00	49.56	AJ
ATOM	26072	C2	ADE	351	140.487	55.965	17.705	1.00	60.61	A16S	ATOM	26125	O3'	URI	353	151.630	56.498	17.725	1.00	49.56	AJ
ATOM	26073	N1	ADE	351	140.719	55.632	16.430	1.00	60.61	A16S	ATOM	26126	P	URI	354	152.913	57.361	17.325	1.00	56.03	AJ
ATOM	26074	C6	ADE	351	140.523	56.561	15.471	1.00	60.61	A16S	ATOM	26127	O1P	URI	354	154.018	56.968	18.238	1.00	66.74	AJ
ATOM	26075	N6	ADE	351	140.803	56.235	14.207	1.00	60.61	A16S	ATOM	26128	O2P	URI	354	152.491	58.782	17.242	1.00	66.74	AJ
ATOM	26076	C5	ADE	351	140.053	57.823	15.875	1.00	60.61	A16S	ATOM	26129	O5'	URI	354	153.253	56.878	15.848	1.00	56.03	AJ
ATOM	26077	N7	ADE	351	139.718	58.971	15.171	1.00	60.61	A16S	ATOM	26130	C5'	URI	354	153.714	55.560	15.593	1.00	56.03	AJ
ATOM	26078	C8	ADE	351	139.377	59.826	16.105	1.00	60.61	A16S	ATOM	26131	C4'	URI	354	153.870	55.356	14.110	1.00	56.03	AJ
ATOM	26079	C2'	ADE	351	140.635	60.543	19.150	1.00	57.50	A16S	ATOM	26132	O4'	URI	354	152.571	55.419	13.472	1.00	56.03	AJ
ATOM	26080	O2'	ADE	351	140.669	60.480	20.561	1.00	57.50	A16S	ATOM	26133	C1'	URI	354	152.708	55.974	12.176	1.00	56.03	AJ
ATOM	26081	C3'	ADE	351	140.553	61.982	18.657	1.00	57.50	A16S	ATOM	26134	N1	URI	354	151.836	57.149	12.069	1.00	66.74	AJ
ATOM	26082	O3'	ADE	351	141.451	62.801	19.398	1.00	57.50	A16S	ATOM	26135	C6	URI	354	151.413	57.836	13.175	1.00	66.74	AJ
ATOM	26083	P	GUA	352	142.974	62.968	18.902	1.00	46.79	A16S	ATOM	26136	C2	URI	354	151.474	57.547	10.804	1.00	66.74	AJ
ATOM	26084	O1P	GUA	352	143.747	63.658	19.966	1.00	64.18	A16S	ATOM	26137	O2	URI	354	151.810	56.946	9.803	1.00	66.74	AJ
ATOM	26085	O2P	GUA	352	142.932	63.540	17.540	1.00	64.18	A16S	ATOM	26138	N3	URI	354	150.702	58.673	10.751	1.00	66.74	AJ
ATOM	26086	O5'	GUA	352	143.522	61.475	18.783	1.00	46.79	A16S	ATOM	26139	C4	URI	354	150.254	59.414	11.809	1.00	66.74	AJ
ATOM	26087	C5'	GUA	352	143.753	60.681	19.946	1.00	46.79	A16S	ATOM	26140	O4	URI	354	149.572	60.415	11.593	1.00	66.74	AJ
ATOM	26088	C4'	GUA	352	144.258	59.310	19.560	1.00	46.79	A16S	ATOM	26141	C5	URI	354	150.653	58.926	13.092	1.00	66.74	AJ
ATOM	26089	O4'	GUA	352	143.268	58.626	18.748	1.00	46.79	A16S	ATOM	26142	C2'	URI	354	154.178	56.345	11.976	1.00	56.03	AJ
ATOM	26090	C1'	GUA	352	143.923	57.787	17.807	1.00	46.79	A16S	ATOM	26143	O2'	URI	354	154.826	55.351	11.223	1.00	56.03	AJ
ATOM	26091	N9	GUA	352	143.592	58.256	16.469	1.00	64.18	A16S	ATOM	26144	C3'	URI	354	154.677	56.432	13.409	1.00	56.03	AJ
ATOM	26092	C4	GUA	352	143.921	57.640	15.289	1.00	64.18	A16S	ATOM	26145	O3'	URI	354	156.057	56.128	13.477	1.00	56.03	AJ
ATOM	26093	N3	GUA	352	144.573	56.472	15.163	1.00	64.18	A16S	ATOM	26146	P	ADE	355	157.130	57.201	12.959	1.00	52.20	AJ
ATOM	26094	C2	GUA	352	144.758	56.147	13.897	1.00	64.18	A16S	ATOM	26147	O1P	ADE	355	158.476	56.563	12.992	1.00	65.77	AJ

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ATOM	26148	O2P	ADE	355	156.897	58.465	13.714	1.00	65.77	Al6S	ATOM	26201	N3	GUA	357	155.362	67.951	10.277	1.00	79.01
ATOM	26149	O5'	ADE	355	156.730	57.434	11.433	1.00	52.20	Al6S	ATOM	26202	C2	GUA	357	154.674	67.769	11.387	1.00	79.01
ATOM	26150	C5'	ADE	355	157.216	56.584	10.406	1.00	52.20	Al6S	ATOM	26203	N1	GUA	357	153.521	68.420	11.575	1.00	79.01
ATOM	26151	C4'	ADE	355	156.971	57.211	9.057	1.00	52.20	Al6S	ATOM	26204	C6	GUA	357	155.060	66.932	12.398	1.00	79.01
ATOM	26152	O1'	ADE	355	155.542	57.324	8.811	1.00	52.20	Al6S	ATOM	26205	O6	GUA	357	156.212	66.158	12.400	1.00	79.01
ATOM	26153	C1'	ADE	355	155.272	58.522	8.102	1.00	52.20	Al6S	ATOM	26206	O5	GUA	357	156.454	65.411	13.361	1.00	79.01
ATOM	26154	N9	ADE	355	154.500	59.395	8.983	1.00	65.77	Al6S	ATOM	26207	C5	GUA	357	156.966	66.351	11.224	1.00	79.01
ATOM	26155	C4	ADE	355	153.647	60.400	8.601	1.00	65.77	Al6S	ATOM	26208	N7	GUA	357	158.171	65.792	10.820	1.00	79.01
ATOM	26156	N3	ADE	355	153.344	60.781	7.347	1.00	65.77	Al6S	ATOM	26209	C8	GUA	357	158.399	66.322	10.654	1.00	79.01
ATOM	26157	C2	ADE	355	152.489	61.799	7.362	1.00	65.77	Al6S	ATOM	26210	C2'	GUA	357	158.316	69.200	8.143	1.00	52.09
ATOM	26158	N1	ADE	355	151.940	62.430	8.407	1.00	65.77	Al6S	ATOM	26211	O2'	GUA	357	157.809	70.256	7.351	1.00	52.09
ATOM	26159	C6	ADE	355	152.262	62.018	9.652	1.00	65.77	Al6S	ATOM	26212	C3'	GUA	357	159.594	68.640	7.554	1.00	52.09
ATOM	26160	N6	ADE	355	151.707	62.639	10.694	1.00	65.77	Al6S	ATOM	26213	O3'	GUA	357	160.439	69.691	7.132	1.00	52.09
ATOM	26161	C5	ADE	355	153.167	60.951	9.773	1.00	65.77	Al6S	ATOM	26214	P	ADE	358	161.674	70.109	8.056	1.00	47.77
ATOM	26162	N7	ADE	355	153.708	60.307	10.876	1.00	65.77	Al6S	ATOM	26215	O1P	ADE	358	161.996	68.898	8.845	1.00	51.78
ATOM	26163	C8	ADE	355	154.484	59.393	10.355	1.00	65.77	Al6S	ATOM	26216	O2P	ADE	358	162.734	70.762	7.246	1.00	51.78
ATOM	26164	C2'	ADE	355	156.627	59.142	7.758	1.00	52.20	Al6S	ATOM	26217	O5'	ADE	358	161.078	71.189	9.060	1.00	47.77
ATOM	26165	O2'	ADE	355	157.077	58.636	6.527	1.00	52.20	Al6S	ATOM	26218	C5'	ADE	358	161.895	71.743	10.100	1.00	47.77
ATOM	26166	C3'	ADE	355	157.485	58.629	8.900	1.00	52.20	Al6S	ATOM	26219	O4'	ADE	358	161.083	72.682	10.958	1.00	47.77
ATOM	26167	O3'	ADE	355	158.844	58.602	8.528	1.00	52.20	Al6S	ATOM	26220	C4'	ADE	358	160.772	73.884	10.211	1.00	47.77
ATOM	26168	P	GUA	356	159.763	59.882	8.794	1.00	47.36	Al6S	ATOM	26221	C1'	ADE	358	159.457	74.309	10.526	1.00	47.77
ATOM	26169	O1P	GUA	356	159.502	60.320	10.189	1.00	60.18	Al6S	ATOM	26222	N9	ADE	358	158.678	74.282	9.297	1.00	51.78
ATOM	26170	O2P	GUA	356	161.149	59.555	8.375	1.00	60.18	Al6S	ATOM	26223	C4	ADE	358	157.490	74.926	9.086	1.00	51.78
ATOM	26171	O5'	GUA	356	159.203	60.969	7.774	1.00	47.36	Al6S	ATOM	26224	N3	ADE	358	156.803	75.666	9.969	1.00	51.78
ATOM	26172	C5'	GUA	356	159.432	60.848	6.375	1.00	47.36	Al6S	ATOM	26225	C2	ADE	358	155.697	76.147	9.407	1.00	51.78
ATOM	26173	C4'	GUA	356	158.738	61.969	5.632	1.00	47.36	Al6S	ATOM	26226	N1	ADE	358	155.243	75.991	8.151	1.00	51.78
ATOM	26174	O4'	GUA	356	157.300	61.858	5.809	1.00	47.36	Al6S	ATOM	26227	C6	ADE	358	155.974	75.254	7.290	1.00	51.78
ATOM	26175	C1'	GUA	356	156.729	63.152	5.902	1.00	47.36	Al6S	ATOM	26228	N6	ADE	358	155.547	75.127	6.042	1.00	51.78
ATOM	26176	N9	GUA	356	156.224	63.336	7.253	1.00	60.18	Al6S	ATOM	26229	C5	ADE	358	157.154	74.673	7.768	1.00	51.78
ATOM	26177	C4	GUA	356	155.133	64.080	7.615	1.00	60.18	Al6S	ATOM	26230	N7	ADE	358	158.102	73.859	7.167	1.00	51.78
ATOM	26178	N3	GUA	356	154.314	64.742	6.773	1.00	60.18	Al6S	ATOM	26231	C8	ADE	358	158.980	73.651	8.116	1.00	51.78
ATOM	26179	C2	GUA	356	153.366	65.383	7.419	1.00	60.18	Al6S	ATOM	26232	C2'	ADE	358	158.905	73.381	11.609	1.00	47.77
ATOM	26180	N2	GUA	356	152.469	66.091	6.740	1.00	60.18	Al6S	ATOM	26233	O2'	ADE	358	159.110	73.916	12.900	1.00	47.77
ATOM	26181	N1	GUA	356	153.229	65.376	8.778	1.00	60.18	Al6S	ATOM	26234	C3'	ADE	358	159.734	72.127	11.387	1.00	47.77
ATOM	26182	C6	GUA	356	154.063	64.706	9.663	1.00	60.18	Al6S	ATOM	26235	O3'	ADE	358	159.854	71.408	12.601	1.00	47.77
ATOM	26183	O6	GUA	356	153.857	64.776	10.876	1.00	60.18	Al6S	ATOM	26236	P	ADE	359	158.813	70.237	12.926	1.00	48.96
ATOM	26184	C5	GUA	356	155.082	64.011	8.987	1.00	60.18	Al6S	ATOM	26237	O1P	ADE	359	159.148	69.705	14.275	1.00	65.70
ATOM	26185	N7	GUA	356	156.111	63.222	9.480	1.00	60.18	Al6S	ATOM	26238	O2P	ADE	359	158.782	69.324	11.757	1.00	65.70
ATOM	26186	C8	GUA	356	156.757	62.837	8.415	1.00	60.18	Al6S	ATOM	26239	O5'	ADE	359	157.416	70.990	13.011	1.00	48.96
ATOM	26187	C2'	GUA	356	157.846	64.152	5.625	1.00	47.36	Al6S	ATOM	26240	C5'	ADE	359	157.109	71.848	14.103	1.00	48.96
ATOM	26188	O2'	GUA	356	157.903	64.398	4.244	1.00	47.36	Al6S	ATOM	26241	C4'	ADE	359	155.672	72.289	14.009	1.00	48.96
ATOM	26189	C3'	GUA	356	159.057	63.375	6.109	1.00	47.36	Al6S	ATOM	26242	O4'	ADE	359	155.503	73.114	12.831	1.00	48.96
ATOM	26190	O3'	GUA	356	160.252	63.861	5.523	1.00	47.36	Al6S	ATOM	26243	C1'	ADE	359	154.261	72.828	12.215	1.00	48.96
ATOM	26191	P	GUA	357	161.312	64.626	6.442	1.00	52.09	Al6S	ATOM	26244	N9	ADE	359	154.539	72.403	10.846	1.00	65.70
ATOM	26192	O1P	GUA	357	162.514	64.933	5.622	1.00	79.01	Al6S	ATOM	26245	C4	ADE	359	153.935	72.867	9.702	1.00	65.70
ATOM	26193	O2P	GUA	357	161.456	63.849	7.698	1.00	79.01	Al6S	ATOM	26246	N3	ADE	359	152.936	73.761	9.608	1.00	65.70
ATOM	26194	O5'	GUA	357	160.563	65.984	6.809	1.00	52.09	Al6S	ATOM	26247	C2	ADE	359	152.633	73.992	8.334	1.00	65.70
ATOM	26195	C5'	GUA	357	159.965	66.786	5.791	1.00	52.09	Al6S	ATOM	26248	N1	ADE	359	153.177	73.477	7.226	1.00	65.70
ATOM	26196	C4'	GUA	357	159.049	67.827	6.397	1.00	52.09	Al6S	ATOM	26249	C6	ADE	359	154.183	72.588	7.355	1.00	65.70
ATOM	26197	O4'	GUA	357	157.879	67.192	6.974	1.00	52.09	Al6S	ATOM	26250	N6	ADE	359	154.744	72.091	6.250	1.00	65.70
ATOM	26198	C1'	GUA	357	157.389	67.989	8.039	1.00	52.09	Al6S	ATOM	26251	C5	ADE	359	154.588	72.246	8.654	1.00	65.70
ATOM	26199	N9	GUA	357	157.423	67.202	9.262	1.00	79.01	Al6S	ATOM	26252	N7	ADE	359	155.561	71.380	9.130	1.00	65.70
ATOM	26200	C4	GUA	357	156.490	67.218	10.263	1.00	79.01	Al6S	ATOM	26253	C8	ADE	359	155.484	71.503	10.432	1.00	65.70

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ATOM	26254	C2' ADE	359	153.524	71.822	13.098	1.00	48.96	A16S	ATOM	26307	C6	URI	362	141.311	65.694	21.144	1.00	74.32	A1
ATOM	26255	O2' ADE	359	152.681	72.550	13.959	1.00	48.96	A16S	ATOM	26308	C2	URI	362	139.625	65.844	22.834	1.00	74.32	A1
ATOM	26256	C3' ADE	359	154.677	71.154	13.842	1.00	48.96	A16S	ATOM	26309	O2	URI	362	139.167	65.541	23.915	1.00	74.32	A1
ATOM	26257	O3' ADE	359	154.303	70.691	15.136	1.00	48.96	A16S	ATOM	26310	N3	URI	362	138.970	66.677	21.969	1.00	74.32	A1
ATOM	26258	P	URI	153.479	69.323	15.293	1.00	54.37	A16S	ATOM	26311	C4	URI	362	139.396	67.068	20.727	1.00	74.32	A1
ATOM	26259	O1P	URI	153.585	68.902	16.712	1.00	68.55	A16S	ATOM	26312	O4	URI	362	138.754	67.921	20.114	1.00	74.32	A1
ATOM	26260	O2P	URI	153.893	68.396	14.212	1.00	68.55	A16S	ATOM	26313	C5	URI	362	140.649	66.502	20.316	1.00	74.32	A1
ATOM	26261	O5' URI	360	151.966	69.747	15.026	1.00	54.37	A16S	ATOM	26314	C2' URI	362	141.668	63.044	23.204	1.00	59.03	A1	
ATOM	26262	C5' URI	360	151.199	70.388	16.039	1.00	54.37	A16S	ATOM	26315	O2' URI	362	140.747	62.528	24.124	1.00	59.03	A1	
ATOM	26263	C4' URI	360	149.836	70.728	15.511	1.00	54.37	A16S	ATOM	26316	C3' URI	362	143.124	62.704	23.574	1.00	59.03	A1	
ATOM	26264	O4' URI	360	149.994	71.604	14.381	1.00	54.37	A16S	ATOM	26317	O3' URI	362	143.040	61.952	24.798	1.00	59.03	A1	
ATOM	26265	C1' URI	360	148.876	71.469	13.543	1.00	54.37	A16S	ATOM	26318	P	URI	363	144.065	60.750	25.121	1.00	52.29	A1
ATOM	26266	N1	URI	149.311	71.541	12.147	1.00	68.55	A16S	ATOM	26319	O1P	URI	363	143.865	60.453	26.565	1.00	77.35	A1
ATOM	26267	C6	URI	150.394	70.863	11.673	1.00	68.55	A16S	ATOM	26320	O2P	URI	363	145.428	61.100	24.616	1.00	77.35	A1
ATOM	26268	C2	URI	148.565	72.346	11.325	1.00	68.55	A16S	ATOM	26321	O5' URI	363	143.499	59.510	24.293	1.00	52.29	A1	
ATOM	26269	O2	URI	147.594	72.948	11.720	1.00	68.55	A16S	ATOM	26322	C5' URI	363	142.156	59.070	24.466	1.00	52.29	A1	
ATOM	26270	N3	URI	148.990	72.426	10.031	1.00	68.55	A16S	ATOM	26323	C4' URI	363	141.584	58.627	23.144	1.00	52.29	A1	
ATOM	26271	C4	URI	150.064	71.798	9.491	1.00	68.55	A16S	ATOM	26324	O4' URI	363	142.390	57.572	22.592	1.00	52.29	A1	
ATOM	26272	O4	URI	150.354	72.023	8.320	1.00	68.55	A16S	ATOM	26325	C1' URI	363	141.606	56.828	21.686	1.00	52.29	A1	
ATOM	26273	C5	URI	150.791	70.960	10.405	1.00	68.55	A16S	ATOM	26326	N1	URI	363	141.944	55.407	21.821	1.00	77.35	A1
ATOM	26274	C2' URI	360	148.107	70.208	13.943	1.00	54.37	A16S	ATOM	26327	C6	URI	363	141.650	54.697	22.960	1.00	77.35	A1
ATOM	26275	O2' URI	360	146.868	70.580	14.504	1.00	54.37	A16S	ATOM	26328	C2	URI	363	142.573	54.804	20.747	1.00	77.35	A1
ATOM	26276	C3' URI	360	149.046	69.554	14.959	1.00	54.37	A16S	ATOM	26329	O2	URI	363	142.864	55.407	19.722	1.00	77.35	A1
ATOM	26277	O3' URI	360	148.270	68.985	16.008	1.00	54.37	A16S	ATOM	26330	N3	URI	363	142.856	53.473	20.917	1.00	77.35	A1
ATOM	26278	P	CYT	148.555	67.491	16.505	1.00	53.33	A16S	ATOM	26331	C4	URI	363	142.586	52.704	22.025	1.00	77.35	A1
ATOM	26279	O1P	CYT	149.982	67.424	16.869	1.00	54.31	A16S	ATOM	26332	O4	URI	363	142.859	51.505	22.006	1.00	77.35	A1
ATOM	26280	O2P	CYT	148.004	66.542	15.515	1.00	54.31	A16S	ATOM	26333	C5	URI	363	141.945	53.402	23.096	1.00	77.35	A1
ATOM	26281	O5' CYT	361	147.704	67.373	17.843	1.00	53.33	A16S	ATOM	26334	C2' URI	363	140.132	57.177	21.922	1.00	52.29	A1	
ATOM	26282	C5' CYT	361	148.217	67.850	19.086	1.00	53.33	A16S	ATOM	26335	O2' URI	363	139.633	57.890	20.815	1.00	52.29	A1	
ATOM	26283	O4' CYT	361	147.082	68.062	20.049	1.00	53.33	A16S	ATOM	26336	C3' URI	363	140.188	58.039	23.181	1.00	52.29	A1	
ATOM	26284	C1' CYT	361	146.297	69.168	19.575	1.00	53.33	A16S	ATOM	26337	O3' URI	363	139.280	59.119	23.052	1.00	52.29	A1	
ATOM	26285	N1	CYT	144.929	68.909	19.765	1.00	53.33	A16S	ATOM	26338	P	CYT	364	137.724	58.902	23.352	1.00	51.53	A1
ATOM	26286	N1	CYT	144.204	69.437	18.601	1.00	54.31	A16S	ATOM	26339	O1P	CYT	364	137.477	57.485	23.708	1.00	68.13	A1
ATOM	26287	C6	CYT	144.875	69.754	17.454	1.00	54.31	A16S	ATOM	26340	O2P	CYT	364	136.948	59.513	22.249	1.00	68.13	A1
ATOM	26288	C2	CYT	142.830	69.646	18.691	1.00	54.31	A16S	ATOM	26341	O5' CYT	364	137.503	59.803	24.642	1.00	51.53	A1	
ATOM	26289	O2	CYT	142.252	69.344	19.736	1.00	54.31	A16S	ATOM	26342	C5' CYT	364	138.393	59.736	25.752	1.00	51.53	A1	
ATOM	26290	N3	CYT	142.167	70.182	17.635	1.00	54.31	A16S	ATOM	26343	C4' CYT	364	137.951	60.720	26.803	1.00	51.53	A1	
ATOM	26291	C4	CYT	142.838	70.509	16.528	1.00	54.31	A16S	ATOM	26344	O4' CYT	364	138.336	62.060	26.403	1.00	51.53	A1	
ATOM	26292	N4	CYT	142.162	71.055	15.521	1.00	54.31	A16S	ATOM	26345	C1' CYT	364	137.269	62.958	26.656	1.00	51.53	A1	
ATOM	26293	C5	CYT	144.239	70.294	16.407	1.00	54.31	A16S	ATOM	26346	N1	CYT	364	136.815	63.503	25.365	1.00	68.13	A1
ATOM	26294	C2' CYT	361	144.727	67.445	20.173	1.00	53.33	A16S	ATOM	26347	C6	CYT	364	137.223	62.948	24.185	1.00	68.13	A1
ATOM	26295	O2' CYT	361	144.099	67.340	21.421	1.00	53.33	A16S	ATOM	26348	C2	CYT	364	135.952	64.598	25.365	1.00	68.13	A1
ATOM	26296	C3' CYT	361	146.147	66.869	20.134	1.00	53.33	A16S	ATOM	26349	O2	CYT	364	135.610	65.088	26.443	1.00	68.13	A1
ATOM	26297	O3' CYT	361	146.535	65.921	21.174	1.00	53.33	A16S	ATOM	26350	N3	CYT	364	135.515	65.097	24.191	1.00	68.13	A1
ATOM	26298	P	URI	146.662	66.373	22.737	1.00	59.03	A16S	ATOM	26351	C4	CYT	364	135.915	64.550	23.048	1.00	68.13	A1
ATOM	26299	O1P	URI	146.537	67.846	22.875	1.00	74.32	A16S	ATOM	26352	N4	CYT	364	135.460	65.078	21.920	1.00	68.13	A1
ATOM	26300	O2P	URI	147.871	65.703	23.265	1.00	74.32	A16S	ATOM	26353	C5	CYT	364	136.803	63.437	23.014	1.00	68.13	A1
ATOM	26301	O5' URI	362	145.402	65.723	23.464	1.00	59.03	A16S	ATOM	26354	C2' CYT	364	136.179	62.187	27.409	1.00	51.53	A1	
ATOM	26302	C5' URI	362	145.157	64.311	23.442	1.00	59.03	A16S	ATOM	26355	O2' CYT	364	136.314	62.316	28.807	1.00	51.53	A1	
ATOM	26303	C4' URI	362	143.757	64.043	23.929	1.00	59.03	A16S	ATOM	26356	C3' CYT	364	136.440	60.764	26.954	1.00	51.53	A1	
ATOM	26304	O4' URI	362	142.912	65.058	23.396	1.00	59.03	A16S	ATOM	26357	O3' CYT	364	135.992	59.827	27.915	1.00	51.53	A1	
ATOM	26305	C1' URI	362	141.612	64.567	23.340	1.00	59.03	A16S	ATOM	26358	P	CYT	365	134.458	59.367	27.909	1.00	59.07	A1
ATOM	26306	N1	URI	140.841	65.377	22.392	1.00	74.32	A16S	ATOM	26359	O1P	CYT	365	134.120	58.924	26.526	1.00	58.47	A1

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ATOM	26360	O2P	CYT	365	134.254	58.435	29.050	1.00	58.47	A16S	ATOM	26413	N3	CYT	367	123.033	63.126	20.207	1.00	62.21	A
ATOM	26361	O5'	CYT	365	133.661	60.707	28.223	1.00	59.07	A16S	ATOM	26414	C4	CYT	367	124.194	62.483	20.305	1.00	62.21	A
ATOM	26362	C5'	CYT	365	133.657	61.250	29.533	1.00	59.07	A16S	ATOM	26415	N4	CYT	367	124.897	62.298	19.194	1.00	62.21	A
ATOM	26363	C4'	CYT	365	132.513	62.215	29.695	1.00	59.07	A16S	ATOM	26416	C5	CYT	367	124.679	61.994	21.542	1.00	62.21	A
ATOM	26364	O4'	CYT	365	132.799	63.458	29.003	1.00	59.07	A16S	ATOM	26417	C2'	CYT	367	120.733	62.010	23.981	1.00	60.72	A
ATOM	26365	C1'	CYT	365	131.583	64.015	28.520	1.00	59.07	A16S	ATOM	26418	O2'	CYT	367	119.481	62.545	23.601	1.00	60.72	A
ATOM	26366	N1	CYT	365	131.665	64.138	27.056	1.00	58.47	A16S	ATOM	26419	C3'	CYT	367	120.962	61.600	25.450	1.00	60.72	A
ATOM	26367	C6	CYT	365	132.521	63.366	26.328	1.00	58.47	A16S	ATOM	26420	O3'	CYT	367	119.905	61.539	26.425	1.00	60.72	A
ATOM	26368	C2	CYT	365	130.846	65.060	26.423	1.00	58.47	A16S	ATOM	26421	P	ADE	368	118.872	62.761	26.599	1.00	50.44	A
ATOM	26369	O2	CYT	365	130.078	65.743	27.112	1.00	58.47	A16S	ATOM	26422	O1P	ADE	368	117.560	62.165	26.963	1.00	77.07	A
ATOM	26370	N3	CYT	365	130.905	65.189	25.079	1.00	58.47	A16S	ATOM	26423	O2P	ADE	368	118.957	63.666	25.429	1.00	77.07	A
ATOM	26371	C4	CYT	365	131.739	64.430	24.376	1.00	58.47	A16S	ATOM	26424	O5'	ADE	368	119.341	63.620	27.852	1.00	50.44	A
ATOM	26372	N4	CYT	365	131.759	64.582	23.057	1.00	58.47	A16S	ATOM	26425	C5'	ADE	368	118.345	64.149	28.737	1.00	50.44	A
ATOM	26373	C5	CYT	365	132.589	63.478	24.997	1.00	58.47	A16S	ATOM	26426	C4'	ADE	368	118.340	65.669	28.763	1.00	50.44	A
ATOM	26374	C2'	CYT	365	130.455	63.077	28.956	1.00	59.07	A16S	ATOM	26427	O4'	ADE	368	119.577	66.162	29.336	1.00	50.44	A
ATOM	26375	O2'	CYT	365	129.914	63.496	30.190	1.00	59.07	A16S	ATOM	26428	C1'	ADE	368	119.927	67.390	28.730	1.00	50.44	A
ATOM	26376	C3'	CYT	365	131.201	61.761	29.089	1.00	59.07	A16S	ATOM	26429	N9	ADE	368	121.160	67.173	27.978	1.00	77.07	A
ATOM	26377	O3'	CYT	365	130.510	60.870	29.940	1.00	59.07	A16S	ATOM	26430	C4	ADE	368	121.848	68.088	27.218	1.00	77.07	A
ATOM	26378	P	GUA	366	129.426	59.864	29.315	1.00	57.53	A16S	ATOM	26431	N3	ADE	368	121.538	69.379	27.010	1.00	77.07	A
ATOM	26379	O1P	GUA	366	128.929	59.013	30.433	1.00	61.47	A16S	ATOM	26432	C2	ADE	368	122.427	69.949	26.204	1.00	77.07	A
ATOM	26380	O2P	GUA	366	130.000	59.236	28.092	1.00	61.47	A16S	ATOM	26433	N1	ADE	368	123.510	69.420	25.627	1.00	77.07	A
ATOM	26381	O5'	GUA	366	128.231	60.800	28.866	1.00	57.53	A16S	ATOM	26434	C6	ADE	368	123.796	68.122	25.858	1.00	77.07	A
ATOM	26382	C5'	GUA	366	127.629	61.666	29.799	1.00	57.53	A16S	ATOM	26435	N6	ADE	368	124.881	67.591	25.288	1.00	77.07	A
ATOM	26383	C4'	GUA	366	126.702	62.597	29.089	1.00	57.53	A16S	ATOM	26436	C5	ADE	368	122.926	67.403	26.694	1.00	77.07	A
ATOM	26384	O4'	GUA	366	127.454	63.559	28.302	1.00	57.53	A16S	ATOM	26437	N7	ADE	368	122.923	66.085	27.121	1.00	77.07	A
ATOM	26385	C1'	GUA	366	126.702	63.910	27.151	1.00	57.53	A16S	ATOM	26438	C8	ADE	368	121.861	66.004	27.879	1.00	77.07	A
ATOM	26386	N9	GUA	366	127.460	63.539	25.963	1.00	61.47	A16S	ATOM	26439	C2'	ADE	368	118.746	67.801	27.843	1.00	50.44	A
ATOM	26387	C4	GUA	366	127.200	63.949	24.677	1.00	61.47	A16S	ATOM	26440	O2'	ADE	368	117.815	68.558	28.592	1.00	50.44	A
ATOM	26388	N3	GUA	366	126.216	64.791	24.297	1.00	61.47	A16S	ATOM	26441	C3'	ADE	368	118.155	66.450	27.470	1.00	50.44	A
ATOM	26389	C2	GUA	366	126.217	65.001	22.993	1.00	61.47	A16S	ATOM	26442	O3'	ADE	368	116.770	66.643	27.177	1.00	50.44	A
ATOM	26390	N2	GUA	366	125.309	65.828	22.446	1.00	61.47	A16S	ATOM	26443	P	ADE	369	116.322	67.168	25.717	1.00	59.38	A
ATOM	26391	N1	GUA	366	127.109	64.421	22.131	1.00	61.47	A16S	ATOM	26444	O1P	ADE	369	114.851	67.371	25.718	1.00	66.13	A
ATOM	26392	C6	GUA	366	128.130	63.554	22.501	1.00	61.47	A16S	ATOM	26445	O2P	ADE	369	116.927	66.258	24.711	1.00	66.13	A
ATOM	26393	O6	GUA	366	128.884	63.096	21.641	1.00	61.47	A16S	ATOM	26446	O5'	ADE	369	117.050	68.579	25.567	1.00	59.38	A
ATOM	26394	N7	GUA	366	128.142	63.326	23.899	1.00	61.47	A16S	ATOM	26447	C5'	ADE	369	116.462	69.786	26.038	1.00	59.38	A
ATOM	26395	C8	GUA	366	128.989	62.552	24.678	1.00	61.47	A16S	ATOM	26448	C4'	ADE	369	117.077	70.968	25.321	1.00	59.38	A
ATOM	26396	C8	GUA	366	128.548	62.712	25.894	1.00	61.47	A16S	ATOM	26449	O4'	ADE	369	118.520	70.941	25.492	1.00	59.38	A
ATOM	26397	C2'	GUA	366	125.396	63.129	27.237	1.00	57.53	A16S	ATOM	26450	C1'	ADE	369	119.157	71.339	24.288	1.00	59.38	A
ATOM	26398	O2'	GUA	366	124.476	63.923	27.939	1.00	57.53	A16S	ATOM	26451	N9	ADE	369	119.923	70.206	23.774	1.00	66.13	A
ATOM	26399	C3'	GUA	366	125.842	61.924	28.048	1.00	57.53	A16S	ATOM	26452	C4	ADE	369	120.814	70.239	22.729	1.00	66.13	A
ATOM	26400	O3'	GUA	366	124.793	61.173	28.647	1.00	57.53	A16S	ATOM	26453	N3	ADE	369	121.170	71.305	21.989	1.00	66.13	A
ATOM	26401	P	CYT	367	124.123	59.968	27.829	1.00	60.72	A16S	ATOM	26454	C2	ADE	369	122.064	70.956	21.069	1.00	66.13	A
ATOM	26402	O1P	CYT	367	123.168	59.278	28.725	1.00	62.21	A16S	ATOM	26455	N1	ADE	369	122.596	69.760	20.820	1.00	66.13	A
ATOM	26403	O2P	CYT	367	125.227	59.208	27.193	1.00	62.21	A16S	ATOM	26456	C6	ADE	369	122.211	68.712	21.577	1.00	66.13	A
ATOM	26404	O5'	CYT	367	123.291	60.752	26.733	1.00	60.72	A16S	ATOM	26457	N6	ADE	369	122.730	67.512	21.320	1.00	66.13	A
ATOM	26405	C5'	CYT	367	122.795	62.044	27.071	1.00	60.72	A16S	ATOM	26458	C5	ADE	369	121.276	68.948	22.591	1.00	66.13	A
ATOM	26406	C4'	CYT	367	121.945	62.600	25.977	1.00	60.72	A16S	ATOM	26459	N7	ADE	369	120.691	68.115	23.531	1.00	66.13	A
ATOM	26407	O4'	CYT	367	122.723	63.000	24.842	1.00	60.72	A16S	ATOM	26460	C8	ADE	369	119.903	68.908	24.208	1.00	66.13	A
ATOM	26408	C1'	CYT	367	121.884	63.001	23.721	1.00	60.72	A16S	ATOM	26461	C2'	ADE	369	118.064	71.754	23.309	1.00	59.38	A
ATOM	26409	N1	CYT	367	122.718	62.817	22.534	1.00	62.21	A16S	ATOM	26462	O2'	ADE	369	117.872	73.152	23.368	1.00	59.38	A
ATOM	26410	C6	CYT	367	123.918	62.178	22.621	1.00	62.21	A16S	ATOM	26463	C3'	ADE	369	116.883	70.946	23.820	1.00	59.38	A
ATOM	26411	C2	CYT	367	122.266	63.314	21.307	1.00	62.21	A16S	ATOM	26464	O3'	ADE	369	115.672	71.571	23.492	1.00	59.38	A
ATOM	26412	O2	CYT	367	121.158	63.921	21.259	1.00	62.21	A16S	ATOM	26465	P	URI	370	114.896	71.110	22.184	1.00	51.95	A

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ATOM	26466	O1P	URI	370	113.659	71.916	22.089	1.00	65.60	A16S	ATOM	26519	C2	GUA	372	118.543	60.594	14.216	1.00	61.77	A1
ATOM	26467	O2P	URI	370	114.811	69.637	22.249	1.00	65.60	A16S	ATOM	26520	N2	GUA	372	119.139	59.444	13.904	1.00	61.77	A1
ATOM	26468	O5'	URI	370	115.876	71.529	21.001	1.00	51.95	A16S	ATOM	26521	N1	GUA	372	118.070	60.697	15.495	1.00	61.77	A1
ATOM	26469	C5'	URI	370	116.125	72.908	20.704	1.00	51.95	A16S	ATOM	26522	C6	GUA	372	117.429	61.808	16.020	1.00	61.77	A1
ATOM	26470	CA'	URI	370	116.924	73.037	19.425	1.00	51.95	A16S	ATOM	26523	O6	GUA	372	117.032	61.791	17.191	1.00	61.77	A1
ATOM	26471	O4'	URI	370	118.313	72.684	19.664	1.00	51.95	A16S	ATOM	26524	C5	GUA	372	117.325	62.848	15.063	1.00	61.77	A1
ATOM	26472	C1'	URI	370	118.841	72.025	18.524	1.00	51.95	A16S	ATOM	26525	N7	GUA	372	116.776	64.116	15.168	1.00	61.77	A1
ATOM	26473	N1	URI	370	119.229	70.663	18.918	1.00	65.60	A16S	ATOM	26526	C8	GUA	372	116.950	64.641	13.989	1.00	61.77	A1
ATOM	26474	C6	URI	370	118.633	70.029	19.982	1.00	65.60	A16S	ATOM	26527	O2'	GUA	372	117.048	63.286	10.740	1.00	42.64	A1
ATOM	26475	C2	URI	370	120.197	70.032	18.169	1.00	65.60	A16S	ATOM	26528	O2'	GUA	372	117.824	62.896	9.626	1.00	42.64	A1
ATOM	26476	O2	URI	370	120.766	70.570	17.239	1.00	65.60	A16S	ATOM	26529	C3'	GUA	372	116.023	64.342	10.369	1.00	42.64	A1
ATOM	26477	N3	URI	370	120.476	68.743	18.551	1.00	65.60	A16S	ATOM	26530	O3'	GUA	372	115.496	64.098	9.085	1.00	42.64	A1
ATOM	26478	O4	URI	370	119.903	68.044	19.588	1.00	65.60	A16S	ATOM	26531	P	GUA	373	114.126	63.295	8.941	1.00	46.50	A1
ATOM	26479	O4	URI	370	120.250	66.881	19.797	1.00	65.60	A16S	ATOM	26532	O1P	GUA	373	113.618	63.483	7.559	1.00	55.27	A1
ATOM	26480	C5	URI	370	118.928	68.774	20.332	1.00	65.60	A16S	ATOM	26533	O2P	GUA	373	113.283	63.690	10.086	1.00	55.27	A1
ATOM	26481	C2'	URI	370	117.745	72.023	17.452	1.00	51.95	A16S	ATOM	26534	O5'	GUA	373	114.548	61.776	9.141	1.00	46.50	A1
ATOM	26482	O2'	URI	370	117.868	73.140	16.599	1.00	51.95	A16S	ATOM	26535	C5'	GUA	373	115.241	61.075	8.121	1.00	46.50	A1
ATOM	26483	C3'	URI	370	116.490	72.118	18.300	1.00	51.95	A16S	ATOM	26536	C4'	GUA	373	115.440	59.635	8.523	1.00	46.50	A1
ATOM	26484	O3'	URI	370	115.441	72.686	17.547	1.00	51.95	A16S	ATOM	26537	O4'	GUA	373	116.328	59.566	9.669	1.00	46.50	A1
ATOM	26485	P	GUA	371	114.488	71.725	16.698	1.00	40.81	A16S	ATOM	26538	C1'	GUA	373	115.926	58.508	10.518	1.00	46.50	A1
ATOM	26486	O1P	GUA	371	113.547	72.552	15.907	1.00	60.02	A16S	ATOM	26539	N9	GUA	373	115.528	59.094	11.788	1.00	55.27	A1
ATOM	26487	O2P	GUA	371	113.959	70.731	17.663	1.00	60.02	A16S	ATOM	26540	C4	GUA	373	115.553	58.488	13.015	1.00	55.27	A1
ATOM	26488	O5'	GUA	371	115.494	70.961	15.726	1.00	40.81	A16S	ATOM	26541	N3	GUA	373	115.963	57.232	13.270	1.00	55.27	A1
ATOM	26489	C5'	GUA	371	115.994	71.579	14.551	1.00	40.81	A16S	ATOM	26542	C2	GUA	373	115.872	56.936	14.551	1.00	55.27	A1
ATOM	26490	C4'	GUA	371	116.929	70.640	13.805	1.00	40.81	A16S	ATOM	26543	N2	GUA	373	116.248	55.727	14.984	1.00	55.27	A1
ATOM	26491	O1'	GUA	371	118.107	70.342	14.616	1.00	40.81	A16S	ATOM	26544	N1	GUA	373	115.412	57.804	15.503	1.00	55.27	A1
ATOM	26492	C1'	GUA	371	118.614	69.068	14.248	1.00	40.81	A16S	ATOM	26545	C6	GUA	373	114.987	59.100	15.259	1.00	55.27	A1
ATOM	26493	N9	GUA	371	118.579	68.190	15.415	1.00	60.02	A16S	ATOM	26546	O6	GUA	373	114.594	59.806	16.191	1.00	55.27	A1
ATOM	26494	C4	GUA	371	119.135	66.940	15.506	1.00	60.02	A16S	ATOM	26547	C5	GUA	373	115.080	59.428	13.893	1.00	55.27	A1
ATOM	26495	N3	GUA	371	119.858	66.328	14.552	1.00	60.02	A16S	ATOM	26548	N7	GUA	373	114.764	60.603	13.231	1.00	55.27	A1
ATOM	26496	C2	GUA	371	120.227	65.116	14.913	1.00	60.02	A16S	ATOM	26549	C8	GUA	373	115.049	60.358	11.987	1.00	55.27	A1
ATOM	26497	N2	GUA	371	120.953	64.367	14.073	1.00	60.02	A16S	ATOM	26550	C2'	GUA	373	114.776	57.788	9.818	1.00	46.50	A1
ATOM	26498	N1	GUA	371	119.912	64.550	16.117	1.00	60.02	A16S	ATOM	26551	O2'	GUA	373	115.303	56.746	9.022	1.00	46.50	A1
ATOM	26499	O6	GUA	371	119.171	65.165	17.117	1.00	60.02	A16S	ATOM	26552	C3'	GUA	373	114.193	58.917	8.987	1.00	46.50	A1
ATOM	26500	C6	GUA	371	118.940	64.562	18.172	1.00	60.02	A16S	ATOM	26553	O3'	GUA	373	113.465	58.428	7.988	1.00	47.48	A1
ATOM	26501	C5	GUA	371	118.773	66.467	16.742	1.00	60.02	A16S	ATOM	26554	P	CYT	374	111.873	58.316	7.882	1.00	47.48	A1
ATOM	26502	N7	GUA	371	118.042	67.415	17.435	1.00	60.02	A16S	ATOM	26555	O1P	CYT	374	111.341	57.939	6.655	1.00	54.63	A1
ATOM	26503	C8	GUA	371	117.956	68.422	16.612	1.00	60.02	A16S	ATOM	26556	O2P	CYT	374	111.364	59.537	8.678	1.00	54.63	A1
ATOM	26504	C2'	GUA	371	117.713	68.538	13.125	1.00	40.81	A16S	ATOM	26557	O5'	CYT	374	111.643	57.095	8.972	1.00	47.48	A1
ATOM	26505	O2'	GUA	371	118.234	68.925	11.873	1.00	40.81	A16S	ATOM	26558	C5'	CYT	374	111.943	55.776	8.557	1.00	47.48	A1
ATOM	26506	C3'	GUA	371	116.411	69.260	13.418	1.00	40.81	A16S	ATOM	26559	C4'	CYT	374	111.803	54.836	9.723	1.00	47.48	A1
ATOM	26507	O3'	GUA	371	115.587	69.291	12.256	1.00	40.81	A16S	ATOM	26560	O4'	CYT	374	112.729	55.238	10.766	1.00	47.48	A1
ATOM	26508	P	GUA	372	114.496	68.121	12.016	1.00	42.64	A16S	ATOM	26561	C1'	CYT	374	112.208	56.032	12.018	1.00	47.48	A1
ATOM	26509	O1P	GUA	372	113.729	68.410	10.776	1.00	61.77	A16S	ATOM	26562	N1	CYT	374	112.100	56.848	12.861	1.00	54.63	A1
ATOM	26510	O2P	GUA	372	113.769	67.863	13.292	1.00	61.77	A16S	ATOM	26563	C6	CYT	374	111.749	57.240	12.340	1.00	54.63	A1
ATOM	26511	O5'	GUA	372	115.389	66.863	11.667	1.00	42.64	A16S	ATOM	26564	C2	CYT	374	112.343	55.895	14.217	1.00	54.63	A1
ATOM	26512	C5'	GUA	372	116.126	66.863	10.467	1.00	42.64	A16S	ATOM	26565	O2	CYT	374	112.693	54.787	14.649	1.00	54.63	A1
ATOM	26513	C4'	GUA	372	116.877	65.586	10.329	1.00	42.64	A16S	ATOM	26566	N3	CYT	374	112.198	56.960	15.027	1.00	54.63	A1
ATOM	26514	O4'	GUA	372	117.749	65.436	11.468	1.00	42.64	A16S	ATOM	26567	C4	CYT	374	111.834	58.132	14.519	1.00	54.63	A1
ATOM	26515	C1'	GUA	372	117.932	64.058	11.726	1.00	42.64	A16S	ATOM	26568	N4	CYT	374	111.686	59.147	15.358	1.00	54.63	A1
ATOM	26516	N9	GUA	372	117.584	63.796	13.116	1.00	61.77	A16S	ATOM	26569	C5	CYT	374	111.602	58.309	13.128	1.00	54.63	A1
ATOM	26517	C4	GUA	372	117.830	62.640	13.803	1.00	61.77	A16S	ATOM	26570	C2'	CYT	374	110.842	54.208	11.767	1.00	47.48	A1
ATOM	26518	N3	GUA	372	118.443	61.549	13.312	1.00	61.77	A16S	ATOM	26571	O2'	CYT	374	111.010	52.807	11.661	1.00	47.48	A1

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ATOM	26572	C3' CYT	374	110.463	54.843	10.440	1.00	47.48	Al6S	ATOM	26625	N9	ADE	377	104.019	54.960	20.284	1.00	64.55	/
ATOM	26573	O3' CYT	374	109.496	54.072	9.739	1.00	47.48	Al6S	ATOM	26626	C4	ADE	377	104.454	53.744	20.745	1.00	64.55	/
ATOM	26574	P	375	107.937	54.475	9.833	1.00	47.52	Al6S	ATOM	26627	N3	ADE	377	104.325	53.248	21.988	1.00	64.55	/
ATOM	26575	O1P GUA	375	107.154	53.476	9.053	1.00	86.39	Al6S	ATOM	26628	C2	ADE	377	104.864	52.032	22.063	1.00	64.55	/
ATOM	26576	O2P GUA	375	107.796	55.919	9.507	1.00	86.39	Al6S	ATOM	26629	N1	ADE	377	105.465	51.312	21.110	1.00	64.55	/
ATOM	26577	O5' GUA	375	107.597	54.259	11.378	1.00	47.52	Al6S	ATOM	26630	C6	ADE	377	105.571	51.840	19.875	1.00	64.55	/
ATOM	26578	CS' GUA	375	107.566	52.950	11.950	1.00	47.52	Al6S	ATOM	26631	N6	ADE	377	106.156	51.119	18.924	1.00	64.55	/
ATOM	26579	C4' GUA	375	107.193	53.023	13.410	1.00	47.52	Al6S	ATOM	26632	C5	ADE	377	105.052	53.125	19.665	1.00	64.55	/
ATOM	26580	O4' GUA	375	108.257	53.657	14.159	1.00	47.52	Al6S	ATOM	26633	N7	ADE	377	105.017	53.947	18.549	1.00	64.55	/
ATOM	26581	Cl' GUA	375	107.707	54.385	15.244	1.00	47.52	Al6S	ATOM	26634	C8	ADE	377	104.400	55.020	18.969	1.00	64.55	/
ATOM	26582	N9	375	108.063	55.789	15.106	1.00	86.39	Al6S	ATOM	26635	C2'	ADE	377	104.148	56.841	21.945	1.00	64.65	/
ATOM	26583	C4	375	108.065	56.717	16.111	1.00	86.39	Al6S	ATOM	26636	O2'	ADE	377	103.435	57.168	23.121	1.00	64.65	/
ATOM	26584	N3	375	107.842	56.466	17.416	1.00	86.39	Al6S	ATOM	26637	C3'	ADE	377	104.383	58.043	21.039	1.00	64.65	/
ATOM	26585	C2	375	107.840	57.573	18.133	1.00	86.39	Al6S	ATOM	26638	O3'	ADE	377	104.616	59.202	21.818	1.00	64.65	/
ATOM	26586	N2	375	107.660	57.515	19.455	1.00	86.39	Al6S	ATOM	26639	P	ADE	378	106.081	59.478	22.408	1.00	58.08	/
ATOM	26587	N1	375	108.021	58.824	17.608	1.00	86.39	Al6S	ATOM	26640	O1P	ADE	378	106.039	60.748	23.186	1.00	75.70	/
ATOM	26588	C6	375	108.241	59.105	16.267	1.00	86.39	Al6S	ATOM	26641	O2P	ADE	378	107.044	59.338	21.276	1.00	75.70	/
ATOM	26589	O6	375	108.350	60.279	15.894	1.00	86.39	Al6S	ATOM	26642	O5'	ADE	378	106.337	58.282	23.434	1.00	58.08	/
ATOM	26590	C5	375	108.282	57.926	15.491	1.00	86.39	Al6S	ATOM	26643	C5'	ADE	378	105.824	58.318	24.769	1.00	58.08	/
ATOM	26591	N7	375	108.495	57.750	14.133	1.00	86.39	Al6S	ATOM	26644	C4'	ADE	378	106.134	57.021	25.479	1.00	58.08	/
ATOM	26592	C8	375	108.373	56.464	13.953	1.00	86.39	Al6S	ATOM	26645	O4'	ADE	378	105.575	55.930	24.701	1.00	58.08	/
ATOM	26593	C2'	375	106.185	54.249	15.173	1.00	47.52	Al6S	ATOM	26646	Cl'	ADE	378	106.441	54.809	24.750	1.00	58.08	/
ATOM	26594	O2'	375	105.752	53.288	16.096	1.00	47.52	Al6S	ATOM	26647	N9	ADE	378	106.928	54.543	23.402	1.00	75.70	/
ATOM	26595	C3'	375	105.968	53.865	13.714	1.00	47.52	Al6S	ATOM	26648	C4	ADE	378	107.565	53.403	22.987	1.00	75.70	/
ATOM	26596	O3'	375	104.788	53.099	13.537	1.00	47.52	Al6S	ATOM	26649	N3	ADE	378	107.870	52.327	23.728	1.00	75.70	/
ATOM	26597	P	376	103.534	53.736	12.773	1.00	56.92	Al6S	ATOM	26650	C2	ADE	378	108.479	51.410	22.985	1.00	75.70	/
ATOM	26598	O1P	376	104.086	54.513	11.647	1.00	69.07	Al6S	ATOM	26651	N1	ADE	378	108.789	51.442	21.681	1.00	75.70	/
ATOM	26599	O2P	376	102.549	52.652	12.497	1.00	56.92	Al6S	ATOM	26652	C6	ADE	378	108.465	52.540	20.967	1.00	75.70	/
ATOM	26600	O5'	376	102.919	54.737	13.849	1.00	56.92	Al6S	ATOM	26653	N6	ADE	378	108.762	52.572	19.663	1.00	75.70	/
ATOM	26601	C5'	376	102.010	55.757	13.462	1.00	56.92	Al6S	ATOM	26654	C5	ADE	378	107.826	53.587	21.642	1.00	75.70	/
ATOM	26602	C4'	376	101.278	56.291	14.673	1.00	56.92	Al6S	ATOM	26655	N7	ADE	378	107.373	54.825	21.220	1.00	75.70	/
ATOM	26603	O4'	376	100.397	55.256	15.198	1.00	56.92	Al6S	ATOM	26656	C8	ADE	378	106.851	55.351	22.299	1.00	75.70	/
ATOM	26604	Cl'	376	100.307	55.383	16.611	1.00	56.92	Al6S	ATOM	26657	C2'	ADE	378	107.574	55.157	25.707	1.00	58.08	/
ATOM	26605	N1	376	100.909	54.196	17.235	1.00	69.07	Al6S	ATOM	26658	O2'	ADE	378	107.221	54.717	26.998	1.00	58.08	/
ATOM	26606	C6	376	101.606	53.280	16.501	1.00	69.07	Al6S	ATOM	26659	C3'	ADE	378	107.610	56.673	25.590	1.00	58.08	/
ATOM	26607	C2	376	100.784	54.044	18.613	1.00	69.07	Al6S	ATOM	26660	O3'	ADE	378	108.172	57.232	26.765	1.00	58.08	/
ATOM	26608	O2	376	100.108	54.868	19.241	1.00	69.07	Al6S	ATOM	26661	P	GUA	379	109.514	58.102	26.670	1.00	64.07	/
ATOM	26609	N3	376	101.399	53.009	19.228	1.00	69.07	Al6S	ATOM	26662	O1P	GUA	379	110.035	58.244	28.054	1.00	75.26	/
ATOM	26610	C4	376	102.111	52.143	18.513	1.00	69.07	Al6S	ATOM	26663	O2P	GUA	379	109.198	59.323	25.877	1.00	75.26	/
ATOM	26611	N4	376	102.737	51.164	19.169	1.00	69.07	Al6S	ATOM	26664	O5'	GUA	379	110.517	57.198	25.818	1.00	64.07	/
ATOM	26612	C5	376	102.222	52.248	17.094	1.00	69.07	Al6S	ATOM	26665	C5'	GUA	379	110.803	55.862	26.213	1.00	64.07	/
ATOM	26613	C2'	376	101.114	56.626	16.999	1.00	56.92	Al6S	ATOM	26666	C4'	GUA	379	111.198	55.005	25.020	1.00	64.07	/
ATOM	26614	O2'	376	100.285	57.768	17.020	1.00	56.92	Al6S	ATOM	26667	O4'	GUA	379	110.319	55.274	23.894	1.00	64.07	/
ATOM	26615	C3'	376	102.136	56.678	15.874	1.00	56.92	Al6S	ATOM	26668	Cl'	GUA	379	110.986	54.933	22.692	1.00	64.07	/
ATOM	26616	O3'	376	102.692	57.987	15.771	1.00	56.92	Al6S	ATOM	26669	N9	GUA	379	110.962	56.078	21.790	1.00	75.26	/
ATOM	26617	P	377	104.088	58.330	16.509	1.00	64.65	Al6S	ATOM	26670	C4	GUA	379	111.302	56.071	20.459	1.00	75.26	/
ATOM	26618	O1P	377	104.244	59.810	16.493	1.00	64.55	Al6S	ATOM	26671	N3	GUA	379	111.742	55.003	19.760	1.00	75.26	/
ATOM	26619	O2P	377	105.153	57.478	15.925	1.00	64.55	Al6S	ATOM	26672	C2	GUA	379	111.969	55.304	18.492	1.00	75.26	/
ATOM	26620	O5'	377	103.862	57.930	18.036	1.00	64.65	Al6S	ATOM	26673	N2	GUA	379	112.416	54.364	17.652	1.00	75.26	/
ATOM	26621	C5'	377	103.140	58.787	18.921	1.00	64.65	Al6S	ATOM	26674	N1	GUA	379	111.777	56.550	17.953	1.00	75.26	/
ATOM	26622	C4'	377	103.062	58.170	20.296	1.00	64.65	Al6S	ATOM	26675	C6	GUA	379	111.324	57.662	18.654	1.00	75.26	/
ATOM	26623	O4'	377	102.599	56.803	20.142	1.00	64.65	Al6S	ATOM	26676	O6	GUA	379	111.183	58.743	18.067	1.00	75.26	/
ATOM	26624	Cl'	377	103.278	55.957	21.055	1.00	64.65	Al6S	ATOM	26677	C5	GUA	379	111.081	57.355	20.017	1.00	75.26	/

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ATOM	26678	N7	GUA	379	110.627	58.158	21.052	1.00	75.26	Al6S	ATOM	26731	C1' URI	382	122.664	59.852	16.241	1.00	50.80	Al
ATOM	26679	C8	GUA	379	110.579	57.361	22.084	1.00	75.26	Al6S	ATOM	26732	N1 URI	382	121.780	60.326	17.314	1.00	67.17	Al
ATOM	26680	C2' GUA	379	112.398	54.492	23.071	1.00	64.07	Al6S	ATOM	26733	C6 URI	382	121.820	59.783	18.572	1.00	67.17	Al	
ATOM	26681	O2' GUA	379	112.397	53.083	23.182	1.00	64.07	Al6S	ATOM	26734	C2 URI	382	120.930	61.361	17.018	1.00	67.17	Al	
ATOM	26682	C3' GUA	379	112.580	55.180	24.416	1.00	64.07	Al6S	ATOM	26735	O2 URI	382	120.822	61.819	15.903	1.00	67.17	Al	
ATOM	26683	O3' GUA	379	113.567	54.492	25.175	1.00	64.07	Al6S	ATOM	26736	N3 URI	382	120.202	61.835	18.077	1.00	67.17	Al	
ATOM	26684	P	CYT	380	115.129	54.824	24.939	1.00	49.02	Al6S	ATOM	26737	C4 URI	382	120.225	61.372	19.379	1.00	67.17	Al
ATOM	26685	O1P	CYT	380	115.940	54.074	25.937	1.00	64.51	Al6S	ATOM	26738	O4 URI	382	119.638	62.012	20.266	1.00	67.17	Al
ATOM	26686	O2P	CYT	380	115.271	56.304	24.854	1.00	64.51	Al6S	ATOM	26739	C5 URI	382	121.089	60.255	19.587	1.00	67.17	Al
ATOM	26687	O5' CYT	380	115.441	54.235	23.490	1.00	49.02	Al6S	ATOM	26740	C2' URI	382	124.136	60.209	16.486	1.00	50.80	Al	
ATOM	26688	C5' CYT	380	115.529	52.836	23.279	1.00	49.02	Al6S	ATOM	26741	O2' URI	382	124.709	60.474	15.224	1.00	50.80	Al	
ATOM	26689	C4' CYT	380	115.994	52.553	21.876	1.00	49.02	Al6S	ATOM	26742	C3' URI	382	124.657	58.917	17.114	1.00	50.80	Al	
ATOM	26690	O4' CYT	380	114.963	52.937	20.929	1.00	49.02	Al6S	ATOM	26743	O3' URI	382	126.047	58.661	16.986	1.00	50.80	Al	
ATOM	26691	C1' CYT	380	115.571	53.428	19.743	1.00	49.02	Al6S	ATOM	26744	P	GUA	383	127.104	59.500	17.841	1.00	59.86	Al
ATOM	26692	N1 CYT	380	115.189	54.838	19.578	1.00	64.51	Al6S	ATOM	26745	O1P GUA	383	128.212	58.584	18.161	1.00	47.41	Al	
ATOM	26693	C6 CYT	380	114.844	55.604	20.656	1.00	64.51	Al6S	ATOM	26746	O2P GUA	383	126.389	60.191	18.932	1.00	47.41	Al	
ATOM	26694	C2 CYT	380	115.195	55.385	18.299	1.00	64.51	Al6S	ATOM	26747	O5' GUA	383	127.643	60.544	16.760	1.00	59.86	Al	
ATOM	26695	O2 CYT	380	115.507	54.667	17.346	1.00	64.51	Al6S	ATOM	26748	C5' GUA	383	128.075	61.850	17.125	1.00	59.86	Al	
ATOM	26696	N3 CYT	380	114.860	56.680	18.133	1.00	64.51	Al6S	ATOM	26749	C4' GUA	383	129.572	61.908	17.106	1.00	59.86	Al	
ATOM	26697	C4 CYT	380	114.529	57.420	19.188	1.00	64.51	Al6S	ATOM	26750	O4' GUA	383	130.074	60.965	18.052	1.00	59.86	Al	
ATOM	26698	N4 CYT	380	114.202	58.690	18.975	1.00	64.51	Al6S	ATOM	26751	C1' GUA	383	131.374	60.648	17.678	1.00	59.86	Al	
ATOM	26699	C5 CYT	380	114.515	56.887	20.508	1.00	64.51	Al6S	ATOM	26752	N9 GUA	383	131.807	59.428	18.333	1.00	47.41	Al	
ATOM	26700	C2' CYT	380	117.082	53.287	19.930	1.00	49.02	Al6S	ATOM	26753	C4 GUA	383	132.986	59.286	19.009	1.00	47.41	Al	
ATOM	26701	O2' CYT	380	117.524	52.036	19.478	1.00	49.02	Al6S	ATOM	26754	N3 GUA	383	133.947	60.227	19.123	1.00	47.41	Al	
ATOM	26702	C3' CYT	380	117.195	53.362	21.435	1.00	49.02	Al6S	ATOM	26755	C2 GUA	383	134.963	59.811	19.858	1.00	47.41	Al	
ATOM	26703	O3' CYT	380	118.400	52.779	21.855	1.00	49.02	Al6S	ATOM	26756	N2 GUA	383	136.018	60.615	20.057	1.00	47.41	Al	
ATOM	26704	P	CYT	381	119.679	53.708	22.041	1.00	56.63	Al6S	ATOM	26757	N1 GUA	383	135.021	58.573	20.447	1.00	47.41	Al
ATOM	26705	O1P	CYT	381	120.745	52.936	22.724	1.00	67.18	Al6S	ATOM	26758	C6 GUA	383	134.038	57.589	20.340	1.00	47.41	Al
ATOM	26706	O2P	CYT	381	119.192	54.978	22.634	1.00	67.18	Al6S	ATOM	26759	O6 GUA	383	134.185	56.500	20.913	1.00	47.41	Al
ATOM	26707	O5' CYT	381	120.140	53.989	20.545	1.00	56.63	Al6S	ATOM	26760	C5 GUA	383	132.952	58.023	19.540	1.00	47.41	Al	
ATOM	26708	C5' CYT	381	120.411	52.915	19.660	1.00	56.63	Al6S	ATOM	26761	N7 GUA	383	131.786	57.368	19.173	1.00	47.41	Al	
ATOM	26709	C4' CYT	381	120.570	53.431	18.252	1.00	56.63	Al6S	ATOM	26762	C8 GUA	383	131.142	58.240	18.448	1.00	47.41	Al	
ATOM	26710	O4' CYT	381	119.287	53.859	17.729	1.00	56.63	Al6S	ATOM	26763	C2' GUA	383	131.511	60.794	16.169	1.00	59.86	Al	
ATOM	26711	C1' CYT	381	119.474	54.975	16.871	1.00	56.63	Al6S	ATOM	26764	O2' GUA	383	132.662	61.563	16.016	1.00	59.86	Al	
ATOM	26712	N1 CYT	381	118.835	56.139	17.492	1.00	67.18	Al6S	ATOM	26765	C3' GUA	383	130.240	61.561	15.781	1.00	59.86	Al	
ATOM	26713	C6 CYT	381	118.628	56.190	18.840	1.00	67.18	Al6S	ATOM	26766	O3' GUA	383	130.688	62.824	15.305	1.00	59.86	Al	
ATOM	26714	C2 CYT	381	118.468	57.205	16.683	1.00	67.18	Al6S	ATOM	26767	P	ADE	384	130.579	63.221	13.762	1.00	56.01	Al
ATOM	26715	O2 CYT	381	118.626	57.103	15.462	1.00	67.18	Al6S	ATOM	26768	O1P ADE	384	130.517	61.982	12.954	1.00	55.47	Al	
ATOM	26716	N3 CYT	381	117.944	58.316	17.247	1.00	67.18	Al6S	ATOM	26769	O2P ADE	384	131.670	64.191	13.519	1.00	55.47	Al	
ATOM	26717	C4 CYT	381	117.773	58.371	18.568	1.00	67.18	Al6S	ATOM	26770	O5' ADE	384	129.190	64.002	13.701	1.00	56.01	Al	
ATOM	26718	N4 CYT	381	117.280	59.494	19.091	1.00	67.18	Al6S	ATOM	26771	C5' ADE	384	128.705	64.448	12.456	1.00	56.01	Al	
ATOM	26719	C5 CYT	381	118.106	57.277	19.415	1.00	67.18	Al6S	ATOM	26772	C4' ADE	384	127.440	65.274	12.592	1.00	56.01	Al	
ATOM	26720	C2' CYT	381	120.983	55.197	16.763	1.00	56.63	Al6S	ATOM	26773	O4' ADE	384	126.331	64.499	13.104	1.00	56.01	Al	
ATOM	26721	O2' CYT	381	121.496	54.477	15.658	1.00	56.63	Al6S	ATOM	26774	C1' ADE	384	125.283	65.397	13.414	1.00	56.01	Al	
ATOM	26722	C3' CYT	381	121.444	54.658	18.107	1.00	56.63	Al6S	ATOM	26775	N9 ADE	384	124.768	65.116	14.749	1.00	55.47	Al	
ATOM	26723	O3' CYT	381	122.813	54.312	18.124	1.00	56.63	Al6S	ATOM	26776	C4 ADE	384	123.827	65.893	15.376	1.00	55.47	Al	
ATOM	26724	P	URI	382	123.821	55.161	19.036	1.00	50.80	Al6S	ATOM	26777	N3 ADE	384	123.235	66.995	14.890	1.00	55.47	Al
ATOM	26725	O1P	URI	382	125.142	54.465	19.079	1.00	67.17	Al6S	ATOM	26778	C2 ADE	384	122.377	67.489	15.769	1.00	55.47	Al
ATOM	26726	O2P	URI	382	123.110	55.489	20.297	1.00	67.17	Al6S	ATOM	26779	N1 ADE	384	122.064	67.044	16.986	1.00	55.47	Al
ATOM	26727	O5' URI	382	124.006	56.508	18.219	1.00	50.80	Al6S	ATOM	26780	C6 ADE	384	122.677	65.935	17.444	1.00	55.47	Al	
ATOM	26728	C5' URI	382	123.956	56.493	16.800	1.00	50.80	Al6S	ATOM	26781	N6 ADE	384	122.360	65.498	18.659	1.00	55.47	Al	
ATOM	26729	C4' URI	382	123.934	57.896	16.268	1.00	50.80	Al6S	ATOM	26782	C5 ADE	384	123.614	65.313	16.605	1.00	55.47	Al	
ATOM	26730	O4' URI	382	122.592	58.436	16.177	1.00	50.80	Al6S	ATOM	26783	N7 ADE	384	124.408	64.184	16.755	1.00	55.47	Al	

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ATOM	26784	C8	ADE	384	125.070	64.110	15.625	1.00	55.47	Al6S	ATOM	26837	C4'	GUA	387	129.420	72.972	25.849	1.00	52.68	A
ATOM	26785	C2'	ADE	384	125.875	66.807	13.325	1.00	56.01	Al6S	ATOM	26838	O4'	GUA	387	129.103	71.688	25.242	1.00	52.68	A
ATOM	26786	O2'	ADE	384	125.594	67.320	12.037	1.00	56.01	Al6S	ATOM	26839	C1'	GUA	387	129.965	70.695	25.766	1.00	52.68	A
ATOM	26787	C3'	ADE	384	127.363	66.524	13.444	1.00	56.01	Al6S	ATOM	26840	N9	GUA	387	130.720	70.100	24.669	1.00	59.77	A
ATOM	26788	O3'	ADE	384	128.029	67.616	12.835	1.00	56.01	Al6S	ATOM	26841	C4	GUA	387	131.618	69.071	24.780	1.00	59.77	A
ATOM	26789	P	CYT	385	128.662	68.777	13.749	1.00	52.83	Al6S	ATOM	26842	N3	GUA	387	131.925	68.413	25.914	1.00	59.77	A
ATOM	26790	O1P	CYT	385	128.668	70.014	12.923	1.00	50.95	Al6S	ATOM	26843	C2	GUA	387	132.844	67.493	25.716	1.00	59.77	A
ATOM	26791	O2P	CYT	385	129.931	68.283	14.346	1.00	50.95	Al6S	ATOM	26844	N2	GUA	387	133.266	66.744	26.740	1.00	59.77	A
ATOM	26792	O5'	CYT	385	127.633	68.968	14.945	1.00	52.83	Al6S	ATOM	26845	N1	GUA	387	133.417	67.238	24.500	1.00	59.77	A
ATOM	26793	C5'	CYT	385	126.452	69.729	14.781	1.00	52.83	Al6S	ATOM	26846	C6	GUA	387	133.111	67.897	23.318	1.00	59.77	A
ATOM	26794	O4'	CYT	385	125.597	69.628	16.019	1.00	52.83	Al6S	ATOM	26847	O6	GUA	387	133.686	67.581	22.278	1.00	59.77	A
ATOM	26795	O4'	CYT	385	125.383	68.223	16.322	1.00	52.83	Al6S	ATOM	26848	C5	GUA	387	132.125	68.888	23.517	1.00	59.77	A
ATOM	26796	C1'	CYT	385	125.381	68.035	17.722	1.00	52.83	Al6S	ATOM	26849	N7	GUA	387	131.536	69.765	22.620	1.00	59.77	A
ATOM	26797	N1	CYT	385	126.536	67.194	18.060	1.00	50.95	Al6S	ATOM	26850	C8	GUA	387	130.706	70.460	23.347	1.00	59.77	A
ATOM	26798	C6	CYT	385	127.673	67.242	17.306	1.00	50.95	Al6S	ATOM	26851	C2'	GUA	387	130.878	71.386	26.784	1.00	52.68	A
ATOM	26799	C2	CYT	385	126.460	66.346	19.163	1.00	50.95	Al6S	ATOM	26852	O2'	GUA	387	130.320	71.268	28.078	1.00	52.68	A
ATOM	26800	O2	CYT	385	125.413	66.317	19.823	1.00	50.95	Al6S	ATOM	26853	C3'	GUA	387	130.860	72.816	26.272	1.00	52.68	A
ATOM	26801	N3	CYT	385	127.532	65.581	19.483	1.00	50.95	Al6S	ATOM	26854	O3'	GUA	387	131.189	73.750	27.280	1.00	52.68	A
ATOM	26802	C4	CYT	385	128.641	65.650	18.746	1.00	50.95	Al6S	ATOM	26855	P	ADE	388	132.644	74.408	27.277	1.00	49.04	A
ATOM	26803	N4	CYT	385	129.680	64.907	19.105	1.00	50.95	Al6S	ATOM	26856	O1P	ADE	388	132.641	75.635	28.109	1.00	63.19	A
ATOM	26804	C5	CYT	385	128.737	66.494	17.610	1.00	50.95	Al6S	ATOM	26857	O2P	ADE	388	133.070	74.479	25.858	1.00	63.19	A
ATOM	26805	C2'	CYT	385	125.418	69.432	18.348	1.00	52.83	Al6S	ATOM	26858	O5'	ADE	388	133.559	73.313	27.977	1.00	49.04	A
ATOM	26806	O2'	CYT	385	124.095	69.927	18.416	1.00	52.83	Al6S	ATOM	26859	C5'	ADE	388	133.312	72.876	29.305	1.00	49.04	A
ATOM	26807	C3'	CYT	385	126.184	70.213	17.295	1.00	52.83	Al6S	ATOM	26860	C4'	ADE	388	134.114	71.635	29.579	1.00	49.04	A
ATOM	26808	O3'	CYT	385	125.824	71.593	17.360	1.00	52.83	Al6S	ATOM	26861	O4'	ADE	388	133.626	70.564	28.726	1.00	49.04	A
ATOM	26809	P	GUA	386	126.826	72.676	18.017	1.00	52.49	Al6S	ATOM	26862	C1'	ADE	388	134.712	69.735	28.328	1.00	49.04	A
ATOM	26810	O1P	GUA	386	126.398	73.997	17.486	1.00	59.93	Al6S	ATOM	26863	N9	ADE	388	134.862	69.843	26.886	1.00	63.19	A
ATOM	26811	O2P	GUA	386	128.240	72.245	17.880	1.00	59.93	Al6S	ATOM	26864	C4	ADE	388	135.704	68.110	26.514	1.00	63.19	A
ATOM	26812	O5'	GUA	386	126.477	72.651	19.566	1.00	52.49	Al6S	ATOM	26865	N3	ADE	388	136.514	68.100	26.514	1.00	63.19	A
ATOM	26813	C5'	GUA	386	125.165	72.942	20.022	1.00	52.49	Al6S	ATOM	26866	C2	ADE	388	137.207	67.621	25.486	1.00	63.19	A
ATOM	26814	C4'	GUA	386	125.028	72.516	21.543	1.00	52.49	Al6S	ATOM	26867	N1	ADE	388	137.181	67.993	24.201	1.00	63.19	A
ATOM	26815	O4'	GUA	386	125.063	71.065	21.543	1.00	52.49	Al6S	ATOM	26868	C6	ADE	388	136.349	68.990	23.838	1.00	63.19	A
ATOM	26816	C1'	GUA	386	125.798	70.678	22.689	1.00	52.49	Al6S	ATOM	26869	N6	ADE	388	136.317	69.364	22.563	1.00	63.19	A
ATOM	26817	N9	GUA	386	126.939	69.894	22.236	1.00	59.93	Al6S	ATOM	26870	C5	ADE	388	135.566	69.577	24.829	1.00	63.19	A
ATOM	26818	C4	GUA	386	127.644	68.956	22.954	1.00	59.93	Al6S	ATOM	26871	N7	ADE	388	134.636	70.602	24.793	1.00	63.19	A
ATOM	26819	N3	GUA	386	127.423	68.605	24.236	1.00	59.93	Al6S	ATOM	26872	C8	ADE	388	134.244	70.714	26.036	1.00	49.04	A
ATOM	26820	C2	GUA	386	128.247	67.655	24.637	1.00	59.93	Al6S	ATOM	26873	C2'	ADE	388	135.969	70.283	28.998	1.00	49.04	A
ATOM	26821	N2	GUA	386	128.164	67.185	25.884	1.00	59.93	Al6S	ATOM	26874	O2'	ADE	388	136.240	69.557	30.183	1.00	49.04	A
ATOM	26822	N1	GUA	386	129.212	67.097	23.844	1.00	59.93	Al6S	ATOM	26875	C3'	ADE	388	135.577	71.741	29.199	1.00	49.04	A
ATOM	26823	C6	GUA	386	129.460	67.446	22.523	1.00	59.93	Al6S	ATOM	26876	O3'	ADE	388	136.336	72.369	30.206	1.00	49.04	A
ATOM	26824	O6	GUA	386	130.362	66.878	21.891	1.00	59.93	Al6S	ATOM	26877	P	GUA	389	137.773	72.975	29.834	1.00	53.79	A
ATOM	26825	C5	GUA	386	128.585	68.462	22.082	1.00	59.93	Al6S	ATOM	26878	O1P	GUA	389	138.427	73.409	31.101	1.00	65.86	A
ATOM	26826	N7	GUA	386	128.493	69.092	20.852	1.00	59.93	Al6S	ATOM	26879	O2P	GUA	389	137.589	73.955	28.735	1.00	65.86	A
ATOM	26827	C8	GUA	386	127.506	69.932	20.992	1.00	59.93	Al6S	ATOM	26880	O5'	GUA	389	138.567	71.720	29.256	1.00	53.79	A
ATOM	26828	C2'	GUA	386	126.177	71.959	23.443	1.00	52.49	Al6S	ATOM	26881	C5'	GUA	389	138.891	70.626	30.100	1.00	53.79	A
ATOM	26829	O2'	GUA	386	125.212	72.273	24.435	1.00	52.49	Al6S	ATOM	26882	C4'	GUA	389	139.869	69.714	29.417	1.00	53.79	A
ATOM	26830	C3'	GUA	386	126.184	72.982	22.316	1.00	52.49	Al6S	ATOM	26883	O4'	GUA	389	139.246	69.081	28.271	1.00	53.79	A
ATOM	26831	O3'	GUA	386	125.948	74.304	22.781	1.00	52.49	Al6S	ATOM	26884	C1'	GUA	389	140.224	68.860	27.271	1.00	53.79	A
ATOM	26832	P	GUA	387	127.120	75.099	23.539	1.00	52.68	Al6S	ATOM	26885	N9	GUA	389	139.801	69.535	26.054	1.00	65.86	A
ATOM	26833	O1P	GUA	387	126.455	76.047	24.462	1.00	59.77	Al6S	ATOM	26886	C4	GUA	389	140.401	69.402	24.843	1.00	65.86	A
ATOM	26834	O2P	GUA	387	128.103	75.608	22.557	1.00	59.77	Al6S	ATOM	26887	N3	GUA	389	141.478	68.648	24.591	1.00	65.86	A
ATOM	26835	O5'	GUA	387	127.812	73.960	24.398	1.00	52.68	Al6S	ATOM	26888	C2	GUA	389	141.831	68.706	23.330	1.00	65.86	A
ATOM	26836	C5'	GUA	387	129.147	74.075	24.858	1.00	52.68	Al6S	ATOM	26889	N2	GUA	389	142.882	68.022	22.926	1.00	65.86	A

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ATOM	26890	N1	GUA	389	141.177	69.442	22.379	1.00	65.86	A16S	ATOM	26943	P	ADE	392	150.470	77.449	25.863	1.00	60.12	A1
ATOM	26891	C6	GUA	389	140.062	70.227	22.610	1.00	65.86	A16S	ATOM	26944	O1P	ADE	392	151.876	77.768	26.223	1.00	54.63	A1
ATOM	26892	O6	GUA	389	139.549	70.844	21.672	1.00	65.86	A16S	ATOM	26945	O2P	ADE	392	149.529	76.966	26.908	1.00	54.63	A1
ATOM	26893	C5	GUA	389	139.672	70.181	23.978	1.00	65.86	A16S	ATOM	26946	O5'	ADE	392	149.832	78.753	25.236	1.00	60.12	A1
ATOM	26894	N7	GUA	389	138.635	70.811	24.647	1.00	65.86	A16S	ATOM	26947	C5'	ADE	392	150.512	79.444	23.222	1.00	60.12	A1
ATOM	26895	C8	GUA	389	138.754	70.400	25.880	1.00	65.86	A16S	ATOM	26948	C4'	ADE	392	149.659	80.546	24.629	1.00	60.12	A1
ATOM	26896	C2'	GUA	389	141.549	69.422	27.786	1.00	53.79	A16S	ATOM	26949	O4'	ADE	392	149.418	81.507	24.758	1.00	60.12	A1
ATOM	26897	O2'	GUA	389	142.342	68.394	28.325	1.00	53.79	A16S	ATOM	26950	C1'	ADE	392	149.469	82.815	24.224	1.00	60.12	A1
ATOM	26898	O3'	GUA	389	141.062	70.422	28.823	1.00	53.79	A16S	ATOM	26951	N9	ADE	392	150.574	83.526	24.867	1.00	54.63	A1
ATOM	26899	C3'	GUA	389	142.022	70.692	29.815	1.00	53.79	A16S	ATOM	26952	C4	ADE	392	151.893	83.150	24.965	1.00	54.63	A1
ATOM	26900	P	CYT	390	142.910	72.012	29.695	1.00	49.32	A16S	ATOM	26953	N3	ADE	392	152.461	82.034	24.496	1.00	54.63	A1
ATOM	26901	O1P	CYT	390	143.669	72.204	30.956	1.00	54.91	A16S	ATOM	26954	C2	ADE	392	153.767	82.017	24.781	1.00	54.63	A1
ATOM	26902	O2P	CYT	390	142.010	73.078	29.223	1.00	54.91	A16S	ATOM	26955	N1	ADE	392	154.508	82.919	25.435	1.00	54.63	A1
ATOM	26903	O5'	CYT	390	143.917	71.639	28.522	1.00	49.32	A16S	ATOM	26956	C6	ADE	392	153.901	84.026	25.894	1.00	54.63	A1
ATOM	26904	C5'	CYT	390	144.840	70.565	28.668	1.00	49.32	A16S	ATOM	26957	N6	ADE	392	154.633	84.925	26.551	1.00	54.63	A1
ATOM	26905	C4'	CYT	390	145.640	70.396	27.401	1.00	49.32	A16S	ATOM	26958	C5	ADE	392	152.524	84.165	25.652	1.00	54.63	A1
ATOM	26906	O4'	CYT	390	144.765	69.932	26.348	1.00	49.32	A16S	ATOM	26959	N7	ADE	392	151.626	85.160	25.978	1.00	54.63	A1
ATOM	26907	C1'	CYT	390	145.210	70.447	25.104	1.00	49.32	A16S	ATOM	26960	C8	ADE	392	150.488	84.731	25.497	1.00	54.63	A1
ATOM	26908	N1	CYT	390	144.121	71.213	24.501	1.00	54.91	A16S	ATOM	26961	C2'	ADE	392	149.600	82.664	22.709	1.00	60.12	A1
ATOM	26909	C6	CYT	390	143.100	71.724	25.250	1.00	54.91	A16S	ATOM	26962	O2'	ADE	392	148.309	82.552	22.139	1.00	60.12	A1
ATOM	26910	C2	CYT	390	144.154	71.408	23.137	1.00	54.91	A16S	ATOM	26963	C3'	ADE	392	150.349	81.347	22.625	1.00	60.12	A1
ATOM	26911	O2	CYT	390	145.098	70.936	22.503	1.00	54.91	A16S	ATOM	26964	O3'	ADE	392	150.162	80.682	21.396	1.00	60.12	A1
ATOM	26912	N3	CYT	390	143.166	72.103	22.538	1.00	54.91	A16S	ATOM	26965	P	CYT	393	151.095	79.430	21.030	1.00	51.35	A1
ATOM	26913	C4	CYT	390	142.169	72.595	23.266	1.00	54.91	A16S	ATOM	26966	O1P	CYT	393	150.484	78.247	21.663	1.00	50.51	A1
ATOM	26914	N4	CYT	390	141.214	73.268	22.630	1.00	54.91	A16S	ATOM	26967	O2P	CYT	393	152.507	79.783	21.327	1.00	50.51	A1
ATOM	26915	C5	CYT	390	142.109	72.416	24.677	1.00	49.32	A16S	ATOM	26968	O5'	CYT	393	150.891	79.268	19.463	1.00	51.35	A1
ATOM	26916	C2'	CYT	390	146.429	71.319	25.374	1.00	49.32	A16S	ATOM	26969	C5'	CYT	393	151.193	80.344	18.580	1.00	51.35	A1
ATOM	26917	O2'	CYT	390	147.601	70.574	25.149	1.00	49.32	A16S	ATOM	26970	C4'	CYT	393	149.968	80.751	17.806	1.00	51.35	A1
ATOM	26918	C3'	CYT	390	146.205	71.678	26.830	1.00	49.32	A16S	ATOM	26971	O4'	CYT	393	148.995	79.678	17.821	1.00	50.51	A1
ATOM	26919	O3'	CYT	390	147.399	72.044	27.467	1.00	49.32	A16S	ATOM	26972	C1'	CYT	393	147.689	80.220	17.759	1.00	51.35	A1
ATOM	26920	P	GUA	391	147.743	73.596	27.623	1.00	62.32	A16S	ATOM	26973	N1	CYT	393	146.947	79.812	18.957	1.00	50.51	A1
ATOM	26921	O1P	GUA	391	148.981	73.694	28.447	1.00	51.90	A16S	ATOM	26974	C6	CYT	393	147.595	79.375	20.079	1.00	50.51	A1
ATOM	26922	O2P	GUA	391	146.514	74.324	28.041	1.00	51.90	A16S	ATOM	26975	C2	CYT	393	145.554	79.873	18.924	1.00	50.51	A1
ATOM	26923	O5'	GUA	391	148.120	74.018	26.142	1.00	62.32	A16S	ATOM	26976	O2	CYT	393	145.004	80.284	17.896	1.00	50.51	A1
ATOM	26924	C5'	GUA	391	149.349	73.593	25.583	1.00	62.32	A16S	ATOM	26977	N3	CYT	393	144.847	79.484	20.003	1.00	50.51	A1
ATOM	26925	C4'	GUA	391	149.556	74.245	24.250	1.00	62.32	A16S	ATOM	26978	C4	CYT	393	144.744	78.633	22.122	1.00	50.51	A1
ATOM	26926	O4'	GUA	391	148.586	73.719	23.316	1.00	62.32	A16S	ATOM	26979	N4	CYT	393	144.744	78.633	22.122	1.00	50.51	A1
ATOM	26927	C1'	GUA	391	148.251	74.720	22.378	1.00	62.32	A16S	ATOM	26980	C5	CYT	393	146.911	78.983	21.156	1.00	50.51	A1
ATOM	26928	N9	GUA	391	146.812	74.935	22.425	1.00	51.90	A16S	ATOM	26981	C2'	CYT	393	147.850	81.730	17.669	1.00	51.35	A1
ATOM	26929	C4	GUA	391	146.030	75.373	21.394	1.00	51.90	A16S	ATOM	26982	O2'	CYT	393	147.928	82.045	16.297	1.00	51.35	A1
ATOM	26930	N3	GUA	391	146.454	75.639	20.145	1.00	51.90	A16S	ATOM	26983	C3'	CYT	393	149.187	81.915	18.367	1.00	51.35	A1
ATOM	26931	C2	GUA	391	145.480	76.084	19.381	1.00	51.90	A16S	ATOM	26984	O3'	CYT	393	149.821	83.107	17.951	1.00	51.35	A1
ATOM	26932	N2	GUA	391	145.734	76.405	18.099	1.00	51.90	A16S	ATOM	26985	P	GUA	394	149.502	84.483	18.698	1.00	47.03	A1
ATOM	26933	N1	GUA	391	144.187	76.251	19.810	1.00	51.90	A16S	ATOM	26986	O1P	GUA	394	150.461	85.442	18.099	1.00	51.21	A1
ATOM	26934	C6	GUA	391	143.723	75.975	21.090	1.00	51.90	A16S	ATOM	26987	O2P	GUA	394	149.491	84.272	20.168	1.00	51.21	A1
ATOM	26935	O5	GUA	391	142.523	76.162	21.371	1.00	51.90	A16S	ATOM	26988	O5'	GUA	394	148.027	84.849	18.219	1.00	47.03	A1
ATOM	26936	C5	GUA	391	144.765	75.495	21.920	1.00	51.90	A16S	ATOM	26989	C5'	GUA	394	147.779	85.513	16.657	1.00	47.03	A1
ATOM	26937	N7	GUA	391	144.748	75.107	23.247	1.00	51.90	A16S	ATOM	26990	C4'	GUA	394	146.327	85.513	16.657	1.00	47.03	A1
ATOM	26938	C8	GUA	391	145.981	74.774	23.501	1.00	51.90	A16S	ATOM	26991	O4'	GUA	394	145.518	84.354	16.958	1.00	47.03	A1
ATOM	26939	C2'	GUA	391	149.064	75.963	22.741	1.00	62.32	A16S	ATOM	26992	C1'	GUA	394	144.256	84.773	17.450	1.00	47.03	A1
ATOM	26940	O2'	GUA	391	150.278	75.875	22.050	1.00	62.32	A16S	ATOM	26993	N9	GUA	394	144.017	84.132	18.739	1.00	51.21	A1
ATOM	26941	C3'	GUA	391	149.322	75.743	24.221	1.00	62.32	A16S	ATOM	26994	C4	GUA	394	142.818	84.038	19.383	1.00	51.21	A1
ATOM	26942	O3'	GUA	391	150.510	76.413	24.631	1.00	62.32	A16S	ATOM	26995	N3	GUA	394	141.657	84.551	18.951	1.00	51.21	A1

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ATOM	26996	C2	GUA	394	140.661	84.293	19.777	1.00	51.21	Al6S	ATOM	27049	O1P	GUA	397	140.220	96.592	25.495	1.00	56.21	f
ATOM	26997	N2	GUA	394	139.432	84.741	19.488	1.00	51.21	Al6S	ATOM	27050	O2P	GUA	397	141.924	94.698	25.159	1.00	56.21	f
ATOM	26998	N1	GUA	394	140.797	83.577	20.943	1.00	51.21	Al6S	ATOM	27051	O5'	GUA	397	139.962	94.393	26.661	1.00	46.02	f
ATOM	26999	C6	GUA	394	141.994	83.033	21.408	1.00	51.21	Al6S	ATOM	27052	C5'	GUA	397	138.590	94.505	27.028	1.00	46.02	f
ATOM	27000	O6	GUA	394	142.014	82.386	22.469	1.00	51.21	Al6S	ATOM	27053	C4'	GUA	397	138.324	93.716	28.285	1.00	46.02	f
ATOM	27001	C5	GUA	394	143.068	83.317	20.527	1.00	51.21	Al6S	ATOM	27054	O4'	GUA	397	138.439	92.294	28.006	1.00	46.02	f
ATOM	27002	N7	GUA	394	144.411	82.983	20.614	1.00	51.21	Al6S	ATOM	27055	C1'	GUA	397	139.011	91.629	28.129	1.00	46.02	f
ATOM	27003	C8	GUA	394	144.936	83.493	19.535	1.00	51.21	Al6S	ATOM	27056	N9	GUA	397	140.268	91.005	28.718	1.00	56.21	f
ATOM	27004	C2'	GUA	394	144.277	86.298	17.508	1.00	47.03	Al6S	ATOM	27057	C4	GUA	397	140.994	90.084	29.435	1.00	56.21	f
ATOM	27005	C3'	GUA	394	143.694	86.787	16.323	1.00	47.03	Al6S	ATOM	27058	N3	GUA	397	140.659	89.571	30.637	1.00	56.21	f
ATOM	27006	O2'	GUA	394	145.772	86.577	17.579	1.00	47.03	Al6S	ATOM	27059	C2	GUA	397	141.569	88.725	31.088	1.00	56.21	f
ATOM	27007	O3'	GUA	394	146.106	87.873	17.094	1.00	47.03	Al6S	ATOM	27060	N2	GUA	397	141.394	88.128	32.274	1.00	56.21	f
ATOM	27008	P	CYT	395	146.233	89.104	18.123	1.00	47.54	Al6S	ATOM	27061	N1	GUA	397	142.716	88.402	30.414	1.00	56.21	f
ATOM	27009	O1P	CYT	395	146.696	90.256	17.304	1.00	48.58	Al6S	ATOM	27062	C6	GUA	397	143.085	88.908	29.176	1.00	56.21	f
ATOM	27010	O2P	CYT	395	147.004	88.701	19.325	1.00	48.58	Al6S	ATOM	27063	O6	GUA	397	144.152	88.546	28.659	1.00	56.21	f
ATOM	27011	O5'	CYT	395	144.723	89.392	18.534	1.00	47.54	Al6S	ATOM	27064	C5	GUA	397	142.111	89.824	28.674	1.00	56.21	f
ATOM	27012	C5'	CYT	395	143.834	89.948	17.578	1.00	47.54	Al6S	ATOM	27065	N7	GUA	397	142.079	90.550	27.492	1.00	56.21	f
ATOM	27013	C4'	CYT	395	142.432	89.960	18.109	1.00	47.54	Al6S	ATOM	27066	C8	GUA	397	140.968	91.230	27.560	1.00	56.21	f
ATOM	27014	O4'	CYT	395	141.990	88.600	18.332	1.00	47.54	Al6S	ATOM	27067	C2'	GUA	397	139.192	92.688	30.218	1.00	46.02	f
ATOM	27015	C1'	CYT	395	141.128	88.559	19.456	1.00	47.54	Al6S	ATOM	27068	O2'	GUA	397	138.031	92.716	31.019	1.00	46.02	f
ATOM	27016	N1	CYT	395	141.749	87.728	20.495	1.00	48.58	Al6S	ATOM	27069	C3'	GUA	397	139.338	93.949	29.383	1.00	46.02	f
ATOM	27017	C6	CYT	395	143.096	87.525	20.528	1.00	48.58	Al6S	ATOM	27070	O3'	GUA	397	139.021	95.116	30.106	1.00	46.02	f
ATOM	27018	C2	CYT	395	140.933	87.161	21.456	1.00	48.58	Al6S	ATOM	27071	P	CYT	398	140.170	95.862	30.943	1.00	52.43	f
ATOM	27019	O2	CYT	395	139.712	87.358	21.379	1.00	48.58	Al6S	ATOM	27072	O1P	CYT	398	139.444	96.819	31.818	1.00	53.81	f
ATOM	27020	N3	CYT	395	141.481	86.412	22.440	1.00	48.58	Al6S	ATOM	27073	O2P	CYT	398	141.251	96.354	30.055	1.00	53.81	f
ATOM	27021	C4	CYT	395	142.794	86.220	22.469	1.00	48.58	Al6S	ATOM	27074	O5'	CYT	398	140.781	94.715	31.866	1.00	52.43	f
ATOM	27022	N4	CYT	395	143.298	85.473	23.446	1.00	48.58	Al6S	ATOM	27075	C5'	CYT	398	140.098	94.324	33.044	1.00	52.43	f
ATOM	27023	C5	CYT	395	143.654	86.785	21.490	1.00	48.58	Al6S	ATOM	27076	C4'	CYT	398	140.934	93.384	33.873	1.00	52.43	f
ATOM	27024	C2'	CYT	395	140.951	90.001	19.926	1.00	47.54	Al6S	ATOM	27077	O4'	CYT	398	141.174	92.153	33.148	1.00	52.43	f
ATOM	27025	O2'	CYT	395	139.821	90.548	19.289	1.00	47.54	Al6S	ATOM	27078	C1'	CYT	398	142.253	91.471	33.767	1.00	52.43	f
ATOM	27026	C3'	CYT	395	142.256	90.622	19.456	1.00	47.54	Al6S	ATOM	27079	N1	CYT	398	143.266	91.108	32.771	1.00	53.81	f
ATOM	27027	O3'	CYT	395	142.155	92.025	19.313	1.00	47.54	Al6S	ATOM	27080	C6	CYT	398	143.391	91.781	31.591	1.00	53.81	f
ATOM	27028	P	CYT	396	142.598	92.974	20.527	1.00	46.02	Al6S	ATOM	27081	C2	CYT	398	144.144	90.071	33.087	1.00	53.81	f
ATOM	27029	O1P	CYT	396	142.554	94.390	20.074	1.00	56.86	Al6S	ATOM	27082	O2	CYT	398	143.966	89.440	34.144	1.00	53.81	f
ATOM	27030	O2P	CYT	396	143.859	92.426	21.080	1.00	56.86	Al6S	ATOM	27083	N3	CYT	398	145.158	89.779	32.242	1.00	53.81	f
ATOM	27031	O5'	CYT	396	141.426	92.774	21.583	1.00	46.02	Al6S	ATOM	27084	C4	CYT	398	145.299	90.467	31.113	1.00	53.81	f
ATOM	27032	C5'	CYT	396	140.122	93.262	21.301	1.00	46.02	Al6S	ATOM	27085	N4	CYT	398	146.332	90.163	30.329	1.00	53.81	f
ATOM	27033	C4'	CYT	396	139.194	92.924	22.428	1.00	46.02	Al6S	ATOM	27086	C5	CYT	398	144.389	91.500	30.743	1.00	53.81	f
ATOM	27034	O4'	CYT	396	138.963	91.491	22.437	1.00	46.02	Al6S	ATOM	27087	C2'	CYT	398	142.855	92.439	34.785	1.00	52.43	f
ATOM	27035	C1'	CYT	396	138.890	91.024	23.776	1.00	46.02	Al6S	ATOM	27088	O2'	CYT	398	142.337	92.125	36.058	1.00	52.43	f
ATOM	27036	N1	CYT	396	140.076	90.187	24.043	1.00	56.86	Al6S	ATOM	27089	C3'	CYT	398	142.345	93.774	34.266	1.00	52.43	f
ATOM	27037	C6	CYT	396	141.230	90.365	23.339	1.00	56.86	Al6S	ATOM	27090	O3'	CYT	398	142.419	94.759	35.289	1.00	52.43	f
ATOM	27038	C2	CYT	396	140.015	89.236	25.067	1.00	56.86	Al6S	ATOM	27091	P	URI	399	143.848	95.420	35.650	1.00	51.18	f
ATOM	27039	O2	CYT	396	138.939	89.045	25.640	1.00	56.86	Al6S	ATOM	27092	O1P	URI	399	143.618	96.560	36.570	1.00	59.30	f
ATOM	27040	N3	CYT	396	141.127	88.550	25.403	1.00	56.86	Al6S	ATOM	27093	O2P	URI	399	144.598	95.643	34.385	1.00	51.18	f
ATOM	27041	C4	CYT	396	142.263	88.773	24.748	1.00	56.86	Al6S	ATOM	27094	O5'	URI	399	144.607	94.295	36.485	1.00	51.18	f
ATOM	27042	N4	CYT	396	143.354	88.121	25.151	1.00	56.86	Al6S	ATOM	27095	C5'	URI	399	144.099	93.872	37.747	1.00	51.18	f
ATOM	27043	C5	CYT	396	142.338	89.689	23.657	1.00	56.86	Al6S	ATOM	27096	O4'	URI	399	145.023	92.867	38.382	1.00	51.18	f
ATOM	27044	C2'	CYT	396	138.917	92.277	24.656	1.00	46.02	Al6S	ATOM	27097	C4'	URI	399	145.108	91.680	37.557	1.00	51.18	f
ATOM	27045	O2'	CYT	396	137.617	92.797	24.821	1.00	46.02	Al6S	ATOM	27098	C1'	URI	399	146.412	91.135	37.652	1.00	51.18	f
ATOM	27046	C3'	CYT	396	139.765	93.198	23.802	1.00	46.02	Al6S	ATOM	27099	N1	URI	399	147.010	91.147	36.315	1.00	59.30	f
ATOM	27047	O3'	CYT	396	139.624	94.554	24.176	1.00	46.02	Al6S	ATOM	27100	C6	URI	399	146.431	91.826	35.276	1.00	59.30	f
ATOM	27048	P	GUA	397	140.524	95.138	25.371	1.00	46.02	Al6S	ATOM	27101	C2	URI	399	148.190	90.467	36.151	1.00	59.30	f

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ATOM	27102	O2	URI	399	148.712	89.829	37.044	1.00	59.30	A16S	ATOM	27155	O1P	GUA	402	150.056	101.785	40.442	1.00	73.08	A
ATOM	27103	N3	URI	399	148.740	90.562	34.904	1.00	59.30	A16S	ATOM	27156	O2P	GUA	402	151.774	101.078	42.204	1.00	73.08	A
ATOM	27104	C4	URI	399	148.237	91.247	33.828	1.00	59.30	A16S	ATOM	27157	O5'	GUA	402	149.340	101.348	42.758	1.00	63.25	A
ATOM	27105	O4	URI	399	148.904	91.318	32.798	1.00	59.30	A16S	ATOM	27158	C5'	GUA	402	147.994	101.625	42.414	1.00	63.25	A
ATOM	27106	C5	URI	399	146.990	91.899	34.067	1.00	59.30	A16S	ATOM	27159	C4'	GUA	402	147.329	102.372	43.536	1.00	63.25	A
ATOM	27107	C2'	URI	399	147.212	92.008	38.622	1.00	51.18	A16S	ATOM	27160	O4'	GUA	402	147.125	101.477	44.658	1.00	63.25	A
ATOM	27108	O2'	URI	399	147.166	91.450	39.910	1.00	51.18	A16S	ATOM	27161	C1'	GUA	402	147.331	102.184	45.866	1.00	63.25	A
ATOM	27109	C3'	URI	399	146.459	93.326	38.533	1.00	51.18	A16S	ATOM	27162	N9	GUA	402	148.432	101.550	46.576	1.00	73.08	A
ATOM	27110	O3'	URI	399	146.599	94.084	39.719	1.00	51.18	A16S	ATOM	27163	C4	GUA	402	148.727	101.667	47.915	1.00	73.08	A
ATOM	27111	P	URI	400	147.796	95.132	39.845	1.00	54.24	A16S	ATOM	27164	N3	GUA	402	148.062	102.421	48.813	1.00	73.08	A
ATOM	27112	O1P	URI	400	147.614	95.877	41.119	1.00	67.44	A16S	ATOM	27165	C2	GUA	402	148.585	102.320	50.022	1.00	73.08	A
ATOM	27113	O2P	URI	400	147.883	95.874	38.562	1.00	67.44	A16S	ATOM	27166	N2	GUA	402	148.063	103.014	51.032	1.00	73.08	A
ATOM	27114	O5'	URI	400	149.075	94.203	39.994	1.00	54.24	A16S	ATOM	27167	N1	GUA	402	149.662	101.533	50.329	1.00	73.08	A
ATOM	27115	C5'	URI	400	149.234	93.410	41.152	1.00	54.24	A16S	ATOM	27168	C6	GUA	402	150.357	100.747	49.423	1.00	73.08	A
ATOM	27116	C4'	URI	400	150.481	92.579	41.054	1.00	54.24	A16S	ATOM	27169	O6	GUA	402	151.311	100.062	49.806	1.00	73.08	A
ATOM	27117	O4'	URI	400	150.364	91.663	39.941	1.00	54.24	A16S	ATOM	27170	C5	GUA	402	149.819	100.857	48.119	1.00	73.08	A
ATOM	27118	C1'	URI	400	151.633	91.477	39.350	1.00	54.24	A16S	ATOM	27171	N7	GUA	402	150.216	100.260	46.931	1.00	73.08	A
ATOM	27119	N1	URI	400	151.542	91.881	37.943	1.00	67.44	A16S	ATOM	27172	C8	GUA	402	149.368	100.705	46.045	1.00	73.08	A
ATOM	27120	C6	URI	400	150.490	92.633	37.480	1.00	67.44	A16S	ATOM	27173	C2'	GUA	402	147.604	103.646	45.510	1.00	63.25	A
ATOM	27121	C2	URI	400	152.537	91.461	37.099	1.00	67.44	A16S	ATOM	27174	O2'	GUA	402	146.386	104.362	45.567	1.00	63.25	A
ATOM	27122	O2	URI	400	153.501	90.833	37.485	1.00	67.44	A16S	ATOM	27175	C3'	GUA	402	148.156	103.519	44.097	1.00	63.25	A
ATOM	27123	N3	URI	400	152.366	91.808	35.784	1.00	67.44	A16S	ATOM	27176	P	ADE	403	147.926	104.700	43.337	1.00	63.25	A
ATOM	27124	C4	URI	400	151.332	92.532	35.248	1.00	67.44	A16S	ATOM	27177	O1P	ADE	403	148.938	105.944	43.459	1.00	72.65	A
ATOM	27125	O4	URI	400	151.280	92.693	34.033	1.00	67.44	A16S	ATOM	27178	O1P	ADE	403	148.400	107.028	42.603	1.00	61.04	A
ATOM	27126	C5	URI	400	150.356	92.967	36.195	1.00	67.44	A16S	ATOM	27179	O2P	ADE	403	150.325	105.456	43.246	1.00	61.04	A
ATOM	27127	C2'	URI	400	152.648	92.267	40.180	1.00	54.24	A16S	ATOM	27180	O5'	ADE	403	148.784	106.433	44.970	1.00	72.65	A
ATOM	27128	O2'	URI	400	153.190	91.403	41.159	1.00	54.24	A16S	ATOM	27181	C5'	ADE	403	147.768	107.366	45.332	1.00	72.65	A
ATOM	27129	C3'	URI	400	151.764	93.344	40.794	1.00	54.24	A16S	ATOM	27182	C4'	ADE	403	147.927	107.796	46.767	1.00	72.65	A
ATOM	27130	O3'	URI	400	152.282	93.778	42.039	1.00	54.24	A16S	ATOM	27183	O4'	ADE	403	147.742	106.657	47.645	1.00	72.65	A
ATOM	27131	P	GUA	401	153.357	94.958	42.092	1.00	66.70	A16S	ATOM	27184	C1'	ADE	403	148.613	106.774	48.756	1.00	72.65	A
ATOM	27132	O1P	GUA	401	154.147	94.889	40.848	1.00	60.96	A16S	ATOM	27185	N9	ADE	403	149.557	105.663	48.716	1.00	61.04	A
ATOM	27133	O2P	GUA	401	154.036	94.844	43.398	1.00	60.96	A16S	ATOM	27186	C4	ADE	403	150.366	105.259	49.751	1.00	61.04	A
ATOM	27134	O5'	GUA	401	152.485	96.293	42.133	1.00	66.70	A16S	ATOM	27187	N3	ADE	403	150.437	105.787	50.988	1.00	61.04	A
ATOM	27135	C5'	GUA	401	151.584	96.602	41.081	1.00	66.70	A16S	ATOM	27188	C2	ADE	403	151.341	105.140	51.726	1.00	61.04	A
ATOM	27136	C4'	GUA	401	150.253	97.070	41.629	1.00	66.70	A16S	ATOM	27189	N1	ADE	403	152.123	104.104	51.395	1.00	61.04	A
ATOM	27137	O4'	GUA	401	149.823	96.191	42.701	1.00	66.70	A16S	ATOM	27190	C6	ADE	403	152.027	103.598	50.149	1.00	61.04	A
ATOM	27138	C1'	GUA	401	148.958	96.903	43.569	1.00	66.70	A16S	ATOM	27191	N6	ADE	403	152.804	102.565	49.827	1.00	61.04	A
ATOM	27139	N9	GUA	401	149.493	96.863	44.923	1.00	60.96	A16S	ATOM	27192	C5	ADE	403	151.103	104.199	49.262	1.00	61.04	A
ATOM	27140	C4	GUA	401	148.907	97.414	46.036	1.00	60.96	A16S	ATOM	27193	N7	ADE	403	150.758	103.936	47.944	1.00	61.04	A
ATOM	27141	N3	GUA	401	147.730	98.070	46.068	1.00	60.96	A16S	ATOM	27194	C8	ADE	403	149.840	104.828	47.672	1.00	61.04	A
ATOM	27142	C2	GUA	401	147.420	98.467	47.287	1.00	60.96	A16S	ATOM	27195	C2'	ADE	403	149.336	108.117	48.634	1.00	72.65	A
ATOM	27143	N2	GUA	401	146.275	99.118	47.504	1.00	60.96	A16S	ATOM	27196	O2'	ADE	403	148.643	109.122	49.343	1.00	72.65	A
ATOM	27144	N1	GUA	401	148.210	98.251	48.384	1.00	60.96	A16S	ATOM	27197	C3'	ADE	403	149.298	108.338	47.131	1.00	72.65	A
ATOM	27145	C6	GUA	401	149.427	97.585	48.374	1.00	60.96	A16S	ATOM	27198	O3'	ADE	403	149.390	109.719	46.823	1.00	72.65	A
ATOM	27146	O6	GUA	401	150.059	97.448	49.421	1.00	60.96	A16S	ATOM	27199	P	GUA	404	150.829	110.402	46.671	1.00	68.98	A
ATOM	27147	C5	GUA	401	149.766	97.141	47.076	1.00	60.96	A16S	ATOM	27200	O1P	GUA	404	150.566	111.805	46.289	1.00	68.30	A
ATOM	27148	N7	GUA	401	150.870	96.430	46.628	1.00	60.96	A16S	ATOM	27201	O2P	GUA	404	151.688	109.548	45.817	1.00	68.30	A
ATOM	27149	C8	GUA	401	150.665	96.288	45.345	1.00	60.96	A16S	ATOM	27202	O5'	GUA	404	151.459	110.359	48.133	1.00	68.98	A
ATOM	27150	C2'	GUA	401	148.878	98.333	43.045	1.00	66.70	A16S	ATOM	27203	C5'	GUA	404	150.893	111.107	49.208	1.00	68.98	A
ATOM	27151	O2'	GUA	401	147.734	98.416	42.221	1.00	66.70	A16S	ATOM	27204	C4'	GUA	404	151.505	110.680	50.525	1.00	68.98	A
ATOM	27152	C3'	GUA	401	150.189	98.443	42.273	1.00	66.70	A16S	ATOM	27205	O4'	GUA	404	151.352	109.241	50.662	1.00	68.98	A
ATOM	27153	O3'	GUA	401	150.096	99.449	41.269	1.00	66.70	A16S	ATOM	27206	C1'	GUA	404	152.427	108.722	51.425	1.00	68.98	A
ATOM	27154	P	GUA	402	150.404	100.986	41.635	1.00	63.25	A16S	ATOM	27207	N9	GUA	404	153.088	107.675	50.653	1.00	68.30	A

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ATOM	27208	C4	GUA	404	154.091	106.848	51.092	1.00	68.30	Al6S	ATOM	27261	N7	ADE	406	163.583	111.608	47.737	1.00	79.61	P
ATOM	27209	N3	GUA	404	154.664	106.879	52.312	1.00	68.30	Al6S	ATOM	27262	C8	ADE	406	163.739	112.309	48.832	1.00	79.61	P
ATOM	27210	C2	GUA	404	155.582	105.935	52.449	1.00	68.30	Al6S	ATOM	27263	C2'	ADE	406	165.016	113.632	51.201	1.00	76.05	P
ATOM	27211	N2	GUA	404	156.249	105.816	53.599	1.00	68.30	Al6S	ATOM	27264	O2'	ADE	406	166.006	113.936	52.155	1.00	76.05	P
ATOM	27212	N1	GUA	404	155.916	105.038	51.466	1.00	68.30	Al6S	ATOM	27265	C3'	ADE	406	163.655	114.152	51.624	1.00	76.05	P
ATOM	27213	C6	GUA	404	155.346	104.992	50.199	1.00	68.30	Al6S	ATOM	27266	O3'	ADE	406	163.738	115.415	52.253	1.00	76.05	P
ATOM	27214	O6	GUA	404	155.731	104.144	49.382	1.00	68.30	Al6S	ATOM	27267	P	ADE	407	163.209	116.716	51.483	1.00	102.63	P
ATOM	27215	C5	GUA	404	154.351	105.997	50.040	1.00	68.30	Al6S	ATOM	27268	O1P	ADE	407	162.744	117.690	52.503	1.00	102.63	P
ATOM	27216	N7	GUA	404	153.541	106.294	48.957	1.00	68.30	Al6S	ATOM	27269	O2P	ADE	407	162.282	116.278	50.407	1.00	102.63	P
ATOM	27217	C8	GUA	404	152.816	107.300	49.362	1.00	68.30	Al6S	ATOM	27270	O5'	ADE	407	164.525	117.290	50.806	1.00	102.63	P
ATOM	27218	C2'	GUA	404	153.330	109.896	51.799	1.00	68.98	Al6S	ATOM	27271	C5'	ADE	407	165.794	117.150	51.435	1.00	102.63	P
ATOM	27219	O2'	GUA	404	152.917	110.394	53.051	1.00	68.98	Al6S	ATOM	27272	C4'	ADE	407	166.794	116.622	50.441	1.00	102.63	P
ATOM	27220	C3'	GUA	404	153.004	110.896	50.701	1.00	68.98	Al6S	ATOM	27273	O4'	ADE	407	166.387	117.032	49.118	1.00	102.63	P
ATOM	27221	O3'	GUA	404	153.289	112.210	51.178	1.00	68.98	Al6S	ATOM	27274	C1'	ADE	407	167.509	117.455	48.381	1.00	102.63	P
ATOM	27222	P	GUA	405	154.703	112.903	50.824	1.00	67.03	Al6S	ATOM	27275	N9	ADE	407	167.285	118.849	48.018	1.00	102.63	P
ATOM	27223	O1P	GUA	405	154.930	113.991	51.810	1.00	88.81	Al6S	ATOM	27276	C4	ADE	407	166.315	119.256	47.139	1.00	102.63	P
ATOM	27224	O2P	GUA	405	154.686	113.224	49.376	1.00	88.81	Al6S	ATOM	27277	N3	ADE	407	165.445	118.476	46.477	1.00	102.63	P
ATOM	27225	O5'	GUA	405	155.790	111.776	51.122	1.00	67.03	Al6S	ATOM	27278	C2	ADE	407	164.645	119.211	45.716	1.00	102.63	P
ATOM	27226	C5'	GUA	405	156.225	111.549	52.450	1.00	67.03	Al6S	ATOM	27279	N1	ADE	407	164.613	120.538	45.553	1.00	102.63	P
ATOM	27227	C4'	GUA	405	157.285	110.484	52.484	1.00	67.03	Al6S	ATOM	27280	C6	ADE	407	165.501	121.295	46.234	1.00	102.63	P
ATOM	27228	O4'	GUA	405	156.718	109.206	52.111	1.00	67.03	Al6S	ATOM	27281	N6	ADE	407	165.465	122.620	46.071	1.00	102.63	P
ATOM	27229	C1'	GUA	405	157.697	108.430	51.438	1.00	67.03	Al6S	ATOM	27282	C5	ADE	407	166.411	120.631	47.078	1.00	102.63	P
ATOM	27230	N9	GUA	405	157.197	108.129	50.102	1.00	88.81	Al6S	ATOM	27283	N7	ADE	407	167.432	121.086	47.903	1.00	102.63	P
ATOM	27231	C4	GUA	405	157.622	107.119	49.280	1.00	88.81	Al6S	ATOM	27284	C8	ADE	407	167.919	119.991	48.435	1.00	102.63	P
ATOM	27232	N3	GUA	405	158.592	106.229	49.557	1.00	88.81	Al6S	ATOM	27285	C2'	ADE	407	168.769	117.143	49.196	1.00	102.63	P
ATOM	27233	C2	GUA	405	158.762	105.365	48.576	1.00	88.81	Al6S	ATOM	27286	O2'	ADE	407	169.302	115.920	48.740	1.00	102.63	P
ATOM	27234	N2	GUA	405	159.692	104.413	48.680	1.00	88.81	Al6S	ATOM	27287	C3'	ADE	407	168.228	117.096	50.625	1.00	102.63	P
ATOM	27235	N1	GUA	405	158.031	105.368	47.420	1.00	88.81	Al6S	ATOM	27288	O3'	ADE	407	168.891	116.198	51.527	1.00	102.63	P
ATOM	27236	C6	GUA	405	157.015	106.267	47.122	1.00	88.81	Al6S	ATOM	27289	P	GUA	408	170.385	115.669	51.224	1.00	117.68	P
ATOM	27237	O5	GUA	405	156.385	106.158	46.060	1.00	88.81	Al6S	ATOM	27290	O1P	GUA	408	171.015	115.419	52.547	1.00	85.53	P
ATOM	27238	C5	GUA	405	156.839	107.212	48.154	1.00	88.81	Al6S	ATOM	27291	O2P	GUA	408	171.056	116.567	50.242	1.00	85.53	P
ATOM	27239	N7	GUA	405	155.957	108.276	48.255	1.00	88.81	Al6S	ATOM	27292	O5'	GUA	408	170.146	114.239	50.560	1.00	100.06	P
ATOM	27240	C8	GUA	405	156.206	108.791	49.425	1.00	88.81	Al6S	ATOM	27293	C5'	GUA	408	168.826	113.824	50.273	1.00	100.06	P
ATOM	27241	C2'	GUA	405	158.977	109.261	51.409	1.00	67.03	Al6S	ATOM	27294	C4'	GUA	408	168.756	112.364	49.898	1.00	100.06	P
ATOM	27242	O2'	GUA	405	159.769	108.923	52.525	1.00	67.03	Al6S	ATOM	27295	O4'	GUA	408	167.349	112.114	49.682	1.00	100.06	P
ATOM	27243	C3'	GUA	405	158.415	110.669	51.501	1.00	67.03	Al6S	ATOM	27296	C1'	GUA	408	167.150	111.648	48.377	1.00	100.06	P
ATOM	27244	O3'	GUA	405	159.364	111.571	52.023	1.00	67.03	Al6S	ATOM	27297	N9	GUA	408	166.631	112.764	47.595	1.00	100.06	P
ATOM	27245	P	ADE	406	159.524	113.011	51.353	1.00	76.05	Al6S	ATOM	27298	C4	GUA	408	166.130	112.708	46.331	1.00	85.53	A
ATOM	27246	O1P	ADE	406	158.710	113.982	52.133	1.00	79.61	Al6S	ATOM	27299	N3	GUA	408	166.117	111.624	45.544	1.00	85.53	A
ATOM	27247	O2P	ADE	406	159.273	112.853	49.899	1.00	79.61	Al6S	ATOM	27300	C2	GUA	408	165.531	111.865	44.397	1.00	85.53	A
ATOM	27248	O5'	ADE	406	161.065	113.326	51.562	1.00	76.05	Al6S	ATOM	27301	N2	GUA	408	165.469	110.913	43.491	1.00	85.53	A
ATOM	27249	C5'	ADE	406	161.708	113.036	52.792	1.00	76.05	Al6S	ATOM	27302	N1	GUA	408	164.973	113.065	44.055	1.00	85.53	A
ATOM	27250	C4'	ADE	406	163.200	113.092	52.608	1.00	76.05	Al6S	ATOM	27303	C6	GUA	408	164.967	114.198	44.855	1.00	85.53	A
ATOM	27251	O4'	ADE	406	163.680	111.850	52.037	1.00	76.05	Al6S	ATOM	27304	O6	GUA	408	164.417	115.230	44.460	1.00	85.53	A
ATOM	27252	C1'	ADE	406	164.761	112.122	51.161	1.00	76.05	Al6S	ATOM	27305	C5	GUA	408	165.624	113.964	46.078	1.00	85.53	A
ATOM	27253	N9	ADE	406	164.400	111.636	49.829	1.00	79.61	Al6S	ATOM	27306	N7	GUA	408	165.861	114.814	47.144	1.00	85.53	A
ATOM	27254	C4	ADE	406	164.678	110.392	49.319	1.00	79.61	Al6S	ATOM	27307	C8	GUA	408	166.476	114.064	48.016	1.00	85.53	A
ATOM	27255	N3	ADE	406	165.315	109.385	49.936	1.00	79.61	Al6S	ATOM	27308	C2'	GUA	408	168.462	111.001	47.957	1.00	100.06	A
ATOM	27256	C2	ADE	406	165.412	108.333	49.133	1.00	79.61	Al6S	ATOM	27309	O2'	GUA	408	168.477	109.702	48.513	1.00	100.06	A
ATOM	27257	N1	ADE	406	164.976	108.181	47.880	1.00	79.61	Al6S	ATOM	27310	C3'	GUA	408	169.473	111.926	48.617	1.00	100.06	A
ATOM	27258	C6	ADE	406	164.339	109.212	47.289	1.00	79.61	Al6S	ATOM	27311	O3'	GUA	408	170.707	111.269	48.950	1.00	100.06	A
ATOM	27259	N6	ADE	406	163.897	109.058	46.039	1.00	79.61	Al6S	ATOM	27312	P	ADE	409	171.101	109.842	48.283	1.00	86.02	A
ATOM	27260	C5	ADE	406	164.176	110.390	48.034	1.00	79.61	Al6S	ATOM	27313	O1P	ADE	409	172.584	109.796	48.237	1.00	81.61	A

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ATOM	27314	O2P ADE	409	170.337	109.601	47.035	1.00	81.61	A16S	ATOM	27367	C2	GUA	411	172.594	100.888	42.475	1.00	79.96	A1	
ATOM	27315	O5' ADE	409	170.652	108.755	49.366	1.00	86.02	A16S	ATOM	27368	N2	GUA	411	172.016	100.303	41.417	1.00	79.96	A1	
ATOM	27316	C5' ADE	409	171.003	108.919	50.747	1.00	86.02	A16S	ATOM	27369	N1	GUA	411	172.456	102.252	42.563	1.00	79.96	A1	
ATOM	27317	C4' ADE	409	171.207	107.577	51.435	1.00	86.02	A16S	ATOM	27370	C6	GUA	411	172.990	103.045	43.572	1.00	79.96	A1	
ATOM	27318	O4' ADE	409	169.951	106.861	51.527	1.00	86.02	A16S	ATOM	27371	O6	GUA	411	172.818	104.269	43.550	1.00	79.96	A1	
ATOM	27319	C1' ADE	409	170.201	105.466	51.525	1.00	86.02	A16S	ATOM	27372	C5	GUA	411	173.700	102.269	44.521	1.00	79.96	A1	
ATOM	27320	N9 ADE	409	169.411	104.852	50.457	1.00	81.61	A16S	ATOM	27373	N7	GUA	411	174.381	102.654	45.667	1.00	79.96	A1	
ATOM	27321	C4 ADE	409	169.301	103.508	50.200	1.00	81.61	A16S	ATOM	27374	C8	GUA	411	174.850	101.539	46.151	1.00	79.96	A1	
ATOM	27322	N3 ADE	409	169.868	102.500	50.879	1.00	81.61	A16S	ATOM	27375	C2'	GUA	411	175.991	98.555	44.730	1.00	83.01	A1	
ATOM	27323	C2 ADE	409	169.564	101.331	50.324	1.00	81.61	A16S	ATOM	27376	O2'	GUA	411	175.899	97.148	44.655	1.00	83.01	A1	
ATOM	27324	N1 ADE	409	168.818	101.074	49.247	1.00	81.61	A16S	ATOM	27377	C3'	GUA	411	177.229	98.986	45.498	1.00	83.01	A1	
ATOM	27325	C6 ADE	409	168.263	102.111	48.587	1.00	81.61	A16S	ATOM	27378	O3'	GUA	411	178.376	98.240	45.116	1.00	83.01	A1	
ATOM	27326	N6 ADE	409	167.529	101.857	47.502	1.00	81.61	A16S	ATOM	27379	P	CYT	412	179.464	98.899	44.132	1.00	96.72	A1	
ATOM	27327	C5 ADE	409	168.501	103.402	49.081	1.00	81.61	A16S	ATOM	27380	O1P	CYT	412	180.540	97.891	43.953	1.00	81.23	A1	
ATOM	27328	N7 ADE	409	168.087	104.655	48.655	1.00	81.61	A16S	ATOM	27381	O2P	CYT	412	179.815	100.265	44.601	1.00	81.23	A1	
ATOM	27329	C8 ADE	409	168.650	105.478	49.503	1.00	81.61	A16S	ATOM	27382	O5'	CYT	412	178.681	99.049	42.752	1.00	96.72	A1	
ATOM	27330	C2' ADE	409	171.712	105.257	51.368	1.00	86.02	A16S	ATOM	27383	C5'	CYT	412	178.274	97.899	42.012	1.00	96.72	A1	
ATOM	27331	O2' ADE	409	172.284	104.999	52.627	1.00	86.02	A16S	ATOM	27384	C4'	CYT	412	177.495	98.314	40.790	1.00	96.72	A1	
ATOM	27332	C3' ADE	409	172.171	106.592	50.789	1.00	86.02	A16S	ATOM	27385	O4'	CYT	412	176.246	98.927	41.202	1.00	96.72	A1	
ATOM	27333	O3' ADE	409	173.513	106.871	51.192	1.00	86.02	A16S	ATOM	27386	C1'	CYT	412	175.938	100.006	40.337	1.00	96.72	A1	
ATOM	27334	P	410	174.748	106.416	50.260	1.00	78.47	A16S	ATOM	27387	N1	CYT	412	175.939	101.245	41.129	1.00	81.23	A1	
ATOM	27335	O1P ADE	410	176.001	106.682	51.004	1.00	89.50	A16S	ATOM	27388	C6	CYT	412	176.657	101.336	42.287	1.00	81.23	A1	
ATOM	27336	O2P ADE	410	174.564	107.008	48.912	1.00	89.50	A16S	ATOM	27389	C2	CYT	412	175.195	102.336	40.675	1.00	81.23	A1	
ATOM	27337	O5' ADE	410	174.591	104.833	50.166	1.00	78.47	A16S	ATOM	27390	O2	CYT	412	174.557	102.226	39.624	1.00	81.23	A1	
ATOM	27338	C5' ADE	410	174.919	104.017	51.277	1.00	78.47	A16S	ATOM	27391	N3	CYT	412	175.191	103.481	41.390	1.00	81.23	A1	
ATOM	27339	C4' ADE	410	174.644	102.568	50.970	1.00	78.47	A16S	ATOM	27392	C4	CYT	412	175.897	103.562	42.516	1.00	81.23	A1	
ATOM	27340	O4' ADE	410	173.228	102.397	50.701	1.00	78.47	A16S	ATOM	27393	N4	CYT	412	175.868	104.713	43.187	1.00	81.23	A1	
ATOM	27341	C1' ADE	410	173.048	101.354	49.755	1.00	78.47	A16S	ATOM	27394	C5	CYT	412	176.666	102.466	43.005	1.00	81.23	A1	
ATOM	27342	N9 ADE	410	172.353	101.907	48.589	1.00	89.50	A16S	ATOM	27395	C2'	CYT	412	176.992	100.011	39.230	1.00	96.72	A1	
ATOM	27343	C4 ADE	410	171.706	101.197	47.605	1.00	89.50	A16S	ATOM	27396	O2'	CYT	412	176.541	99.234	38.141	1.00	96.72	A1	
ATOM	27344	N3 ADE	410	171.556	99.865	47.523	1.00	89.50	A16S	ATOM	27397	C3'	CYT	412	178.173	99.371	39.941	1.00	96.72	A1	
ATOM	27345	C2 ADE	410	170.886	99.533	46.420	1.00	89.50	A16S	ATOM	27398	O3'	CYT	412	179.085	98.781	39.030	1.00	96.72	A1	
ATOM	27346	N1 ADE	410	170.390	100.318	45.459	1.00	89.50	A16S	ATOM	27399	P	CYT	413	180.405	99.587	38.603	1.00	71.39	A1	
ATOM	27347	C6 ADE	410	170.560	101.653	45.568	1.00	89.50	A16S	ATOM	27400	O1P	CYT	413	180.943	100.220	39.829	1.00	84.39	A1	
ATOM	27348	N6 ADE	410	170.078	102.435	44.598	1.00	89.50	A16S	ATOM	27401	O2P	CYT	413	181.273	98.686	37.799	1.00	84.39	A1	
ATOM	27349	C5 ADE	410	171.247	102.136	46.702	1.00	89.50	A16S	ATOM	27402	O5'	CYT	413	179.859	100.761	37.669	1.00	71.39	A1	
ATOM	27350	N7 ADE	410	171.578	103.418	47.117	1.00	89.50	A16S	ATOM	27403	C5'	CYT	413	179.347	100.480	36.371	1.00	71.39	A1	
ATOM	27351	C8 ADE	410	172.226	103.227	48.239	1.00	89.50	A16S	ATOM	27404	C4'	CYT	413	178.742	101.722	35.751	1.00	71.39	A1	
ATOM	27352	C2' ADE	410	174.441	100.801	49.429	1.00	78.47	A16S	ATOM	27405	O4'	CYT	413	177.609	102.166	36.536	1.00	71.39	A1	
ATOM	27353	O2' ADE	410	174.746	99.716	50.277	1.00	78.47	A16S	ATOM	27406	C1'	CYT	413	177.467	103.573	36.404	1.00	71.39	A1	
ATOM	27354	C3' ADE	410	175.323	102.001	49.736	1.00	78.47	A16S	ATOM	27407	N1	CYT	413	177.540	104.167	37.739	1.00	84.39	A1	
ATOM	27355	O3' ADE	410	176.658	101.597	50.013	1.00	78.47	A16S	ATOM	27408	C6	CYT	413	178.182	103.519	38.754	1.00	84.39	A1	
ATOM	27356	P	GUA	411	177.802	101.848	48.914	1.00	83.01	A16S	ATOM	27409	C2	CYT	413	176.952	105.412	37.955	1.00	84.39	A1
ATOM	27357	O1P	GUA	411	179.128	101.481	49.467	1.00	79.96	A16S	ATOM	27410	O2	CYT	413	176.370	105.971	37.018	1.00	84.39	A1
ATOM	27358	O2P	GUA	411	177.588	103.209	48.366	1.00	79.96	A16S	ATOM	27411	N3	CYT	413	177.032	105.975	39.178	1.00	84.39	A1
ATOM	27359	O5'	GUA	411	177.456	100.805	47.768	1.00	83.01	A16S	ATOM	27412	C4	CYT	413	177.669	105.338	40.162	1.00	84.39	A1
ATOM	27360	C5'	GUA	411	177.549	99.409	48.006	1.00	83.01	A16S	ATOM	27413	N4	CYT	413	177.735	105.931	41.350	1.00	84.39	A1
ATOM	27361	C4'	GUA	411	176.820	98.653	46.923	1.00	83.01	A16S	ATOM	27414	C5	CYT	413	178.269	104.063	39.969	1.00	84.39	A1
ATOM	27362	O4'	GUA	411	175.409	98.995	46.972	1.00	83.01	A16S	ATOM	27415	C2'	CYT	413	178.595	104.067	35.499	1.00	71.39	A1
ATOM	27363	C1'	GUA	411	174.887	99.058	45.658	1.00	83.01	A16S	ATOM	27416	O2'	CYT	413	178.117	104.180	34.176	1.00	71.39	A1
ATOM	27364	N9	GUA	411	174.520	100.442	45.396	1.00	79.96	A16S	ATOM	27417	C3'	CYT	413	179.623	102.955	35.665	1.00	71.39	A1
ATOM	27365	C4	GUA	411	173.776	100.905	44.343	1.00	79.96	A16S	ATOM	27418	O3'	CYT	413	180.459	102.885	34.526	1.00	71.39	A1
ATOM	27366	N3	GUA	411	173.252	100.154	43.354	1.00	79.96	A16S	ATOM	27419	P	CYT	414	181.798	103.767	34.468	1.00	63.50	A1

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ATOM	27420	O1P	CYT	414	182.481	103.425	33.187	1.00	82.62	Al6S	ATOM	27473	O4	URI	416	181.653	117.915	31.360	1.00	82.52
ATOM	27421	O2P	CYT	414	182.519	103.597	35.757	1.00	82.62	Al6S	ATOM	27474	C5	URI	416	183.366	116.915	32.665	1.00	82.52
ATOM	27422	O5	CYT	414	181.288	105.275	34.367	1.00	63.50	Al6S	ATOM	27475	C2	URI	416	185.759	119.129	35.970	1.00	88.94
ATOM	27423	C5	CYT	414	180.782	105.769	33.145	1.00	63.50	Al6S	ATOM	27476	O2	URI	416	186.686	120.127	36.361	1.00	88.94
ATOM	27424	C4	CYT	414	180.314	107.189	33.302	1.00	63.50	Al6S	ATOM	27477	C3	URI	416	185.905	117.833	36.762	1.00	88.94
ATOM	27425	O4	CYT	414	179.290	107.269	34.328	1.00	63.50	Al6S	ATOM	27478	O3	URI	416	186.299	118.146	38.111	1.00	88.94
ATOM	27426	C1	CYT	414	179.346	108.545	34.950	1.00	63.50	Al6S	ATOM	27479	P	CYT	417	187.862	118.227	38.534	1.00	105.66
ATOM	27427	N1	CYT	414	179.612	108.355	36.388	1.00	82.62	Al6S	ATOM	27480	O1P	CYT	417	188.224	119.668	38.506	1.00	85.97
ATOM	27428	C6	CYT	414	179.797	107.105	36.909	1.00	82.62	Al6S	ATOM	27481	O2P	CYT	417	188.712	117.252	37.809	1.00	85.97
ATOM	27429	C2	CYT	414	179.676	109.478	37.215	1.00	82.62	Al6S	ATOM	27482	O5	CYT	417	187.847	117.769	40.058	1.00	105.66
ATOM	27430	O2	CYT	414	179.495	110.594	36.723	1.00	82.62	Al6S	ATOM	27483	C5	CYT	417	186.925	118.336	40.979	1.00	105.66
ATOM	27431	N3	CYT	414	179.933	109.317	38.528	1.00	82.62	Al6S	ATOM	27484	C4	CYT	417	186.510	117.304	41.996	1.00	105.66
ATOM	27432	C4	CYT	414	180.114	108.095	39.027	1.00	82.62	Al6S	ATOM	27485	O4	CYT	417	185.789	116.247	41.325	1.00	105.66
ATOM	27433	N4	CYT	414	180.361	107.986	40.331	1.00	82.62	Al6S	ATOM	27486	C1	CYT	417	185.970	115.035	42.027	1.00	105.66
ATOM	27434	C5	CYT	414	180.048	106.932	38.212	1.00	82.62	Al6S	ATOM	27487	N1	CYT	417	186.161	113.950	41.054	1.00	85.97
ATOM	27435	C2	CYT	414	180.456	109.323	34.244	1.00	63.50	Al6S	ATOM	27488	C6	CYT	417	186.535	114.220	39.768	1.00	85.97
ATOM	27436	O2	CYT	414	179.881	110.030	33.169	1.00	63.50	Al6S	ATOM	27489	C2	CYT	417	185.936	112.622	41.466	1.00	85.97
ATOM	27437	C3	CYT	414	181.347	108.190	33.763	1.00	63.50	Al6S	ATOM	27490	O2	CYT	417	185.612	112.400	42.642	1.00	85.97
ATOM	27438	O3	CYT	414	182.162	108.592	32.676	1.00	63.50	Al6S	ATOM	27491	N3	CYT	417	186.077	111.619	40.570	1.00	85.97
ATOM	27439	P	URI	415	183.679	109.036	32.945	1.00	79.84	Al6S	ATOM	27492	C4	CYT	417	186.431	111.897	39.312	1.00	85.97
ATOM	27440	O1P	URI	415	184.257	109.389	31.626	1.00	60.54	Al6S	ATOM	27493	N4	CYT	417	186.546	110.877	38.461	1.00	85.97
ATOM	27441	O2P	URI	415	184.343	107.999	33.779	1.00	60.54	Al6S	ATOM	27494	C5	CYT	417	186.680	113.235	38.871	1.00	85.97
ATOM	27442	O5	URI	415	183.531	110.373	33.803	1.00	79.84	Al6S	ATOM	27495	C2	CYT	417	187.075	115.221	43.074	1.00	105.66
ATOM	27443	C5	URI	415	183.082	111.583	33.192	1.00	79.84	Al6S	ATOM	27496	O2	CYT	417	186.530	115.085	44.366	1.00	105.66
ATOM	27444	C4	URI	415	183.018	112.707	34.206	1.00	79.84	Al6S	ATOM	27497	C3	CYT	417	187.648	116.596	42.711	1.00	105.66
ATOM	27445	O4	URI	415	182.065	112.361	35.243	1.00	79.84	Al6S	ATOM	27498	O3	CYT	417	188.193	117.402	43.773	1.00	105.66
ATOM	27446	C1	URI	415	182.484	112.909	36.480	1.00	79.84	Al6S	ATOM	27499	P	GUA	418	187.331	117.733	45.109	1.00	81.14
ATOM	27447	N1	URI	415	182.713	111.803	37.417	1.00	60.54	Al6S	ATOM	27500	O1P	GUA	418	188.098	118.801	45.802	1.00	94.34
ATOM	27448	C6	URI	415	182.909	110.521	36.968	1.00	60.54	Al6S	ATOM	27501	O2P	GUA	418	186.981	116.497	45.856	1.00	94.34
ATOM	27449	C2	URI	415	182.745	112.099	38.762	1.00	60.54	Al6S	ATOM	27502	O5	GUA	418	185.996	118.429	44.581	1.00	81.14
ATOM	27450	O2	URI	415	182.517	113.223	39.197	1.00	60.54	Al6S	ATOM	27503	C5	GUA	418	184.707	117.979	44.996	1.00	81.14
ATOM	27451	N3	URI	415	183.041	111.031	39.582	1.00	60.54	Al6S	ATOM	27504	O4	GUA	418	183.674	119.053	44.739	1.00	81.14
ATOM	27452	C4	URI	415	183.282	109.727	39.190	1.00	60.54	Al6S	ATOM	27505	C4	GUA	418	183.951	119.707	43.475	1.00	81.14
ATOM	27453	O4	URI	415	183.633	108.899	40.023	1.00	60.54	Al6S	ATOM	27506	C1	GUA	418	182.735	120.062	42.850	1.00	81.14
ATOM	27454	C5	URI	415	183.181	109.501	37.787	1.00	60.54	Al6S	ATOM	27507	N9	GUA	418	182.734	119.529	41.489	1.00	94.34
ATOM	27455	C2	URI	415	183.760	113.711	36.213	1.00	79.84	Al6S	ATOM	27508	C4	GUA	418	182.764	118.207	41.097	1.00	94.34
ATOM	27456	O2	URI	415	183.444	115.067	35.976	1.00	79.84	Al6S	ATOM	27509	N3	GUA	418	182.778	117.131	41.912	1.00	94.34
ATOM	27457	C3	URI	415	184.297	113.022	34.967	1.00	79.84	Al6S	ATOM	27510	C2	GUA	418	182.827	115.995	41.230	1.00	94.34
ATOM	27458	O3	URI	415	185.152	113.898	34.233	1.00	79.84	Al6S	ATOM	27511	N2	GUA	418	182.844	114.822	41.881	1.00	94.34
ATOM	27459	P	URI	416	186.739	113.633	34.224	1.00	88.94	Al6S	ATOM	27512	N1	GUA	418	182.864	115.922	39.860	1.00	94.34
ATOM	27460	O1P	URI	416	187.152	113.588	32.802	1.00	82.52	Al6S	ATOM	27513	C6	GUA	418	182.857	117.016	39.003	1.00	94.34
ATOM	27461	O2P	URI	416	187.017	112.469	35.107	1.00	82.52	Al6S	ATOM	27514	O6	GUA	418	182.911	116.843	37.781	1.00	94.34
ATOM	27462	O5	URI	416	187.371	114.943	34.882	1.00	88.94	Al6S	ATOM	27515	C5	GUA	418	182.794	118.237	39.718	1.00	94.34
ATOM	27463	C5	URI	416	186.778	115.553	36.027	1.00	88.94	Al6S	ATOM	27516	N7	GUA	418	182.762	119.543	39.253	1.00	94.34
ATOM	27464	C4	URI	416	186.938	117.053	35.960	1.00	88.94	Al6S	ATOM	27517	C8	GUA	418	182.723	120.271	40.334	1.00	94.34
ATOM	27465	O4	URI	416	186.768	117.463	34.589	1.00	88.94	Al6S	ATOM	27518	C2	GUA	418	181.581	119.633	43.757	1.00	81.14
ATOM	27466	C1	URI	416	186.044	118.669	34.538	1.00	88.94	Al6S	ATOM	27519	O2	GUA	418	181.130	120.743	44.503	1.00	81.14
ATOM	27467	N1	URI	416	184.858	118.437	33.710	1.00	82.52	Al6S	ATOM	27520	C3	GUA	418	182.234	118.571	44.637	1.00	81.14
ATOM	27468	C6	URI	416	184.422	117.162	33.441	1.00	82.52	Al6S	ATOM	27521	O3	GUA	418	181.629	118.575	45.924	1.00	81.14
ATOM	27469	C2	URI	416	184.209	119.539	33.197	1.00	82.52	Al6S	ATOM	27522	P	GUA	419	180.537	117.460	46.308	1.00	110.92
ATOM	27470	O2	URI	416	184.567	120.677	33.425	1.00	82.52	Al6S	ATOM	27523	O1P	GUA	419	179.713	118.022	47.406	1.00	90.95
ATOM	27471	N3	URI	416	183.126	119.257	32.406	1.00	82.52	Al6S	ATOM	27524	O2P	GUA	419	181.243	116.172	46.510	1.00	90.95
ATOM	27472	C4	URI	416	182.640	118.009	32.086	1.00	82.52	Al6S	ATOM	27525	O5	GUA	419	179.602	117.346	45.023	1.00	110.92

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ATOM	27526	C5' GUA	419	178.887	118.477	44.534	1.00110.92	A16S	27579	C2 GUA	421	173.751	105.671	39.029	1.00 72.47	A
ATOM	27527	C4' GUA	419	178.438	118.240	43.107	1.00110.92	A16S	27580	N2 GUA	421	173.882	104.463	38.471	1.00 72.47	A
ATOM	27528	O4' GUA	419	179.550	117.688	42.342	1.00110.92	A16S	27581	N1 GUA	421	174.152	105.775	40.337	1.00 72.47	A
ATOM	27529	C1' GUA	419	179.064	116.752	41.388	1.00110.92	A16S	27582	C6 GUA	421	174.124	106.942	41.089	1.00 72.47	A
ATOM	27530	N9 GUA	419	179.508	115.420	41.782	1.00 90.95	A16S	27583	O6 GUA	421	174.507	106.927	42.261	1.00 72.47	A
ATOM	27531	C4 GUA	419	179.575	114.311	40.975	1.00 90.95	A16S	27584	C5 GUA	421	173.625	108.033	40.337	1.00 72.47	A
ATOM	27532	N3 GUA	419	179.277	114.268	39.660	1.00 90.95	A16S	27585	N7 GUA	421	173.444	109.360	40.693	1.00 72.47	A
ATOM	27533	C2 GUA	419	179.420	113.050	39.160	1.00 90.95	A16S	27586	C8 GUA	421	172.961	109.918	39.618	1.00 72.47	A
ATOM	27534	N2 GUA	419	179.173	112.829	37.866	1.00 90.95	A16S	27587	C2' GUA	421	170.812	108.949	37.107	1.00 75.61	A
ATOM	27535	N1 GUA	419	179.819	111.962	39.895	1.00 90.95	A16S	27588	O2' GUA	421	170.564	108.415	35.823	1.00 75.61	A
ATOM	27536	C6 GUA	419	180.133	111.984	41.249	1.00 90.95	A16S	27589	C3' GUA	421	170.137	110.295	37.323	1.00 75.61	A
ATOM	27537	O6 GUA	419	180.485	110.945	41.816	1.00 90.95	A16S	27590	O3' GUA	421	168.881	110.352	36.694	1.00 75.61	A
ATOM	27538	C5 GUA	419	179.989	113.285	41.797	1.00 90.95	A16S	27591	P URI	422	167.591	109.840	37.478	1.00 65.21	A
ATOM	27539	N8 GUA	419	180.199	113.744	43.089	1.00 90.95	A16S	27592	O1P URI	422	166.433	110.090	36.590	1.00 80.82	A
ATOM	27540	C7 GUA	419	179.908	115.015	43.031	1.00 90.95	A16S	27593	O2P URI	422	167.611	110.425	38.837	1.00 80.82	A
ATOM	27541	C2' GUA	419	177.543	116.837	41.447	1.00110.92	A16S	27594	O5' URI	422	167.817	108.265	37.600	1.00 65.21	A
ATOM	27542	O2' GUA	419	177.102	117.852	40.572	1.00110.92	A16S	27595	C5' URI	422	167.658	107.416	36.466	1.00 65.21	A
ATOM	27543	C3' GUA	419	177.343	117.206	42.907	1.00110.92	A16S	27596	C4' URI	422	167.998	105.986	36.819	1.00 65.21	A
ATOM	27544	O3' GUA	419	176.051	117.748	43.142	1.00110.92	A16S	27597	O4' URI	422	169.353	105.943	37.327	1.00 65.21	A
ATOM	27545	P	420	174.761	116.814	42.950	1.00 80.40	A16S	27598	C1' URI	422	169.465	104.925	38.305	1.00 65.21	A
ATOM	27546	O1P GUA	420	173.587	117.457	43.594	1.00 78.84	A16S	27599	N1 URI	422	169.960	105.536	39.547	1.00 80.82	A
ATOM	27547	O2P GUA	420	175.141	115.428	43.327	1.00 78.84	A16S	27600	C6 URI	422	169.841	106.887	39.769	1.00 80.82	A
ATOM	27548	O5' GUA	420	174.534	116.846	41.381	1.00 80.40	A16S	27601	C2 URI	422	170.560	104.711	40.484	1.00 80.82	A
ATOM	27549	C5' GUA	420	173.774	115.840	40.763	1.00 80.40	A16S	27602	O2 URI	422	170.673	103.505	40.335	1.00 80.82	A
ATOM	27550	C4' GUA	420	174.255	115.599	39.360	1.00 80.40	A16S	27603	N3 URI	422	171.022	105.351	41.604	1.00 80.82	A
ATOM	27551	O4' GUA	420	175.666	115.252	39.333	1.00 80.40	A16S	27604	C4 URI	422	170.943	106.700	41.882	1.00 80.82	A
ATOM	27552	C1' GUA	420	175.868	114.138	38.473	1.00 80.40	A16S	27605	O4 URI	422	171.453	107.134	42.915	1.00 80.82	A
ATOM	27553	N9 GUA	420	176.217	113.009	39.325	1.00 78.84	A16S	27606	C5 URI	422	170.299	107.481	40.874	1.00 80.82	A
ATOM	27554	C4 GUA	420	176.287	111.671	38.986	1.00 78.84	A16S	27607	C2' URI	422	168.099	104.245	38.423	1.00 65.21	A
ATOM	27555	N3 GUA	420	176.016	111.130	37.778	1.00 78.84	A16S	27608	O2' URI	422	168.060	103.096	37.604	1.00 65.21	A
ATOM	27556	C2 GUA	420	176.196	109.810	37.773	1.00 78.84	A16S	27609	C3' URI	422	167.165	105.332	37.910	1.00 65.21	A
ATOM	27557	N2 GUA	420	175.981	109.102	36.665	1.00 78.84	A16S	27610	O3' URI	422	166.009	104.727	37.345	1.00 65.21	A
ATOM	27558	N1 GUA	420	176.605	109.088	38.857	1.00 78.84	A16S	27611	P	423	164.650	104.636	38.199	1.00 63.35	A
ATOM	27559	C6 GUA	420	176.893	109.623	40.107	1.00 78.84	A16S	27612	O1P GUA	423	164.939	103.870	39.434	1.00 75.23	A
ATOM	27560	C5 GUA	420	177.272	108.881	41.021	1.00 78.84	A16S	27613	O2P GUA	423	163.558	104.185	37.300	1.00 75.23	A
ATOM	27561	O6 GUA	420	176.701	111.031	40.133	1.00 78.84	A16S	27614	O5' GUA	423	164.360	106.152	38.575	1.00 63.35	A
ATOM	27562	N7 GUA	420	176.867	111.936	41.170	1.00 78.84	A16S	27615	C5' GUA	423	163.107	106.548	39.110	1.00 63.35	A
ATOM	27563	C8 GUA	420	176.562	113.089	40.647	1.00 78.84	A16S	27616	C4' GUA	423	163.343	107.410	40.309	1.00 63.35	A
ATOM	27564	C2' GUA	420	174.559	113.940	37.715	1.00 80.40	A16S	27617	O4' GUA	423	163.953	106.599	41.331	1.00 63.35	A
ATOM	27565	O2' GUA	420	174.560	114.766	36.570	1.00 80.40	A16S	27618	C1' GUA	423	164.834	107.394	42.084	1.00 63.35	A
ATOM	27566	C3' GUA	420	173.569	114.392	38.773	1.00 80.40	A16S	27619	N9 GUA	423	165.997	106.603	42.467	1.00 75.23	A
ATOM	27567	O3' GUA	420	172.281	114.776	38.342	1.00 80.40	A16S	27620	C4 GUA	423	166.919	106.937	43.422	1.00 75.23	A
ATOM	27568	P	421	171.008	114.220	39.139	1.00 75.61	A16S	27621	N3 GUA	423	166.944	108.085	44.127	1.00 75.23	A
ATOM	27569	O1P GUA	421	169.861	115.137	38.908	1.00 72.47	A16S	27622	C2 GUA	423	167.943	108.114	44.987	1.00 75.23	A
ATOM	27570	O2P GUA	421	171.448	113.933	40.524	1.00 72.47	A16S	27623	N2 GUA	423	168.132	109.196	45.743	1.00 75.23	A
ATOM	27571	O5' GUA	421	170.755	112.817	38.430	1.00 75.61	A16S	27624	N1 GUA	423	168.835	107.089	45.161	1.00 75.23	A
ATOM	27572	C5' GUA	421	170.962	112.685	37.024	1.00 75.61	A16S	27625	C6 GUA	423	168.827	105.894	44.452	1.00 75.23	A
ATOM	27573	C4' GUA	421	171.099	111.238	36.640	1.00 75.61	A16S	27626	O6 GUA	423	169.679	105.029	44.695	1.00 75.23	A
ATOM	27574	O4' GUA	421	172.398	110.722	37.013	1.00 75.61	A16S	27627	C5 GUA	423	167.769	105.859	43.505	1.00 75.23	A
ATOM	27575	C1' GUA	421	172.291	109.326	37.247	1.00 75.61	A16S	27628	N7 GUA	423	167.408	104.878	42.595	1.00 75.23	A
ATOM	27576	N9 GUA	421	172.811	109.038	38.577	1.00 72.47	A16S	27629	C8 GUA	423	166.359	105.368	41.995	1.00 75.23	A
ATOM	27577	C4 GUA	421	173.240	107.820	39.032	1.00 72.47	A16S	27630	C2' GUA	423	165.036	108.741	41.387	1.00 63.35	A
ATOM	27578	N3 GUA	421	173.269	106.677	38.321	1.00 72.47	A16S	27631	O2' GUA	423	164.394	109.713	42.162	1.00 63.35	A

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ATOM	27632	C3' GUA	423	164.337	108.528	40.052	1.00	63.35	Al6S	ATOM	27685	C4 ADE	426	164.141	103.165	48.960	1.00	72.90	F
ATOM	27633	O3' GUA	423	163.640	109.667	39.522	1.00	63.35	Al6S	ATOM	27686	N3 ADE	426	165.114	102.591	49.688	1.00	72.90	F
ATOM	27634	P URI	424	162.674	110.568	40.460	1.00	77.62	Al6S	ATOM	27687	C2 ADE	426	165.518	103.411	50.656	1.00	72.90	F
ATOM	27635	O1P URI	424	161.602	111.056	39.576	1.00	75.57	Al6S	ATOM	27688	N1 ADE	426	165.090	104.643	50.957	1.00	72.90	F
ATOM	27636	O2P URI	424	161.980	109.553	41.206	1.00	75.57	Al6S	ATOM	27689	C6 ADE	426	164.107	105.186	50.206	1.00	72.90	F
ATOM	27637	O5' URI	424	161.980	109.553	41.483	1.00	77.62	Al6S	ATOM	27690	N6 ADE	426	163.665	106.407	50.507	1.00	72.90	F
ATOM	27638	C5' URI	424	160.681	109.842	42.001	1.00	77.62	Al6S	ATOM	27691	C5 ADE	426	163.600	104.424	49.149	1.00	72.90	F
ATOM	27639	C4' URI	424	160.181	108.738	42.916	1.00	77.62	Al6S	ATOM	27692	N7 ADE	426	162.618	104.682	48.208	1.00	72.90	F
ATOM	27640	O4' URI	424	161.016	108.612	44.089	1.00	77.62	Al6S	ATOM	27693	C8 ADE	426	162.581	103.590	47.484	1.00	72.90	F
ATOM	27641	C1' URI	424	160.253	107.976	45.089	1.00	77.62	Al6S	ATOM	27694	C2' ADE	426	163.228	100.177	48.203	1.00	69.16	F
ATOM	27642	N1 URI	424	160.735	108.295	46.437	1.00	75.57	Al6S	ATOM	27695	O3' ADE	426	164.077	99.064	48.008	1.00	69.16	F
ATOM	27643	C6 URI	424	160.689	109.558	46.966	1.00	75.57	Al6S	ATOM	27696	C3' ADE	426	161.815	99.936	47.684	1.00	69.16	F
ATOM	27644	C2 URI	424	161.221	107.231	47.173	1.00	75.57	Al6S	ATOM	27697	O3' ADE	426	161.342	98.634	48.001	1.00	69.16	F
ATOM	27645	O2 URI	424	161.275	106.108	46.727	1.00	75.57	Al6S	ATOM	27698	P ADE	427	160.350	98.441	49.249	1.00	84.58	F
ATOM	27646	N3 URI	424	161.636	107.529	48.442	1.00	75.57	Al6S	ATOM	27699	O1P ADE	427	160.025	96.998	49.339	1.00	70.89	F
ATOM	27647	C4 URI	424	161.612	108.761	49.043	1.00	75.57	Al6S	ATOM	27700	O2P ADE	427	159.255	99.436	49.129	1.00	70.89	F
ATOM	27648	O4 URI	424	162.066	108.882	50.183	1.00	75.57	Al6S	ATOM	27701	O5' ADE	427	161.261	98.822	50.500	1.00	84.58	F
ATOM	27649	C5 URI	424	161.094	109.823	48.217	1.00	75.57	Al6S	ATOM	27702	C5' ADE	427	162.444	98.076	50.782	1.00	84.58	F
ATOM	27650	C2' URI	424	158.783	108.303	44.850	1.00	77.62	Al6S	ATOM	27703	O4' ADE	427	163.215	98.718	51.907	1.00	84.58	F
ATOM	27651	O2' URI	424	158.071	107.097	44.832	1.00	77.62	Al6S	ATOM	27704	C4' ADE	427	163.732	99.998	51.469	1.00	84.58	F
ATOM	27652	C3' URI	424	158.797	109.027	43.500	1.00	77.62	Al6S	ATOM	27705	C1' ADE	427	163.698	100.916	52.547	1.00	84.58	F
ATOM	27653	O3' URI	424	157.720	108.458	42.742	1.00	77.62	Al6S	ATOM	27706	N9 ADE	427	162.783	101.994	52.186	1.00	70.89	F
ATOM	27654	P ADE	425	158.013	107.445	41.510	1.00	68.45	Al6S	ATOM	27707	C4 ADE	427	162.766	103.261	52.711	1.00	70.89	F
ATOM	27655	O1P ADE	425	158.416	108.255	40.331	1.00	66.03	Al6S	ATOM	27708	N3 ADE	427	163.601	103.771	53.628	1.00	70.89	F
ATOM	27656	O2P ADE	425	156.864	106.514	41.408	1.00	66.03	Al6S	ATOM	27709	C2 ADE	427	163.275	105.030	53.908	1.00	70.89	F
ATOM	27657	O5' ADE	425	159.257	106.559	41.943	1.00	58.45	Al6S	ATOM	27710	N1 ADE	427	162.278	105.777	53.416	1.00	70.89	F
ATOM	27658	C5' ADE	425	159.108	105.495	42.859	1.00	58.45	Al6S	ATOM	27711	C6 ADE	427	161.451	105.227	52.501	1.00	70.89	F
ATOM	27659	C4' ADE	425	160.051	104.375	42.509	1.00	58.45	Al6S	ATOM	27712	N6 ADE	427	160.442	105.961	52.026	1.00	70.89	F
ATOM	27660	O4' ADE	425	161.363	104.911	42.198	1.00	58.45	Al6S	ATOM	27713	C5 ADE	427	161.701	103.903	52.111	1.00	70.89	F
ATOM	27661	C1' ADE	425	162.356	104.019	42.668	1.00	58.45	Al6S	ATOM	27714	N7 ADE	427	161.070	103.064	51.205	1.00	70.89	F
ATOM	27662	N9 ADE	425	163.152	104.708	43.678	1.00	66.03	Al6S	ATOM	27715	C8 ADE	427	161.754	101.950	51.281	1.00	70.89	F
ATOM	27663	C4 ADE	425	164.252	104.197	44.320	1.00	66.03	Al6S	ATOM	27716	C2' ADE	427	163.228	100.144	53.784	1.00	84.58	F
ATOM	27664	N3 ADE	425	164.802	102.984	44.154	1.00	66.03	Al6S	ATOM	27717	O2' ADE	427	164.342	99.636	54.485	1.00	84.58	F
ATOM	27665	C2 ADE	425	165.859	102.837	44.945	1.00	66.03	Al6S	ATOM	27718	C3' ADE	427	162.406	99.032	53.152	1.00	84.58	F
ATOM	27666	N1 ADE	425	166.388	103.698	45.817	1.00	66.03	Al6S	ATOM	27719	O3' ADE	427	162.361	97.890	53.995	1.00	84.58	F
ATOM	27667	C6 ADE	425	165.810	104.909	45.961	1.00	66.03	Al6S	ATOM	27720	P CYT	428	160.947	97.339	54.519	1.00	76.30	F
ATOM	27668	N6 ADE	425	166.339	105.770	46.830	1.00	66.03	Al6S	ATOM	27721	O1P CYT	428	161.245	96.275	55.505	1.00	88.34	F
ATOM	27669	C5 ADE	425	164.682	105.190	45.179	1.00	66.03	Al6S	ATOM	27722	O2P CYT	428	160.065	97.036	53.366	1.00	88.34	F
ATOM	27670	N7 ADE	425	163.867	106.309	45.082	1.00	66.03	Al6S	ATOM	27723	O5' CYT	428	160.319	98.585	55.282	1.00	76.30	F
ATOM	27671	C8 ADE	425	162.975	105.971	44.182	1.00	66.03	Al6S	ATOM	27724	C5' CYT	428	160.950	99.136	56.428	1.00	76.30	F
ATOM	27672	C2' ADE	425	161.634	102.794	43.228	1.00	58.45	Al6S	ATOM	27725	C4' CYT	428	160.362	100.489	56.737	1.00	76.30	F
ATOM	27673	O2' ADE	425	161.434	101.847	42.202	1.00	58.45	Al6S	ATOM	27726	O4' CYT	428	160.654	101.403	55.645	1.00	76.30	F
ATOM	27674	C3' ADE	425	160.308	103.400	43.644	1.00	58.45	Al6S	ATOM	27727	C1' CYT	428	159.572	102.304	55.472	1.00	76.30	F
ATOM	27675	O3' ADE	425	159.283	102.416	43.731	1.00	58.45	Al6S	ATOM	27728	N1 CYT	428	159.056	102.148	54.102	1.00	88.34	F
ATOM	27676	P ADE	426	158.718	101.997	45.174	1.00	69.16	Al6S	ATOM	27729	C6 CYT	428	159.339	101.031	53.366	1.00	88.34	F
ATOM	27677	O1P ADE	426	157.782	100.858	45.004	1.00	72.90	Al6S	ATOM	27730	C2 CYT	428	158.267	103.165	53.564	1.00	88.34	F
ATOM	27678	O2P ADE	426	158.241	103.240	45.830	1.00	72.90	Al6S	ATOM	27731	O2 CYT	428	158.029	104.158	54.252	1.00	88.34	F
ATOM	27679	O5' ADE	426	160.024	101.464	45.916	1.00	69.16	Al6S	ATOM	27732	N3 CYT	428	157.786	103.040	52.312	1.00	88.34	F
ATOM	27680	C5' ADE	426	160.764	100.373	45.374	1.00	69.16	Al6S	ATOM	27733	C4 CYT	428	158.065	101.950	51.599	1.00	88.34	F
ATOM	27681	C4' ADE	426	162.008	100.105	46.191	1.00	69.16	Al6S	ATOM	27734	N4 CYT	428	157.569	101.871	50.364	1.00	88.34	F
ATOM	27682	O4' ADE	426	162.922	101.227	46.100	1.00	69.16	Al6S	ATOM	27735	C5 CYT	428	158.867	100.891	52.120	1.00	88.34	F
ATOM	27683	C1' ADE	426	163.688	101.313	47.293	1.00	69.16	Al6S	ATOM	27736	C2' CYT	428	158.533	101.984	56.551	1.00	76.30	F
ATOM	27684	N9 ADE	426	163.476	102.632	47.882	1.00	72.90	Al6S	ATOM	27737	O2' CYT	428	158.721	102.838	57.663	1.00	76.30	F

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ATOM	27738	C3' CYT	428	158.849	100.521	56.850	1.00	76.30	A16S	ATOM	27791	O2	CYT	431	145.874	100.182	50.310	1.00	68.18	A1
ATOM	27739	O3' CYT	428	158.440	100.140	58.155	1.00	76.30	A16S	ATOM	27792	N3	CYT	431	147.677	99.131	51.191	1.00	68.18	A1
ATOM	27740	P	URI	429	156.975	99.517	58.377	1.00	76.78	A16S	27793	C4	CYT	431	148.453	98.927	52.255	1.00	68.18	A1
ATOM	27741	O1P URI	429	156.893	99.078	59.791	1.00	89.93	A16S	27794	N4	CYT	431	149.470	98.080	52.133	1.00	68.18	A1	
ATOM	27742	O2P URI	429	156.707	98.538	57.287	1.00	89.93	A16S	27795	C5	CYT	431	148.217	99.581	53.494	1.00	68.18	A1	
ATOM	27743	O5' URI	429	155.998	100.765	58.230	1.00	76.78	A16S	27796	C2' CYT	431	143.881	100.702	52.524	1.00	74.05	A1		
ATOM	27744	C5' URI	429	155.824	101.666	59.309	1.00	76.78	A16S	27797	O2' CYT	431	142.909	101.446	51.822	1.00	74.05	A1		
ATOM	27745	C4' URI	429	154.752	102.669	58.981	1.00	76.78	A16S	27798	C3' CYT	431	143.566	100.552	54.005	1.00	74.05	A1		
ATOM	27746	O4' URI	429	155.180	103.468	57.851	1.00	76.78	A16S	27799	O3' CYT	431	142.185	100.353	54.233	1.00	74.05	A1		
ATOM	27747	C1' URI	429	154.055	103.816	57.062	1.00	76.78	A16S	27800	P	URI	432	141.605	98.864	54.264	1.00	67.88	A1	
ATOM	27748	N1 URI	429	154.236	103.244	55.721	1.00	89.93	A16S	27801	O1P URI	432	140.210	98.932	54.768	1.00	66.54	A1		
ATOM	27749	C6 URI	429	155.083	102.185	55.501	1.00	89.93	A16S	27802	O2P URI	432	142.601	97.997	54.945	1.00	66.54	A1		
ATOM	27750	C2 URI	429	153.525	103.812	54.689	1.00	89.93	A16S	27803	O5' URI	432	141.550	98.444	52.733	1.00	67.88	A1		
ATOM	27751	O2 URI	429	152.758	104.745	54.853	1.00	89.93	A16S	27804	C5' URI	432	140.641	99.074	51.837	1.00	67.88	A1		
ATOM	27752	N3 URI	429	153.744	103.247	53.457	1.00	89.93	A16S	27805	C4' URI	432	140.923	98.627	50.425	1.00	67.88	A1		
ATOM	27753	C4 URI	429	154.582	102.193	53.164	1.00	89.93	A16S	27806	O4' URI	432	142.319	98.901	50.132	1.00	67.88	A1		
ATOM	27754	O4 URI	429	154.683	101.805	52.001	1.00	89.93	A16S	27807	C1' URI	432	142.821	97.912	49.256	1.00	67.88	A1		
ATOM	27755	C5 URI	429	155.275	101.654	54.291	1.00	89.93	A16S	27808	N1 URI	432	143.980	97.288	49.900	1.00	66.54	A1		
ATOM	27756	C2' URI	429	152.823	103.259	57.772	1.00	76.78	A16S	27809	C6 URI	432	144.242	97.486	51.226	1.00	66.54	A1		
ATOM	27757	O2' URI	429	152.310	104.229	58.655	1.00	76.78	A16S	27810	C2 URI	432	144.804	96.513	49.118	1.00	66.54	A1		
ATOM	27758	C3' URI	429	153.426	102.091	58.528	1.00	76.78	A16S	27811	O2 URI	432	144.578	96.292	47.943	1.00	66.54	A1		
ATOM	27759	O3' URI	429	152.610	101.753	59.633	1.00	76.78	A16S	27812	N3 URI	432	145.898	95.999	49.763	1.00	66.54	A1		
ATOM	27760	P	CYT	430	151.663	100.466	59.542	1.00	67.96	A16S	27813	C4 URI	432	146.233	96.172	51.085	1.00	66.54	A1	
ATOM	27761	O1P CYT	430	151.296	100.092	60.930	1.00	89.07	A16S	27814	O4 URI	432	147.270	95.672	51.518	1.00	66.54	A1		
ATOM	27762	O2P CYT	430	152.341	99.473	58.665	1.00	89.07	A16S	27815	C5 URI	432	145.312	96.969	51.832	1.00	66.54	A1		
ATOM	27763	O5' CYT	430	150.354	100.985	58.797	1.00	67.96	A16S	27816	C2' URI	432	141.674	96.951	48.944	1.00	67.88	A1		
ATOM	27764	C5' CYT	430	149.483	101.910	59.424	1.00	67.96	A16S	27817	O2' URI	432	141.002	97.393	47.787	1.00	67.88	A1		
ATOM	27765	O4' CYT	430	148.785	102.739	58.384	1.00	67.96	A16S	27818	C3' URI	432	140.793	97.136	50.165	1.00	67.88	A1		
ATOM	27766	C4' CYT	430	149.800	103.231	57.472	1.00	67.96	A16S	27819	O3' URI	432	139.454	96.801	49.849	1.00	67.88	A1		
ATOM	27767	C1' CYT	430	149.255	103.333	56.164	1.00	67.96	A16S	27820	P	GUA	433	138.939	95.311	50.113	1.00	73.69	A1	
ATOM	27768	N1 CYT	430	150.037	102.480	55.259	1.00	89.07	A16S	27821	O1P GUA	433	137.594	95.191	49.509	1.00	73.69	A1		
ATOM	27769	C6 CYT	430	150.991	101.631	55.738	1.00	89.07	A16S	27822	O2P GUA	433	139.125	95.005	51.548	1.00	77.35	A1		
ATOM	27770	C2 CYT	430	149.789	102.560	53.893	1.00	89.07	A16S	27823	O5' GUA	433	139.959	94.399	49.298	1.00	73.69	A1		
ATOM	27771	O2 CYT	430	148.908	103.330	53.495	1.00	89.07	A16S	27824	C5' GUA	433	139.832	94.181	47.892	1.00	73.69	A1		
ATOM	27772	N3 CYT	430	150.509	101.799	53.043	1.00	89.07	A16S	27825	C4' GUA	433	140.872	93.181	47.455	1.00	73.69	A1		
ATOM	27773	C4 CYT	430	151.444	100.978	53.518	1.00	89.07	A16S	27826	O4' GUA	433	142.140	93.686	47.929	1.00	73.69	A1		
ATOM	27774	N4 CYT	430	152.135	100.247	52.645	1.00	89.07	A16S	27827	C1' GUA	433	142.917	92.627	48.441	1.00	73.69	A1		
ATOM	27775	C5 CYT	430	151.712	100.870	54.910	1.00	89.07	A16S	27828	N9 GUA	433	143.417	92.996	49.760	1.00	77.35	A1		
ATOM	27776	C2' CYT	430	147.789	102.913	56.252	1.00	67.96	A16S	27829	C4 GUA	433	144.618	92.615	50.302	1.00	77.35	A1		
ATOM	27777	O2' CYT	430	146.985	104.063	56.436	1.00	67.96	A16S	27830	N3 GUA	433	145.532	91.814	49.717	1.00	77.35	A1		
ATOM	27778	C3' CYT	430	147.825	101.998	57.467	1.00	67.96	A16S	27831	C2 GUA	433	146.596	91.640	50.481	1.00	77.35	A1		
ATOM	27779	O3' CYT	430	146.535	101.870	58.045	1.00	67.96	A16S	27832	N2 GUA	433	147.610	90.875	50.054	1.00	77.35	A1		
ATOM	27780	P	CYT	431	145.697	100.519	57.813	1.00	74.05	A16S	27833	N1 GUA	433	146.746	92.202	51.722	1.00	77.35	A1	
ATOM	27781	O1P CYT	431	144.621	100.454	58.835	1.00	68.18	A16S	27834	C6 GUA	433	145.815	93.021	52.348	1.00	77.35	A1		
ATOM	27782	O2P CYT	431	146.675	99.406	57.694	1.00	68.18	A16S	27835	O6 GUA	433	146.048	93.462	53.479	1.00	77.35	A1		
ATOM	27783	O5' CYT	431	145.023	100.697	56.384	1.00	74.05	A16S	27836	C5 GUA	433	144.673	93.225	51.535	1.00	77.35	A1		
ATOM	27784	C5' CYT	431	144.298	101.869	56.049	1.00	74.05	A16S	27837	N7 GUA	433	143.526	93.969	51.767	1.00	77.35	A1		
ATOM	27785	C4' CYT	431	144.018	101.885	54.565	1.00	74.05	A16S	27838	C8 GUA	433	142.809	93.800	50.690	1.00	77.35	A1		
ATOM	27786	O4' CYT	431	145.228	102.176	53.814	1.00	74.05	A16S	27839	C2' GUA	433	142.117	91.329	48.351	1.00	73.69	A1		
ATOM	27787	C1' CYT	431	145.188	101.490	52.573	1.00	74.05	A16S	27840	O2' GUA	433	142.579	90.595	47.244	1.00	73.69	A1		
ATOM	27788	N1 CYT	431	146.355	100.608	52.486	1.00	68.18	A16S	27841	C3' GUA	433	140.692	91.818	48.113	1.00	73.69	A1		
ATOM	27789	C6 CYT	431	147.165	100.407	53.565	1.00	68.18	A16S	27842	O3' GUA	433	140.039	90.821	47.290	1.00	73.69	A1		
ATOM	27790	C2 CYT	431	146.619	99.968	51.277	1.00	68.18	A16S	27843	P	ADE	434	139.682	91.101	45.726	1.00	52.17	A1	

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ATOM	27844	O1P ADE	434	139.533	92.552	45.466	1.00	79.96	A16S	ATOM	27897	C2	CYT	436	141.630	82.747	48.651	1.00	79.37
ATOM	27845	O2P ADE	434	138.559	90.188	45.385	1.00	79.96	A16S	ATOM	27898	O2	CYT	436	142.059	82.607	49.808	1.00	79.37
ATOM	27846	O5' ADE	434	140.952	90.569	44.926	1.00	52.17	A16S	ATOM	27899	N3	CYT	436	140.647	83.522	48.357	1.00	79.37
ATOM	27847	C5' ADE	434	141.090	89.186	44.642	1.00	52.17	A16S	ATOM	27900	C4	CYT	436	140.224	83.749	47.099	1.00	79.37
ATOM	27848	O4' ADE	434	141.751	88.980	43.296	1.00	52.17	A16S	ATOM	27901	N4	CYT	436	139.241	84.620	46.858	1.00	79.37
ATOM	27849	C4' ADE	434	143.095	89.531	43.319	1.00	52.17	A16S	ATOM	27902	C5	CYT	436	140.787	82.989	46.033	1.00	79.37
ATOM	27850	C1' ADE	434	143.982	88.676	42.611	1.00	52.17	A16S	ATOM	27903	C2'	CYT	436	142.611	79.701	48.521	1.00	91.82
ATOM	27851	N9 ADE	434	144.972	88.185	43.563	1.00	79.96	A16S	ATOM	27904	O2'	CYT	436	143.482	79.111	49.463	1.00	91.82
ATOM	27852	C4 ADE	434	146.123	87.501	43.278	1.00	79.96	A16S	ATOM	27905	C3'	CYT	436	142.502	78.867	47.258	1.00	91.82
ATOM	27853	N3 ADE	434	146.571	87.136	42.071	1.00	79.96	A16S	ATOM	27906	O3'	CYT	436	142.465	77.483	47.543	1.00	91.82
ATOM	27854	C2 ADE	434	147.739	86.511	42.176	1.00	79.96	A16S	ATOM	27907	P	CYT	437	141.066	76.706	47.486	1.00	80.61
ATOM	27855	N1 ADE	434	148.460	86.237	43.268	1.00	79.96	A16S	ATOM	27908	O1P	CYT	437	141.383	75.259	47.426	1.00	92.36
ATOM	27856	C6 ADE	434	147.983	86.624	44.466	1.00	79.96	A16S	ATOM	27909	O2P	CYT	437	140.232	77.318	46.427	1.00	92.36
ATOM	27857	N6 ADE	434	148.713	86.372	45.556	1.00	79.96	A16S	ATOM	27910	O5'	CYT	437	140.398	77.030	48.894	1.00	80.61
ATOM	27858	C5 ADE	434	146.744	87.285	44.491	1.00	79.96	A16S	ATOM	27911	C5'	CYT	437	141.023	76.617	50.105	1.00	80.61
ATOM	27859	N7 ADE	434	145.985	87.806	45.528	1.00	79.96	A16S	ATOM	27912	C4'	CYT	437	140.226	77.094	51.293	1.00	80.61
ATOM	27860	C8 ADE	434	144.946	88.324	44.925	1.00	79.96	A16S	ATOM	27913	O4'	CYT	437	140.301	78.540	51.398	1.00	80.61
ATOM	27861	C2' ADE	434	143.151	87.552	41.993	1.00	52.17	A16S	ATOM	27914	C1'	CYT	437	139.095	79.037	51.958	1.00	80.61
ATOM	27862	O2' ADE	434	142.808	87.842	40.659	1.00	52.17	A16S	ATOM	27915	N1	CYT	437	138.498	80.001	51.019	1.00	92.36
ATOM	27863	C3' ADE	434	141.951	87.518	42.928	1.00	52.17	A16S	ATOM	27916	C6	CYT	437	138.994	80.157	49.756	1.00	92.36
ATOM	27864	O3' ADE	434	140.799	86.989	42.287	1.00	52.17	A16S	ATOM	27917	C2	CYT	437	137.410	80.762	51.446	1.00	92.36
ATOM	27865	P ADE	435	140.441	85.439	42.478	1.00	73.56	A16S	ATOM	27918	O2	CYT	437	136.978	80.594	52.590	1.00	92.36
ATOM	27866	O1P ADE	435	139.300	85.091	41.591	1.00	76.01	A16S	ATOM	27919	N3	CYT	437	136.856	81.660	50.607	1.00	92.36
ATOM	27867	O2P ADE	435	140.330	85.197	43.937	1.00	76.01	A16S	ATOM	27920	C4	CYT	437	137.352	81.819	49.382	1.00	92.36
ATOM	27868	O5' ADE	435	141.750	84.711	41.942	1.00	73.56	A16S	ATOM	27921	N4	CYT	437	136.785	82.737	48.594	1.00	92.36
ATOM	27869	C5' ADE	435	142.078	83.421	42.406	1.00	73.56	A16S	ATOM	27922	C5	CYT	437	138.457	81.047	48.912	1.00	92.36
ATOM	27870	C4' ADE	435	143.560	83.291	42.628	1.00	73.56	A16S	ATOM	27923	C2'	CYT	437	138.195	77.833	52.220	1.00	80.61
ATOM	27871	O4' ADE	435	144.098	84.479	43.265	1.00	73.56	A16S	ATOM	27924	O3'	CYT	437	138.373	77.386	53.545	1.00	80.61
ATOM	27872	C1' ADE	435	145.017	84.103	44.282	1.00	73.56	A16S	ATOM	27925	C3'	CYT	437	138.738	76.840	51.210	1.00	80.61
ATOM	27873	N9 ADE	435	144.457	84.526	45.565	1.00	76.01	A16S	ATOM	27926	O3'	CYT	437	138.409	75.517	51.567	1.00	80.61
ATOM	27874	C4 ADE	435	145.056	84.447	46.797	1.00	76.01	A16S	ATOM	27927	P	CYT	438	136.990	74.929	51.125	1.00	83.84
ATOM	27875	N3 ADE	435	146.278	83.971	47.082	1.00	76.01	A16S	ATOM	27928	O1P	CYT	438	136.931	73.528	51.609	1.00	97.08
ATOM	27876	C2 ADE	435	146.520	84.062	48.385	1.00	76.01	A16S	ATOM	27929	O2P	CYT	438	136.801	75.217	49.682	1.00	97.08
ATOM	27877	N1 ADE	435	145.742	84.538	49.360	1.00	76.01	A16S	ATOM	27930	O5'	CYT	438	135.953	75.823	51.936	1.00	83.84
ATOM	27878	C6 ADE	435	144.521	85.004	49.039	1.00	76.01	A16S	ATOM	27931	C5'	CYT	438	135.952	75.822	53.356	1.00	83.84
ATOM	27879	N6 ADE	435	143.741	85.473	50.012	1.00	76.01	A16S	ATOM	27932	C4'	CYT	438	134.797	76.635	53.877	1.00	83.84
ATOM	27880	C5 ADE	435	144.142	84.966	47.694	1.00	76.01	A16S	ATOM	27933	O4'	CYT	438	135.044	78.053	53.666	1.00	83.84
ATOM	27881	N7 ADE	435	142.987	85.363	47.041	1.00	76.01	A16S	ATOM	27934	C1'	CYT	438	133.811	78.717	53.413	1.00	83.84
ATOM	27882	C8 ADE	435	143.224	85.084	45.785	1.00	73.56	A16S	ATOM	27935	N1	CYT	438	133.836	79.244	52.039	1.00	97.08
ATOM	27883	C2' ADE	435	145.207	82.588	44.176	1.00	73.56	A16S	ATOM	27936	C6	CYT	438	134.790	80.150	51.148	1.00	97.08
ATOM	27884	O2' ADE	435	146.295	82.311	43.324	1.00	73.56	A16S	ATOM	27937	C2	CYT	438	132.846	80.840	51.648	1.00	97.08
ATOM	27885	C3' ADE	435	143.870	82.164	43.587	1.00	73.56	A16S	ATOM	27938	O2	CYT	438	132.015	80.530	52.486	1.00	97.08
ATOM	27886	O3' ADE	435	143.879	80.938	42.876	1.00	73.56	A16S	ATOM	27939	N3	CYT	438	132.820	80.589	50.370	1.00	97.08
ATOM	27887	P	436	142.603	79.966	42.970	1.00	91.82	A16S	ATOM	27940	C4	CYT	438	133.739	80.169	49.502	1.00	97.08
ATOM	27888	O1P	436	142.903	78.806	42.102	1.00	79.37	A16S	ATOM	27941	N4	CYT	438	133.657	80.608	48.248	1.00	97.08
ATOM	27889	O2P	436	141.341	80.724	42.774	1.00	79.37	A16S	ATOM	27942	C5	CYT	438	134.778	79.274	49.881	1.00	97.08
ATOM	27890	O5' CYT	436	142.606	79.489	44.485	1.00	91.82	A16S	ATOM	27943	C2'	CYT	438	132.711	77.663	53.557	1.00	83.84
ATOM	27891	C5' CYT	436	143.782	78.957	45.068	1.00	91.82	A16S	ATOM	27944	O2'	CYT	438	132.217	77.627	54.884	1.00	83.84
ATOM	27892	C4' CYT	436	143.787	79.227	46.544	1.00	91.82	A16S	ATOM	27945	C3'	CYT	438	133.474	76.406	53.175	1.00	83.84
ATOM	27893	O4' CYT	436	143.915	80.652	46.782	1.00	91.82	A16S	ATOM	27946	O3'	CYT	438	132.815	75.237	53.613	1.00	83.84
ATOM	27894	C1' CYT	436	143.219	80.993	47.968	1.00	91.82	A16S	ATOM	27947	P	GUA	439	131.604	74.654	52.742	1.00	80.96
ATOM	27895	N1 CYT	436	142.185	81.976	47.626	1.00	79.37	A16S	ATOM	27948	O1P	GUA	439	131.052	73.485	53.473	1.00	87.86
ATOM	27896	C6 CYT	436	141.758	82.126	46.338	1.00	79.37	A16S	ATOM	27949	O2P	GUA	439	132.059	74.492	51.340	1.00	87.86

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ATOM	27950	O5' GUA	439	130.529	75.828	52.767	1.00	80.96	Al6S	ATOM	28003	N3	GUA	441	126.566	77.154	42.390	1.00	76.34	Al
ATOM	27951	C5' GUA	439	129.714	76.049	53.910	1.00	80.96	Al6S	ATOM	28004	C2	GUA	441	127.790	76.713	42.163	1.00	76.34	Al
ATOM	27952	O4' GUA	439	128.616	77.027	53.580	1.00	80.96	Al6S	ATOM	28005	N2	GUA	441	128.428	77.069	41.044	1.00	76.34	Al
ATOM	27953	C4' GUA	439	129.223	78.290	53.194	1.00	80.96	Al6S	ATOM	28006	N1	GUA	441	128.479	75.885	43.015	1.00	76.34	Al
ATOM	27954	C1' GUA	439	128.412	78.933	52.219	1.00	80.96	Al6S	ATOM	28007	C6	GUA	441	127.988	75.390	44.218	1.00	76.34	Al
ATOM	27955	N9	439	129.190	79.094	50.994	1.00	87.86	Al6S	ATOM	28008	O6	GUA	441	128.687	74.640	44.907	1.00	76.34	Al
ATOM	27956	C4	439	128.883	79.921	49.939	1.00	87.86	Al6S	ATOM	28009	C5	GUA	441	126.675	75.856	44.473	1.00	76.34	Al
ATOM	27957	N3	439	127.815	80.745	49.861	1.00	87.86	Al6S	ATOM	28010	N7	GUA	441	125.829	75.614	45.543	1.00	76.34	Al
ATOM	27958	C2	439	127.786	81.411	48.719	1.00	87.86	Al6S	ATOM	28011	C8	GUA	441	124.750	76.290	45.262	1.00	76.34	Al
ATOM	27959	N2	439	126.790	82.274	48.476	1.00	87.86	Al6S	ATOM	28012	C2' GUA	441	122.879	76.936	42.558	1.00	77.85	Al	
ATOM	27960	N1	439	128.732	81.278	47.735	1.00	87.86	Al6S	ATOM	28013	O2' GUA	441	122.339	77.759	41.548	1.00	77.85	Al	
ATOM	27961	C6	439	129.841	80.439	47.796	1.00	87.86	Al6S	ATOM	28014	C3' GUA	441	121.862	76.452	43.581	1.00	77.85	Al	
ATOM	27962	O6	439	130.636	80.400	46.852	1.00	87.86	Al6S	ATOM	28015	O3' GUA	441	120.625	76.002	43.047	1.00	77.85	Al	
ATOM	27963	C5	439	129.882	79.718	49.014	1.00	87.86	Al6S	ATOM	28016	P	ADE	442	120.604	74.912	41.868	1.00	75.36	Al
ATOM	27964	N7	439	130.803	78.789	49.478	1.00	87.86	Al6S	ATOM	28017	O1P ADE	442	119.301	74.203	41.955	1.00	58.39	Al	
ATOM	27965	C8	439	130.354	78.448	50.655	1.00	87.86	Al6S	ATOM	28018	O2P ADE	442	121.859	74.138	41.841	1.00	58.39	Al	
ATOM	27966	O2' GUA	439	127.194	78.037	51.991	1.00	80.96	Al6S	ATOM	28019	O5' ADE	442	120.534	75.843	40.590	1.00	75.36	Al	
ATOM	27967	C2' GUA	439	126.113	78.430	52.811	1.00	80.96	Al6S	ATOM	28020	C5' ADE	442	119.719	76.996	40.663	1.00	75.36	Al	
ATOM	27968	C3' GUA	439	127.762	76.680	52.372	1.00	80.96	Al6S	ATOM	28021	C4' ADE	442	119.853	77.831	39.433	1.00	75.36	Al	
ATOM	27969	O3' GUA	439	126.722	75.757	52.646	1.00	80.96	Al6S	ATOM	28022	O4' ADE	442	121.185	78.362	39.298	1.00	75.36	Al	
ATOM	27970	P	440	125.991	75.020	51.419	1.00	77.47	Al6S	ATOM	28023	C1' ADE	442	121.355	78.770	37.962	1.00	75.36	Al	
ATOM	27971	O1P GUA	440	124.923	74.136	51.954	1.00	77.47	Al6S	ATOM	28024	N9	ADE	442	122.666	78.343	37.496	1.00	58.39	Al
ATOM	27972	O2P GUA	440	127.056	74.446	50.558	1.00	86.59	Al6S	ATOM	28025	C4	ADE	442	123.349	78.916	36.451	1.00	58.39	Al
ATOM	27973	O5' GUA	440	125.260	76.199	50.637	1.00	77.47	Al6S	ATOM	28026	N3	ADE	442	122.955	79.954	35.688	1.00	58.39	Al
ATOM	27974	C5' GUA	440	124.141	76.860	51.216	1.00	77.47	Al6S	ATOM	28027	C2	ADE	442	123.875	80.234	34.773	1.00	58.39	Al
ATOM	27975	O4' GUA	440	123.534	77.845	50.241	1.00	77.47	Al6S	ATOM	28028	N1	ADE	442	125.056	79.642	34.552	1.00	58.39	Al
ATOM	27976	C4' GUA	440	124.497	78.883	49.918	1.00	77.47	Al6S	ATOM	28029	C6	ADE	442	125.417	78.606	35.338	1.00	58.39	Al
ATOM	27977	C1' GUA	440	124.285	79.329	48.589	1.00	77.47	Al6S	ATOM	28030	N6	ADE	442	126.587	78.020	35.126	1.00	58.39	Al
ATOM	27978	N9	440	125.480	79.028	47.810	1.00	86.59	Al6S	ATOM	28031	C5	ADE	442	124.530	78.209	36.343	1.00	58.39	Al
ATOM	27979	C4	440	125.823	79.592	46.610	1.00	86.59	Al6S	ATOM	28032	N7	ADE	442	124.592	77.208	37.301	1.00	58.39	Al
ATOM	27980	N3	440	125.125	80.543	45.956	1.00	86.59	Al6S	ATOM	28033	C8	ADE	442	123.466	77.333	37.960	1.00	58.39	Al
ATOM	27981	C2	440	125.708	80.888	44.821	1.00	86.59	Al6S	ATOM	28034	C2' ADE	442	120.183	78.196	37.161	1.00	75.36	Al	
ATOM	27982	N2	440	125.155	81.835	44.045	1.00	86.59	Al6S	ATOM	28035	O2' ADE	442	119.259	79.243	36.980	1.00	75.36	Al	
ATOM	27983	N1	440	126.877	80.335	44.365	1.00	86.59	Al6S	ATOM	28036	C3' ADE	442	119.641	77.140	38.115	1.00	75.36	Al	
ATOM	27984	C6	440	127.605	79.350	45.021	1.00	86.59	Al6S	ATOM	28037	O3' ADE	442	118.246	76.950	37.968	1.00	75.36	Al	
ATOM	27985	O6	440	128.638	78.910	44.514	1.00	86.59	Al6S	ATOM	28038	P	CYT	443	117.664	76.307	36.624	1.00	58.57	Al
ATOM	27986	C5	440	127.001	78.981	46.242	1.00	86.59	Al6S	ATOM	28039	O1P CYT	443	116.202	76.157	36.847	1.00	80.06	Al	
ATOM	27987	N7	440	127.399	78.059	47.201	1.00	86.59	Al6S	ATOM	28040	O2P CYT	443	118.476	75.120	36.243	1.00	80.06	Al	
ATOM	27988	C8	440	126.469	78.123	48.112	1.00	86.59	Al6S	ATOM	28041	O5' CYT	443	117.884	77.441	35.517	1.00	58.57	Al	
ATOM	27989	C2' GUA	440	123.071	78.573	48.056	1.00	77.47	Al6S	ATOM	28042	C5' CYT	443	117.077	78.616	35.506	1.00	58.57	Al	
ATOM	27990	O2' GUA	440	121.899	79.313	48.308	1.00	77.47	Al6S	ATOM	28043	C4' CYT	443	117.484	79.539	34.379	1.00	58.57	Al	
ATOM	27991	C3' GUA	440	123.126	77.301	48.886	1.00	77.47	Al6S	ATOM	28044	O4' CYT	443	118.882	79.902	34.508	1.00	58.57	Al	
ATOM	27992	O3' GUA	440	121.851	76.683	48.945	1.00	77.47	Al6S	ATOM	28045	C1' CYT	443	119.421	80.181	33.226	1.00	58.57	Al	
ATOM	27993	P	441	121.388	75.710	47.757	1.00	77.85	Al6S	ATOM	28046	N1	CYT	443	120.603	79.336	33.028	1.00	80.06	Al
ATOM	27994	O1P GUA	441	119.904	75.747	47.719	1.00	76.34	Al6S	ATOM	28047	C6	CYT	443	120.840	78.259	33.835	1.00	80.06	Al
ATOM	27995	O2P GUA	441	122.091	74.407	47.871	1.00	76.34	Al6S	ATOM	28048	C2	CYT	443	121.485	79.653	32.002	1.00	80.06	Al
ATOM	27996	O5' GUA	441	121.917	76.443	46.448	1.00	77.85	Al6S	ATOM	28049	O2	CYT	443	121.241	80.633	31.290	1.00	80.06	Al
ATOM	27997	C5' GUA	441	121.139	77.454	45.811	1.00	77.85	Al6S	ATOM	28050	N3	CYT	443	122.578	78.885	31.809	1.00	80.06	Al
ATOM	27998	C4' GUA	441	121.657	77.702	44.415	1.00	77.85	Al6S	ATOM	28051	C4	CYT	443	122.801	77.834	32.599	1.00	80.06	Al
ATOM	27999	O4' GUA	441	122.980	78.301	44.482	1.00	77.85	Al6S	ATOM	28052	N4	CYT	443	123.885	77.101	32.367	1.00	80.06	Al
ATOM	28000	C1' GUA	441	123.794	77.775	43.447	1.00	77.85	Al6S	ATOM	28053	C5	CYT	443	121.918	77.489	33.658	1.00	80.06	Al
ATOM	28001	N9	441	124.830	76.957	44.066	1.00	76.34	Al6S	ATOM	28054	C2' CYT	443	118.315	79.924	32.204	1.00	58.57	Al	
ATOM	28002	C4	441	126.073	76.689	43.554	1.00	76.34	Al6S	ATOM	28055	O2' CYT	443	117.688	81.150	31.898	1.00	58.57	Al	

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ATOM	28056	C3' CYT	443	117.413	78.969	32.979	1.00	58.57	Al6S	ATOM	28109	O4' ADE	446	109.640	73.928	28.261	1.00	67.46
ATOM	28057	O3' CYT	443	116.073	78.957	32.516	1.00	58.57	Al6S	ATOM	28110	C1' ADE	446	109.142	72.698	27.810	1.00	67.46
ATOM	28058	P GUA	444	115.382	77.551	32.169	1.00	54.32	Al6S	ATOM	28111	N9 ADE	446	110.037	71.625	28.209	1.00	67.49
ATOM	28059	O1P GUA	444	113.943	77.790	31.843	1.00	75.42	Al6S	ATOM	28112	C4 ADE	446	110.806	70.956	27.300	1.00	67.49
ATOM	28060	O2P GUA	444	115.739	76.607	33.261	1.00	75.42	Al6S	ATOM	28113	N3 ADE	446	110.807	71.128	25.967	1.00	67.49
ATOM	28061	O5' GUA	444	116.143	77.073	30.854	1.00	54.32	Al6S	ATOM	28114	C2 ADE	446	111.707	70.338	25.400	1.00	67.49
ATOM	28062	C5' GUA	444	116.125	77.869	29.676	1.00	54.32	Al6S	ATOM	28115	N1 ADE	446	112.548	69.470	25.917	1.00	67.49
ATOM	28063	C4' GUA	444	117.388	77.552	28.885	1.00	54.32	Al6S	ATOM	28116	C6 ADE	446	112.523	69.333	27.317	1.00	67.49
ATOM	28064	O4' GUA	444	118.521	77.879	29.763	1.00	54.32	Al6S	ATOM	28117	N6 ADE	446	113.381	68.492	27.886	1.00	67.49
ATOM	28065	C1' GUA	444	119.606	77.058	29.364	1.00	54.32	Al6S	ATOM	28118	C5 ADE	446	111.597	70.101	28.032	1.00	67.49
ATOM	28066	N9 GUA	444	119.958	76.212	30.494	1.00	75.42	Al6S	ATOM	28119	N7 ADE	446	111.296	70.192	29.383	1.00	67.49
ATOM	28067	C4 GUA	444	121.108	75.476	30.647	1.00	75.42	Al6S	ATOM	28120	C8 ADE	446	110.354	71.103	29.432	1.00	67.49
ATOM	28068	N3 GUA	444	122.135	75.417	29.774	1.00	75.42	Al6S	ATOM	28121	C2' ADE	446	107.658	72.596	28.132	1.00	67.46
ATOM	28069	C2 GUA	444	123.098	74.618	30.198	1.00	75.42	Al6S	ATOM	28122	O2' ADE	446	107.024	72.399	26.905	1.00	67.46
ATOM	28070	N2 GUA	444	124.194	74.444	29.457	1.00	75.42	Al6S	ATOM	28123	C3' ADE	446	107.337	73.969	28.731	1.00	67.46
ATOM	28071	N1 GUA	444	123.056	73.929	31.382	1.00	75.42	Al6S	ATOM	28124	O3' ADE	446	106.171	74.501	28.077	1.00	67.46
ATOM	28072	C6 GUA	444	122.011	73.973	32.296	1.00	75.42	Al6S	ATOM	28125	P ADE	447	104.828	73.602	27.913	1.00	58.87
ATOM	28073	O6 GUA	444	122.074	73.306	33.339	1.00	75.42	Al6S	ATOM	28126	O1P ADE	447	103.676	74.538	27.996	1.00	67.87
ATOM	28074	C5 GUA	444	120.972	74.833	31.857	1.00	75.42	Al6S	ATOM	28127	O2P ADE	447	104.901	72.435	28.841	1.00	67.87
ATOM	28075	N7 GUA	444	119.767	75.172	32.461	1.00	75.42	Al6S	ATOM	28128	O5' ADE	447	104.856	73.050	26.414	1.00	58.87
ATOM	28076	C8 GUA	444	119.200	75.988	31.617	1.00	75.42	Al6S	ATOM	28129	C5' ADE	447	104.444	71.710	26.118	1.00	58.87
ATOM	28077	O2' GUA	444	119.134	76.261	28.147	1.00	54.32	Al6S	ATOM	28130	C4' ADE	447	105.247	71.157	24.958	1.00	58.87
ATOM	28078	C2' GUA	444	119.452	76.967	26.967	1.00	54.32	Al6S	ATOM	28131	O4' ADE	447	106.662	71.207	25.258	1.00	58.87
ATOM	28079	C3' GUA	444	117.632	76.247	28.364	1.00	54.32	Al6S	ATOM	28132	C1' ADE	447	107.310	70.072	24.731	1.00	58.87
ATOM	28080	O3' GUA	444	116.965	76.037	27.131	1.00	54.32	Al6S	ATOM	28133	N9 ADE	447	107.861	69.332	25.859	1.00	67.87
ATOM	28081	P ADE	445	116.415	74.580	26.773	1.00	70.32	Al6S	ATOM	28134	C4 ADE	447	108.856	68.394	25.819	1.00	67.87
ATOM	28082	O1P ADE	445	117.487	73.630	27.159	1.00	82.32	Al6S	ATOM	28135	N3 ADE	447	109.502	67.947	24.736	1.00	67.87
ATOM	28083	O2P ADE	445	115.909	74.593	25.379	1.00	82.32	Al6S	ATOM	28136	C2 ADE	447	110.428	67.057	25.082	1.00	67.87
ATOM	28084	O5' ADE	445	115.189	74.382	27.775	1.00	70.32	Al6S	ATOM	28137	N1 ADE	447	110.755	66.597	26.297	1.00	67.87
ATOM	28085	C5' ADE	445	113.815	74.578	27.383	1.00	70.32	Al6S	ATOM	28138	C6 ADE	447	110.085	67.067	27.365	1.00	67.87
ATOM	28086	C4' ADE	445	112.917	74.110	28.510	1.00	70.32	Al6S	ATOM	28139	N6 ADE	447	110.418	66.611	28.573	1.00	67.87
ATOM	28087	O4' ADE	445	113.239	72.735	28.761	1.00	70.32	Al6S	ATOM	28140	C5 ADE	447	109.074	68.017	27.132	1.00	67.87
ATOM	28088	C1' ADE	445	113.573	72.555	30.105	1.00	70.32	Al6S	ATOM	28141	N7 ADE	447	108.217	68.695	27.984	1.00	67.87
ATOM	28089	N9 ADE	445	114.778	71.737	30.160	1.00	82.32	Al6S	ATOM	28142	C8 ADE	447	107.515	69.454	27.180	1.00	67.87
ATOM	28090	C4 ADE	445	115.052	70.781	31.100	1.00	82.32	Al6S	ATOM	28143	C2' ADE	447	106.281	69.322	23.887	1.00	58.87
ATOM	28091	N3 ADE	445	114.307	70.458	32.167	1.00	82.32	Al6S	ATOM	28144	O2' ADE	447	106.333	69.821	22.562	1.00	58.87
ATOM	28092	C2 ADE	445	114.878	69.479	32.850	1.00	82.32	Al6S	ATOM	28145	C3' ADE	447	104.981	69.714	24.575	1.00	58.87
ATOM	28093	N1 ADE	445	116.017	68.826	32.600	1.00	82.32	Al6S	ATOM	28146	O3' ADE	447	103.922	69.700	23.636	1.00	58.87
ATOM	28094	C6 ADE	445	116.733	69.166	31.509	1.00	82.32	Al6S	ATOM	28147	P CYT	448	102.760	68.620	23.773	1.00	57.31
ATOM	28095	N6 ADE	445	117.851	68.488	31.239	1.00	82.32	Al6S	ATOM	28148	O1P CYT	448	101.771	68.875	22.693	1.00	65.41
ATOM	28096	C5 ADE	445	116.244	70.207	30.715	1.00	82.32	Al6S	ATOM	28149	O2P CYT	448	102.329	68.637	25.191	1.00	65.41
ATOM	28097	N7 ADE	445	116.731	70.812	29.568	1.00	82.32	Al6S	ATOM	28150	O5' CYT	448	103.482	67.239	23.439	1.00	57.31
ATOM	28098	C8 ADE	445	115.830	71.716	29.286	1.00	82.32	Al6S	ATOM	28151	C5' CYT	448	103.925	66.982	22.113	1.00	57.31
ATOM	28099	C2' ADE	445	113.556	73.889	30.858	1.00	70.32	Al6S	ATOM	28152	C4' CYT	448	104.889	65.829	22.082	1.00	57.31
ATOM	28100	O2' ADE	445	112.681	73.816	31.964	1.00	70.32	Al6S	ATOM	28153	O4' CYT	448	106.084	66.138	22.834	1.00	57.31
ATOM	28101	C3' ADE	445	113.137	74.909	29.792	1.00	70.32	Al6S	ATOM	28154	C1' CYT	448	106.675	64.934	23.284	1.00	57.31
ATOM	28102	O3' ADE	445	111.870	75.440	30.220	1.00	70.32	Al6S	ATOM	28155	N1 CYT	448	106.908	65.032	24.730	1.00	65.41
ATOM	28103	P ADE	446	111.375	76.903	29.783	1.00	67.46	Al6S	ATOM	28156	C6 CYT	448	105.970	65.578	25.554	1.00	65.41
ATOM	28104	O1P ADE	446	112.440	77.553	28.980	1.00	67.49	Al6S	ATOM	28157	C2 CYT	448	108.101	64.536	25.255	1.00	65.41
ATOM	28105	O2P ADE	446	110.895	77.555	31.028	1.00	67.49	Al6S	ATOM	28158	O2 CYT	448	108.952	64.072	24.480	1.00	65.41
ATOM	28106	O5' ADE	446	110.118	76.617	28.842	1.00	67.46	Al6S	ATOM	28159	N3 CYT	448	108.303	64.577	26.589	1.00	65.41
ATOM	28107	C5' ADE	446	108.948	75.948	29.330	1.00	67.46	Al6S	ATOM	28160	C4 CYT	448	107.371	65.095	27.386	1.00	65.41
ATOM	28108	C4' ADE	446	108.542	74.845	28.371	1.00	67.46	Al6S	ATOM	28161	N4 CYT	448	107.603	65.102	28.698	1.00	65.41

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ATOM	28162	C5	CYT	448	106.158	65.628	26.876	1.00	65.41	A16S	ATOM	28215	N1	CYT	451	94.682	64.930	31.239	1.00145.37	A1
ATOM	28163	C2'	CYT	448	105.708	63.802	22.927	1.00	57.31	A16S	ATOM	28216	C6	CYT	451	95.150	64.235	30.159	1.00145.37	A1
ATOM	28164	O2'	CYT	448	106.132	63.162	21.742	1.00	57.31	A16S	ATOM	28217	C2	CYT	451	94.808	66.325	31.292	1.00145.37	A1
ATOM	28165	C3'	CYT	448	104.402	64.562	22.732	1.00	57.31	A16S	ATOM	28218	O2	CYT	451	94.368	66.933	32.281	1.00145.37	A1
ATOM	28166	O3'	CYT	448	103.525	63.885	21.845	1.00	57.31	A16S	ATOM	28219	N3	CYT	451	95.405	66.972	30.264	1.00145.37	A1
ATOM	28167	P	CYT	449	102.007	63.613	22.289	1.00	75.19	A16S	ATOM	28220	C4	CYT	451	95.861	66.281	29.215	1.00145.37	A1
ATOM	28168	O1P	CYT	449	101.397	62.751	21.247	1.00	69.63	A16S	ATOM	28221	N4	CYT	451	96.446	66.957	28.223	1.00145.37	A1
ATOM	28169	O2P	CYT	449	101.385	64.920	22.624	1.00	69.63	A16S	ATOM	28222	C5	CYT	451	95.740	64.863	29.135	1.00145.37	A1
ATOM	28170	O5'	CYT	449	102.145	62.785	23.640	1.00	75.19	A16S	ATOM	28223	C2'	CYT	451	92.527	64.061	32.179	1.00 86.47	A1
ATOM	28171	C5'	CYT	449	102.858	61.557	23.681	1.00	75.19	A16S	ATOM	28224	O2'	CYT	451	91.868	64.145	33.429	1.00 86.47	A1
ATOM	28172	C4'	CYT	449	103.001	61.105	25.110	1.00	75.19	A16S	ATOM	28225	C3'	CYT	451	92.448	62.678	31.540	1.00 86.47	A1
ATOM	28173	O4'	CYT	449	103.912	61.991	25.805	1.00	75.19	A16S	ATOM	28226	O3'	CYT	451	91.183	62.067	31.777	1.00 86.47	A1
ATOM	28174	C1'	CYT	449	103.463	62.198	27.133	1.00	75.19	A16S	ATOM	28227	P	CYT	452	89.968	62.338	30.763	1.00 88.66	A1
ATOM	28175	N1	CYT	449	103.220	63.634	27.299	1.00	69.63	A16S	ATOM	28228	O1P	CYT	452	88.791	61.600	31.285	1.00130.07	A1
ATOM	28176	C6	CYT	449	102.960	64.424	26.216	1.00	69.63	A16S	ATOM	28229	O2P	CYT	452	90.442	62.071	29.387	1.00130.07	A1
ATOM	28177	C2	CYT	449	103.284	64.188	28.578	1.00	69.63	A16S	ATOM	28230	O5'	CYT	452	89.677	63.902	30.921	1.00 88.66	A1
ATOM	28178	O2	CYT	449	103.476	63.441	29.547	1.00	69.63	A16S	ATOM	28231	C5'	CYT	452	89.032	64.422	32.087	1.00 88.66	A1
ATOM	28179	N3	CYT	449	103.132	65.519	28.726	1.00	69.63	A16S	ATOM	28232	C4'	CYT	452	88.624	65.869	31.873	1.00 88.66	A1
ATOM	28180	C4	CYT	449	102.915	66.286	27.658	1.00	69.63	A16S	ATOM	28233	O4'	CYT	452	89.792	66.728	31.867	1.00 88.66	A1
ATOM	28181	N4	CYT	449	102.812	67.598	27.845	1.00	69.63	A16S	ATOM	28234	C1'	CYT	452	89.576	67.822	30.985	1.00 88.66	A1
ATOM	28182	C5	CYT	449	102.805	65.741	26.348	1.00	69.63	A16S	ATOM	28235	N1	CYT	452	90.630	67.813	29.960	1.00130.07	A1
ATOM	28183	C2'	CYT	449	102.224	61.326	27.338	1.00	75.19	A16S	ATOM	28236	C6	CYT	452	91.440	66.724	29.797	1.00130.07	A1
ATOM	28184	O2'	CYT	449	102.606	60.087	27.903	1.00	75.19	A16S	ATOM	28237	C2	CYT	452	90.790	68.939	29.149	1.00130.07	A1
ATOM	28185	C3'	CYT	449	101.718	61.202	25.910	1.00	75.19	A16S	ATOM	28238	O2	CYT	452	90.041	69.911	29.318	1.00130.07	A1
ATOM	28186	O3'	CYT	449	100.910	60.059	25.714	1.00	75.19	A16S	ATOM	28239	N3	CYT	452	91.753	68.937	28.201	1.00130.07	A1
ATOM	28187	P	CYT	450	99.324	60.209	25.800	1.00	82.45	A16S	ATOM	28240	C4	CYT	452	92.535	67.866	28.047	1.00130.07	A1
ATOM	28188	O1P	CYT	450	98.749	58.880	25.485	1.00	100.59	A16S	ATOM	28241	N4	CYT	452	93.466	67.902	27.092	1.00130.07	A1
ATOM	28189	O2P	CYT	450	98.918	61.391	25.003	1.00	100.59	A16S	ATOM	28242	C5	CYT	452	92.395	66.707	28.862	1.00130.07	A1
ATOM	28190	O5'	CYT	450	99.092	60.542	27.338	1.00	82.45	A16S	ATOM	28243	C2'	CYT	452	88.178	67.670	30.388	1.00 88.66	A1
ATOM	28191	C5'	CYT	450	99.380	59.571	28.332	1.00	82.45	A16S	ATOM	28244	O2'	CYT	452	87.262	68.480	31.092	1.00 88.66	A1
ATOM	28192	C4'	CYT	450	98.853	60.025	29.665	1.00	82.45	A16S	ATOM	28245	C3'	CYT	452	87.934	66.176	30.556	1.00 88.66	A1
ATOM	28193	O4'	CYT	450	99.697	61.085	30.181	1.00	82.45	A16S	ATOM	28246	O3'	CYT	452	86.551	65.898	30.628	1.00 88.66	A1
ATOM	28194	C1'	CYT	450	98.897	62.073	30.808	1.00	82.45	A16S	ATOM	28247	P	GUA	453	85.810	65.295	29.349	1.00 90.04	A1
ATOM	28195	N1	CYT	450	99.006	63.302	30.007	1.00	100.59	A16S	ATOM	28248	O1P	GUA	453	84.377	65.151	29.705	1.00108.19	A1
ATOM	28196	C6	CYT	450	99.295	63.240	28.672	1.00	100.59	A16S	ATOM	28249	O2P	GUA	453	86.581	64.108	28.900	1.00108.19	A1
ATOM	28197	C2	CYT	450	98.811	64.536	30.630	1.00	100.59	A16S	ATOM	28250	O5'	GUA	453	85.945	66.437	28.244	1.00 90.04	A1
ATOM	28198	O2	CYT	450	98.551	64.562	31.839	1.00	100.59	A16S	ATOM	28251	C5'	GUA	453	85.192	67.646	28.341	1.00 90.04	A1
ATOM	28199	N3	CYT	450	98.909	65.668	29.897	1.00	100.59	A16S	ATOM	28252	C4'	GUA	453	85.665	68.654	27.311	1.00 90.04	A1
ATOM	28200	C4	CYT	450	99.187	65.595	28.595	1.00	100.59	A16S	ATOM	28253	O4'	GUA	453	87.043	69.017	27.588	1.00 90.04	A1
ATOM	28201	N4	CYT	450	99.264	66.733	27.909	1.00	100.59	A16S	ATOM	28254	C1'	GUA	453	87.738	69.198	26.367	1.00 90.04	A1
ATOM	28202	C5	CYT	450	99.394	64.350	27.936	1.00	100.59	A16S	ATOM	28255	N9	GUA	453	88.786	68.186	26.292	1.00108.19	A1
ATOM	28203	C2'	CYT	450	97.470	61.517	30.860	1.00	82.45	A16S	ATOM	28256	C4	GUA	453	89.751	68.078	25.322	1.00108.19	A1
ATOM	28204	O2'	CYT	450	97.275	60.772	32.047	1.00	82.45	A16S	ATOM	28257	N3	GUA	453	89.882	68.873	24.240	1.00108.19	A1
ATOM	28205	C3'	CYT	450	97.459	60.626	29.627	1.00	82.45	A16S	ATOM	28258	C2	GUA	453	90.928	68.541	23.505	1.00108.19	A1
ATOM	28206	O3'	CYT	450	96.446	59.627	29.693	1.00	82.45	A16S	ATOM	28259	N2	GUA	453	91.207	69.230	22.392	1.00108.19	A1
ATOM	28207	P	CYT	451	94.973	59.960	29.148	1.00	86.47	A16S	ATOM	28260	N1	GUA	453	91.778	67.510	23.809	1.00108.19	A1
ATOM	28208	O1P	CYT	451	94.142	58.739	29.308	1.00	145.37	A16S	ATOM	28261	C6	GUA	453	91.663	66.678	24.917	1.00108.19	A1
ATOM	28209	O2P	CYT	451	95.109	60.583	27.807	1.00	145.37	A16S	ATOM	28262	O6	GUA	453	92.494	65.782	25.105	1.00108.19	A1
ATOM	28210	O5'	CYT	451	94.439	61.070	30.161	1.00	86.47	A16S	ATOM	28263	C5	GUA	453	90.540	67.021	25.711	1.00108.19	A1
ATOM	28211	C5'	CYT	451	94.149	60.738	31.515	1.00	86.47	A16S	ATOM	28264	N7	GUA	453	90.062	66.454	26.883	1.00108.19	A1
ATOM	28212	C4'	CYT	451	93.572	61.932	32.246	1.00	86.47	A16S	ATOM	28265	C8	GUA	453	89.019	67.173	27.186	1.00108.19	A1
ATOM	28213	O4'	CYT	451	94.606	62.927	32.448	1.00	86.47	A16S	ATOM	28266	C2'	GUA	453	86.714	69.091	25.238	1.00 90.04	A1
ATOM	28214	C1'	CYT	451	94.040	64.227	32.362	1.00	86.47	A16S	ATOM	28267	O2'	GUA	453	86.188	70.371	24.936	1.00 90.04	A1

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ATOM	28268	C3' GUA	453	85.676	68.177	25.866	1.00	90.04	Al6S	ATOM	28321	C4	GUA	456	89.641	71.333	19.227	1.00106.98
ATOM	28269	O3' GUA	453	84.414	68.375	25.246	1.00	90.04	Al6S	ATOM	28322	N3	GUA	456	89.543	72.575	18.706	1.00106.98
ATOM	28270	P	454	83.557	67.108	24.777	1.00113.19		Al6S	ATOM	28323	C2	GUA	456	88.725	73.341	19.404	1.00106.98
ATOM	28271	O1P ADE	454	82.205	67.600	24.413	1.00106.15		Al6S	ATOM	28324	N2	GUA	456	88.513	74.610	19.022	1.00106.98
ATOM	28272	O2P ADE	454	83.710	66.061	25.819	1.00106.15		Al6S	ATOM	28325	N1	GUA	456	88.055	72.922	20.527	1.00106.98
ATOM	28273	O5' ADE	454	84.258	66.601	23.441	1.00113.19		Al6S	ATOM	28326	C6	GUA	456	88.135	71.647	21.079	1.00106.98
ATOM	28274	C5' ADE	454	85.589	66.089	23.443	1.00113.19		Al6S	ATOM	28327	O6	GUA	456	87.483	71.375	22.095	1.00106.98
ATOM	28275	C4' ADE	454	85.933	65.586	22.066	1.00113.19		Al6S	ATOM	28328	C5	GUA	456	89.012	70.813	20.338	1.00106.98
ATOM	28276	O4' ADE	454	85.307	66.461	21.106	1.00113.19		Al6S	ATOM	28329	N7	GUA	456	89.376	69.487	20.533	1.00106.98
ATOM	28277	C1' ADE	454	86.117	66.556	19.959	1.00113.19		Al6S	ATOM	28330	C8	GUA	456	90.205	69.233	19.558	1.00106.98
ATOM	28278	N9	454	86.215	67.969	19.581	1.00106.15		Al6S	ATOM	28331	C2' GUA	456	92.396	71.421	17.696	1.00 74.23	
ATOM	28279	C4 ADE	454	86.846	68.494	18.478	1.00106.15		Al6S	ATOM	28332	O2' GUA	456	92.699	71.980	16.437	1.00 74.23	
ATOM	28280	N3	454	87.548	67.831	17.543	1.00106.15		Al6S	ATOM	28333	C3' GUA	456	93.549	70.575	18.212	1.00 74.23	
ATOM	28281	C2 ADE	454	87.991	68.666	16.605	1.00106.15		Al6S	ATOM	28334	O3' GUA	456	94.783	71.184	17.863	1.00 74.23	
ATOM	28282	N1	454	87.827	69.989	16.503	1.00106.15		Al6S	ATOM	28335	P	ADE	457	95.498	72.178	18.904	1.00 62.35
ATOM	28283	C6	454	87.119	70.627	17.459	1.00106.15		Al6S	ATOM	28336	O1P ADE	457	96.652	72.802	18.204	1.00 85.33	
ATOM	28284	N6	454	86.960	71.947	17.357	1.00106.15		Al6S	ATOM	28337	O2P ADE	457	95.718	71.451	20.180	1.00 85.33	
ATOM	28285	C5 ADE	454	86.592	69.852	18.510	1.00106.15		Al6S	ATOM	28338	O5' ADE	457	94.414	73.319	19.160	1.00 62.35	
ATOM	28286	N7	454	85.837	70.183	19.626	1.00106.15		Al6S	ATOM	28339	C5' ADE	457	94.169	74.340	18.192	1.00 62.35	
ATOM	28287	C8	454	85.649	69.037	20.230	1.00106.15		Al6S	ATOM	28340	C4' ADE	457	93.308	75.425	18.795	1.00 62.35	
ATOM	28288	C2' ADE	454	87.405	65.754	20.193	1.00113.19		Al6S	ATOM	28341	O4' ADE	457	91.962	74.930	19.000	1.00 62.35	
ATOM	28289	O2' ADE	454	87.312	64.515	19.518	1.00113.19		Al6S	ATOM	28342	C1' ADE	457	91.415	75.506	20.178	1.00 62.35	
ATOM	28290	C3' ADE	454	87.412	65.556	21.709	1.00113.19		Al6S	ATOM	28343	N9	ADE	457	91.057	74.439	21.108	1.00 85.33
ATOM	28291	O3' ADE	454	87.962	64.272	22.022	1.00113.19		Al6S	ATOM	28344	C4	ADE	457	90.094	74.524	22.080	1.00 85.33
ATOM	28292	P	455	89.337	64.169	22.845	1.00162.79		Al6S	ATOM	28345	N3	ADE	457	89.275	75.558	22.323	1.00 85.33
ATOM	28293	O1P	455	89.381	62.816	23.458	1.00121.76		Al6S	ATOM	28346	C2	ADE	457	88.480	75.293	23.356	1.00 85.33
ATOM	28294	O2P	455	89.386	65.368	23.714	1.00121.76		Al6S	ATOM	28347	N1	ADE	457	88.423	74.198	24.119	1.00 85.33
ATOM	28295	O5' CVT	455	90.492	64.287	21.742	1.00162.79		Al6S	ATOM	28348	C6	ADE	457	89.266	73.178	23.850	1.00 85.33
ATOM	28296	C5' CVT	455	91.811	64.727	22.104	1.00162.79		Al6S	ATOM	28349	N6	ADE	457	89.222	72.092	24.622	1.00 85.33
ATOM	28297	C4' CVT	455	92.868	64.058	21.241	1.00162.79		Al6S	ATOM	28350	C5	ADE	457	90.150	73.331	22.770	1.00 85.33
ATOM	28298	O4' CVT	455	92.512	62.670	21.104	1.00162.79		Al6S	ATOM	28351	N7	ADE	457	91.109	72.493	22.223	1.00 85.33
ATOM	28299	C1' CVT	455	93.158	62.153	19.971	1.00162.79		Al6S	ATOM	28352	C8	ADE	457	91.610	73.192	21.236	1.00 85.33
ATOM	28300	N1	455	92.350	61.073	19.395	1.00121.76		Al6S	ATOM	28353	C2' ADE	457	92.481	76.407	20.799	1.00 62.35	
ATOM	28301	C6	455	91.003	61.210	19.204	1.00121.76		Al6S	ATOM	28354	O2' ADE	457	92.235	77.760	20.509	1.00 62.35	
ATOM	28302	C2	455	92.996	59.879	19.057	1.00121.76		Al6S	ATOM	28355	C3' ADE	457	93.756	75.858	20.177	1.00 62.35	
ATOM	28303	O2	455	94.225	59.795	19.220	1.00121.76		Al6S	ATOM	28356	O3' ADE	457	94.756	76.848	20.099	1.00 62.35	
ATOM	28304	N3	455	92.271	58.850	18.567	1.00121.76		Al6S	ATOM	28357	P	GUA	458	95.896	76.897	21.218	1.00 63.58
ATOM	28305	C4	455	90.952	58.980	18.410	1.00121.76		Al6S	ATOM	28358	O1P	GUA	458	96.659	78.153	21.000	1.00109.08
ATOM	28306	N4	455	90.271	57.921	17.962	1.00121.76		Al6S	ATOM	28359	O2P	GUA	458	96.604	75.592	21.209	1.00109.08
ATOM	28307	C5	455	90.270	60.198	18.718	1.00121.76		Al6S	ATOM	28360	O5' GUA	458	95.096	77.014	22.587	1.00 63.58	
ATOM	28308	C2' CVT	455	93.534	63.312	19.043	1.00162.79		Al6S	ATOM	28361	C5' GUA	458	94.230	78.111	22.835	1.00 63.58	
ATOM	28309	O2' CVT	455	94.936	63.317	18.860	1.00162.79		Al6S	ATOM	28362	C4' GUA	458	93.377	77.834	24.047	1.00 63.58	
ATOM	28310	C3' CVT	455	93.048	64.552	19.804	1.00162.79		Al6S	ATOM	28363	O4' GUA	458	92.419	76.778	23.763	1.00 63.58	
ATOM	28311	O3' CVT	455	94.181	65.424	19.692	1.00162.79		Al6S	ATOM	28364	C1' GUA	458	92.143	76.065	24.957	1.00 63.58	
ATOM	28312	P	456	94.201	66.865	20.403	1.00 74.23		Al6S	ATOM	28365	N9	GUA	458	92.499	74.667	24.752	1.00109.08
ATOM	28313	O1P	456	95.631	67.278	20.432	1.00106.98		Al6S	ATOM	28366	C4	GUA	458	92.091	73.603	25.518	1.00109.08
ATOM	28314	O2P	456	93.432	66.829	21.666	1.00106.98		Al6S	ATOM	28367	N3	GUA	458	91.266	73.663	26.585	1.00109.08
ATOM	28315	O5' GUA	456	93.439	67.810	19.373	1.00 74.23		Al6S	ATOM	28368	C2	GUA	458	91.076	72.473	27.128	1.00109.08
ATOM	28316	C5' GUA	456	93.961	68.033	18.067	1.00 74.23		Al6S	ATOM	28369	N2	GUA	458	90.284	72.347	28.197	1.00109.08
ATOM	28317	C4' GUA	456	93.347	69.273	17.455	1.00 74.23		Al6S	ATOM	28370	N1	GUA	458	91.649	71.317	26.661	1.00109.08
ATOM	28318	O4' GUA	456	91.903	69.116	17.399	1.00 74.23		Al6S	ATOM	28371	C6	GUA	458	92.499	71.232	25.564	1.00109.08
ATOM	28319	C1' GUA	456	91.281	70.378	17.561	1.00 74.23		Al6S	ATOM	28372	O6	GUA	458	92.963	70.135	25.227	1.00109.08
ATOM	28320	N9	456	90.412	70.312	18.732	1.00106.98		Al6S	ATOM	28373	C5	GUA	458	92.713	72.501	24.972	1.00109.08

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ATOM	28374	N7	GUA	458	93.484	72.863	23.877	1.00109.08	Al6S	ATOM	28427	O1P	GUA	461	99.577	73.277	38.095	1.00105.13	Al
ATOM	28375	C8	GUA	458	93.322	74.154	23.782	1.00109.08	Al6S	ATOM	28428	O2P	GUA	461	99.921	73.633	35.575	1.00105.13	Al
ATOM	28376	C2'	GUA	458	92.997	76.685	26.067	1.00 63.58	Al6S	ATOM	28429	O5'	GUA	461	99.421	71.383	36.502	1.00 94.15	Al
ATOM	28377	O2'	GUA	458	92.262	77.653	26.772	1.00 63.58	Al6S	ATOM	28430	C5'	GUA	461	98.807	70.482	37.397	1.00 94.15	Al
ATOM	28378	C3'	GUA	458	94.119	77.324	25.269	1.00 63.58	Al6S	ATOM	28431	C4'	GUA	461	99.252	69.082	37.097	1.00 94.15	Al
ATOM	28379	O3'	GUA	458	94.691	78.393	26.003	1.00 63.58	Al6S	ATOM	28432	O4'	GUA	461	98.770	68.692	35.784	1.00 94.15	Al
ATOM	28380	P	GUA	459	95.654	78.075	27.248	1.00 86.85	Al6S	ATOM	28433	C1'	GUA	461	99.695	67.792	35.195	1.00 94.15	Al
ATOM	28381	O1P	GUA	459	95.992	79.376	27.885	1.00103.29	Al6S	ATOM	28434	N9	GUA	461	100.206	68.398	33.973	1.00105.13	Al
ATOM	28382	O2P	GUA	459	96.744	77.187	26.771	1.00103.29	Al6S	ATOM	28435	C4	GUA	461	100.816	67.736	32.942	1.00105.13	Al
ATOM	28383	O5'	GUA	459	94.739	77.236	28.250	1.00 86.85	Al6S	ATOM	28436	N3	GUA	461	101.024	66.406	32.873	1.00105.13	Al
ATOM	28384	C5'	GUA	459	93.993	77.875	29.282	1.00 86.85	Al6S	ATOM	28437	C2	GUA	461	101.649	66.062	31.764	1.00105.13	Al
ATOM	28385	C4'	GUA	459	93.614	76.875	30.350	1.00 86.85	Al6S	ATOM	28438	N2	GUA	461	101.938	64.775	31.535	1.00105.13	Al
ATOM	28386	O4'	GUA	459	92.787	75.840	29.759	1.00 86.85	Al6S	ATOM	28439	N1	GUA	461	102.038	66.955	30.799	1.00105.13	Al
ATOM	28387	C1'	GUA	459	93.138	74.577	30.299	1.00 86.85	Al6S	ATOM	28440	C6	GUA	461	101.836	68.331	30.853	1.00105.13	Al
ATOM	28388	N9	GUA	459	93.717	73.788	29.221	1.00103.29	Al6S	ATOM	28441	O6	GUA	461	102.239	69.051	29.933	1.00105.13	Al
ATOM	28389	C4	GUA	459	94.044	72.452	29.249	1.00103.29	Al6S	ATOM	28442	C5	GUA	461	101.163	68.711	32.036	1.00105.13	Al
ATOM	28390	N3	GUA	459	93.885	71.616	30.296	1.00103.29	Al6S	ATOM	28443	N7	GUA	461	100.765	69.962	32.482	1.00105.13	Al
ATOM	28391	C2	GUA	459	94.289	70.387	30.011	1.00103.29	Al6S	ATOM	28444	C8	GUA	461	100.199	69.727	33.633	1.00105.13	Al
ATOM	28392	N2	GUA	459	94.192	69.419	30.936	1.00103.29	Al6S	ATOM	28445	C2'	GUA	461	100.817	67.581	36.212	1.00 94.15	Al
ATOM	28393	N1	GUA	459	94.814	70.014	28.798	1.00103.29	Al6S	ATOM	28446	O2'	GUA	461	100.530	66.466	37.034	1.00 94.15	Al
ATOM	28394	C6	GUA	459	94.988	70.859	27.706	1.00103.29	Al6S	ATOM	28447	C3'	GUA	461	100.751	68.887	36.983	1.00 94.15	Al
ATOM	28395	O5	GUA	459	95.475	70.422	26.649	1.00103.29	Al6S	ATOM	28448	O3'	GUA	461	101.379	68.788	38.251	1.00 94.15	Al
ATOM	28396	C5	GUA	459	94.552	72.176	27.997	1.00103.29	Al6S	ATOM	28449	P	ADE	462	102.952	69.086	38.376	1.00 95.01	Al
ATOM	28397	N7	GUA	459	94.543	73.312	27.201	1.00103.29	Al6S	ATOM	28450	O1P	ADE	462	103.278	69.143	39.825	1.00113.32	Al
ATOM	28398	C8	GUA	459	94.043	74.240	27.968	1.00103.29	Al6S	ATOM	28451	O2P	ADE	462	103.266	70.252	37.508	1.00113.32	Al
ATOM	28399	O2'	GUA	459	94.120	74.830	31.439	1.00 86.85	Al6S	ATOM	28452	O5'	ADE	462	103.628	67.776	37.765	1.00 95.01	Al
ATOM	28400	C2'	GUA	459	93.418	74.959	32.655	1.00 86.85	Al6S	ATOM	28453	C5'	ADE	462	103.378	66.497	38.347	1.00 95.01	Al
ATOM	28401	C3'	GUA	459	94.772	76.130	30.991	1.00 86.85	Al6S	ATOM	28454	C4'	ADE	462	103.878	65.384	37.450	1.00 95.01	Al
ATOM	28402	O3'	GUA	459	95.283	76.857	32.099	1.00 86.85	Al6S	ATOM	28455	O4'	ADE	462	103.158	65.396	36.187	1.00 95.01	Al
ATOM	28403	P	GUA	460	96.702	76.449	32.733	1.00 87.96	Al6S	ATOM	28456	C1'	ADE	462	104.025	64.992	35.138	1.00 95.01	Al
ATOM	28404	O1P	GUA	460	97.005	77.421	33.813	1.00112.19	Al6S	ATOM	28457	N9	ADE	462	104.227	66.139	34.258	1.00113.32	Al
ATOM	28405	O2P	GUA	460	97.666	76.263	31.619	1.00112.19	Al6S	ATOM	28458	C4	ADE	462	104.779	66.110	33.003	1.00113.32	Al
ATOM	28406	O5'	GUA	460	96.439	75.035	33.418	1.00 87.96	Al6S	ATOM	28459	N3	ADE	462	105.231	65.036	32.336	1.00113.32	Al
ATOM	28407	C5'	GUA	460	95.722	74.938	34.642	1.00 87.96	Al6S	ATOM	28460	C2	ADE	462	105.700	65.389	31.144	1.00113.32	Al
ATOM	28408	C4'	GUA	460	95.681	73.504	35.110	1.00 87.96	Al6S	ATOM	28461	N1	ADE	462	105.764	66.603	30.583	1.00113.32	Al
ATOM	28409	O4'	GUA	460	95.036	72.685	34.094	1.00 87.96	Al6S	ATOM	28462	C6	ADE	462	105.299	67.662	31.281	1.00113.32	Al
ATOM	28410	C1'	GUA	460	95.619	71.388	34.086	1.00 87.96	Al6S	ATOM	28463	N6	ADE	462	105.358	68.874	30.724	1.00113.32	Al
ATOM	28411	N9	GUA	460	96.286	71.196	32.806	1.00112.19	Al6S	ATOM	28464	C5	ADE	462	104.777	67.420	32.562	1.00113.32	Al
ATOM	28412	C4	GUA	460	96.882	70.041	32.365	1.00112.19	Al6S	ATOM	28465	N7	ADE	462	104.233	68.262	33.522	1.00113.32	Al
ATOM	28413	N3	GUA	460	96.933	68.870	33.032	1.00112.19	Al6S	ATOM	28466	C8	ADE	462	103.922	67.455	34.505	1.00113.32	Al
ATOM	28414	C2	GUA	460	97.583	67.941	32.351	1.00112.19	Al6S	ATOM	28467	C2'	ADE	462	105.336	64.567	35.796	1.00 95.01	Al
ATOM	28415	N2	GUA	460	97.728	66.712	32.866	1.00112.19	Al6S	ATOM	28468	O2'	ADE	462	105.288	63.192	36.104	1.00 95.01	Al
ATOM	28416	N1	GUA	460	98.138	68.146	31.114	1.00112.19	Al6S	ATOM	28469	C3'	ADE	462	105.334	65.449	37.034	1.00 95.01	Al
ATOM	28417	C6	GUA	460	98.096	69.344	30.409	1.00112.19	Al6S	ATOM	28470	O3'	ADE	462	106.188	64.944	38.045	1.00 95.01	Al
ATOM	28418	O6	GUA	460	98.628	69.423	29.298	1.00112.19	Al6S	ATOM	28471	P	CYT	463	107.727	65.397	38.068	1.00 89.81	Al
ATOM	28419	C5	GUA	460	97.402	70.348	31.128	1.00112.19	Al6S	ATOM	28472	O1P	CYT	463	108.366	64.754	39.244	1.00 79.39	Al
ATOM	28420	N7	GUA	460	97.131	71.667	30.795	1.00112.19	Al6S	ATOM	28473	O2P	CYT	463	107.791	66.879	37.910	1.00 79.39	Al
ATOM	28421	C8	GUA	460	96.466	72.129	31.818	1.00112.19	Al6S	ATOM	28474	O5'	CYT	463	108.324	64.695	36.773	1.00 89.81	Al
ATOM	28422	C2'	GUA	460	96.645	71.358	35.218	1.00 87.96	Al6S	ATOM	28475	C5'	CYT	463	108.189	63.290	36.601	1.00 89.81	Al
ATOM	28423	O2'	GUA	460	96.063	70.870	36.412	1.00 87.96	Al6S	ATOM	28476	C4'	CYT	463	109.043	62.824	35.455	1.00 89.81	Al
ATOM	28424	C3'	GUA	460	97.028	72.827	35.289	1.00 87.96	Al6S	ATOM	28477	O4'	CYT	463	108.397	63.100	34.184	1.00 89.81	Al
ATOM	28425	O3'	GUA	460	97.642	73.145	36.526	1.00 87.96	Al6S	ATOM	28478	C1'	CYT	463	109.385	63.423	33.212	1.00 89.81	Al
ATOM	28426	P	GUA	461	99.225	72.944	36.692	1.00 94.15	Al6S	ATOM	28479	N1	CYT	463	109.164	64.807	32.752	1.00 79.39	Al

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ATOM	28480	C6	CYT	463	108.519	65.717	33.539	1.00	79.39	Al6S	ATOM	28533	O3'	GUA	465	123.054	65.579	34.277	1.00	62.18
ATOM	28481	C2	CYT	463	109.636	65.179	31.495	1.00	79.39	Al6S	ATOM	28534	P	ADE	466	124.566	66.027	34.298	1.00	61.58
ATOM	28482	O2	CYT	463	110.209	64.336	30.798	1.00	79.39	Al6S	ATOM	28535	O1P	ADE	466	125.315	65.179	35.264	1.00	70.99
ATOM	28483	N3	CYT	463	109.456	66.446	31.068	1.00	79.39	Al6S	ATOM	28536	O2P	ADE	466	124.487	67.497	34.521	1.00	70.99
ATOM	28484	C4	CYT	463	108.828	67.326	31.843	1.00	79.39	Al6S	ATOM	28537	O5'	ADE	466	125.068	65.723	32.816	1.00	61.58
ATOM	28485	N4	CYT	463	108.671	68.564	31.376	1.00	79.39	Al6S	ATOM	28538	C5'	ADE	466	126.071	64.744	32.574	1.00	61.58
ATOM	28486	C5	CYT	463	108.333	66.975	33.128	1.00	79.39	Al6S	ATOM	28539	C4'	ADE	466	126.975	65.192	31.454	1.00	61.58
ATOM	28487	C2'	CYT	463	110.739	63.258	33.902	1.00	89.81	Al6S	ATOM	28540	O4'	ADE	466	126.189	65.395	30.254	1.00	61.58
ATOM	28488	O2'	CYT	463	111.190	61.934	33.739	1.00	89.81	Al6S	ATOM	28541	C1'	ADE	466	126.661	66.530	29.562	1.00	61.58
ATOM	28489	C3'	CYT	463	110.362	63.551	35.341	1.00	89.81	Al6S	ATOM	28542	N9	ADE	466	125.597	67.528	29.595	1.00	70.99
ATOM	28490	O3'	CYT	463	111.303	63.070	36.276	1.00	89.81	Al6S	ATOM	28543	C4	ADE	466	125.611	68.791	29.065	1.00	70.99
ATOM	28491	P	URI	464	112.492	64.032	36.745	1.00	83.00	Al6S	ATOM	28544	N3	ADE	466	126.608	69.379	28.396	1.00	70.99
ATOM	28492	O1P	URI	464	113.357	63.285	37.695	1.00	89.86	Al6S	ATOM	28545	C2	ADE	466	126.269	70.609	28.050	1.00	70.99
ATOM	28493	O2P	URI	464	111.916	65.343	37.148	1.00	89.86	Al6S	ATOM	28546	N1	ADE	466	125.132	71.271	28.277	1.00	70.99
ATOM	28494	O5'	URI	464	113.307	64.220	35.393	1.00	83.00	Al6S	ATOM	28547	C6	ADE	466	124.148	70.648	28.948	1.00	70.99
ATOM	28495	C5'	URI	464	113.751	63.083	34.659	1.00	83.00	Al6S	ATOM	28548	N6	ADE	466	123.009	71.306	29.168	1.00	70.99
ATOM	28496	C4'	URI	464	114.428	63.518	33.391	1.00	83.00	Al6S	ATOM	28549	C5	ADE	466	124.385	69.338	29.372	1.00	70.99
ATOM	28497	O4'	URI	464	113.450	64.002	32.434	1.00	83.00	Al6S	ATOM	28550	N7	ADE	466	123.608	68.433	30.072	1.00	70.99
ATOM	28498	C1'	URI	464	113.219	66.285	31.953	1.00	89.86	Al6S	ATOM	28551	C8	ADE	466	124.372	67.380	30.175	1.00	70.99
ATOM	28499	N1	URI	464	112.556	66.476	33.138	1.00	89.86	Al6S	ATOM	28552	C2'	ADE	466	127.947	66.976	30.261	1.00	61.58
ATOM	28500	C6	URI	464	113.181	67.232	30.961	1.00	89.86	Al6S	ATOM	28553	O2'	ADE	466	129.043	66.309	29.671	1.00	61.58
ATOM	28501	O2	URI	464	113.750	67.083	29.900	1.00	89.86	Al6S	ATOM	28554	C3'	ADE	466	127.698	66.503	31.683	1.00	61.58
ATOM	28502	C2	URI	464	112.453	68.357	31.254	1.00	89.86	Al6S	ATOM	28555	O3'	ADE	466	128.935	66.214	32.301	1.00	61.58
ATOM	28503	N3	URI	464	111.768	68.619	32.419	1.00	89.86	Al6S	ATOM	28556	P	CYT	467	129.407	67.052	33.574	1.00	58.90
ATOM	28504	C4	URI	464	111.163	69.687	32.539	1.00	89.86	Al6S	ATOM	28557	O1P	CYT	467	130.724	66.507	33.992	1.00	65.21
ATOM	28505	O5'	URI	464	111.849	67.582	33.400	1.00	89.86	Al6S	ATOM	28558	O2P	CYT	467	128.273	67.078	34.537	1.00	65.21
ATOM	28506	C2'	URI	464	115.447	65.238	32.158	1.00	83.00	Al6S	ATOM	28559	O5'	CYT	467	129.664	68.516	33.010	1.00	58.90
ATOM	28507	O2'	URI	464	116.296	64.459	31.351	1.00	83.00	Al6S	ATOM	28560	C5'	CYT	467	130.623	68.738	31.983	1.00	58.90
ATOM	28508	O2'	URI	464	116.346	64.701	33.573	1.00	83.00	Al6S	ATOM	28561	C4'	CYT	467	130.350	70.048	31.284	1.00	58.90
ATOM	28509	C3'	URI	464	116.597	64.323	34.100	1.00	83.00	Al6S	ATOM	28562	O4'	CYT	467	129.031	70.007	30.685	1.00	58.90
ATOM	28510	O3'	URI	464	117.667	65.462	34.416	1.00	62.18	Al6S	ATOM	28563	C1'	CYT	467	128.436	71.288	30.768	1.00	58.90
ATOM	28511	P	GUA	465	117.152	66.370	35.471	1.00	92.34	Al6S	ATOM	28564	N1	CYT	467	127.202	71.170	31.551	1.00	65.21
ATOM	28512	O1P	GUA	465	118.033	66.011	33.088	1.00	92.34	Al6S	ATOM	28565	C6	CYT	467	126.962	70.076	32.334	1.00	65.21
ATOM	28513	O2P	GUA	465	118.918	64.712	35.017	1.00	62.18	Al6S	ATOM	28566	C2	CYT	467	126.272	72.197	31.477	1.00	65.21
ATOM	28514	O5'	GUA	465	120.084	65.451	35.280	1.00	62.18	Al6S	ATOM	28567	O2	CYT	467	126.526	73.173	30.768	1.00	65.21
ATOM	28515	C5'	GUA	465	120.752	65.845	33.973	1.00	62.18	Al6S	ATOM	28568	N3	CYT	467	125.122	72.106	32.180	1.00	65.21
ATOM	28516	C4'	GUA	465	119.957	66.783	33.199	1.00	62.18	Al6S	ATOM	28569	C4	CYT	467	124.894	71.037	32.943	1.00	65.21
ATOM	28517	O4'	GUA	465	120.813	67.655	32.482	1.00	62.18	Al6S	ATOM	28570	N4	CYT	467	123.748	70.989	33.622	1.00	65.21
ATOM	28518	C1'	GUA	465	120.441	69.021	32.835	1.00	92.34	Al6S	ATOM	28571	C5	CYT	467	125.832	69.970	33.043	1.00	65.21
ATOM	28519	N9	GUA	465	120.038	70.025	31.974	1.00	92.34	Al6S	ATOM	28572	C2'	CYT	467	129.461	72.235	30.377	1.00	58.90
ATOM	28520	C4	GUA	465	120.032	69.968	30.624	1.00	92.34	Al6S	ATOM	28573	O2'	CYT	467	130.180	72.906	30.377	1.00	58.90
ATOM	28521	N3	GUA	465	119.536	71.074	30.083	1.00	92.34	Al6S	ATOM	28574	C3'	CYT	467	130.324	71.266	32.187	1.00	58.90
ATOM	28522	C2	GUA	465	119.505	71.216	28.753	1.00	92.34	Al6S	ATOM	28575	O3'	CYT	467	131.640	71.764	32.349	1.00	58.90
ATOM	28523	N2	GUA	465	119.043	72.124	30.805	1.00	92.34	Al6S	ATOM	28576	P	GUA	468	132.170	72.156	33.811	1.00	80.13
ATOM	28524	N1	GUA	465	119.019	72.195	32.190	1.00	92.34	Al6S	ATOM	28577	O1P	GUA	468	131.637	73.511	34.084	1.00	78.53
ATOM	28525	C6	GUA	465	118.502	73.172	32.745	1.00	92.34	Al6S	ATOM	28578	O2P	GUA	468	133.636	71.930	33.818	1.00	78.53
ATOM	28526	O6	GUA	465	119.605	71.044	32.785	1.00	92.34	Al6S	ATOM	28579	O5'	GUA	468	131.465	71.088	34.774	1.00	80.13
ATOM	28527	C5	GUA	465	119.823	70.735	34.120	1.00	92.34	Al6S	ATOM	28580	C5'	GUA	468	131.705	71.060	36.192	1.00	80.13
ATOM	28528	N7	GUA	465	120.336	69.535	34.099	1.00	92.34	Al6S	ATOM	28581	C4'	GUA	468	130.389	71.063	36.943	1.00	80.13
ATOM	28529	C8	GUA	465	122.245	67.250	32.825	1.00	62.18	Al6S	ATOM	28582	O4'	GUA	468	129.663	72.221	36.494	1.00	80.13
ATOM	28530	O2'	GUA	465	122.685	66.252	31.932	1.00	62.18	Al6S	ATOM	28583	C1'	GUA	468	128.301	72.002	36.722	1.00	80.13
ATOM	28531	C2'	GUA	465	122.062	66.568	34.159	1.00	62.18	Al6S	ATOM	28584	N9	GUA	468	127.508	72.794	35.796	1.00	78.53
ATOM	28532	C3'	GUA	465							ATOM	28585	C4	GUA	468	126.159	73.041	35.896	1.00	78.53

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ATOM	28586	N3	GUA	468	125.336	72.572	36.856	1.00	78.53	A16S	ATOM	28639	O2' URI	470	132.227	76.915	35.469	1.00	85.51	AJ
ATOM	28587	C2	GUA	468	124.093	72.985	36.685	1.00	78.53	A16S	ATOM	28640	C3' URI	470	132.214	76.640	37.898	1.00	85.51	AJ
ATOM	28588	N2	GUA	468	123.137	72.612	37.552	1.00	78.53	A16S	ATOM	28641	O3' URI	470	133.304	77.544	37.890	1.00	85.51	AJ
ATOM	28589	N1	GUA	468	123.693	73.794	35.656	1.00	78.53	A16S	ATOM	28642	P ADE	471	133.105	79.014	38.491	1.00	76.24	AJ
ATOM	28590	C6	GUA	468	124.525	74.290	34.664	1.00	78.53	A16S	ATOM	28643	O1P ADE	471	134.360	79.765	38.233	1.00	71.91	AJ
ATOM	28591	O6	GUA	468	124.065	75.017	33.789	1.00	78.53	A16S	ATOM	28644	O2P ADE	471	132.602	78.868	39.886	1.00	71.91	AJ
ATOM	28592	C5	GUA	468	125.857	73.854	34.833	1.00	78.53	A16S	ATOM	28645	O5' ADE	471	131.933	79.634	37.604	1.00	76.24	AJ
ATOM	28593	N7	GUA	468	126.990	74.111	34.072	1.00	78.53	A16S	ATOM	28646	C5' ADE	471	132.174	80.029	36.264	1.00	76.24	AJ
ATOM	28594	C8	GUA	468	127.944	73.457	34.680	1.00	78.53	A16S	ATOM	28647	C4' ADE	471	130.994	80.798	35.729	1.00	76.24	AJ
ATOM	28595	C2'	GUA	468	128.038	70.496	36.773	1.00	80.13	A16S	ATOM	28648	O4' ADE	471	129.821	79.955	35.790	1.00	76.24	AJ
ATOM	28596	O2'	GUA	468	127.376	70.186	37.986	1.00	80.13	A16S	ATOM	28649	C1' ADE	471	128.681	80.745	36.053	1.00	76.24	AJ
ATOM	28597	C3'	GUA	468	129.442	69.885	36.592	1.00	80.13	A16S	ATOM	28650	N9 ADE	471	128.073	80.261	37.288	1.00	71.91	AJ
ATOM	28598	O3'	GUA	468	129.407	68.944	37.781	1.00	80.13	A16S	ATOM	28651	C4 ADE	471	126.797	80.530	37.698	1.00	71.91	AJ
ATOM	28599	P	GUA	469	130.746	68.256	38.348	1.00	83.34	A16S	ATOM	28652	N3 ADE	471	125.897	81.302	37.076	1.00	71.91	AJ
ATOM	28600	O1P	GUA	469	131.683	68.009	37.226	1.00	89.41	A16S	ATOM	28653	C2 ADE	471	124.753	81.317	37.748	1.00	71.91	AJ
ATOM	28601	O2P	GUA	469	130.285	67.120	39.183	1.00	89.41	A16S	ATOM	28654	N1 ADE	471	124.427	80.685	38.878	1.00	71.91	AJ
ATOM	28602	O5'	GUA	469	131.401	69.350	39.304	1.00	83.34	A16S	ATOM	28655	C6 ADE	471	125.352	79.909	39.473	1.00	71.91	AJ
ATOM	28603	C5'	GUA	469	130.953	69.534	40.652	1.00	83.34	A16S	ATOM	28656	N6 ADE	471	125.011	79.259	40.587	1.00	71.91	AJ
ATOM	28604	C4'	GUA	469	130.287	70.881	40.785	1.00	83.34	A16S	ATOM	28657	C5 ADE	471	126.619	79.826	38.869	1.00	71.91	AJ
ATOM	28605	O4'	GUA	469	128.912	70.693	41.166	1.00	83.34	A16S	ATOM	28658	N7 ADE	471	127.779	79.148	39.213	1.00	71.91	AJ
ATOM	28606	C1'	GUA	469	128.422	71.923	41.641	1.00	83.34	A16S	ATOM	28659	C8 ADE	471	128.612	79.442	38.247	1.00	71.91	AJ
ATOM	28607	N9	GUA	469	127.506	71.701	42.749	1.00	89.41	A16S	ATOM	28660	C2' ADE	471	129.136	82.200	36.110	1.00	76.24	AJ
ATOM	28608	C4	GUA	469	126.308	72.329	42.884	1.00	89.41	A16S	ATOM	28661	O2' ADE	471	128.997	82.774	34.828	1.00	76.24	AJ
ATOM	28609	N3	GUA	469	125.817	73.250	42.040	1.00	89.41	A16S	ATOM	28662	C3' ADE	471	130.597	82.041	36.504	1.00	76.24	AJ
ATOM	28610	C2	GUA	469	124.636	73.677	42.411	1.00	89.41	A16S	ATOM	28663	O3' ADE	471	131.359	83.158	36.065	1.00	76.24	AJ
ATOM	28611	N2	GUA	469	124.020	74.601	41.670	1.00	89.41	A16S	ATOM	28664	P CYT	472	131.736	84.324	37.100	1.00	66.03	AJ
ATOM	28612	N1	GUA	469	123.977	73.231	43.532	1.00	89.41	A16S	ATOM	28665	O1P CYT	472	132.148	85.495	36.288	1.00	77.27	AJ
ATOM	28613	C6	GUA	469	124.467	72.276	44.421	1.00	89.41	A16S	ATOM	28666	O2P CYT	472	132.671	83.771	38.112	1.00	77.27	AJ
ATOM	28614	O6	GUA	469	123.790	71.938	45.403	1.00	89.41	A16S	ATOM	28667	O5' CYT	472	130.350	84.674	37.803	1.00	66.03	AJ
ATOM	28615	C5	GUA	469	125.747	71.815	44.027	1.00	89.41	A16S	ATOM	28668	C5' CYT	472	129.342	85.406	37.112	1.00	66.03	AJ
ATOM	28616	N7	GUA	469	126.593	70.885	44.612	1.00	89.41	A16S	ATOM	28669	C4' CYT	472	128.068	85.425	37.921	1.00	66.03	AJ
ATOM	28617	C8	GUA	469	127.630	70.855	43.819	1.00	89.41	A16S	ATOM	28670	O4' CYT	472	127.591	84.060	38.066	1.00	66.03	AJ
ATOM	28618	C2'	GUA	469	129.607	72.847	41.921	1.00	83.34	A16S	ATOM	28671	C1' CYT	472	127.039	83.877	39.366	1.00	66.03	AJ
ATOM	28619	O2'	GUA	469	129.626	73.847	40.925	1.00	83.34	A16S	ATOM	28672	N1 CYT	472	127.868	82.905	40.092	1.00	77.27	AJ
ATOM	28620	C3'	GUA	469	130.797	71.900	41.800	1.00	83.34	A16S	ATOM	28673	C6 CYT	472	129.156	82.654	39.711	1.00	77.27	AJ
ATOM	28621	O3'	GUA	469	131.945	72.579	41.275	1.00	83.34	A16S	ATOM	28674	C2 CYT	472	127.316	82.243	41.186	1.00	77.27	AJ
ATOM	28622	P' URI	470	132.208	74.151	41.590	1.00	85.51	A16S	ATOM	28675	O2 CYT	472	126.150	82.505	41.513	1.00	77.27	AJ	
ATOM	28623	O1P URI	470	133.637	74.258	41.977	1.00	62.38	A16S	ATOM	28676	N3 CYT	472	128.064	81.341	41.860	1.00	77.27	AJ	
ATOM	28624	O2P URI	470	131.174	74.758	42.472	1.00	62.38	A16S	ATOM	28677	C4 CYT	472	129.316	81.097	41.477	1.00	77.27	AJ	
ATOM	28625	O5' URI	470	132.091	74.832	40.155	1.00	85.51	A16S	ATOM	28678	N4 CYT	472	130.013	80.195	42.159	1.00	77.27	AJ	
ATOM	28626	C5' URI	470	133.108	74.622	39.182	1.00	85.51	A16S	ATOM	28679	C5 CYT	472	129.909	81.767	40.371	1.00	77.27	AJ	
ATOM	28627	O4' URI	470	132.702	75.207	37.856	1.00	85.51	A16S	ATOM	28680	C2' CYT	472	127.050	85.239	40.057	1.00	66.03	AJ	
ATOM	28628	C4' URI	470	131.572	74.479	37.321	1.00	85.51	A16S	ATOM	28681	O2' CYT	472	125.818	85.904	39.876	1.00	66.03	AJ	
ATOM	28629	C1' URI	470	130.763	75.361	36.568	1.00	85.51	A16S	ATOM	28682	C3' CYT	472	128.221	85.912	39.355	1.00	66.03	AJ	
ATOM	28630	N1 URI	470	129.439	75.393	37.183	1.00	62.38	A16S	ATOM	28683	O3' CYT	472	128.162	87.324	39.477	1.00	66.03	AJ	
ATOM	28631	C6 URI	470	129.179	74.753	38.364	1.00	62.38	A16S	ATOM	28684	P CYT	473	128.813	88.020	40.763	1.00	71.45	AJ	
ATOM	28632	C2 URI	470	128.467	76.089	36.525	1.00	62.38	A16S	ATOM	28685	O1P CYT	473	128.731	89.488	40.583	1.00	77.19	AJ	
ATOM	28633	O2 URI	470	128.681	76.669	35.479	1.00	62.38	A16S	ATOM	28686	O2P CYT	473	130.128	87.382	41.000	1.00	77.19	AJ	
ATOM	28634	N3 URI	470	127.238	76.083	37.132	1.00	62.38	A16S	ATOM	28687	O5' CYT	473	127.832	87.611	41.946	1.00	71.45	AJ	
ATOM	28635	C4 URI	470	126.906	75.455	38.311	1.00	62.38	A16S	ATOM	28688	C5' CYT	473	126.482	88.060	41.957	1.00	71.45	AJ	
ATOM	28636	O4 URI	470	125.753	75.503	38.712	1.00	62.38	A16S	ATOM	28689	C4' CYT	473	125.793	87.594	43.214	1.00	71.45	AJ	
ATOM	28637	C5 URI	470	127.974	74.761	38.936	1.00	62.38	A16S	ATOM	28690	O4' CYT	473	125.606	86.152	43.163	1.00	71.45	AJ	
ATOM	28638	C2' URI	470	131.415	76.738	36.611	1.00	85.51	A16S	ATOM	28691	C1' CYT	473	125.790	85.599	44.461	1.00	71.45	AJ	

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ATOM	28692	N1	CYT	473	126.983	84.737	44.430	1.00	77.19	A16S	28745	C8	GUA	475	131.339	86.083	51.606	1.00104.74
ATOM	28693	C6	CYT	473	127.906	84.854	43.431	1.00	77.19	A16S	28746	O2	GUA	475	132.249	86.756	54.908	1.00 69.48
ATOM	28694	C2	CYT	473	127.164	83.797	45.449	1.00	77.19	A16S	28747	C2	GUA	475	132.137	86.474	56.283	1.00 69.48
ATOM	28695	O2	CYT	473	126.300	83.702	46.337	1.00	77.19	A16S	28748	C3	GUA	475	131.778	88.157	54.545	1.00 69.48
ATOM	28696	N3	CYT	473	128.272	83.015	45.442	1.00	77.19	A16S	28749	O3	GUA	475	132.186	89.113	55.508	1.00 69.48
ATOM	28697	C4	CYT	473	129.173	83.145	44.463	1.00	77.19	A16S	28750	P	GUA	476	133.654	89.766	55.404	1.00 75.28
ATOM	28698	N4	CYT	473	130.258	82.360	44.493	1.00	77.19	A16S	28751	O1P	GUA	476	133.869	90.602	56.614	1.00109.51
ATOM	28699	C5	CYT	473	129.005	84.086	43.408	1.00	77.19	A16S	28752	O2P	GUA	476	133.806	90.374	54.057	1.00109.51
ATOM	28700	C2	CYT	473	125.966	86.777	45.420	1.00	71.45	A16S	28753	O5	GUA	476	134.639	88.522	55.505	1.00 75.28
ATOM	28701	O2	CYT	473	124.706	87.190	45.918	1.00	71.45	A16S	28754	C5	GUA	476	134.769	87.807	56.718	1.00 75.28
ATOM	28702	C3	CYT	473	126.588	87.810	44.490	1.00	71.45	A16S	28755	O4	GUA	476	135.846	86.771	56.592	1.00 75.28
ATOM	28703	O3	CYT	473	126.477	89.137	44.989	1.00	71.45	A16S	28756	C4	GUA	476	135.502	85.857	55.521	1.00 75.28
ATOM	28704	P	GUA	474	127.668	89.743	45.884	1.00	82.84	A16S	28757	C1	GUA	476	136.690	85.401	54.892	1.00 75.28
ATOM	28705	O1P	GUA	474	127.381	91.184	46.087	1.00	85.69	A16S	28758	N9	GUA	476	136.611	85.719	53.469	1.00109.51
ATOM	28706	O2P	GUA	474	128.980	89.327	45.328	1.00	85.69	A16S	28759	C4	GUA	476	137.434	85.241	52.474	1.00109.51
ATOM	28707	O5	GUA	474	127.501	88.992	47.271	1.00	82.84	A16S	28760	N3	GUA	476	138.474	84.400	52.640	1.00109.51
ATOM	28708	C5	GUA	474	126.449	89.327	48.157	1.00	82.84	A16S	28761	C2	GUA	476	139.063	84.114	51.493	1.00109.51
ATOM	28709	O4	GUA	474	126.581	88.522	49.416	1.00	82.84	A16S	28762	N2	GUA	476	140.114	83.289	51.470	1.00109.51
ATOM	28710	C4	GUA	474	126.456	87.115	49.071	1.00	82.84	A16S	28763	N1	GUA	476	138.665	84.613	50.280	1.00109.51
ATOM	28711	C1	GUA	474	127.290	86.342	49.919	1.00	85.69	A16S	28764	C6	GUA	476	137.597	85.477	50.084	1.00109.51
ATOM	28712	N9	GUA	474	128.283	85.668	49.093	1.00	85.69	A16S	28765	O6	GUA	476	137.317	85.860	48.943	1.00109.51
ATOM	28713	C4	GUA	474	129.129	84.667	49.498	1.00	85.69	A16S	28766	C5	GUA	476	136.956	85.796	51.307	1.00109.51
ATOM	28714	N3	GUA	474	129.155	84.099	50.722	1.00	85.69	A16S	28767	N7	GUA	476	135.864	86.614	51.562	1.00109.51
ATOM	28715	C2	GUA	474	130.059	83.174	50.820	1.00	85.69	A16S	28768	C8	GUA	476	135.698	86.540	52.855	1.00109.51
ATOM	28716	N2	GUA	474	130.261	82.495	51.970	1.00	85.69	A16S	28769	C2	GUA	476	137.867	86.077	55.596	1.00 75.28
ATOM	28717	N1	GUA	474	130.955	82.844	49.799	1.00	85.69	A16S	28770	O2	GUA	476	138.380	85.230	56.603	1.00 75.28
ATOM	28718	C6	GUA	474	130.950	83.417	48.534	1.00	85.69	A16S	28771	C3	GUA	476	137.198	87.312	56.177	1.00 75.28
ATOM	28719	O6	GUA	474	131.779	83.052	47.694	1.00	85.69	A16S	28772	O3	GUA	476	137.916	87.798	57.297	1.00 75.28
ATOM	28720	C5	GUA	474	129.928	84.402	48.410	1.00	85.69	A16S	28773	P	GUA	477	139.064	88.898	57.082	1.00 72.55
ATOM	28721	N7	GUA	474	129.566	85.195	47.331	1.00	85.69	A16S	28774	O1P	GUA	477	139.807	89.025	58.366	1.00 88.51
ATOM	28722	C8	GUA	474	128.583	85.925	47.781	1.00	85.69	A16S	28775	O2P	GUA	477	138.429	90.038	56.477	1.00 88.51
ATOM	28723	C2	GUA	474	127.946	87.315	50.901	1.00	82.84	A16S	28776	O5	GUA	477	140.041	88.234	56.011	1.00 72.55
ATOM	28724	O2	GUA	474	127.155	87.433	52.066	1.00	82.84	A16S	28777	C5	GUA	477	141.005	87.260	56.400	1.00 72.55
ATOM	28725	C3	GUA	474	127.942	88.595	50.087	1.00	82.84	A16S	28778	C4	GUA	477	141.882	86.891	55.222	1.00 72.55
ATOM	28726	O3	GUA	474	128.075	89.733	50.921	1.00	82.84	A16S	28779	O4	GUA	477	141.082	86.229	54.204	1.00 72.55
ATOM	28727	P	GUA	475	129.540	90.197	51.393	1.00	69.48	A16S	28780	C1	GUA	477	141.464	86.686	52.921	1.00 72.55
ATOM	28728	O1P	GUA	475	129.374	91.448	52.173	1.00104.74		A16S	28781	N9	GUA	477	140.382	87.525	52.428	1.00 88.51
ATOM	28729	O2P	GUA	475	130.446	90.178	50.223	1.00104.74		A16S	28782	C4	GUA	477	140.106	87.840	51.122	1.00 88.51
ATOM	28730	O5	GUA	475	129.022	89.059	52.399	1.00	69.48	A16S	28783	N3	GUA	477	140.777	87.398	50.039	1.00 88.51
ATOM	28731	C5	GUA	475	129.511	89.002	53.727	1.00	69.48	A16S	28784	C2	GUA	477	140.279	87.891	48.917	1.00 88.51
ATOM	28732	C4	GUA	475	130.273	87.988	54.540	1.00	69.48	A16S	28785	N2	GUA	477	140.812	87.551	47.739	1.00 88.51
ATOM	28733	O4	GUA	475	130.071	86.666	53.978	1.00	69.48	A16S	28786	N1	GUA	477	139.217	88.754	48.867	1.00 88.51
ATOM	28734	C1	GUA	475	131.253	85.898	54.132	1.00	69.48	A16S	28787	C6	GUA	477	138.516	89.225	49.968	1.00 88.51
ATOM	28735	N9	GUA	475	131.770	85.583	52.808	1.00104.74		A16S	28788	O6	GUA	477	137.580	90.015	49.810	1.00 88.51
ATOM	28736	C4	GUA	475	132.814	84.738	52.527	1.00104.74		A16S	28789	C5	GUA	477	139.027	88.695	51.175	1.00 88.51
ATOM	28737	N3	GUA	475	133.522	84.031	53.427	1.00104.74		A16S	28790	N7	GUA	477	138.619	88.894	52.485	1.00 88.51
ATOM	28738	C2	GUA	475	134.472	83.315	52.853	1.00104.74		A16S	28791	C8	GUA	477	139.447	88.178	53.191	1.00 88.51
ATOM	28739	N2	GUA	475	135.268	82.539	53.600	1.00104.74		A16S	28792	C2	GUA	477	142.755	87.484	53.108	1.00 72.55
ATOM	28740	N1	GUA	475	134.712	83.304	51.506	1.00104.74		A16S	28793	O3	GUA	477	143.878	86.629	53.053	1.00 72.55
ATOM	28741	C6	GUA	475	133.998	84.029	50.561	1.00104.74		A16S	28794	C2	GUA	477	142.550	88.053	54.503	1.00 72.55
ATOM	28742	O6	GUA	475	134.307	83.954	49.367	1.00104.74		A16S	28795	O3	GUA	477	143.795	88.381	55.114	1.00 72.55
ATOM	28743	C5	GUA	475	132.968	84.791	51.161	1.00104.74		A16S	28796	P	URI	478	144.584	89.703	54.652	1.00 81.77
ATOM	28744	N7	GUA	475	132.028	85.638	50.592	1.00104.74		A16S	28797	O1P	URI	478	145.118	90.422	55.840	1.00 73.28

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ATOM	28798	O2P	URI	478	143.686	90.416	53.708	1.00	73.28	A16S	ATOM	28851	C6	ADE	480	146.678	91.064	45.337	1.00	85.43	A
ATOM	28799	O5'	URI	478	145.832	89.120	53.860	1.00	81.77	A16S	ATOM	28852	N6	ADE	480	145.731	91.671	46.051	1.00	85.43	A
ATOM	28800	C5'	URI	478	146.775	88.296	54.522	1.00	81.77	A16S	ATOM	28853	C5	ADE	480	147.879	90.573	45.884	1.00	85.43	A
ATOM	28801	C4'	URI	478	147.733	87.705	55.524	1.00	81.77	A16S	ATOM	28854	N7	ADE	480	148.395	90.587	47.173	1.00	85.43	A
ATOM	28802	O4'	URI	478	147.002	86.846	52.612	1.00	81.77	A16S	ATOM	28855	C8	ADE	480	149.544	89.969	47.060	1.00	85.43	A
ATOM	28803	C1'	URI	478	147.556	86.953	51.314	1.00	81.77	A16S	ATOM	28856	C2'	ADE	480	151.865	89.290	44.256	1.00	86.73	A
ATOM	28804	N1	URI	478	146.535	87.530	50.435	1.00	73.28	A16S	ATOM	28857	O2'	ADE	480	151.856	88.413	43.154	1.00	86.73	A
ATOM	28805	C6	URI	478	145.459	88.210	50.943	1.00	73.28	A16S	ATOM	28858	C3'	ADE	480	153.218	89.437	44.957	1.00	86.73	A
ATOM	28806	C2	URI	478	146.701	87.370	49.084	1.00	73.28	A16S	ATOM	28859	O3'	ADE	480	154.396	89.178	44.162	1.00	86.73	A
ATOM	28807	O2	URI	478	147.650	86.784	48.603	1.00	73.28	A16S	ATOM	28860	P	URI	481	154.642	87.733	43.443	1.00	70.50	A
ATOM	28808	N3	URI	478	145.719	87.924	48.314	1.00	73.28	A16S	ATOM	28861	O1P	URI	481	153.430	86.865	43.448	1.00	71.60	A
ATOM	28809	C4	URI	478	144.619	88.609	48.755	1.00	73.28	A16S	ATOM	28862	O2P	URI	481	155.918	87.189	43.973	1.00	71.60	A
ATOM	28810	O4	URI	478	143.778	88.955	47.946	1.00	73.28	A16S	ATOM	28863	O5'	URI	481	154.957	88.133	41.931	1.00	70.50	A
ATOM	28811	C5	URI	478	144.523	88.747	50.168	1.00	81.77	A16S	ATOM	28864	C5'	URI	481	154.091	87.746	40.870	1.00	70.50	A
ATOM	28812	C2'	URI	478	148.786	87.855	51.419	1.00	81.77	A16S	ATOM	28865	C4'	URI	481	154.898	87.244	39.697	1.00	70.50	A
ATOM	28813	O2'	URI	478	149.928	87.058	51.640	1.00	81.77	A16S	ATOM	28866	O4'	URI	481	154.000	86.589	38.770	1.00	70.50	A
ATOM	28814	C3'	URI	478	148.424	88.712	52.623	1.00	81.77	A16S	ATOM	28867	C1'	URI	481	154.474	86.769	37.453	1.00	70.50	A
ATOM	28815	O3'	URI	478	149.577	89.226	53.267	1.00	81.77	A16S	ATOM	28868	N1	URI	481	153.415	87.414	36.665	1.00	71.60	A
ATOM	28816	P	ADE	479	150.069	90.717	52.948	1.00	94.25	A16S	ATOM	28869	C6	URI	481	152.270	87.887	37.257	1.00	71.60	A
ATOM	28817	O1P	ADE	479	151.075	91.049	53.981	1.00	91.97	A16S	ATOM	28870	C2	URI	481	153.607	87.520	35.301	1.00	71.60	A
ATOM	28818	O2P	ADE	479	148.880	91.585	52.788	1.00	91.97	A16S	ATOM	28871	O2	URI	481	154.614	87.125	34.743	1.00	71.60	A
ATOM	28819	O5'	ADE	479	150.815	90.585	51.541	1.00	94.25	A16S	ATOM	28872	N3	URI	481	151.402	88.507	34.616	1.00	71.60	A
ATOM	28820	C5'	ADE	479	151.925	91.427	51.221	1.00	94.25	A16S	ATOM	28873	C4	URI	481	150.545	88.030	34.390	1.00	71.60	A
ATOM	28821	C4'	ADE	479	151.979	91.703	49.734	1.00	94.25	A16S	ATOM	28874	O4	URI	481	151.283	88.455	36.562	1.00	71.60	A
ATOM	28822	O4'	ADE	479	150.669	92.041	49.261	1.00	94.25	A16S	ATOM	28875	C5	URI	481	155.785	87.558	37.528	1.00	70.50	A
ATOM	28823	C1'	ADE	479	150.815	92.794	48.095	1.00	94.25	A16S	ATOM	28876	C2'	URI	481	156.866	86.649	37.516	1.00	70.50	A
ATOM	28824	N9	ADE	479	149.616	93.579	47.870	1.00	91.97	A16S	ATOM	28877	O2'	URI	481	155.642	88.280	38.862	1.00	70.50	A
ATOM	28825	C4	ADE	479	149.006	93.661	46.648	1.00	91.97	A16S	ATOM	28878	C3'	URI	481	156.927	88.561	39.415	1.00	70.50	A
ATOM	28826	N3	ADE	479	148.421	93.096	45.503	1.00	91.97	A16S	ATOM	28879	O3'	URI	481	157.795	89.802	38.864	1.00	67.07	A
ATOM	28827	C2	ADE	479	147.577	93.368	44.517	1.00	91.97	A16S	ATOM	28880	P	ADE	482	159.166	89.646	39.370	1.00	53.99	A
ATOM	28828	N1	ADE	479	147.060	94.641	45.712	1.00	91.97	A16S	ATOM	28881	O1P	ADE	482	157.083	89.072	39.105	1.00	53.99	A
ATOM	28829	C6	ADE	479	145.932	95.358	45.731	1.00	91.97	A16S	ATOM	28882	O2P	ADE	482	157.848	89.574	37.294	1.00	67.07	A
ATOM	28830	N6	ADE	479	147.878	94.426	46.839	1.00	91.97	A16S	ATOM	28883	O5'	ADE	482	158.925	88.868	36.683	1.00	67.07	A
ATOM	28831	C7	ADE	479	147.791	94.844	48.161	1.00	91.97	A16S	ATOM	28884	C5'	ADE	482	159.179	89.430	35.310	1.00	67.07	A
ATOM	28832	N5	ADE	479	148.851	94.318	48.727	1.00	91.97	A16S	ATOM	28885	C4'	ADE	482	157.960	89.359	34.552	1.00	67.07	A
ATOM	28833	C8	ADE	479	152.169	93.503	48.117	1.00	94.25	A16S	ATOM	28886	O4'	ADE	482	156.521	90.751	33.360	1.00	53.99	A
ATOM	28834	C2'	ADE	479	152.856	93.259	46.903	1.00	94.25	A16S	ATOM	28887	C1'	ADE	482	155.993	90.921	32.102	1.00	53.99	A
ATOM	28835	O2'	ADE	479	154.165	92.487	48.920	1.00	94.25	A16S	ATOM	28888	N9	ADE	482	154.485	91.223	29.937	1.00	53.99	A
ATOM	28836	C3'	ADE	479	154.592	90.925	48.911	1.00	86.73	A16S	ATOM	28889	C4	ADE	482	155.814	91.050	29.918	1.00	53.99	A
ATOM	28837	O3'	ADE	479	154.592	90.925	48.911	1.00	86.73	A16S	ATOM	28890	N3	ADE	482	154.485	91.223	29.937	1.00	53.99	A
ATOM	28838	P	ADE	480	154.592	90.925	48.911	1.00	86.73	A16S	ATOM	28891	C2	ADE	482	154.636	91.411	32.284	1.00	53.99	A
ATOM	28839	O1P	ADE	480	156.000	90.866	48.446	1.00	85.43	A16S	ATOM	28892	N1	ADE	482	155.526	91.252	31.129	1.00	53.99	A
ATOM	28840	O2P	ADE	480	153.689	90.231	47.791	1.00	86.73	A16S	ATOM	28893	C6	ADE	482	154.318	91.092	33.631	1.00	53.99	A
ATOM	28841	O5'	ADE	480	153.962	88.886	47.377	1.00	86.73	A16S	ATOM	28894	C5	ADE	482	155.472	90.890	34.226	1.00	53.99	A
ATOM	28842	C5'	ADE	480	153.962	88.886	47.377	1.00	86.73	A16S	ATOM	28895	N7	ADE	482	158.891	91.517	34.095	1.00	67.07	A
ATOM	28843	O4'	ADE	480	151.743	88.453	46.504	1.00	86.73	A16S	ATOM	28896	C8	ADE	482	159.808	90.819	33.088	1.00	67.07	A
ATOM	28844	C1'	ADE	480	149.814	89.533	45.790	1.00	85.43	A16S	ATOM	28897	O2'	ADE	482	159.551	90.898	35.324	1.00	67.07	A
ATOM	28845	N9	ADE	480	148.753	89.949	45.018	1.00	85.43	A16S	ATOM	28898	C3'	ADE	482	160.982	91.035	35.409	1.00	67.07	A
ATOM	28846	C4	ADE	480	148.581	89.771	43.700	1.00	85.43	A16S	ATOM	28899	O3'	ADE	482	161.966	90.486	34.228	1.00	53.13	A
ATOM	28847	N3	ADE	480	147.420	90.287	44.015	1.00	85.43	A16S	ATOM	28900	P	GUA	483	162.867	89.479	34.840	1.00	54.39	A
ATOM	28848	C2	ADE	480							ATOM	28901	O1P	GUA	483						
ATOM	28849	N1	ADE	480							ATOM	28902	C6	ADE	480						
ATOM	28850										ATOM	28903	N6	ADE	480						

ATOM	28904	O2P	GUA	483	162.560	91.648	33.522	1.00	54.39	Al6S	ATOM	28957	N2	GUA	485	162.837	99.418	22.157	1.00	60.04	f
ATOM	28905	O5'	GUA	483	161.036	89.693	33.210	1.00	53.13	Al6S	ATOM	28958	N1	GUA	485	163.529	98.325	24.046	1.00	60.04	f
ATOM	28906	C5'	GUA	483	161.590	88.695	32.360	1.00	53.13	Al6S	ATOM	28959	C6	GUA	485	163.921	97.240	24.825	1.00	60.04	f
ATOM	28907	C4'	GUA	483	160.800	88.592	31.082	1.00	53.13	Al6S	ATOM	28960	O6	GUA	485	164.245	97.411	26.011	1.00	60.04	f
ATOM	28908	O4'	GUA	483	159.670	89.502	31.127	1.00	53.13	Al6S	ATOM	28961	C5	GUA	485	163.900	96.039	24.082	1.00	60.04	f
ATOM	28909	C1'	GUA	483	159.447	90.046	29.906	1.00	54.39	Al6S	ATOM	28962	N7	GUA	485	164.197	94.740	24.470	1.00	60.04	f
ATOM	28910	N9	GUA	483	159.668	91.486	29.906	1.00	54.39	Al6S	ATOM	28963	C8	GUA	485	164.027	94.034	23.388	1.00	60.04	f
ATOM	28911	C4	GUA	483	159.105	92.451	29.108	1.00	54.39	Al6S	ATOM	28964	C2'	GUA	485	164.677	94.547	20.094	1.00	46.23	f
ATOM	28912	N3	GUA	483	158.259	92.237	28.083	1.00	54.39	Al6S	ATOM	28965	O2'	GUA	485	164.317	94.745	18.739	1.00	46.23	f
ATOM	28913	C2	GUA	483	157.892	93.370	27.506	1.00	54.39	Al6S	ATOM	28966	C3'	GUA	485	165.412	93.238	20.316	1.00	46.23	f
ATOM	28914	N2	GUA	483	157.050	93.348	26.464	1.00	54.39	Al6S	ATOM	28967	O3'	GUA	485	166.326	92.981	19.399	1.00	46.23	f
ATOM	28915	N1	GUA	483	158.318	94.609	27.910	1.00	54.39	Al6S	ATOM	28968	P	CYT	486	167.836	93.498	19.271	1.00	41.08	f
ATOM	28916	C6	GUA	483	159.177	94.849	28.973	1.00	54.39	Al6S	ATOM	28969	O1P	CYT	486	168.549	92.940	18.220	1.00	52.41	f
ATOM	28917	O6	GUA	483	159.471	96.007	29.279	1.00	54.39	Al6S	ATOM	28970	O2P	CYT	486	168.316	93.163	20.770	1.00	52.41	f
ATOM	28918	C5	GUA	483	159.591	93.647	29.584	1.00	54.39	Al6S	ATOM	28971	O5'	CYT	486	167.709	95.087	19.265	1.00	41.08	f
ATOM	28919	N7	GUA	483	160.461	93.437	30.641	1.00	54.39	Al6S	ATOM	28972	C5'	CYT	486	167.166	95.685	18.088	1.00	41.08	f
ATOM	28920	C8	GUA	483	160.479	92.143	30.790	1.00	54.39	Al6S	ATOM	28973	C4'	CYT	486	166.710	97.106	18.357	1.00	41.08	f
ATOM	28921	C2'	GUA	483	159.800	88.214	28.303	1.00	53.13	Al6S	ATOM	28974	O4'	CYT	486	165.767	97.095	19.457	1.00	41.08	f
ATOM	28922	O2'	GUA	483	161.557	88.991	29.826	1.00	53.13	Al6S	ATOM	28975	C1'	CYT	486	165.875	98.303	20.198	1.00	41.08	f
ATOM	28923	C3'	GUA	483	162.331	87.905	29.334	1.00	53.13	Al6S	ATOM	28976	N1	CYT	486	166.265	97.979	21.572	1.00	52.41	f
ATOM	28924	O3'	GUA	483	163.743	88.193	28.619	1.00	56.87	Al6S	ATOM	28977	C6	CYT	486	166.711	96.733	21.901	1.00	52.41	f
ATOM	28925	P	CYT	484	164.346	86.864	28.343	1.00	53.24	Al6S	ATOM	28978	C2	CYT	486	166.190	98.977	22.537	1.00	52.41	f
ATOM	28926	O1P	CYT	484	164.503	89.190	29.414	1.00	53.24	Al6S	ATOM	28979	O2	CYT	486	165.740	100.085	22.217	1.00	52.41	f
ATOM	28927	O2P	CYT	484	163.337	88.882	27.239	1.00	56.87	Al6S	ATOM	28980	N3	CYT	486	166.599	98.711	23.793	1.00	52.41	f
ATOM	28928	O5'	CYT	484	163.337	88.882	27.239	1.00	56.87	Al6S	ATOM	28981	C4	CYT	486	167.045	97.495	24.101	1.00	52.41	f
ATOM	28929	C5'	CYT	484	162.720	88.120	26.204	1.00	56.87	Al6S	ATOM	28982	N4	CYT	486	167.440	97.275	25.348	1.00	52.41	f
ATOM	28930	O4'	CYT	484	162.354	89.004	25.036	1.00	56.87	Al6S	ATOM	28983	C5	CYT	486	167.106	96.451	23.142	1.00	52.41	f
ATOM	28931	C4'	CYT	484	161.258	89.887	25.390	1.00	56.87	Al6S	ATOM	28984	O2'	CYT	486	166.937	99.161	19.518	1.00	41.08	f
ATOM	28932	C1'	CYT	484	161.401	91.115	24.699	1.00	56.87	Al6S	ATOM	28985	C2'	CYT	486	167.771	98.102	18.803	1.00	41.08	f
ATOM	28933	N1	CYT	484	161.598	92.174	25.694	1.00	53.24	Al6S	ATOM	28986	C3'	CYT	486	168.491	98.659	17.703	1.00	41.08	f
ATOM	28934	C6	CYT	484	162.192	91.899	26.892	1.00	53.24	Al6S	ATOM	28987	O3'	CYT	486	170.029	99.069	17.893	1.00	56.90	f
ATOM	28935	C2	CYT	484	161.183	93.477	25.394	1.00	53.24	Al6S	ATOM	28988	P	CYT	487	170.664	99.204	16.549	1.00	50.15	f
ATOM	28936	O2	CYT	484	160.613	93.694	24.313	1.00	53.24	Al6S	ATOM	28989	O1P	CYT	487	170.630	100.500	18.571	1.00	56.90	f
ATOM	28937	N3	CYT	484	161.404	94.462	26.293	1.00	53.24	Al6S	ATOM	28990	O2P	CYT	487	169.953	100.500	18.571	1.00	56.90	f
ATOM	28938	C4	CYT	484	161.998	95.184	27.451	1.00	53.24	Al6S	ATOM	28991	O5'	CYT	487	169.408	101.600	17.877	1.00	56.90	f
ATOM	28939	N4	CYT	484	162.206	95.184	28.300	1.00	53.24	Al6S	ATOM	28992	C5'	CYT	487	169.489	102.822	18.737	1.00	56.90	f
ATOM	28940	C5	CYT	484	162.408	92.865	27.790	1.00	53.24	Al6S	ATOM	28993	C4'	CYT	487	168.665	102.619	19.908	1.00	56.90	f
ATOM	28941	C2'	CYT	484	162.621	90.972	23.791	1.00	56.87	Al6S	ATOM	28994	O4'	CYT	487	169.253	103.265	21.018	1.00	56.90	f
ATOM	28942	O2'	CYT	484	162.220	90.452	22.547	1.00	56.87	Al6S	ATOM	28995	C1'	CYT	487	169.447	102.931	21.783	1.00	50.15	f
ATOM	28943	C3'	CYT	484	163.436	89.946	24.551	1.00	56.87	Al6S	ATOM	28996	N1	CYT	487	169.765	102.703	23.352	1.00	50.15	f
ATOM	28944	O3'	CYT	484	164.332	89.283	23.682	1.00	56.87	Al6S	ATOM	28997	C6	CYT	487	169.447	100.931	21.783	1.00	50.15	f
ATOM	28945	P	GUA	485	165.652	90.041	23.199	1.00	46.23	Al6S	ATOM	28998	C2	CYT	487	169.765	102.703	23.352	1.00	50.15	f
ATOM	28946	O1P	GUA	485	166.384	89.145	22.308	1.00	60.04	Al6S	ATOM	28999	O2	CYT	487	169.796	103.920	23.570	1.00	50.15	f
ATOM	28947	O2P	GUA	485	166.347	90.635	24.359	1.00	60.04	Al6S	ATOM	29000	N3	CYT	487	169.989	101.797	24.326	1.00	50.15	f
ATOM	28948	O5'	GUA	485	165.109	91.222	22.292	1.00	46.23	Al6S	ATOM	29001	C4	CYT	487	169.949	100.497	24.025	1.00	50.15	f
ATOM	28949	C5'	GUA	485	164.571	90.951	21.003	1.00	46.23	Al6S	ATOM	29002	N4	CYT	487	170.193	99.636	25.042	1.00	50.15	f
ATOM	28950	O4'	GUA	485	164.272	92.237	20.291	1.00	46.23	Al6S	ATOM	29003	C5	CYT	487	169.665	100.022	22.734	1.00	50.15	f
ATOM	28951	C4'	GUA	485	163.196	92.919	20.981	1.00	46.23	Al6S	ATOM	29004	C2'	CYT	487	170.517	103.953	20.511	1.00	56.90	f
ATOM	28952	C1'	GUA	485	163.427	94.322	20.946	1.00	46.23	Al6S	ATOM	29005	O2'	CYT	487	170.154	105.247	20.091	1.00	56.90	f
ATOM	28953	N9	GUA	485	163.646	94.788	22.309	1.00	60.04	Al6S	ATOM	29006	C3'	CYT	487	170.863	103.094	19.310	1.00	56.90	f
ATOM	28954	C4'	GUA	485	163.541	96.083	22.754	1.00	60.04	Al6S	ATOM	29007	O3'	CYT	487	171.628	103.833	18.368	1.00	56.90	f
ATOM	28955	N3	GUA	485	163.177	97.150	22.014	1.00	60.04	Al6S	ATOM	29008	P	GUA	488	173.154	103.419	18.073	1.00	60.91	f
ATOM	28956	C2	GUA	485	163.182	98.262	22.723	1.00	60.04	Al6S	ATOM	29009	O1P	GUA	488	173.956	103.889	19.231	1.00	51.01	f

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ATOM	29010	O2P	GUA	488	173.188	101.980	17.684	1.00	51.01	Al6S	ATOM	29063	C6	CYT	490	166.996	105.463	10.254	1.00	51.39	A
ATOM	29011	O5'	GUA	488	173.541	104.298	16.804	1.00	60.91	Al6S	ATOM	29064	C2	CYT	490	166.795	103.641	8.710	1.00	51.39	A
ATOM	29012	C5'	GUA	488	174.228	105.523	16.971	1.00	60.91	Al6S	ATOM	29065	O2	CYT	490	166.510	103.252	7.576	1.00	51.39	A
ATOM	29013	O4'	GUA	488	174.443	106.191	15.641	1.00	60.91	Al6S	ATOM	29066	N3	CYT	490	167.247	102.789	9.653	1.00	51.39	A
ATOM	29014	C4'	GUA	488	175.292	105.369	14.808	1.00	60.91	Al6S	ATOM	29067	C4	CYT	490	167.572	103.247	10.859	1.00	51.39	A
ATOM	29015	O1'	GUA	488	174.919	105.528	13.454	1.00	60.91	Al6S	ATOM	29068	N4	CYT	490	168.025	102.377	11.757	1.00	51.39	A
ATOM	29016	N9	GUA	488	174.559	104.215	12.932	1.00	51.01	Al6S	ATOM	29069	C5	CYT	490	167.452	104.627	11.199	1.00	51.39	A
ATOM	29017	C4	GUA	488	174.321	103.890	11.619	1.00	51.01	Al6S	ATOM	29070	C2'	CYT	490	164.589	106.060	8.080	1.00	52.44	A
ATOM	29018	N3	GUA	488	174.358	104.739	10.572	1.00	51.01	Al6S	ATOM	29071	O2'	CYT	490	164.121	106.263	6.764	1.00	52.44	A
ATOM	29019	C2	GUA	488	174.101	104.129	9.430	1.00	51.01	Al6S	ATOM	29072	C3'	CYT	490	164.448	107.296	8.962	1.00	52.44	A
ATOM	29020	N2	GUA	488	174.086	104.825	8.297	1.00	51.01	Al6S	ATOM	29073	O3'	CYT	490	163.207	107.970	8.761	1.00	52.44	A
ATOM	29021	N1	GUA	488	173.836	102.791	9.318	1.00	51.01	Al6S	ATOM	29074	P	CYT	491	162.106	108.031	9.939	1.00	60.19	A
ATOM	29022	C6	GUA	488	173.798	101.893	10.380	1.00	51.01	Al6S	ATOM	29075	O1P	CYT	491	161.249	106.830	9.840	1.00	47.25	A
ATOM	29023	O5	GUA	488	173.564	100.635	10.169	1.00	51.01	Al6S	ATOM	29076	O2P	CYT	491	161.500	109.379	9.889	1.00	47.25	A
ATOM	29024	C5	GUA	488	174.060	102.539	11.619	1.00	51.01	Al6S	ATOM	29077	O5'	CYT	491	162.920	107.928	11.305	1.00	60.19	A
ATOM	29025	N7	GUA	488	174.119	102.026	12.908	1.00	51.01	Al6S	ATOM	29078	C5'	CYT	491	162.356	108.338	12.568	1.00	60.19	A
ATOM	29026	C8	GUA	488	174.414	103.056	13.651	1.00	51.01	Al6S	ATOM	29079	C4'	CYT	491	163.087	107.624	13.674	1.00	60.19	A
ATOM	29027	C2'	GUA	488	173.789	106.556	13.420	1.00	60.91	Al6S	ATOM	29080	O4'	CYT	491	162.862	106.229	13.451	1.00	60.19	A
ATOM	29028	O2'	GUA	488	174.351	107.841	13.267	1.00	60.91	Al6S	ATOM	29081	C1'	CYT	491	164.056	105.527	13.598	1.00	60.19	A
ATOM	29029	C3'	GUA	488	173.198	106.392	14.807	1.00	60.91	Al6S	ATOM	29082	N1	CYT	491	164.073	104.468	12.609	1.00	47.25	A
ATOM	29030	O3'	GUA	488	172.561	107.585	15.218	1.00	60.91	Al6S	ATOM	29083	C6	CYT	491	163.646	104.691	11.333	1.00	47.25	A
ATOM	29031	P	GUA	489	170.979	107.745	15.023	1.00	45.59	Al6S	ATOM	29084	C2	CYT	491	164.513	103.222	12.997	1.00	47.25	A
ATOM	29032	O1P	GUA	489	170.605	109.006	15.726	1.00	52.97	Al6S	ATOM	29085	O2	CYT	491	164.906	103.071	14.163	1.00	47.25	A
ATOM	29033	O2P	GUA	489	170.341	106.457	15.420	1.00	52.97	Al6S	ATOM	29086	N3	CYT	491	164.503	102.212	12.109	1.00	47.25	A
ATOM	29034	O5'	GUA	489	170.805	107.992	13.455	1.00	45.59	Al6S	ATOM	29087	C4	CYT	491	164.078	102.428	10.866	1.00	47.25	A
ATOM	29035	C4'	GUA	489	171.189	109.233	12.876	1.00	45.59	Al6S	ATOM	29088	N4	CYT	491	164.085	101.403	10.015	1.00	47.25	A
ATOM	29036	O4'	GUA	489	170.946	109.213	11.391	1.00	45.59	Al6S	ATOM	29089	C5	CYT	491	163.628	103.705	10.437	1.00	47.25	A
ATOM	29037	C4'	GUA	489	171.790	108.213	10.780	1.00	45.59	Al6S	ATOM	29090	C2'	CYT	491	166.243	106.486	13.598	1.00	60.19	A
ATOM	29038	C1'	GUA	489	171.098	107.587	9.719	1.00	45.59	Al6S	ATOM	29091	O2	CYT	491	164.587	107.869	13.589	1.00	60.19	A
ATOM	29039	N9	GUA	489	170.945	106.177	10.062	1.00	52.97	Al6S	ATOM	29092	C3'	CYT	491	165.068	108.553	14.754	1.00	60.19	A
ATOM	29040	C4	GUA	489	170.695	105.148	9.184	1.00	52.97	Al6S	ATOM	29093	O3'	CYT	491	164.284	107.825	15.365	1.00	42.86	A
ATOM	29041	N3	GUA	489	170.502	105.273	7.855	1.00	52.97	Al6S	ATOM	29094	P	ADE	492	163.590	110.594	14.297	1.00	51.42	A
ATOM	29042	C2	GUA	489	170.326	104.108	7.275	1.00	52.97	Al6S	ATOM	29095	O1P	ADE	492	165.315	110.495	16.232	1.00	51.42	A
ATOM	29043	N2	GUA	489	170.107	104.054	5.959	1.00	52.97	Al6S	ATOM	29096	O2P	ADE	492	163.153	109.235	16.324	1.00	42.86	A
ATOM	29044	C6	GUA	489	170.348	102.912	7.940	1.00	52.97	Al6S	ATOM	29097	O5'	ADE	492	162.434	110.099	17.210	1.00	42.86	A
ATOM	29045	O6	GUA	489	170.544	102.760	9.304	1.00	52.97	Al6S	ATOM	29098	C5'	ADE	492	162.467	109.558	18.619	1.00	42.86	A
ATOM	29046	C5	GUA	489	170.561	101.632	9.799	1.00	52.97	Al6S	ATOM	29099	C4'	ADE	492	161.532	108.447	18.766	1.00	42.86	A
ATOM	29047	C5	GUA	489	170.717	104.004	9.946	1.00	52.97	Al6S	ATOM	29100	O4'	ADE	492	162.086	107.444	19.614	1.00	42.86	A
ATOM	29048	N7	GUA	489	170.932	104.307	11.284	1.00	52.97	Al6S	ATOM	29101	C1'	ADE	492	162.406	106.280	18.787	1.00	51.42	A
ATOM	29049	C8	GUA	489	171.054	105.607	11.306	1.00	52.97	Al6S	ATOM	29102	N9	ADE	492	162.320	104.948	19.129	1.00	51.42	A
ATOM	29050	C2'	GUA	489	169.768	108.319	9.557	1.00	45.59	Al6S	ATOM	29103	C4	ADE	492	161.872	104.424	20.280	1.00	51.42	A
ATOM	29051	O2'	GUA	489	169.900	109.371	8.629	1.00	45.59	Al6S	ATOM	29104	N3	ADE	492	161.967	103.096	20.259	1.00	51.42	A
ATOM	29052	C3'	GUA	489	168.549	108.812	10.975	1.00	45.59	Al6S	ATOM	29105	C2	ADE	492	162.419	102.293	19.293	1.00	51.42	A
ATOM	29053	O3'	GUA	489	168.645	109.895	11.037	1.00	45.59	Al6S	ATOM	29106	N1	ADE	492	162.856	102.850	18.147	1.00	51.42	A
ATOM	29054	P	CYT	490	167.193	109.653	11.659	1.00	52.44	Al6S	ATOM	29107	C6	ADE	492	163.303	102.051	17.177	1.00	51.42	A
ATOM	29055	O1P	CYT	490	166.510	110.967	11.647	1.00	51.39	Al6S	ATOM	29108	N6	ADE	492	162.813	104.249	18.043	1.00	51.42	A
ATOM	29056	O2P	CYT	490	167.342	108.899	12.939	1.00	52.44	Al6S	ATOM	29109	C5	ADE	492	163.178	105.118	17.024	1.00	51.42	A
ATOM	29057	O5'	CYT	490	166.478	108.716	10.590	1.00	52.44	Al6S	ATOM	29110	N7	ADE	492	162.907	106.304	17.509	1.00	51.42	A
ATOM	29058	C5'	CYT	490	166.072	109.248	9.335	1.00	52.44	Al6S	ATOM	29111	C8	ADE	492	163.377	108.036	20.175	1.00	42.86	A
ATOM	29059	C4'	CYT	490	165.582	108.151	8.430	1.00	52.44	Al6S	ATOM	29112	C2'	ADE	492	163.071	108.679	21.375	1.00	42.86	A
ATOM	29060	O4'	CYT	490	166.657	107.202	8.202	1.00	52.44	Al6S	ATOM	29113	O2'	ADE	492	163.785	108.939	19.016	1.00	42.86	A
ATOM	29061	C1'	CYT	490	166.111	105.913	7.997	1.00	52.44	Al6S	ATOM	29114	C3'	ADE	492	164.875	109.865	19.084	1.00	42.86	A
ATOM	29062	N1	CYT	490	166.653	105.002	9.018	1.00	51.39	Al6S	ATOM	29115	O3'	ADE	492						A

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ATOM	29116	P	ADE	493	165.231	110.605	20.444	1.00	51.48	Al6S	ATOM	29169	O2	URI	495	177.794	104.753	28.722	1.00	60.71
ATOM	29117	O1P	ADE	493	163.914	110.999	20.993	1.00	74.33	Al6S	ATOM	29170	N3	URI	495	177.207	103.834	26.751	1.00	60.71
ATOM	29118	O2P	ADE	493	166.244	111.647	20.159	1.00	74.33	Al6S	ATOM	29171	O4	URI	495	176.876	103.872	25.425	1.00	60.71
ATOM	29119	O5	ADE	493	165.902	109.500	21.364	1.00	51.48	Al6S	ATOM	29172	O4	URI	495	176.620	102.820	24.838	1.00	60.71
ATOM	29120	C5	ADE	493	165.852	109.628	22.778	1.00	51.48	Al6S	ATOM	29173	C5	URI	495	176.872	105.182	24.853	1.00	60.71
ATOM	29121	C4	ADE	493	166.400	108.391	23.417	1.00	51.48	Al6S	ATOM	29174	C2	URI	495	179.362	107.407	28.023	1.00	53.15
ATOM	29122	O4	ADE	493	165.692	107.239	22.893	1.00	51.48	Al6S	ATOM	29175	O2	URI	495	179.560	107.834	29.356	1.00	53.15
ATOM	29123	C1	ADE	493	166.603	106.184	22.660	1.00	51.48	Al6S	ATOM	29176	C3	URI	495	179.777	108.444	26.988	1.00	53.15
ATOM	29124	N9	ADE	493	166.570	105.868	21.234	1.00	74.33	Al6S	ATOM	29177	O3	URI	495	180.950	109.135	27.393	1.00	53.15
ATOM	29125	C4	ADE	493	166.254	104.648	20.697	1.00	74.33	Al6S	ATOM	29178	P	CYT	496	182.400	108.510	27.066	1.00	59.59
ATOM	29126	N3	ADE	493	165.934	103.529	21.363	1.00	74.33	Al6S	ATOM	29179	O2P	CYT	496	183.379	109.578	27.421	1.00	67.04
ATOM	29127	C2	ADE	493	165.685	102.539	20.517	1.00	74.33	Al6S	ATOM	29180	O2P	CYT	496	182.386	107.955	25.688	1.00	67.04
ATOM	29128	N1	ADE	493	165.712	102.541	19.183	1.00	74.33	Al6S	ATOM	29181	O5	CYT	496	182.554	107.290	28.086	1.00	59.59
ATOM	29129	C6	ADE	493	166.033	103.684	18.542	1.00	74.33	Al6S	ATOM	29182	C5	CYT	496	183.070	107.506	29.395	1.00	59.59
ATOM	29130	N6	ADE	493	166.050	103.684	17.206	1.00	74.33	Al6S	ATOM	29183	C4	CYT	496	183.353	106.191	30.072	1.00	59.59
ATOM	29131	C5	ADE	493	166.327	104.807	19.328	1.00	74.33	Al6S	ATOM	29184	O4	CYT	496	182.113	105.456	30.218	1.00	59.59
ATOM	29132	N7	ADE	493	166.693	106.104	19.004	1.00	74.33	Al6S	ATOM	29185	C1	CYT	496	182.363	104.067	30.069	1.00	59.59
ATOM	29133	C8	ADE	493	166.826	106.691	20.168	1.00	74.33	Al6S	ATOM	29186	N1	CYT	496	181.653	103.610	28.874	1.00	67.04
ATOM	29134	C2	ADE	493	167.967	106.635	23.192	1.00	51.48	Al6S	ATOM	29187	C6	CYT	496	181.298	104.496	27.898	1.00	67.04
ATOM	29135	O2	ADE	493	168.069	106.241	24.543	1.00	51.48	Al6S	ATOM	29188	C2	CYT	496	181.355	102.255	28.741	1.00	67.04
ATOM	29136	C3	ADE	493	167.857	108.148	23.084	1.00	51.48	Al6S	ATOM	29189	O2	CYT	496	181.689	101.474	29.645	1.00	67.04
ATOM	29137	O3	ADE	493	168.619	108.771	24.099	1.00	51.48	Al6S	ATOM	29190	N3	CYT	496	180.718	101.827	27.634	1.00	67.04
ATOM	29138	P	CYT	494	169.329	110.173	23.815	1.00	63.44	Al6S	ATOM	29191	C4	CYT	496	180.381	102.698	26.683	1.00	67.04
ATOM	29139	O1P	CYT	494	169.216	110.965	25.064	1.00	58.76	Al6S	ATOM	29192	N4	CYT	496	179.755	102.232	25.602	1.00	67.04
ATOM	29140	O2P	CYT	494	168.782	110.714	22.553	1.00	58.76	Al6S	ATOM	29193	C5	CYT	496	180.671	104.087	26.796	1.00	67.04
ATOM	29141	O5	CYT	494	170.832	109.730	23.566	1.00	63.44	Al6S	ATOM	29194	C2	CYT	496	183.875	103.890	29.915	1.00	59.59
ATOM	29142	C5	CYT	494	171.909	110.637	23.662	1.00	63.44	Al6S	ATOM	29195	O2	CYT	496	184.466	103.662	31.170	1.00	59.59
ATOM	29143	C4	CYT	494	172.993	110.014	24.492	1.00	63.44	Al6S	ATOM	29196	C3	CYT	496	184.276	105.234	29.331	1.00	59.59
ATOM	29144	O4	CYT	494	172.715	108.625	24.690	1.00	63.44	Al6S	ATOM	29197	O3	CYT	496	185.634	105.519	29.626	1.00	59.59
ATOM	29145	C1	CYT	494	173.911	108.003	25.053	1.00	63.44	Al6S	ATOM	29198	P	CYT	497	186.806	104.794	28.799	1.00	61.97
ATOM	29146	N1	CYT	494	173.836	106.570	24.785	1.00	58.76	Al6S	ATOM	29199	O1P	CYT	497	188.064	105.183	29.479	1.00	65.50
ATOM	29147	C6	CYT	494	173.682	106.074	23.527	1.00	58.76	Al6S	ATOM	29200	O2P	CYT	497	186.642	105.077	27.352	1.00	65.50
ATOM	29148	C2	CYT	494	173.907	105.714	25.876	1.00	58.76	Al6S	ATOM	29201	O5	CYT	497	186.573	103.239	29.061	1.00	61.97
ATOM	29149	O2	CYT	494	173.792	104.385	25.690	1.00	58.76	Al6S	ATOM	29202	C5	CYT	497	186.923	102.656	30.312	1.00	61.97
ATOM	29150	N3	CYT	494	173.614	103.905	24.466	1.00	58.76	Al6S	ATOM	29203	C4	CYT	497	186.679	101.164	30.292	1.00	61.97
ATOM	29151	C4	CYT	494	173.477	102.585	24.333	1.00	58.76	Al6S	ATOM	29204	O4	CYT	497	185.266	100.898	30.111	1.00	61.97
ATOM	29152	N4	CYT	494	175.084	108.811	24.495	1.00	63.44	Al6S	ATOM	29205	C1	CYT	497	184.442	100.084	28.078	1.00	65.50
ATOM	29153	C5	CYT	494	175.563	104.758	23.323	1.00	58.76	Al6S	ATOM	29206	N1	CYT	497	184.389	101.382	27.660	1.00	65.50
ATOM	29154	C2	CYT	494	175.912	109.095	25.587	1.00	63.44	Al6S	ATOM	29207	C6	CYT	497	183.877	99.076	27.312	1.00	65.50
ATOM	29155	O2	CYT	494	174.407	110.068	23.937	1.00	63.44	Al6S	ATOM	29208	C2	CYT	497	183.952	97.910	27.719	1.00	65.50
ATOM	29156	C3	CYT	494	176.568	111.535	24.363	1.00	53.15	Al6S	ATOM	29209	O2	CYT	497	183.267	99.390	26.149	1.00	65.50
ATOM	29157	O3	CYT	495	176.689	113.012	24.372	1.00	60.71	Al6S	ATOM	29210	N3	CYT	497	183.219	100.659	25.746	1.00	65.50
ATOM	29158	P	URI	495	177.091	110.751	23.199	1.00	60.71	Al6S	ATOM	29211	N4	CYT	497	182.611	100.927	24.590	1.00	65.50
ATOM	29159	O1P	URI	495	177.204	110.964	25.718	1.00	53.15	Al6S	ATOM	29212	C5	CYT	497	186.491	99.149	29.081	1.00	61.97
ATOM	29160	O2P	URI	495	178.434	110.316	25.701	1.00	53.15	Al6S	ATOM	29213	C2	CYT	497	186.842	98.220	30.079	1.00	61.97
ATOM	29161	O5	URI	495	178.578	109.376	26.958	1.00	53.15	Al6S	ATOM	29214	O3	CYT	497	187.336	100.405	29.155	1.00	61.97
ATOM	29162	C5	URI	495	177.453	108.471	27.094	1.00	53.15	Al6S	ATOM	29215	C3	CYT	497	188.667	100.061	29.459	1.00	66.38
ATOM	29163	O4	URI	495	177.863	107.288	27.756	1.00	53.15	Al6S	ATOM	29216	P	GUA	498	189.687	99.783	28.267	1.00	66.38
ATOM	29164	C1	URI	495	177.509	106.121	26.936	1.00	60.71	Al6S	ATOM	29217	O1P	GUA	498	189.379	100.775	27.201	1.00	65.82
ATOM	29165	N1	URI	495	177.183	104.236	25.611	1.00	60.71	Al6S	ATOM	29218	O2P	GUA	498	189.379	100.775	27.201	1.00	65.82
ATOM	29166	C6	URI	495	177.523	104.895	27.552	1.00	60.71	Al6S	ATOM	29219	O5	GUA	498	189.272	98.336	27.741	1.00	66.38
ATOM	29167	C2	URI	495																
ATOM	29168	C2	URI	495																

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ATOM	29222	C5' GUA	498	189.275	97.207	28.602	1.00	66.38	A16S	ATOM	29275	C6 GUA	500	190.856	100.013	20.265	1.00	70.02	A
ATOM	29223	C4' GUA	498	188.627	96.026	27.915	1.00	66.38	A16S	ATOM	29276	O6 GUA	500	190.857	100.467	21.413	1.00	70.02	A
ATOM	29224	O4' GUA	498	187.224	96.323	27.683	1.00	66.38	A16S	ATOM	29277	C5 GUA	500	191.451	98.819	19.780	1.00	70.02	A
ATOM	29225	C1' GUA	498	186.810	95.752	26.449	1.00	66.38	A16S	ATOM	29278	N7 GUA	500	192.186	97.843	20.439	1.00	70.02	A
ATOM	29226	N9 GUA	498	186.501	96.834	25.519	1.00	65.82	A16S	ATOM	29279	C8 GUA	500	192.473	96.972	19.509	1.00	70.02	A
ATOM	29227	C4 GUA	498	185.824	96.719	24.328	1.00	65.82	A16S	ATOM	29280	C2' GUA	500	193.380	96.182	16.442	1.00	67.97	A
ATOM	29228	N3 GUA	498	185.325	95.580	23.807	1.00	65.82	A16S	ATOM	29281	O2' GUA	500	193.641	96.900	15.262	1.00	67.97	A
ATOM	29229	C2 GUA	498	184.741	95.789	22.645	1.00	65.82	A16S	ATOM	29282	C3' GUA	500	193.317	94.654	16.329	1.00	67.97	A
ATOM	29230	N2 GUA	498	184.214	94.766	21.981	1.00	65.82	A16S	ATOM	29283	O3' GUA	500	193.656	94.062	15.052	1.00	67.97	A
ATOM	29231	N1 GUA	498	184.637	97.016	22.046	1.00	65.82	A16S	ATOM	29284	P CYT	501	193.257	94.808	13.667	1.00	66.92	A
ATOM	29232	C6 GUA	498	185.139	98.203	22.566	1.00	65.82	A16S	ATOM	29285	O1P CYT	501	194.482	95.182	12.925	1.00	67.95	A
ATOM	29233	O6 GUA	498	184.995	99.262	21.945	1.00	65.82	A16S	ATOM	29286	O2P CYT	501	192.251	95.844	13.967	1.00	67.95	A
ATOM	29234	C5 GUA	498	185.781	97.994	23.808	1.00	65.82	A16S	ATOM	29287	O5' CYT	501	192.438	93.743	12.808	1.00	66.92	A
ATOM	29235	N7 GUA	498	186.423	98.892	24.649	1.00	65.82	A16S	ATOM	29288	C5' CYT	501	191.088	94.054	12.435	1.00	66.92	A
ATOM	29236	C8 GUA	498	186.830	98.162	25.950	1.00	65.82	A16S	ATOM	29289	C4' CYT	501	190.815	93.763	10.968	1.00	66.92	A
ATOM	29237	C2' GUA	498	187.980	94.915	25.947	1.00	66.38	A16S	ATOM	29290	O4' CYT	501	189.714	94.611	10.561	1.00	66.92	A
ATOM	29238	O2' GUA	498	187.897	93.617	26.492	1.00	66.38	A16S	ATOM	29291	C1' CYT	501	189.827	94.920	9.190	1.00	66.92	A
ATOM	29239	C3' GUA	498	189.149	95.686	26.528	1.00	66.38	A16S	ATOM	29292	N1 CYT	501	189.407	96.316	8.974	1.00	67.95	A
ATOM	29240	O3' GUA	498	190.309	94.871	26.560	1.00	66.38	A16S	ATOM	29293	C6 CYT	501	189.358	97.199	10.015	1.00	67.95	A
ATOM	29241	P	499	191.475	95.122	25.486	1.00	77.16	A16S	ATOM	29294	C2 CYT	501	189.030	96.725	7.683	1.00	67.95	A
ATOM	29242	O1P URI	499	192.577	94.174	25.771	1.00	76.36	A16S	ATOM	29295	O2 CYT	501	189.116	95.917	6.741	1.00	67.95	A
ATOM	29243	O2P URI	499	191.744	96.580	25.457	1.00	76.36	A16S	ATOM	29296	N3 CYT	501	188.589	97.991	7.495	1.00	67.95	A
ATOM	29244	O5' URI	499	190.822	94.728	24.090	1.00	77.16	A16S	ATOM	29297	C4 CYT	501	188.537	98.837	8.524	1.00	67.95	A
ATOM	29245	C5' URI	499	190.259	93.436	23.873	1.00	77.16	A16S	ATOM	29298	N4 CYT	501	188.100	100.071	8.295	1.00	67.95	A
ATOM	29246	C4' URI	499	189.491	93.414	22.567	1.00	77.16	A16S	ATOM	29299	C5 CYT	501	188.933	98.456	9.835	1.00	67.95	A
ATOM	29247	O4' URI	499	188.402	94.373	22.625	1.00	77.16	A16S	ATOM	29300	C2' CYT	501	191.219	94.519	8.700	1.00	66.92	A
ATOM	29248	C1' URI	499	188.142	94.876	21.326	1.00	77.16	A16S	ATOM	29301	O2' CYT	501	191.112	93.498	7.737	1.00	66.92	A
ATOM	29249	N1 URI	499	188.116	96.349	21.384	1.00	76.36	A16S	ATOM	29302	C3' CYT	501	192.729	92.908	9.785	1.00	66.92	A
ATOM	29250	C6 URI	499	188.635	97.031	22.458	1.00	76.36	A16S	ATOM	29303	O3' CYT	501	191.926	92.908	9.785	1.00	66.92	A
ATOM	29251	C2 URI	499	187.535	97.031	20.327	1.00	76.36	A16S	ATOM	29304	P	502	192.025	91.473	9.496	1.00	53.40	A
ATOM	29252	O2 URI	499	187.088	96.468	19.340	1.00	76.36	A16S	ATOM	29305	O1P CYT	502	193.007	90.625	8.775	1.00	57.24	A
ATOM	29253	N3 URI	499	187.501	98.399	20.467	1.00	76.36	A16S	ATOM	29306	O2P CYT	502	190.665	91.623	8.946	1.00	57.24	A
ATOM	29254	C4 URI	499	187.988	99.140	21.525	1.00	76.36	A16S	ATOM	29307	O5' CYT	502	191.852	90.856	10.948	1.00	53.40	A
ATOM	29255	O4 URI	499	187.826	100.370	21.539	1.00	76.36	A16S	ATOM	29308	C5' CYT	502	190.705	90.104	11.282	1.00	53.40	A
ATOM	29256	C5 URI	499	188.595	98.364	22.559	1.00	76.36	A16S	ATOM	29309	C4' CYT	502	190.718	89.781	12.748	1.00	53.40	A
ATOM	29257	C2' URI	499	188.164	94.246	20.371	1.00	77.16	A16S	ATOM	29310	O4' CYT	502	190.738	90.998	13.516	1.00	53.40	A
ATOM	29258	O2' URI	499	188.574	93.128	19.738	1.00	77.16	A16S	ATOM	29311	C1' CYT	502	190.202	90.730	14.794	1.00	53.40	A
ATOM	29259	C3' URI	499	190.274	93.822	21.329	1.00	77.16	A16S	ATOM	29312	N1 CYT	502	189.449	91.895	15.270	1.00	57.24	A
ATOM	29260	O3' URI	499	190.993	92.700	20.820	1.00	77.16	A16S	ATOM	29313	C6 CYT	502	189.086	91.934	14.436	1.00	57.24	A
ATOM	29261	P	500	192.518	92.877	20.332	1.00	67.97	A16S	ATOM	29314	C2 CYT	502	189.135	92.931	14.436	1.00	57.24	A
ATOM	29262	O1P GUA	500	193.036	91.519	20.016	1.00	70.02	A16S	ATOM	29315	O2 CYT	502	189.358	91.934	16.600	1.00	57.24	A
ATOM	29263	O2P GUA	500	193.224	93.726	21.328	1.00	70.02	A16S	ATOM	29316	N3 CYT	502	188.450	93.024	17.082	1.00	57.24	A
ATOM	29264	O5' GUA	500	192.432	93.722	18.978	1.00	67.97	A16S	ATOM	29317	C4 CYT	502	188.166	94.044	16.270	1.00	57.24	A
ATOM	29265	C5' GUA	500	191.852	93.193	17.773	1.00	67.97	A16S	ATOM	29318	N4 CYT	502	187.548	95.111	16.789	1.00	57.24	A
ATOM	29266	C4' GUA	500	191.897	94.250	16.697	1.00	67.97	A16S	ATOM	29319	C5 CYT	502	188.505	94.018	16.789	1.00	57.24	A
ATOM	29267	O4' GUA	500	191.222	95.410	17.206	1.00	67.97	A16S	ATOM	29320	C2' CYT	502	188.548	94.018	16.789	1.00	57.24	A
ATOM	29268	C1' GUA	500	192.018	96.551	17.039	1.00	67.97	A16S	ATOM	29321	O2' CYT	502	189.449	89.401	14.737	1.00	53.40	A
ATOM	29269	N9 GUA	500	191.959	97.310	18.282	1.00	70.02	A16S	ATOM	29322	C3' CYT	502	190.134	88.461	15.523	1.00	53.40	A
ATOM	29270	C4 GUA	500	191.314	98.508	18.448	1.00	70.02	A16S	ATOM	29323	O3' CYT	502	189.487	89.064	13.249	1.00	53.40	A
ATOM	29271	N3 GUA	500	190.670	99.192	17.485	1.00	70.02	A16S	ATOM	29324	P ADE	503	188.453	86.738	12.787	1.00	52.15	A
ATOM	29272	C2 GUA	500	190.123	100.299	17.948	1.00	70.02	A16S	ATOM	29325	O1P ADE	503	188.937	85.326	12.780	1.00	62.90	A
ATOM	29273	N2 GUA	500	189.440	101.099	17.118	1.00	70.02	A16S	ATOM	29326	O2P ADE	503	187.744	87.288	11.599	1.00	62.90	A
ATOM	29274	N1 GUA	500	190.202	100.702	19.255	1.00	70.02	A16S	ATOM	29327	O5' ADE	503	187.542	86.950	14.074	1.00	52.15	A

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ATOM	29328	C5' ADE	503	187.840	86.282	15.292	1.00	52.15	A16S	ATOM	29381	N3	CYT	505	179.003	94.411	9.940	1.00	44.23
ATOM	29329	C4' ADE	503	187.012	86.854	16.420	1.00	52.15	A16S	ATOM	29382	C4	CYT	505	179.525	93.237	9.590	1.00	44.23
ATOM	29330	O4' ADE	503	187.336	88.262	16.600	1.00	52.15	A16S	ATOM	29383	N4	CYT	505	180.191	93.175	8.439	1.00	44.23
ATOM	29331	C1' ADE	503	186.180	88.969	17.025	1.00	52.15	A16S	ATOM	29384	C5	CYT	505	179.376	92.077	10.400	1.00	44.23
ATOM	29332	N9 ADE	503	185.939	90.073	16.086	1.00	62.90	A16S	ATOM	29385	C2' CYT	505	175.842	93.377	12.943	1.00	49.55	
ATOM	29333	C4 ADE	503	185.459	91.325	16.397	1.00	62.90	A16S	ATOM	29386	O2' CYT	505	175.156	94.325	13.736	1.00	49.55	
ATOM	29334	N3 ADE	503	185.093	91.781	17.604	1.00	62.90	A16S	ATOM	29387	C3' CYT	505	175.639	91.950	13.429	1.00	49.55	
ATOM	29335	C2 ADE	503	184.712	93.051	17.530	1.00	62.90	A16S	ATOM	29388	O3' CYT	505	174.320	91.772	13.921	1.00	49.55	
ATOM	29336	N1 ADE	503	184.657	93.861	16.470	1.00	62.90	A16S	ATOM	29389	P	ADE	506	173.190	91.174	12.957	1.00	48.96
ATOM	29337	C6 ADE	503	185.026	93.375	15.267	1.00	62.90	A16S	ATOM	29390	O1P ADE	506	171.878	91.447	13.601	1.00	55.71	
ATOM	29338	N6 ADE	503	184.972	94.190	14.207	1.00	62.90	A16S	ATOM	29391	O2P ADE	506	173.569	89.781	12.614	1.00	55.71	
ATOM	29339	C5 ADE	503	185.451	92.033	15.209	1.00	62.90	A16S	ATOM	29392	O5' ADE	506	173.293	92.084	11.659	1.00	48.96	
ATOM	29340	N7 ADE	503	185.894	91.240	14.162	1.00	62.90	A16S	ATOM	29393	C5' ADE	506	172.846	93.428	11.659	1.00	48.96	
ATOM	29341	C8 ADE	503	186.165	90.089	14.731	1.00	62.90	A16S	ATOM	29394	C4' ADE	506	172.901	94.026	10.321	1.00	48.96	
ATOM	29342	C2' ADE	503	185.054	87.942	17.156	1.00	52.15	A16S	ATOM	29395	O4' ADE	506	174.271	94.286	9.939	1.00	48.96	
ATOM	29343	O2' ADE	503	185.046	87.441	18.471	1.00	52.15	A16S	ATOM	29396	C1' ADE	506	174.446	93.996	8.566	1.00	48.96	
ATOM	29344	C3' ADE	503	185.514	86.861	16.192	1.00	52.15	A16S	ATOM	29397	N9 ADE	506	175.379	92.872	8.469	1.00	55.71	
ATOM	29345	O3' ADE	503	184.926	85.595	16.472	1.00	52.15	A16S	ATOM	29398	C4 ADE	506	176.393	92.701	7.558	1.00	55.71	
ATOM	29346	P	504	183.719	85.079	15.544	1.00	58.64	A16S	ATOM	29399	N3 ADE	506	176.766	93.548	6.584	1.00	55.71	
ATOM	29347	O1P GUA	504	183.276	83.715	15.951	1.00	47.37	A16S	ATOM	29400	C2 ADE	506	177.775	93.033	5.881	1.00	55.71	
ATOM	29348	O2P GUA	504	184.120	85.331	14.136	1.00	47.37	A16S	ATOM	29401	N1 ADE	506	178.397	91.846	6.024	1.00	55.71	
ATOM	29349	O5' GUA	504	182.547	86.097	15.888	1.00	58.64	A16S	ATOM	29402	C6 ADE	506	177.982	91.018	7.004	1.00	55.71	
ATOM	29350	C5' GUA	504	181.842	86.767	14.852	1.00	58.64	A16S	ATOM	29403	N6 ADE	506	178.563	89.825	7.121	1.00	55.71	
ATOM	29351	C4' GUA	504	181.419	88.136	15.315	1.00	58.64	A16S	ATOM	29404	C5 ADE	506	176.943	91.460	7.834	1.00	55.71	
ATOM	29352	O4' GUA	504	182.515	89.078	15.147	1.00	58.64	A16S	ATOM	29405	N7 ADE	506	176.314	90.878	8.922	1.00	55.71	
ATOM	29353	C1' GUA	504	181.989	90.375	14.890	1.00	58.64	A16S	ATOM	29406	C8 ADE	506	175.401	91.754	9.263	1.00	55.71	
ATOM	29354	N9 GUA	504	182.254	92.087	13.056	1.00	47.37	A16S	ATOM	29407	O2' ADE	506	173.047	93.695	8.010	1.00	48.96	
ATOM	29355	C4 GUA	504	181.585	93.094	13.655	1.00	47.37	A16S	ATOM	29408	C2' ADE	506	172.428	94.900	7.630	1.00	48.96	
ATOM	29356	N3 GUA	504	180.532	94.172	12.897	1.00	47.37	A16S	ATOM	29409	C3' ADE	506	172.359	93.131	9.235	1.00	48.96	
ATOM	29357	C2 GUA	504	180.896	95.264	13.334	1.00	47.37	A16S	ATOM	29410	O3' ADE	506	170.967	93.329	9.192	1.00	48.96	
ATOM	29358	N2 GUA	504	182.101	94.263	11.654	1.00	47.37	A16S	ATOM	29411	P	507	168.751	92.176	9.445	1.00	50.72	
ATOM	29359	N1 GUA	504	182.818	93.252	11.025	1.00	47.37	A16S	ATOM	29412	O1P GUA	507	170.806	91.044	8.174	1.00	47.72	
ATOM	29360	C6 GUA	504	183.337	93.466	9.915	1.00	47.37	A16S	ATOM	29413	O2P GUA	507	169.750	93.003	7.064	1.00	50.72	
ATOM	29361	O6 GUA	504	182.860	92.070	11.822	1.00	47.37	A16S	ATOM	29414	O5' GUA	507	168.826	92.470	6.142	1.00	50.72	
ATOM	29362	C5 GUA	504	183.444	90.836	11.576	1.00	47.37	A16S	ATOM	29415	C5' GUA	507	167.233	94.249	6.441	1.00	50.72	
ATOM	29363	N7 GUA	504	183.191	90.140	12.652	1.00	47.37	A16S	ATOM	29416	C4' GUA	507	167.147	95.622	6.122	1.00	50.72	
ATOM	29364	C8 GUA	504	180.469	90.227	14.895	1.00	58.64	A16S	ATOM	29417	O4' GUA	507	167.577	96.364	7.293	1.00	47.72	
ATOM	29365	C2' GUA	504	179.957	90.463	16.191	1.00	58.64	A16S	ATOM	29418	C1' GUA	507	167.480	97.709	7.488	1.00	47.72	
ATOM	29366	O2' GUA	504	180.331	88.774	14.485	1.00	58.64	A16S	ATOM	29419	N9 GUA	507	167.012	99.814	7.087	1.00	47.72	
ATOM	29367	C3' GUA	504	179.067	88.233	14.817	1.00	58.64	A16S	ATOM	29420	C4 GUA	507	167.881	99.224	9.293	1.00	47.72	
ATOM	29368	O3' GUA	504	176.760	87.437	12.400	1.00	44.23	A16S	ATOM	29421	N3 GUA	507	168.168	99.602	8.353	1.00	47.72	
ATOM	29369	P	505	177.893	88.251	13.727	1.00	49.55	A16S	ATOM	29422	C2 GUA	507	167.418	100.132	8.353	1.00	47.72	
ATOM	29370	O1P CYT	505	176.464	89.781	13.700	1.00	49.55	A16S	ATOM	29423	N2 GUA	507	167.995	95.863	4.874	1.00	47.72	
ATOM	29371	O2P CYT	505	178.472	87.935	12.400	1.00	44.23	A16S	ATOM	29424	C6 GUA	507	167.151	95.806	3.745	1.00	47.72	
ATOM	29372	O5' CYT	505	177.464	89.781	13.700	1.00	49.55	A16S	ATOM	29425	O6 GUA	507	168.168	99.602	8.353	1.00	47.72	
ATOM	29373	C5' CYT	505	177.085	90.451	14.892	1.00	49.55	A16S	ATOM	29426	C6 GUA	507	167.923	97.926	8.353	1.00	47.72	
ATOM	29374	C4' CYT	505	176.648	91.849	14.080	1.00	49.55	A16S	ATOM	29427	C5 GUA	507	167.881	99.224	9.293	1.00	47.72	
ATOM	29375	O4' CYT	505	177.786	92.538	14.563	1.00	49.55	A16S	ATOM	29428	N7 GUA	507	168.340	96.742	8.436	1.00	47.72	
ATOM	29376	C1' CYT	505	177.348	93.555	13.134	1.00	49.55	A16S	ATOM	29429	C8 GUA	507	168.120	95.843	9.353	1.00	47.72	
ATOM	29377	N1 CYT	505	178.122	93.401	11.895	1.00	44.23	A16S	ATOM	29430	C2' GUA	507	167.995	95.863	4.874	1.00	50.72	
ATOM	29378	C6 CYT	505	178.670	92.201	11.534	1.00	44.23	A16S	ATOM	29431	O2' GUA	507	167.151	95.806	3.745	1.00	50.72	
ATOM	29379	C2 CYT	505	178.292	94.521	11.088	1.00	44.23	A16S	ATOM	29432	C3' GUA	507	169.960	94.689	4.936	1.00	50.72	
ATOM	29380	O2 CYT	505	177.784	95.539	11.447	1.00	44.23	A16S	ATOM	29433	O3' GUA	507	168.919	94.309	3.656	1.00	50.72	

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ATOM	29434	P	CYT	508	170.972	94.449	3.301	1.00	51.06	Al6S	ATOM	29487	N1	GUA	510	178.755	96.646	8.285	1.00	46.82	A
ATOM	29435	OlP	CYT	508	171.238	93.514	2.176	1.00	50.96	Al6S	ATOM	29488	C6	GUA	510	179.170	96.457	6.971	1.00	46.82	A
ATOM	29436	O2P	CYT	508	171.783	94.352	4.549	1.00	50.96	Al6S	ATOM	29489	O6	GUA	510	179.701	95.388	6.652	1.00	46.82	A
ATOM	29437	O5'	CYT	508	171.080	95.931	2.735	1.00	51.06	Al6S	ATOM	29490	C5	GUA	510	178.899	97.611	6.164	1.00	46.82	A
ATOM	29438	C5'	CYT	508	170.403	96.299	1.543	1.00	51.06	Al6S	ATOM	29491	N7	GUA	510	179.156	97.868	4.821	1.00	46.82	A
ATOM	29439	C4'	CYT	508	170.258	97.790	1.480	1.00	51.06	Al6S	ATOM	29492	C8	GUA	510	178.714	99.086	4.637	1.00	46.82	A
ATOM	29440	O4'	CYT	508	169.417	98.215	2.572	1.00	51.06	Al6S	ATOM	29493	C2'	GUA	510	178.706	101.780	6.828	1.00	51.75	A
ATOM	29441	C1'	CYT	508	169.825	99.495	3.008	1.00	51.06	Al6S	ATOM	29494	O2'	GUA	510	178.003	102.805	7.488	1.00	51.75	A
ATOM	29442	N1	CYT	508	170.088	99.422	4.445	1.00	50.96	Al6S	ATOM	29495	C3'	GUA	510	179.567	102.390	5.743	1.00	51.75	A
ATOM	29443	C6	CYT	508	170.405	98.238	5.035	1.00	50.96	Al6S	ATOM	29496	O3'	GUA	510	180.262	103.515	6.264	1.00	51.75	A
ATOM	29444	C2	CYT	508	170.003	100.593	5.202	1.00	50.96	Al6S	ATOM	29497	P	CYT	511	181.788	103.367	6.749	1.00	44.03	A
ATOM	29445	O2	CYT	508	169.729	101.666	4.629	1.00	50.96	Al6S	ATOM	29498	OlP	CYT	511	182.283	104.742	7.002	1.00	49.68	A
ATOM	29446	N3	CYT	508	170.227	100.532	6.532	1.00	50.96	Al6S	ATOM	29499	O2P	CYT	511	182.501	102.500	5.779	1.00	49.68	A
ATOM	29447	C4	CYT	508	170.545	99.367	7.100	1.00	50.96	Al6S	ATOM	29500	O5'	CYT	511	181.695	102.588	8.134	1.00	44.03	A
ATOM	29448	N4	CYT	508	170.781	99.356	8.413	1.00	50.96	Al6S	ATOM	29501	C5'	CYT	511	180.984	103.138	9.214	1.00	44.03	A
ATOM	29449	C5	CYT	508	170.642	98.165	6.346	1.00	50.96	Al6S	ATOM	29502	C4'	CYT	511	180.854	102.139	10.327	1.00	44.03	A
ATOM	29450	C2'	CYT	508	171.048	99.900	2.186	1.00	51.06	Al6S	ATOM	29503	O4'	CYT	511	180.176	100.946	9.856	1.00	44.03	A
ATOM	29451	O2'	CYT	508	170.675	100.731	1.109	1.00	51.06	Al6S	ATOM	29504	C1'	CYT	511	180.460	99.879	10.755	1.00	44.03	A
ATOM	29452	C3'	CYT	508	172.259	98.695	0.499	1.00	51.06	Al6S	ATOM	29505	N1	CYT	511	181.063	97.508	10.651	1.00	49.68	A
ATOM	29453	O3'	CYT	508	173.833	98.473	0.506	1.00	42.82	Al6S	ATOM	29506	C6	CYT	511	181.450	98.886	8.725	1.00	49.68	A
ATOM	29454	P	CYT	509	173.833	98.473	0.506	1.00	42.82	Al6S	ATOM	29507	C2	CYT	511	181.063	97.508	10.651	1.00	49.68	A
ATOM	29455	OlP	CYT	509	174.305	98.269	-0.879	1.00	40.63	Al6S	ATOM	29508	O2	CYT	511	180.615	97.411	11.798	1.00	49.68	A
ATOM	29456	O2P	CYT	509	174.088	97.429	1.531	1.00	40.63	Al6S	ATOM	29509	N3	CYT	511	182.073	96.455	10.007	1.00	49.68	A
ATOM	29457	O5'	CYT	509	174.391	99.855	0.245	1.00	42.82	Al6S	ATOM	29510	C4	CYT	511	182.607	95.544	8.172	1.00	49.68	A
ATOM	29458	C5'	CYT	509	174.351	101.024	0.245	1.00	42.82	Al6S	ATOM	29511	N4	CYT	511	182.637	95.544	8.172	1.00	49.68	A
ATOM	29459	O4'	CYT	509	174.536	102.248	1.115	1.00	42.82	Al6S	ATOM	29512	C5	CYT	511	181.991	97.852	8.068	1.00	49.68	A
ATOM	29460	C4'	CYT	509	173.508	102.237	2.143	1.00	42.82	Al6S	ATOM	29513	C2'	CYT	511	180.862	100.902	12.892	1.00	44.03	A
ATOM	29461	C1'	CYT	509	173.967	102.017	4.423	1.00	40.63	Al6S	ATOM	29514	O2'	CYT	511	182.111	101.528	10.912	1.00	44.03	A
ATOM	29462	N1	CYT	509	173.900	102.668	4.253	1.00	40.63	Al6S	ATOM	29515	C3'	CYT	511	182.838	102.421	11.732	1.00	44.03	A
ATOM	29463	C6	CYT	509	173.900	102.567	5.703	1.00	40.63	Al6S	ATOM	29516	O3'	CYT	511	184.435	102.483	11.589	1.00	49.29	A
ATOM	29464	O2	CYT	509	173.801	103.798	5.816	1.00	40.63	Al6S	ATOM	29517	P	GUA	512	184.730	103.570	12.488	1.00	59.65	A
ATOM	29465	C2	CYT	509	173.932	101.755	6.777	1.00	40.63	Al6S	ATOM	29518	OlP	GUA	512	184.914	101.067	12.151	1.00	49.29	A
ATOM	29466	N3	CYT	509	174.000	100.434	6.604	1.00	40.63	Al6S	ATOM	29519	O2P	GUA	512	184.783	100.764	13.538	1.00	49.29	A
ATOM	29467	C4	CYT	509	174.022	99.664	7.691	1.00	40.63	Al6S	ATOM	29520	O5'	GUA	512	185.492	99.472	13.891	1.00	49.29	A
ATOM	29468	N4	CYT	509	174.047	99.844	5.307	1.00	40.63	Al6S	ATOM	29521	C5'	GUA	512	185.636	97.294	13.391	1.00	49.29	A
ATOM	29469	C5	CYT	509	175.405	103.372	2.971	1.00	42.82	Al6S	ATOM	29522	C4'	GUA	512	185.785	95.912	10.923	1.00	59.65	A
ATOM	29470	C2'	CYT	509	175.382	104.664	1.943	1.00	42.82	Al6S	ATOM	29523	O4'	GUA	512	185.531	97.078	11.605	1.00	59.65	A
ATOM	29471	O2'	CYT	509	175.813	102.338	1.203	1.00	42.82	Al6S	ATOM	29524	C1'	GUA	512	185.785	95.912	11.472	1.00	59.65	A
ATOM	29472	C3'	CYT	509	176.909	102.854	1.203	1.00	42.82	Al6S	ATOM	29525	N9	GUA	512	186.105	94.720	11.472	1.00	59.65	A
ATOM	29473	O3'	CYT	509	178.288	102.030	1.136	1.00	51.75	Al6S	ATOM	29526	C4	GUA	512	186.351	93.801	10.554	1.00	59.65	A
ATOM	29474	P	GUA	510	179.188	102.860	0.309	1.00	46.82	Al6S	ATOM	29527	N3	GUA	512	186.666	92.555	10.933	1.00	59.65	A
ATOM	29475	OlP	GUA	510	178.868	102.611	0.766	1.00	46.82	Al6S	ATOM	29528	C2	GUA	512	186.302	94.040	9.199	1.00	59.65	A
ATOM	29476	O2P	GUA	510	178.868	102.611	2.610	1.00	51.75	Al6S	ATOM	29529	N2	GUA	512	185.977	95.265	8.612	1.00	59.65	A
ATOM	29477	O5'	GUA	510	178.865	103.194	3.389	1.00	51.75	Al6S	ATOM	29530	N1	GUA	512	185.988	95.392	7.381	1.00	59.65	A
ATOM	29478	C5'	GUA	510	178.476	102.846	4.795	1.00	51.75	Al6S	ATOM	29531	C6	GUA	512	185.685	96.246	9.588	1.00	59.65	A
ATOM	29479	C4'	GUA	510	177.631	101.662	4.748	1.00	51.75	Al6S	ATOM	29532	O6	GUA	512	185.310	97.573	9.439	1.00	59.65	A
ATOM	29480	O4'	GUA	510	177.704	100.997	5.989	1.00	51.75	Al6S	ATOM	29533	C5	GUA	512	185.218	98.021	10.660	1.00	59.65	A
ATOM	29481	C1'	GUA	510	178.202	99.648	5.782	1.00	46.82	Al6S	ATOM	29534	N7	GUA	512	187.043	97.764	13.426	1.00	49.29	A
ATOM	29482	N9	GUA	510	178.289	98.695	6.759	1.00	46.82	Al6S	ATOM	29535	C8	GUA	512	187.348	97.349	14.737	1.00	49.29	A
ATOM	29483	C4	GUA	510	177.163	97.780	8.773	1.00	46.82	Al6S	ATOM	29536	C2'	GUA	512	187.855	99.916	14.178	1.00	49.29	A
ATOM	29484	N3	GUA	510	177.874	97.773	10.072	1.00	46.82	Al6S	ATOM	29537	O2'	GUA	512						
ATOM	29485	C3	GUA	510							ATOM	29538	C3'	GUA	512						
ATOM	29486	N2	GUA	510							ATOM	29539	O3'	GUA	512						

ATOM	29540	P	GUA	513	188.961	100.877	13.522	1.00	67.72	Al6S	ATOM	29593	N3	ADE	515	186.516	109.325	20.697	1.00189.16
ATOM	29541	O1P	GUA	513	189.575	101.669	14.613	1.00	76.29	Al6S	ATOM	29594	C2	ADE	515	185.513	110.100	20.280	1.00189.16
ATOM	29542	O2P	GUA	513	188.371	101.571	12.350	1.00	76.29	Al6S	ATOM	29595	N1	ADE	515	185.559	111.295	19.675	1.00189.16
ATOM	29543	O5'	GUA	513	190.044	99.869	12.959	1.00	67.72	Al6S	ATOM	29596	C6	ADE	515	186.768	111.846	19.425	1.00189.16
ATOM	29544	C5'	GUA	513	190.571	98.853	13.783	1.00	67.72	Al6S	ATOM	29597	N6	ADE	515	186.815	113.037	18.819	1.00189.16
ATOM	29545	C4'	GUA	513	191.923	98.436	13.273	1.00	67.72	Al6S	ATOM	29598	C5	ADE	515	187.911	111.124	19.822	1.00189.16
ATOM	29546	O4'	GUA	513	191.798	97.830	11.968	1.00	67.72	Al6S	ATOM	29599	N7	ADE	515	189.269	111.396	19.724	1.00189.16
ATOM	29547	C1'	GUA	513	193.003	98.016	11.260	1.00	67.72	Al6S	ATOM	29600	C8	ADE	515	189.841	110.350	20.266	1.00189.16
ATOM	29548	N9	GUA	513	192.686	98.368	9.878	1.00	76.29	Al6S	ATOM	29601	C2'	ADE	515	188.539	106.898	20.908	1.00189.16
ATOM	29549	C4	GUA	513	192.177	99.550	9.429	1.00	76.29	Al6S	ATOM	29602	O2'	ADE	515	187.879	106.282	21.996	1.0095.29
ATOM	29550	N3	GUA	513	191.897	100.621	10.188	1.00	76.29	Al6S	ATOM	29603	C3'	ADE	515	189.676	106.035	20.347	1.0095.29
ATOM	29551	C2	GUA	513	191.402	101.608	9.470	1.00	76.29	Al6S	ATOM	29604	O3'	ADE	515	189.429	104.659	20.659	1.0095.29
ATOM	29552	N2	GUA	513	191.083	102.770	10.064	1.00	76.29	Al6S	ATOM	29605	P	ADE	516	188.257	103.838	19.905	1.0086.50
ATOM	29553	N1	GUA	513	191.186	101.536	8.114	1.00	76.29	Al6S	ATOM	29606	O1P	ADE	516	187.513	103.026	20.930	1.0049.01
ATOM	29554	C6	GUA	513	191.465	100.434	7.317	1.00	76.29	Al6S	ATOM	29607	O2P	ADE	516	188.857	103.161	18.741	1.0049.01
ATOM	29555	O6	GUA	513	191.222	100.466	6.107	1.00	76.29	Al6S	ATOM	29608	O5'	ADE	516	187.290	104.954	19.322	1.0086.50
ATOM	29556	C5	GUA	513	192.009	99.385	8.065	1.00	76.29	Al6S	ATOM	29609	C5'	ADE	516	185.999	105.123	19.863	1.0086.50
ATOM	29557	N7	GUA	513	192.427	98.128	7.663	1.00	76.29	Al6S	ATOM	29610	C4'	ADE	516	184.952	104.881	18.809	1.0086.50
ATOM	29558	C8	GUA	513	192.824	97.559	8.768	1.00	76.29	Al6S	ATOM	29611	O4'	ADE	516	185.281	103.712	18.034	1.0086.50
ATOM	29559	C2'	GUA	513	193.898	98.966	12.067	1.00	67.72	Al6S	ATOM	29612	C1'	ADE	516	184.097	103.018	17.705	1.0086.50
ATOM	29560	O2'	GUA	513	194.895	98.196	12.709	1.00	67.72	Al6S	ATOM	29613	N9	ADE	516	184.350	101.587	17.867	1.0049.01
ATOM	29561	C3'	GUA	513	192.918	99.561	13.076	1.00	67.72	Al6S	ATOM	29614	C4	ADE	516	183.806	100.553	17.133	1.0049.01
ATOM	29562	O3'	GUA	513	193.534	99.816	14.338	1.00	67.72	Al6S	ATOM	29615	N3	ADE	516	182.862	100.629	16.178	1.0049.01
ATOM	29563	P	URI	514	194.688	100.926	14.460	1.00	86.87	Al6S	ATOM	29616	C2	ADE	516	182.632	99.425	15.644	1.0049.01
ATOM	29564	O1P	URI	514	194.550	101.863	13.313	1.00	88.13	Al6S	ATOM	29617	N1	ADE	516	183.196	98.250	15.930	1.0049.01
ATOM	29565	O2P	URI	514	195.978	100.227	14.698	1.00	88.13	Al6S	ATOM	29618	C6	ADE	516	184.137	98.206	16.891	1.0049.01
ATOM	29566	O5'	URI	514	194.316	101.728	15.777	1.00	86.87	Al6S	ATOM	29619	N6	ADE	516	184.700	97.033	17.169	1.0049.01
ATOM	29567	C5'	URI	514	193.009	102.235	15.964	1.00	86.87	Al6S	ATOM	29620	C5	ADE	516	184.469	99.410	17.542	1.0049.01
ATOM	29568	C4'	URI	514	192.791	102.534	17.417	1.00	86.87	Al6S	ATOM	29621	N7	ADE	516	185.371	99.705	18.553	1.0049.01
ATOM	29569	O4'	URI	514	192.987	101.328	18.173	1.00	86.87	Al6S	ATOM	29622	C8	ADE	516	185.247	101.002	18.720	1.0049.01
ATOM	29570	C1'	URI	514	193.465	101.657	19.453	1.00	86.87	Al6S	ATOM	29623	C2'	ADE	516	182.904	103.667	18.422	1.0086.50
ATOM	29571	N1	URI	514	194.392	100.600	19.885	1.00	88.13	Al6S	ATOM	29624	O2'	ADE	516	182.071	104.282	17.467	1.0086.50
ATOM	29572	C6	URI	514	195.074	99.846	18.960	1.00	88.13	Al6S	ATOM	29625	C3'	ADE	516	183.587	104.616	19.409	1.0086.50
ATOM	29573	C2	URI	514	194.521	100.346	21.251	1.00	88.13	Al6S	ATOM	29626	O3'	ADE	516	182.992	105.879	19.764	1.0086.50
ATOM	29574	O2	URI	514	193.966	101.011	22.117	1.00	88.13	Al6S	ATOM	29627	P	URI	517	181.956	106.635	18.780	1.0066.37
ATOM	29575	N3	URI	514	195.320	99.274	21.562	1.00	88.13	Al6S	ATOM	29628	O1P	URI	517	182.295	106.385	17.357	1.0082.71
ATOM	29576	C4	URI	514	195.991	98.454	20.678	1.00	88.13	Al6S	ATOM	29629	O2P	URI	517	181.897	108.032	19.268	1.0082.71
ATOM	29577	O4	URI	514	196.567	97.452	21.104	1.00	88.13	Al6S	ATOM	29630	O5'	URI	517	180.562	105.978	19.163	1.0066.37
ATOM	29578	C5	URI	514	195.842	98.810	19.300	1.00	88.13	Al6S	ATOM	29631	C5'	URI	517	180.352	105.540	20.493	1.0066.37
ATOM	29579	C2'	URI	514	193.885	103.134	19.472	1.00	86.87	Al6S	ATOM	29632	C4'	URI	517	178.890	105.417	20.783	1.0066.37
ATOM	29580	O2'	URI	514	193.000	103.807	20.333	1.00	86.87	Al6S	ATOM	29633	O4'	URI	517	178.265	106.716	20.741	1.0066.37
ATOM	29581	C3'	URI	514	193.758	103.549	17.997	1.00	86.87	Al6S	ATOM	29634	C1'	URI	517	176.894	106.552	20.434	1.0066.37
ATOM	29582	O3'	URI	514	193.121	104.815	17.755	1.00	86.87	Al6S	ATOM	29635	N1	URI	517	176.558	107.439	19.320	1.0082.71
ATOM	29583	P	ADE	515	193.687	106.170	18.402	1.00	95.29	Al6S	ATOM	29636	C6	URI	517	177.524	107.949	18.491	1.0082.71
ATOM	29584	O1P	ADE	515	193.903	107.130	17.289	1.00189.16	Al6S	ATOM	29637	C2	URI	517	175.232	107.744	19.141	1.0082.71	
ATOM	29585	O2P	ADE	515	194.811	105.843	19.315	1.00189.16	Al6S	ATOM	29638	N3	URI	517	174.353	107.299	18.859	1.0082.71	
ATOM	29586	O5'	ADE	515	192.458	106.699	19.278	1.00	95.29	Al6S	ATOM	29639	O2	URI	517	174.969	108.587	18.093	1.0082.71
ATOM	29587	C5'	ADE	515	192.292	106.259	20.630	1.00	95.29	Al6S	ATOM	29640	C4	URI	517	175.886	109.141	17.226	1.0082.71
ATOM	29588	O4'	ADE	515	190.883	106.517	21.143	1.00	95.29	Al6S	ATOM	29641	O4	URI	517	175.496	109.898	16.334	1.0082.71
ATOM	29589	C1'	ADE	515	190.659	107.931	21.317	1.00	95.29	Al6S	ATOM	29642	C5	URI	517	177.242	108.768	17.478	1.0082.71
ATOM	29590	C1'	ADE	515	189.270	108.156	21.400	1.00	95.29	Al6S	ATOM	29643	C2'	URI	517	176.674	105.074	20.111	1.0066.37
ATOM	29591	N9	ADE	515	188.954	109.410	20.723	1.00189.16	Al6S	ATOM	29644	O2'	URI	517	176.184	104.427	21.261	1.0066.37	
ATOM	29592	C4	ADE	515	187.703	109.902	20.435	1.00189.16	Al6S	ATOM	29645	C3'	URI	517	178.088	104.625	19.780	1.0066.37	

ATOM	29646	O3' URI	517	178.274	103.237	20.005	1.00	66.37	Al6S	ATOM	29699	N3	GUA	520	182.086	94.836	24.711	1.00	67.55	A
ATOM	29647	P ADE	518	178.964	102.343	18.867	1.00	56.71	Al6S	ATOM	29700	C2	GUA	520	182.509	95.984	25.204	1.00	67.55	A
ATOM	29648	O1P ADE	518	179.297	101.033	19.461	1.00	43.82	Al6S	ATOM	29701	N2	GUA	520	183.270	95.988	26.305	1.00	67.55	A
ATOM	29649	O2P ADE	518	180.031	103.158	18.259	1.00	43.82	Al6S	ATOM	29702	N1	GUA	520	182.221	97.210	24.653	1.00	67.55	A
ATOM	29650	O5' ADE	518	177.911	102.153	17.779	1.00	56.71	Al6S	ATOM	29703	C6	GUA	520	181.459	97.414	23.507	1.00	67.55	A
ATOM	29651	C5' ADE	518	176.903	101.041	17.817	1.00	56.71	Al6S	ATOM	29704	O6	GUA	520	181.266	98.565	23.087	1.00	67.55	A
ATOM	29652	C4' ADE	518	176.965	100.287	16.508	1.00	56.71	Al6S	ATOM	29705	C5	GUA	520	181.002	96.186	22.966	1.00	67.55	A
ATOM	29653	O4' ADE	518	176.700	101.185	15.425	1.00	56.71	Al6S	ATOM	29706	N7	GUA	520	180.230	95.931	21.844	1.00	67.55	A
ATOM	29654	C1' ADE	518	177.458	100.795	14.312	1.00	56.71	Al6S	ATOM	29707	C8	GUA	520	180.126	94.631	21.813	1.00	67.55	A
ATOM	29655	N9 ADE	518	177.791	101.989	13.552	1.00	43.82	Al6S	ATOM	29708	C2'	GUA	520	179.805	92.114	24.085	1.00	49.24	A
ATOM	29656	C4 ADE	518	177.610	102.119	12.201	1.00	43.82	Al6S	ATOM	29709	O2'	GUA	520	178.705	91.038	24.881	1.00	49.24	A
ATOM	29657	N3 ADE	518	177.199	101.171	11.348	1.00	43.82	Al6S	ATOM	29710	C3'	GUA	520	177.820	90.788	23.761	1.00	49.24	A
ATOM	29658	C2 ADE	518	177.083	101.668	10.139	1.00	43.82	Al6S	ATOM	29711	O3'	GUA	521	176.541	91.367	24.524	1.00	52.65	A
ATOM	29659	N1 ADE	518	177.303	102.914	9.715	1.00	43.82	Al6S	ATOM	29712	P	GUA	521	175.683	90.218	24.904	1.00	66.45	A
ATOM	29660	C6 ADE	518	177.710	103.839	10.601	1.00	43.82	Al6S	ATOM	29713	O2P	GUA	521	177.144	92.019	25.844	1.00	52.65	A
ATOM	29661	N6 ADE	518	177.911	105.088	10.180	1.00	43.82	Al6S	ATOM	29715	O5'	GUA	521	177.776	91.197	26.819	1.00	52.65	A
ATOM	29662	C5 ADE	518	177.888	103.436	11.910	1.00	43.82	Al6S	ATOM	29716	C5'	GUA	521	178.404	92.037	27.904	1.00	52.65	A
ATOM	29663	N7 ADE	518	178.300	104.114	13.043	1.00	43.82	Al6S	ATOM	29717	C4'	GUA	521	179.411	92.909	27.334	1.00	52.65	A
ATOM	29664	C8 ADE	518	178.244	103.205	13.988	1.00	43.82	Al6S	ATOM	29718	O4'	GUA	521	179.514	94.082	28.119	1.00	52.65	A
ATOM	29665	C2' ADE	518	178.580	99.850	14.742	1.00	56.71	Al6S	ATOM	29719	C1'	GUA	521	179.315	95.231	27.248	1.00	66.45	A
ATOM	29666	O2' ADE	518	178.522	98.617	14.036	1.00	56.71	Al6S	ATOM	29720	N9	GUA	521	179.716	96.523	27.487	1.00	66.45	A
ATOM	29667	C3' ADE	518	178.342	99.711	16.248	1.00	56.71	Al6S	ATOM	29721	C4	GUA	521	180.372	96.964	28.581	1.00	66.45	A
ATOM	29668	O3' ADE	518	178.303	98.324	16.557	1.00	56.71	Al6S	ATOM	29722	N3	GUA	521	180.619	98.263	28.513	1.00	66.45	A
ATOM	29669	P	519	176.908	97.622	16.958	1.00	46.46	Al6S	ATOM	29723	C2	GUA	521	181.269	98.879	29.505	1.00	66.45	A
ATOM	29670	O1P	519	175.987	97.711	15.802	1.00	52.93	Al6S	ATOM	29724	N2	GUA	521	179.575	98.622	26.328	1.00	66.45	A
ATOM	29671	O2P	519	176.477	98.128	18.277	1.00	52.93	Al6S	ATOM	29725	N1	GUA	521	180.248	99.059	27.462	1.00	66.45	A
ATOM	29672	C5' CYT	519	177.329	96.102	17.156	1.00	46.46	Al6S	ATOM	29726	C6	GUA	521	179.308	97.237	26.384	1.00	66.45	A
ATOM	29673	O5' CYT	519	177.771	95.309	16.054	1.00	46.46	Al6S	ATOM	29727	O6	GUA	521	179.308	97.237	26.384	1.00	66.45	A
ATOM	29674	C4' CYT	519	179.015	94.530	16.427	1.00	46.46	Al6S	ATOM	29728	C5	GUA	521	179.308	97.237	26.384	1.00	66.45	A
ATOM	29675	O4' CYT	519	180.186	95.376	16.342	1.00	46.46	Al6S	ATOM	29729	N7	GUA	521	178.665	96.414	25.474	1.00	66.45	A
ATOM	29676	C1' CYT	519	181.130	94.963	17.306	1.00	46.46	Al6S	ATOM	29730	C8	GUA	521	178.694	95.235	26.022	1.00	66.45	A
ATOM	29677	N1	519	181.501	96.136	18.102	1.00	52.93	Al6S	ATOM	29731	C2'	GUA	521	178.472	93.975	29.232	1.00	52.65	A
ATOM	29678	C6	519	180.909	97.342	17.874	1.00	52.93	Al6S	ATOM	29732	O2'	GUA	521	179.107	93.413	30.350	1.00	52.65	A
ATOM	29679	C2	519	182.479	96.008	19.083	1.00	52.93	Al6S	ATOM	29733	C3'	GUA	521	177.480	92.995	28.626	1.00	52.65	A
ATOM	29680	O3' CYT	519	182.981	94.904	19.283	1.00	52.93	Al6S	ATOM	29734	O3'	GUA	521	176.753	92.301	29.630	1.00	52.65	A
ATOM	29681	N3	519	182.850	97.092	19.787	1.00	52.93	Al6S	ATOM	29735	P	ADE	522	174.835	91.942	31.169	1.00	70.30	A
ATOM	29682	C4	519	182.272	98.266	19.549	1.00	52.93	Al6S	ATOM	29736	O1P	ADE	522	174.835	91.942	31.169	1.00	70.30	A
ATOM	29683	N4	519	182.667	99.304	20.263	1.00	52.93	Al6S	ATOM	29737	O2P	ADE	522	174.554	93.399	29.067	1.00	70.30	A
ATOM	29684	C5	519	181.526	98.424	18.503	1.00	46.46	Al6S	ATOM	29738	O5'	ADE	522	175.874	94.214	31.009	1.00	63.39	A
ATOM	29685	C2' CYT	519	180.265	93.801	18.103	1.00	46.46	Al6S	ATOM	29739	C5'	ADE	522	176.635	94.077	32.201	1.00	63.39	A
ATOM	29686	O2' CYT	519	181.002	92.558	17.611	1.00	46.46	Al6S	ATOM	29740	C4'	ADE	522	177.173	95.417	32.633	1.00	63.39	A
ATOM	29687	C3' CYT	519	179.038	93.988	17.844	1.00	46.46	Al6S	ATOM	29741	O4'	ADE	522	178.017	95.956	31.585	1.00	63.39	A
ATOM	29688	O3' CYT	519	177.294	92.754	17.916	1.00	46.46	Al6S	ATOM	29742	C1'	ADE	522	177.923	97.369	31.583	1.00	63.39	A
ATOM	29689	P	520	176.597	91.253	17.765	1.00	67.55	Al6S	ATOM	29743	N9	ADE	522	177.425	97.797	30.280	1.00	70.30	A
ATOM	29690	O1P	520	176.512	93.750	19.294	1.00	67.55	Al6S	ATOM	29744	C4	ADE	522	177.563	99.053	29.747	1.00	70.30	A
ATOM	29691	O2P	520	178.202	92.288	20.377	1.00	49.24	Al6S	ATOM	29745	N3	ADE	522	178.189	100.105	30.298	1.00	70.30	A
ATOM	29692	O5' GUA	520	178.760	91.008	20.673	1.00	49.24	Al6S	ATOM	29746	C2	ADE	522	178.117	101.165	29.499	1.00	70.30	A
ATOM	29693	C4' GUA	520	179.485	91.051	21.998	1.00	49.24	Al6S	ATOM	29747	N1	ADE	522	177.538	101.284	28.302	1.00	70.30	A
ATOM	29694	O4' GUA	520	180.657	91.897	21.880	1.00	49.24	Al6S	ATOM	29748	C6	ADE	522	176.920	100.207	27.774	1.00	70.30	A
ATOM	29695	C1' GUA	520	180.877	92.582	23.103	1.00	49.24	Al6S	ATOM	29749	N6	ADE	522	176.348	100.329	26.577	1.00	70.30	A
ATOM	29696	N9	520	180.783	94.013	22.846	1.00	67.55	Al6S	ATOM	29750	C5	ADE	522	176.921	99.017	28.527	1.00	70.30	A
ATOM	29697	C4	520	181.346	95.010	23.599	1.00	67.55	Al6S	ATOM	29751	N7	ADE	522	176.392	97.756	28.289	1.00	70.30	A

ATOM	29752	C8	ADE	522	176.724	97.070	29.353	1.00	70.30	Al6S	ATOM	29805	O2P	GUA	525	167.022	103.949	33.282	1.00	52.15	/
ATOM	29753	C2'	ADE	522	176.973	97.762	32.714	1.00	63.39	Al6S	ATOM	29806	O5'	GUA	525	167.014	105.648	31.440	1.00	58.81	/
ATOM	29754	O2'	ADE	522	177.716	98.031	33.880	1.00	63.39	Al6S	ATOM	29807	C5'	GUA	525	167.288	106.921	30.885	1.00	58.81	/
ATOM	29755	C3'	ADE	522	176.138	96.502	32.857	1.00	63.39	Al6S	ATOM	29808	C4'	GUA	525	167.150	106.870	29.389	1.00	58.81	/
ATOM	29756	O3'	ADE	522	175.600	96.404	34.163	1.00	63.39	Al6S	ATOM	29809	O4'	GUA	525	168.080	105.895	28.851	1.00	58.81	/
ATOM	29757	P	GUA	523	174.088	96.863	34.438	1.00	56.99	Al6S	ATOM	29810	C1'	GUA	525	167.538	105.322	27.676	1.00	58.81	/
ATOM	29758	O1P	GUA	523	173.783	96.432	35.824	1.00	69.68	Al6S	ATOM	29811	N9	GUA	525	167.480	103.881	27.856	1.00	52.15	/
ATOM	29759	O2P	GUA	523	173.235	96.385	33.320	1.00	69.68	Al6S	ATOM	29812	C4	GUA	525	167.236	102.952	26.875	1.00	52.15	/
ATOM	29760	O5'	GUA	523	174.158	98.457	34.395	1.00	56.99	Al6S	ATOM	29813	N3	GUA	525	167.016	103.217	25.568	1.00	52.15	/
ATOM	29761	C5'	GUA	523	174.745	99.189	35.464	1.00	56.99	Al6S	ATOM	29814	C2	GUA	525	166.766	102.119	24.878	1.00	52.15	/
ATOM	29762	C4'	GUA	523	174.773	100.667	35.146	1.00	56.99	Al6S	ATOM	29815	N2	GUA	525	166.479	102.206	25.575	1.00	52.15	/
ATOM	29763	O4'	GUA	523	175.666	100.899	34.031	1.00	56.99	Al6S	ATOM	29816	N1	GUA	525	166.765	100.858	25.419	1.00	52.15	/
ATOM	29764	C1'	GUA	523	175.200	102.006	33.274	1.00	56.99	Al6S	ATOM	29817	C6	GUA	525	167.000	100.563	26.758	1.00	52.15	/
ATOM	29765	N9	GUA	523	174.915	101.548	31.920	1.00	69.68	Al6S	ATOM	29818	O6	GUA	525	166.974	99.392	27.144	1.00	52.15	/
ATOM	29766	C4	GUA	523	174.837	102.334	30.801	1.00	69.68	Al6S	ATOM	29819	C5	GUA	525	167.245	101.736	27.514	1.00	52.15	/
ATOM	29767	N3	GUA	523	175.051	103.661	30.754	1.00	69.68	Al6S	ATOM	29820	N7	GUA	525	167.505	101.896	28.867	1.00	52.15	/
ATOM	29768	C2	GUA	523	174.881	104.145	29.540	1.00	69.68	Al6S	ATOM	29821	C8	GUA	525	167.642	103.183	29.022	1.00	52.15	/
ATOM	29769	N1	GUA	523	175.075	105.448	29.312	1.00	69.68	Al6S	ATOM	29822	C2'	GUA	525	166.147	105.920	27.472	1.00	58.81	/
ATOM	29770	C2	GUA	523	174.513	103.389	28.460	1.00	69.68	Al6S	ATOM	29823	O2'	GUA	525	166.224	106.971	26.528	1.00	58.81	/
ATOM	29771	C6	GUA	523	174.280	102.019	28.486	1.00	69.68	Al6S	ATOM	29824	C3'	GUA	525	165.808	106.386	28.883	1.00	58.81	/
ATOM	29772	O6	GUA	523	173.931	101.429	27.454	1.00	69.68	Al6S	ATOM	29825	O3'	GUA	525	164.866	107.444	28.867	1.00	58.81	/
ATOM	29773	C5	GUA	523	174.482	101.483	29.782	1.00	69.68	Al6S	ATOM	29826	P	CYT	526	163.311	107.097	28.738	1.00	46.71	/
ATOM	29774	N7	GUA	523	174.372	100.177	30.244	1.00	69.68	Al6S	ATOM	29827	O1P	CYT	526	162.565	108.377	28.799	1.00	54.26	/
ATOM	29775	C8	GUA	523	174.643	100.265	31.516	1.00	69.68	Al6S	ATOM	29828	O2P	CYT	526	163.005	106.008	29.709	1.00	54.26	/
ATOM	29776	C2'	GUA	523	173.939	102.538	33.960	1.00	56.99	Al6S	ATOM	29829	O5'	CYT	526	163.165	106.519	27.261	1.00	46.71	/
ATOM	29777	O2'	GUA	523	174.252	103.619	34.811	1.00	56.99	Al6S	ATOM	29830	C5'	CYT	526	163.211	107.394	26.141	1.00	46.71	/
ATOM	29778	C3'	GUA	523	173.462	101.306	34.715	1.00	56.99	Al6S	ATOM	29831	C4'	CYT	526	162.929	106.642	24.864	1.00	46.71	/
ATOM	29779	O3'	GUA	523	172.698	101.709	35.835	1.00	56.99	Al6S	ATOM	29832	O4'	CYT	526	163.974	105.665	24.617	1.00	46.71	/
ATOM	29780	P	GUA	524	171.102	101.780	35.722	1.00	62.83	Al6S	ATOM	29833	C1'	CYT	526	163.415	104.539	23.959	1.00	46.71	/
ATOM	29781	O1P	GUA	524	170.588	102.312	37.008	1.00	62.49	Al6S	ATOM	29834	N1	CYT	526	163.554	103.382	24.841	1.00	54.26	/
ATOM	29782	O2P	GUA	524	170.641	100.459	35.240	1.00	62.49	Al6S	ATOM	29835	C6	CYT	526	163.847	103.542	26.164	1.00	54.26	/
ATOM	29783	O5'	GUA	524	170.833	102.889	34.614	1.00	62.83	Al6S	ATOM	29836	C2	CYT	526	163.381	102.105	24.303	1.00	54.26	/
ATOM	29784	C5'	GUA	524	171.037	104.262	34.916	1.00	62.83	Al6S	ATOM	29837	O2	CYT	526	163.084	101.996	23.103	1.00	54.26	/
ATOM	29785	C4'	GUA	524	170.975	105.105	33.659	1.00	62.83	Al6S	ATOM	29838	N3	CYT	526	163.533	101.026	25.101	1.00	54.26	/
ATOM	29786	O4'	GUA	524	172.000	104.670	32.720	1.00	62.83	Al6S	ATOM	29839	C4	CYT	526	163.831	101.191	26.388	1.00	54.26	/
ATOM	29787	C1'	GUA	524	171.551	104.894	31.393	1.00	62.83	Al6S	ATOM	29840	N4	CYT	526	163.987	100.102	27.132	1.00	54.26	/
ATOM	29788	N9	GUA	524	171.424	103.605	30.729	1.00	62.49	Al6S	ATOM	29841	C5	CYT	526	163.989	102.484	26.967	1.00	54.26	/
ATOM	29789	C4	GUA	524	171.197	103.410	29.393	1.00	62.49	Al6S	ATOM	29842	C2'	CYT	526	161.944	104.852	23.704	1.00	46.71	/
ATOM	29790	N3	GUA	524	171.102	104.380	28.456	1.00	62.49	Al6S	ATOM	29843	O2'	CYT	526	161.809	105.495	22.460	1.00	46.71	/
ATOM	29791	C2	GUA	524	170.877	103.885	27.253	1.00	62.49	Al6S	ATOM	29844	C3'	CYT	526	161.657	105.812	24.544	1.00	46.71	/
ATOM	29792	N2	GUA	524	170.772	104.711	26.203	1.00	62.49	Al6S	ATOM	29845	O3'	CYT	526	160.525	106.603	24.542	1.00	46.71	/
ATOM	29793	N1	GUA	524	170.743	102.543	26.995	1.00	62.49	Al6S	ATOM	29846	P	GUA	527	159.070	106.055	24.913	1.00	47.76	/
ATOM	29794	C6	GUA	524	170.835	101.532	27.950	1.00	62.49	Al6S	ATOM	29847	O1P	GUA	527	158.103	107.056	24.397	1.00	52.66	/
ATOM	29795	O5	GUA	524	170.636	100.354	29.617	1.00	62.49	Al6S	ATOM	29848	O2P	GUA	527	159.070	105.687	26.356	1.00	52.66	/
ATOM	29796	C5	GUA	524	171.088	102.050	29.236	1.00	62.49	Al6S	ATOM	29849	O5'	GUA	527	158.930	104.714	24.060	1.00	47.76	/
ATOM	29797	N7	GUA	524	171.270	101.398	30.447	1.00	62.49	Al6S	ATOM	29850	C5'	GUA	527	158.797	104.758	22.639	1.00	47.76	/
ATOM	29798	C8	GUA	524	171.472	102.362	31.302	1.00	62.49	Al6S	ATOM	29851	C4'	GUA	527	158.599	103.364	22.066	1.00	47.76	/
ATOM	29799	O2'	GUA	524	170.174	105.547	31.495	1.00	62.83	Al6S	ATOM	29852	O4'	GUA	527	159.750	102.528	22.358	1.00	47.76	/
ATOM	29800	O2'	GUA	524	169.267	106.958	31.462	1.00	62.83	Al6S	ATOM	29853	C1'	GUA	527	159.343	101.169	22.411	1.00	47.76	/
ATOM	29801	C3'	GUA	524	169.705	105.013	32.835	1.00	62.83	Al6S	ATOM	29854	N9	GUA	527	159.725	100.606	23.701	1.00	52.66	/
ATOM	29802	O3'	GUA	524	168.656	105.812	33.338	1.00	62.83	Al6S	ATOM	29855	C4	GUA	527	159.926	99.278	23.978	1.00	52.66	/
ATOM	29803	P	GUA	525	167.148	105.400	33.005	1.00	58.81	Al6S	ATOM	29856	N3	GUA	527	159.791	98.259	23.109	1.00	52.66	/
ATOM	29804	O1P	GUA	525	166.227	106.352	33.655	1.00	52.15	Al6S	ATOM	29857	C2	GUA	527	160.082	97.097	23.667	1.00	52.66	/

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ATOM	29858	N2	GUA	527	160.008	95.968	22.949	1.00	52.66	Al6s	ATOM	29911	O3'	GUA	529	150.612	93.344	27.077	1.00	42.60	Al
ATOM	29859	N1	GUA	527	160.470	96.949	24.969	1.00	52.66	Al6s	ATOM	29912	P	ADE	530	149.654	93.055	28.334	1.00	47.93	Al
ATOM	29860	C6	GUA	527	160.612	97.983	25.880	1.00	52.66	Al6s	ATOM	29913	O1P	ADE	530	148.281	92.804	27.825	1.00	58.46	Al
ATOM	29861	C5	GUA	527	160.976	97.738	27.032	1.00	52.66	Al6s	ATOM	29914	O2P	ADE	530	149.868	94.088	29.369	1.00	58.46	Al
ATOM	29862	C5	GUA	527	160.303	99.234	25.300	1.00	52.66	Al6s	ATOM	29915	O5'	ADE	530	150.195	91.671	28.889	1.00	47.93	Al
ATOM	29863	N7	GUA	527	160.318	100.506	25.850	1.00	52.66	Al6s	ATOM	29916	C5'	ADE	530	149.553	90.463	28.522	1.00	47.93	Al
ATOM	29864	C8	GUA	527	159.965	101.286	24.867	1.00	52.66	Al6s	ATOM	29917	C4'	ADE	530	150.569	89.434	28.107	1.00	47.93	Al
ATOM	29865	C2'	GUA	527	157.834	101.134	22.180	1.00	47.76	Al6s	ATOM	29918	O4'	ADE	530	151.683	89.444	29.006	1.00	47.93	Al
ATOM	29866	O2'	GUA	527	157.589	100.861	20.814	1.00	47.76	Al6s	ATOM	29919	C1'	ADE	530	152.226	88.161	29.011	1.00	47.93	Al
ATOM	29867	C3'	GUA	527	156.212	102.910	21.952	1.00	47.76	Al6s	ATOM	29920	N9	ADE	530	153.124	87.994	30.139	1.00	58.46	Al
ATOM	29868	O3'	GUA	527	154.833	102.830	22.773	1.00	51.43	Al6s	ATOM	29921	C4	ADE	530	154.452	87.711	29.970	1.00	58.46	Al
ATOM	29869	P	CYT	528	153.779	103.281	21.827	1.00	54.00	Al6s	ATOM	29922	N3	ADE	530	155.085	87.500	28.809	1.00	58.46	Al
ATOM	29870	O1P	CYT	528	154.992	103.516	24.083	1.00	54.00	Al6s	ATOM	29923	C2	ADE	530	156.378	87.296	29.015	1.00	58.46	Al
ATOM	29871	O2P	CYT	528	154.626	101.281	23.072	1.00	51.43	Al6s	ATOM	29924	N1	ADE	530	157.054	87.282	30.161	1.00	58.46	Al
ATOM	29872	O5'	CYT	528	153.955	100.463	22.137	1.00	51.43	Al6s	ATOM	29925	C6	ADE	530	156.383	87.496	31.311	1.00	58.46	Al
ATOM	29873	C5'	CYT	528	154.188	99.006	22.446	1.00	51.43	Al6s	ATOM	29926	N6	ADE	530	157.064	87.487	32.452	1.00	58.46	Al
ATOM	29874	O4'	CYT	528	155.594	98.803	22.737	1.00	51.43	Al6s	ATOM	29927	C5	ADE	530	155.003	87.719	31.228	1.00	58.46	Al
ATOM	29875	O4'	CYT	528	155.739	97.604	23.476	1.00	51.43	Al6s	ATOM	29928	N7	ADE	530	154.028	87.965	32.187	1.00	58.46	Al
ATOM	29876	C1'	CYT	528	156.457	97.896	24.706	1.00	54.00	Al6s	ATOM	29929	C8	ADE	530	151.102	87.159	28.783	1.00	47.93	Al
ATOM	29877	N1	CYT	528	156.659	99.177	25.119	1.00	54.00	Al6s	ATOM	29930	C2'	ADE	530	151.643	86.078	28.062	1.00	47.93	Al
ATOM	29878	C6	CYT	528	156.899	96.827	25.474	1.00	54.00	Al6s	ATOM	29931	O2'	ADE	530	149.777	87.537	26.773	1.00	47.93	Al
ATOM	29879	C2	CYT	528	156.753	95.683	25.036	1.00	54.00	Al6s	ATOM	29932	C3'	ADE	530	149.295	88.525	25.512	1.00	50.19	Al
ATOM	29880	O2	CYT	528	157.476	97.064	26.667	1.00	54.00	Al6s	ATOM	29933	O3'	ADE	530	147.877	88.964	25.736	1.00	48.87	Al
ATOM	29881	N3	CYT	528	157.635	98.315	27.085	1.00	54.00	Al6s	ATOM	29934	P	GUA	531	149.706	87.835	24.334	1.00	48.87	Al
ATOM	29882	C4	CYT	528	158.176	98.502	28.281	1.00	54.00	Al6s	ATOM	29935	O1P	GUA	531	150.205	89.819	25.660	1.00	50.19	Al
ATOM	29883	N4	CYT	528	157.237	99.430	26.295	1.00	54.00	Al6s	ATOM	29936	O2P	GUA	531	151.053	90.185	24.585	1.00	50.19	Al
ATOM	29884	C5	CYT	528	154.332	97.124	23.820	1.00	51.43	Al6s	ATOM	29937	O5'	GUA	531	152.434	90.457	25.111	1.00	50.19	Al
ATOM	29885	C2'	CYT	528	153.934	96.169	22.872	1.00	51.43	Al6s	ATOM	29938	C5'	GUA	531	152.953	89.246	25.719	1.00	50.19	Al
ATOM	29886	O2'	CYT	528	153.539	98.410	23.682	1.00	51.43	Al6s	ATOM	29939	C4'	GUA	531	154.352	89.173	25.512	1.00	50.19	Al
ATOM	29887	C3'	CYT	528	152.164	98.105	23.479	1.00	51.43	Al6s	ATOM	29940	O1'	GUA	531	157.899	85.848	24.013	1.00	48.87	Al
ATOM	29888	O3'	CYT	529	151.200	97.938	24.753	1.00	42.60	Al6s	ATOM	29941	C1'	GUA	531	158.054	87.035	24.977	1.00	48.87	Al
ATOM	29889	P	GUA	529	149.853	97.568	24.261	1.00	54.94	Al6s	ATOM	29942	N9	GUA	531	155.863	87.346	24.600	1.00	48.87	Al
ATOM	29890	O1P	GUA	529	151.367	99.126	25.621	1.00	54.94	Al6s	ATOM	29943	C4	GUA	531	157.899	85.330	23.585	1.00	48.87	Al
ATOM	29891	O2P	GUA	529	151.766	95.399	24.921	1.00	42.60	Al6s	ATOM	29944	N3	GUA	531	156.686	86.251	22.985	1.00	48.87	Al
ATOM	29892	O5'	GUA	529	152.375	94.375	25.837	1.00	42.60	Al6s	ATOM	29945	C2	GUA	531	155.605	86.178	23.925	1.00	48.87	Al
ATOM	29893	C5'	GUA	529	151.813	96.684	25.516	1.00	42.60	Al6s	ATOM	29946	N2	GUA	531	154.248	86.034	23.688	1.00	48.87	Al
ATOM	29894	C4'	GUA	529	154.096	94.314	27.424	1.00	42.60	Al6s	ATOM	29947	N1	GUA	531	153.713	87.097	24.219	1.00	48.87	Al
ATOM	29895	O4'	GUA	529	154.747	94.743	26.117	1.00	42.60	Al6s	ATOM	29948	C6	GUA	531	154.476	91.454	24.784	1.00	50.19	Al
ATOM	29896	C1'	GUA	529	154.560	95.481	28.166	1.00	54.94	Al6s	ATOM	29949	O6	GUA	531	155.147	90.838	25.733	1.00	50.19	Al
ATOM	29897	N9	GUA	529	155.334	95.480	29.300	1.00	54.94	Al6s	ATOM	29950	C5	GUA	531	153.394	92.201	23.773	1.00	50.19	Al
ATOM	29898	C4	GUA	529	155.820	94.391	29.928	1.00	54.94	Al6s	ATOM	29951	N7	GUA	531	153.575	92.682	22.259	1.00	43.34	Al
ATOM	29899	N3	GUA	529	156.532	94.712	30.998	1.00	54.94	Al6s	ATOM	29952	C8	GUA	531	153.128	94.088	22.177	1.00	44.77	Al
ATOM	29900	C2	GUA	529	157.099	93.753	31.740	1.00	54.94	Al6s	ATOM	29953	O2'	GUA	531	155.941	91.659	22.028	1.00	43.34	Al
ATOM	29901	N2	GUA	529	156.740	95.995	31.422	1.00	54.94	Al6s	ATOM	29954	C2'	GUA	531	156.036	93.400	22.811	1.00	43.34	Al
ATOM	29902	N1	GUA	529	156.239	97.132	30.802	1.00	54.94	Al6s	ATOM	29955	O3'	GUA	531	157.433	92.841	22.720	1.00	43.34	Al
ATOM	29903	C6	GUA	529	156.465	98.247	31.291	1.00	54.94	Al6s	ATOM	29956	O3'	GUA	531	157.411	91.461	23.151	1.00	43.34	Al
ATOM	29904	O6	GUA	529	155.487	96.805	29.638	1.00	54.94	Al6s	ATOM	29957	P	CYT	532						
ATOM	29905	C5	GUA	529	154.839	97.625	28.726	1.00	54.94	Al6s	ATOM	29958	O1P	CYT	532						
ATOM	29906	N7	GUA	529	154.305	96.797	27.872	1.00	54.94	Al6s	ATOM	29959	O2P	CYT	532						
ATOM	29907	C8	GUA	529	152.865	93.617	28.026	1.00	42.60	Al6s	ATOM	29960	O5'	CYT	532						
ATOM	29908	C2'	GUA	529	152.972	92.215	27.849	1.00	42.60	Al6s	ATOM	29961	C5'	CYT	532						
ATOM	29909	O2'	GUA	529	151.728	94.223	27.205	1.00	42.60	Al6s	ATOM	29962	C4'	CYT	532						
ATOM	29910	C3'	GUA	529						Al6s	ATOM	29963	O4'	CYT	532						

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ATOM	29964	C1' CYT	532	158.416	90.736	22.463	1.00	43.34	Al6S	ATOM	30017	O2' URI	534	164.441	85.804	12.445	1.00	39.14	/
ATOM	29965	N1 CYT	532	157.802	89.562	21.840	1.00	44.77	Al6S	ATOM	30018	C3' URI	534	163.519	88.095	12.285	1.00	39.14	/
ATOM	29966	C6 CYT	532	156.451	89.451	21.746	1.00	44.77	Al6S	ATOM	30019	O3' URI	534	164.515	88.351	11.310	1.00	39.14	/
ATOM	29967	C2 CYT	532	158.627	88.545	21.364	1.00	44.77	Al6S	ATOM	30020	P' URI	535	164.079	88.661	9.799	1.00	45.20	/
ATOM	29968	O2 CYT	532	159.853	88.692	21.424	1.00	44.77	Al6S	ATOM	30021	O1P URI	535	165.269	89.158	9.068	1.00	41.28	/
ATOM	29969	N3 CYT	532	158.075	87.435	20.849	1.00	44.77	Al6S	ATOM	30022	O2P URI	535	162.842	89.474	9.834	1.00	41.28	/
ATOM	29970	C4 CYT	532	156.756	87.323	20.787	1.00	44.77	Al6S	ATOM	30023	O5' URI	535	163.668	87.226	9.226	1.00	45.20	/
ATOM	29971	N4 CYT	532	156.250	86.202	20.296	1.00	44.77	Al6S	ATOM	30024	C5' URI	535	164.637	86.221	9.013	1.00	45.20	/
ATOM	29972	C5 CYT	532	155.891	88.356	21.233	1.00	44.77	Al6S	ATOM	30025	C4' URI	535	163.941	84.919	8.761	1.00	45.20	/
ATOM	29973	O2' CYT	532	159.070	91.682	21.466	1.00	43.34	Al6S	ATOM	30026	O4' URI	535	163.120	84.622	9.918	1.00	45.20	/
ATOM	29974	C2' CYT	532	160.252	92.206	22.023	1.00	43.34	Al6S	ATOM	30027	C1' URI	535	161.962	83.914	9.509	1.00	45.20	/
ATOM	29975	C3' CYT	532	158.003	92.750	21.320	1.00	43.34	Al6S	ATOM	30028	N1 URI	535	160.784	84.665	9.941	1.00	41.28	/
ATOM	29976	O3' CYT	532	158.626	93.955	20.963	1.00	43.34	Al6S	ATOM	30029	C6 URI	535	160.869	85.962	10.378	1.00	41.28	/
ATOM	29977	P' GUA	533	158.879	94.271	19.419	1.00	51.89	Al6S	ATOM	30030	C2 URI	535	159.575	84.006	9.880	1.00	41.28	/
ATOM	29978	O1P GUA	533	159.601	95.568	19.453	1.00	41.13	Al6S	ATOM	30031	O2 URI	535	158.490	82.854	9.504	1.00	41.28	/
ATOM	29979	O2P GUA	533	159.779	93.069	18.866	1.00	51.89	Al6S	ATOM	30032	N3 URI	535	158.495	86.039	10.715	1.00	41.28	/
ATOM	29980	O5' GUA	533	161.181	93.218	18.692	1.00	51.89	Al6S	ATOM	30033	C4 URI	535	157.425	86.584	10.972	1.00	41.28	/
ATOM	29981	C5' GUA	533	161.824	91.911	18.263	1.00	51.89	Al6S	ATOM	30034	O4 URI	535	159.794	86.655	10.761	1.00	41.28	/
ATOM	29982	C4' GUA	533	161.237	90.797	18.986	1.00	51.89	Al6S	ATOM	30035	C5 URI	535	162.007	83.805	7.990	1.00	45.20	/
ATOM	29983	O4' GUA	533	161.533	89.592	18.298	1.00	51.89	Al6S	ATOM	30036	C2' URI	535	162.527	82.545	7.628	1.00	45.20	/
ATOM	29984	C1' GUA	533	160.313	88.819	18.117	1.00	41.13	Al6S	ATOM	30037	O2' URI	535	162.916	84.973	7.648	1.00	45.20	/
ATOM	29985	N9 GUA	533	160.248	87.516	17.714	1.00	41.13	Al6S	ATOM	30038	C3' URI	535	163.503	84.863	6.366	1.00	45.20	/
ATOM	29986	C4 GUA	533	161.301	86.718	17.453	1.00	41.13	Al6S	ATOM	30039	O3' URI	536	162.832	85.429	5.139	1.00	41.66	/
ATOM	29987	N3 GUA	533	160.917	85.516	17.052	1.00	41.13	Al6S	ATOM	30040	P' ADE	536	163.719	85.429	3.974	1.00	40.32	/
ATOM	29988	C2 GUA	533	161.827	84.585	16.750	1.00	41.13	Al6S	ATOM	30041	O1P ADE	536	162.515	87.030	5.568	1.00	40.32	/
ATOM	29989	N2 GUA	533	159.611	85.137	16.916	1.00	41.13	Al6S	ATOM	30042	O2P ADE	536	161.471	84.858	4.902	1.00	41.66	/
ATOM	29990	C6 GUA	533	157.373	85.508	17.172	1.00	41.13	Al6S	ATOM	30043	C5' ADE	536	161.505	83.509	4.504	1.00	41.66	/
ATOM	29991	O6 GUA	533	157.373	85.508	17.172	1.00	41.13	Al6S	ATOM	30044	C4' ADE	536	160.114	82.989	4.307	1.00	41.66	/
ATOM	29992	O6 GUA	533	158.908	87.229	17.612	1.00	41.13	Al6S	ATOM	30045	O4' ADE	536	159.439	82.834	5.576	1.00	41.66	/
ATOM	29993	C7 GUA	533	158.140	88.325	17.974	1.00	41.13	Al6S	ATOM	30046	O4' ADE	536	158.056	83.087	6.254	1.00	40.32	/
ATOM	29994	N7 GUA	533	162.134	89.995	16.952	1.00	51.89	Al6S	ATOM	30047	C1' ADE	536	155.381	83.791	6.789	1.00	40.32	/
ATOM	29995	C8 GUA	533	163.379	92.726	13.652	1.00	38.02	Al6S	ATOM	30048	N9 ADE	536	154.408	84.398	7.452	1.00	40.32	/
ATOM	29996	C2' GUA	533	163.547	89.914	17.030	1.00	51.89	Al6S	ATOM	30049	C4 ADE	536	155.509	84.515	6.839	1.00	40.32	/
ATOM	29997	O2' GUA	533	161.665	91.439	16.832	1.00	51.89	Al6S	ATOM	30050	N3 ADE	536	154.429	85.560	8.109	1.00	40.32	/
ATOM	29998	C3' GUA	533	162.538	92.121	15.945	1.00	51.89	Al6S	ATOM	30051	C2 ADE	536	155.582	86.258	7.481	1.00	40.32	/
ATOM	29999	O3' GUA	533	162.344	91.935	14.364	1.00	39.14	Al6S	ATOM	30052	N1 ADE	536	155.615	87.422	8.790	1.00	40.32	/
ATOM	30000	P' URI	534	163.379	92.726	13.652	1.00	38.02	Al6S	ATOM	30053	C6 ADE	536	156.684	85.720	7.328	1.00	40.32	/
ATOM	30001	O1P URI	534	160.909	92.158	14.066	1.00	38.02	Al6S	ATOM	30054	N6 ADE	536	157.982	86.173	7.481	1.00	40.32	/
ATOM	30002	O5' URI	534	162.646	90.395	14.105	1.00	39.14	Al6S	ATOM	30055	C5 ADE	536	158.553	85.250	6.600	1.00	40.32	/
ATOM	30003	O2' URI	534	163.983	89.948	14.014	1.00	39.14	Al6S	ATOM	30056	N7 ADE	536	157.509	82.169	3.272	1.00	41.66	/
ATOM	30004	C5' URI	534	164.031	88.490	13.651	1.00	39.14	Al6S	ATOM	30057	C8 ADE	536	159.203	83.881	3.500	1.00	41.66	/
ATOM	30005	C4' URI	534	163.161	87.758	14.542	1.00	39.14	Al6S	ATOM	30058	C2' ADE	536	159.457	83.651	2.123	1.00	41.66	/
ATOM	30006	O4' URI	534	162.715	86.581	13.905	1.00	39.14	Al6S	ATOM	30059	O2' ADE	536	159.217	84.831	1.067	1.00	39.72	/
ATOM	30007	C1' URI	534	160.571	87.740	14.245	1.00	38.02	Al6S	ATOM	30060	O3' ADE	537	159.722	84.389	-0.267	1.00	40.51	/
ATOM	30008	N1 URI	534	160.602	85.438	13.619	1.00	38.02	Al6S	ATOM	30061	P' CYT	537	159.730	86.093	1.670	1.00	40.51	/
ATOM	30009	C6 URI	534	161.196	84.416	13.317	1.00	38.02	Al6S	ATOM	30062	O2P CYT	537	157.632	84.894	0.998	1.00	39.72	/
ATOM	30010	O2 URI	534	159.237	85.518	13.663	1.00	38.02	Al6S	ATOM	30063	O5' CYT	537	156.890	83.835	0.420	1.00	39.72	/
ATOM	30011	N3 URI	534	158.490	86.626	13.975	1.00	38.02	Al6S	ATOM	30064	C5' CYT	537	155.425	84.037	0.687	1.00	39.72	/
ATOM	30012	C4 URI	534	157.272	86.540	14.007	1.00	38.02	Al6S	ATOM	30065	C4' CYT	537	155.209	83.957	2.119	1.00	39.72	/
ATOM	30013	O4 URI	534	159.244	87.790	14.274	1.00	38.02	Al6S	ATOM	30066	O4' CYT	537	154.139	84.811	2.481	1.00	39.72	/
ATOM	30014	C5 URI	534	163.271	86.600	12.481	1.00	39.14	Al6S	ATOM	30067	C1' CYT	537						/
ATOM	30015	C2' URI	534							ATOM	30068								/
ATOM	30016	C2' URI	534							ATOM	30069								/

ATOM	30070	N1	CYT	537	154.614	85.801	3.451	1.00	40.51	Al6s	ATOM	30123	O1P	GUA	540	149.670	97.228	-5.037	1.00	51.17	A
ATOM	30071	C6	CYT	537	155.919	86.179	3.498	1.00	40.51	Al6s	ATOM	30124	O2P	GUA	540	151.562	95.833	-4.022	1.00	51.17	A
ATOM	30072	C2	CYT	537	153.682	86.375	4.309	1.00	40.51	Al6s	ATOM	30125	O5'	GUA	540	150.365	97.503	-2.644	1.00	42.68	A
ATOM	30073	O2	CYT	537	152.505	85.972	4.271	1.00	40.51	Al6s	ATOM	30126	C5'	GUA	540	149.279	98.353	-2.304	1.00	42.68	A
ATOM	30074	N3	CYT	537	154.074	87.343	5.158	1.00	40.51	Al6s	ATOM	30127	C4'	GUA	540	149.629	99.178	-1.106	1.00	42.68	A
ATOM	30075	C4	CYT	537	155.343	87.726	5.180	1.00	40.51	Al6s	ATOM	30128	O4'	GUA	540	150.064	98.280	-0.059	1.00	42.68	A
ATOM	30076	N4	CYT	537	155.697	88.697	6.029	1.00	40.51	Al6s	ATOM	30129	C1'	GUA	540	151.049	98.919	0.734	1.00	42.68	A
ATOM	30077	C5	CYT	537	156.323	87.133	4.336	1.00	40.51	Al6s	ATOM	30130	N9	GUA	540	152.219	98.053	0.800	1.00	51.17	A
ATOM	30078	C2'	CYT	537	153.654	85.510	1.212	1.00	39.72	Al6s	ATOM	30131	C4	GUA	540	153.291	98.208	1.628	1.00	51.17	A
ATOM	30079	O2'	CYT	537	152.530	84.832	0.705	1.00	39.72	Al6s	ATOM	30132	N3	GUA	540	153.464	99.204	2.509	1.00	51.17	A
ATOM	30080	C3'	CYT	537	154.878	85.407	0.318	1.00	39.72	Al6s	ATOM	30133	C2	GUA	540	154.594	99.080	3.177	1.00	51.17	A
ATOM	30081	O3'	CYT	537	154.525	85.510	-1.059	1.00	39.72	Al6s	ATOM	30134	N2	GUA	540	154.929	99.997	4.090	1.00	51.17	A
ATOM	30082	P	CYT	538	154.430	86.968	-1.750	1.00	43.71	Al6s	ATOM	30135	N1	GUA	540	155.478	98.054	2.996	1.00	51.17	A
ATOM	30083	O1P	CYT	538	154.374	86.769	-3.225	1.00	49.16	Al6s	ATOM	30136	C6	GUA	540	155.315	97.016	2.092	1.00	51.17	A
ATOM	30084	O2P	CYT	538	155.459	87.869	-1.177	1.00	49.16	Al6s	ATOM	30137	O6	GUA	540	156.178	96.140	1.998	1.00	51.17	A
ATOM	30085	O5'	CYT	538	153.018	87.517	-1.265	1.00	43.71	Al6s	ATOM	30138	C5	GUA	540	154.111	97.140	1.370	1.00	51.17	A
ATOM	30086	C5'	CYT	538	151.816	87.036	-1.841	1.00	43.71	Al6s	ATOM	30139	N7	GUA	540	153.571	96.331	0.387	1.00	51.17	A
ATOM	30087	C4'	CYT	538	150.652	87.833	-1.329	1.00	43.71	Al6s	ATOM	30140	C8	GUA	540	152.451	96.916	0.074	1.00	51.17	A
ATOM	30088	O4'	CYT	538	150.560	87.652	-0.105	1.00	43.71	Al6s	ATOM	30141	C2'	GUA	540	151.293	100.303	0.135	1.00	42.68	A
ATOM	30089	C1'	CYT	538	150.086	88.840	0.711	1.00	43.71	Al6s	ATOM	30142	O2'	GUA	540	150.492	101.227	0.840	1.00	42.68	A
ATOM	30090	N1	CYT	538	151.120	89.325	1.627	1.00	49.16	Al6s	ATOM	30143	C3'	GUA	540	150.801	100.117	-1.293	1.00	42.68	A
ATOM	30091	C6	CYT	538	152.392	88.846	1.558	1.00	49.16	Al6s	ATOM	30144	O3'	GUA	540	150.298	101.338	-1.790	1.00	42.68	A
ATOM	30092	C2	CYT	538	150.783	90.294	2.564	1.00	49.16	Al6s	ATOM	30145	P	GUA	541	150.843	101.930	-3.179	1.00	30.37	A
ATOM	30093	O2	CYT	538	149.608	90.692	2.623	1.00	49.16	Al6s	ATOM	30146	O1P	GUA	541	149.766	102.839	-3.740	1.00	45.70	A
ATOM	30094	N3	CYT	538	151.773	90.773	3.387	1.00	49.16	Al6s	ATOM	30147	O2P	GUA	541	151.334	100.781	-3.994	1.00	45.70	A
ATOM	30095	C4	CYT	538	152.976	90.306	3.307	1.00	49.16	Al6s	ATOM	30148	O5'	GUA	541	152.074	102.808	-2.707	1.00	30.37	A
ATOM	30096	N4	CYT	538	153.885	90.806	4.140	1.00	49.16	Al6s	ATOM	30149	C5'	GUA	541	151.883	103.818	-1.750	1.00	30.37	A
ATOM	30097	C5	CYT	538	153.341	89.303	2.371	1.00	49.16	Al6s	ATOM	30150	C4'	GUA	541	153.129	103.989	-0.941	1.00	30.37	A
ATOM	30098	C2'	CYT	538	149.795	89.825	-0.419	1.00	43.71	Al6s	ATOM	30151	O4'	GUA	541	153.391	102.776	-0.200	1.00	30.37	A
ATOM	30099	O2'	CYT	538	148.437	89.683	-0.793	1.00	43.71	Al6s	ATOM	30152	C1'	GUA	541	154.781	102.630	-0.016	1.00	30.37	A
ATOM	30100	C3'	CYT	538	150.762	89.335	-1.489	1.00	43.71	Al6s	ATOM	30153	N9	GUA	541	155.139	101.301	-0.491	1.00	45.70	A
ATOM	30101	O3'	CYT	538	150.354	89.725	-2.788	1.00	43.71	Al6s	ATOM	30154	C4	GUA	541	156.061	100.450	0.068	1.00	45.70	A
ATOM	30102	P	CYT	539	151.146	90.896	-3.546	1.00	40.49	Al6s	ATOM	30155	N3	GUA	541	156.799	100.690	1.172	1.00	45.70	A
ATOM	30103	O1P	CYT	539	150.883	90.750	-5.001	1.00	36.73	Al6s	ATOM	30156	C2	GUA	541	157.581	99.675	1.469	1.00	45.70	A
ATOM	30104	O2P	CYT	539	152.543	90.955	-3.042	1.00	40.49	Al6s	ATOM	30157	N2	GUA	541	158.363	99.733	2.538	1.00	45.70	A
ATOM	30105	O5'	CYT	539	150.424	92.225	-3.068	1.00	40.49	Al6s	ATOM	30158	N1	GUA	541	157.650	98.529	0.741	1.00	45.70	A
ATOM	30106	C5'	CYT	539	149.036	92.399	-3.269	1.00	40.49	Al6s	ATOM	30159	C6	GUA	541	156.909	98.264	-0.403	1.00	45.70	A
ATOM	30107	O4'	CYT	539	148.522	93.452	-2.337	1.00	40.49	Al6s	ATOM	30160	O6	GUA	541	157.060	97.188	-1.002	1.00	45.70	A
ATOM	30108	C4'	CYT	539	148.618	92.993	-0.966	1.00	40.49	Al6s	ATOM	30161	C5	GUA	541	156.049	99.332	-1.753	1.00	45.70	A
ATOM	30109	C1'	CYT	539	148.794	94.105	-0.109	1.00	40.49	Al6s	ATOM	30162	N7	GUA	541	155.128	99.467	-1.575	1.00	45.70	A
ATOM	30110	N1	CYT	539	150.044	93.919	0.619	1.00	36.73	Al6s	ATOM	30163	C8	GUA	541	154.616	100.651	-0.743	1.00	30.37	A
ATOM	30111	C6	CYT	539	151.023	93.116	0.122	1.00	36.73	Al6s	ATOM	30164	C2'	GUA	541	155.465	103.794	-0.743	1.00	30.37	A
ATOM	30112	C2	CYT	539	150.226	94.593	1.835	1.00	36.73	Al6s	ATOM	30165	O2'	GUA	541	155.728	104.789	0.211	1.00	30.37	A
ATOM	30113	O2	CYT	539	149.306	95.311	2.270	1.00	36.73	Al6s	ATOM	30166	C3'	GUA	541	154.390	104.203	-1.748	1.00	30.37	A
ATOM	30114	N3	CYT	539	151.395	94.442	2.503	1.00	36.73	Al6s	ATOM	30167	O3'	GUA	541	154.430	105.572	-2.100	1.00	30.37	A
ATOM	30115	C4	CYT	539	152.344	93.653	2.007	1.00	36.73	Al6s	ATOM	30168	P	GUA	542	155.250	106.039	-3.377	1.00	42.82	A
ATOM	30116	N4	CYT	539	153.464	93.518	2.697	1.00	36.73	Al6s	ATOM	30169	O1P	GUA	542	156.641	106.166	-2.897	1.00	40.37	A
ATOM	30117	C5	CYT	539	152.178	92.959	0.779	1.00	36.73	Al6s	ATOM	30170	O2P	GUA	542	154.591	107.179	-4.027	1.00	40.37	A
ATOM	30118	C2'	CYT	539	148.878	95.331	-1.012	1.00	40.49	Al6s	ATOM	30171	O5'	GUA	542	155.191	104.786	-4.341	1.00	42.82	A
ATOM	30119	O2'	CYT	539	147.587	95.880	-1.141	1.00	40.49	Al6s	ATOM	30172	C5'	GUA	542	155.128	104.945	-5.753	1.00	42.82	A
ATOM	30120	C3'	CYT	539	149.370	94.691	-2.293	1.00	40.49	Al6s	ATOM	30173	C4'	GUA	542	154.823	103.613	-6.372	1.00	42.82	A
ATOM	30121	O3'	CYT	539	149.144	95.474	-3.425	1.00	40.49	Al6s	ATOM	30174	O4'	GUA	542	156.006	102.793	-6.298	1.00	42.82	A
ATOM	30122	P	GUA	540	150.259	96.513	-3.881	1.00	42.68	Al6s	ATOM	30175	C1'	ADE	542	155.625	101.454	-6.107	1.00	42.82	A

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ATOM	30176	N9	ADE	542	156.679	100.726	-5.395	1.00	40.37	Al6s	ATOM	30229	O3' URI	544	155.172	100.424	-11.908	1.00	47.10	/
ATOM	30177	C4	ADE	542	157.231	100.960	-4.159	1.00	40.37	Al6s	ATOM	30230	P CYT	545	154.125	99.287	-11.508	1.00	44.15	/
ATOM	30178	N3	ADE	542	156.960	101.967	-3.319	1.00	40.37	Al6s	ATOM	30231	O1P CYT	545	153.237	99.936	-10.518	1.00	40.28	/
ATOM	30179	C2	ADE	542	157.653	101.831	-2.193	1.00	40.37	Al6s	ATOM	30232	O2P CYT	545	154.762	97.997	-11.172	1.00	40.28	/
ATOM	30180	N1	ADE	542	158.526	100.886	-1.847	1.00	40.37	Al6s	ATOM	30233	O5' CYT	545	153.358	99.030	-12.876	1.00	44.15	/
ATOM	30181	C6	ADE	542	158.794	99.901	-2.725	1.00	40.37	Al6s	ATOM	30234	C5' CYT	545	152.485	99.998	-13.466	1.00	44.15	/
ATOM	30182	N6	ADE	542	159.696	98.974	-2.398	1.00	40.37	Al6s	ATOM	30235	C4' CYT	545	151.822	99.354	-14.640	1.00	44.15	/
ATOM	30183	C5	ADE	542	158.113	99.918	-3.941	1.00	40.37	Al6s	ATOM	30236	O4' CYT	545	152.874	99.004	-15.547	1.00	44.15	/
ATOM	30184	N7	ADE	542	158.141	99.062	-5.025	1.00	40.37	Al6s	ATOM	30237	C1' CYT	545	152.635	97.714	-16.029	1.00	44.15	/
ATOM	30185	C8	ADE	542	157.290	99.592	-5.864	1.00	40.37	Al6s	ATOM	30238	N1 CYT	545	153.880	97.100	-16.455	1.00	40.28	/
ATOM	30186	C2' ADE	542	154.184	101.394	-5.581	1.00	42.82	Al6s	ATOM	30239	C6 CYT	545	155.053	97.300	-15.784	1.00	40.28	/	
ATOM	30187	O2' ADE	542	153.403	100.514	-6.353	1.00	42.82	Al6s	ATOM	30240	O2 CYT	545	153.838	96.308	-17.568	1.00	40.28	/	
ATOM	30188	C3' ADE	542	153.778	102.873	-5.558	1.00	42.82	Al6s	ATOM	30241	O2 CYT	545	152.761	96.173	-18.142	1.00	40.28	/	
ATOM	30189	O3' ADE	542	152.434	103.295	-5.868	1.00	42.82	Al6s	ATOM	30242	N3 CYT	545	154.965	95.711	-18.004	1.00	40.28	/	
ATOM	30190	P URI	543	151.769	102.996	-7.301	1.00	38.54	Al6s	ATOM	30243	C4 CYT	545	156.109	95.904	-17.353	1.00	40.28	/	
ATOM	30191	O1P URI	543	150.336	103.326	-7.145	1.00	38.54	Al6s	ATOM	30244	N4 CYT	545	157.201	95.298	-17.814	1.00	40.28	/	
ATOM	30192	O2P URI	543	152.144	101.664	-7.822	1.00	38.54	Al6s	ATOM	30245	C5 CYT	545	156.184	96.729	-16.199	1.00	40.28	/	
ATOM	30193	O5' URI	543	152.386	104.080	-8.267	1.00	38.54	Al6s	ATOM	30246	C2' CYT	545	151.829	96.940	-14.994	1.00	44.15	/	
ATOM	30194	C5' URI	543	153.081	103.677	-9.429	1.00	38.54	Al6s	ATOM	30247	O2' CYT	545	150.957	96.056	-15.638	1.00	44.15	/	
ATOM	30195	C4' URI	543	153.425	104.874	-10.273	1.00	38.54	Al6s	ATOM	30248	C3' CYT	545	151.163	96.053	-14.181	1.00	44.15	/	
ATOM	30196	O4' URI	543	152.213	105.379	-10.886	1.00	38.54	Al6s	ATOM	30249	O3' CYT	545	149.758	98.024	-14.508	1.00	44.15	/	
ATOM	30197	C1' URI	543	152.224	106.796	-10.890	1.00	38.54	Al6s	ATOM	30250	P ADE	546	148.702	99.009	-13.786	1.00	34.65	/	
ATOM	30198	N1 URI	543	151.117	107.263	-10.044	1.00	38.54	Al6s	ATOM	30251	O1P ADE	546	148.984	99.144	-12.330	1.00	41.63	/	
ATOM	30199	C6 URI	543	150.800	106.628	-8.873	1.00	38.54	Al6s	ATOM	30252	O2P ADE	546	147.365	98.542	-14.233	1.00	41.63	/	
ATOM	30200	C2 URI	543	150.404	108.357	-10.473	1.00	38.54	Al6s	ATOM	30253	O5' ADE	546	148.968	100.444	-14.424	1.00	34.65	/	
ATOM	30201	N3 URI	543	150.666	108.951	-11.504	1.00	38.54	Al6s	ATOM	30254	C5' ADE	546	148.294	101.575	-13.900	1.00	34.65	/	
ATOM	30202	O2 URI	543	149.372	108.732	-9.652	1.00	38.54	Al6s	ATOM	30255	C4' ADE	546	148.719	102.834	-14.608	1.00	34.65	/	
ATOM	30203	C4 URI	543	148.998	108.138	-8.466	1.00	38.54	Al6s	ATOM	30256	O4' ADE	546	150.014	103.261	-14.175	1.00	34.65	/	
ATOM	30204	O4 URI	543	148.070	108.616	-7.811	1.00	38.54	Al6s	ATOM	30257	C1' ADE	546	150.516	104.157	-15.128	1.00	34.65	/	
ATOM	30205	C5 URI	543	149.792	107.016	-8.092	1.00	38.54	Al6s	ATOM	30258	N9 ADE	546	151.960	104.026	-15.146	1.00	41.63	/	
ATOM	30206	C2' URI	543	153.616	107.226	-10.430	1.00	38.54	Al6s	ATOM	30259	C4 ADE	546	152.754	103.180	-15.877	1.00	41.63	/	
ATOM	30207	O2' URI	543	154.409	107.283	-11.600	1.00	38.54	Al6s	ATOM	30260	N3 ADE	546	152.371	102.282	-16.800	1.00	41.63	/	
ATOM	30208	C3' URI	543	153.982	106.065	-9.518	1.00	38.54	Al6s	ATOM	30261	C2 ADE	546	153.427	101.619	-17.271	1.00	41.63	/	
ATOM	30209	O3' URI	543	155.349	105.903	-9.084	1.00	38.54	Al6s	ATOM	30262	N1 ADE	546	154.719	101.742	-16.942	1.00	41.63	/	
ATOM	30210	P URI	544	156.505	105.448	-10.108	1.00	47.10	Al6s	ATOM	30263	C6 ADE	546	155.057	102.653	-16.003	1.00	41.63	/	
ATOM	30211	O1P URI	544	157.703	105.383	-9.250	1.00	55.20	Al6s	ATOM	30264	N6 ADE	546	156.323	102.767	-15.637	1.00	41.63	/	
ATOM	30212	O2P URI	544	156.535	106.244	-11.350	1.00	55.20	Al6s	ATOM	30265	C5 ADE	546	154.046	103.422	-15.448	1.00	41.63	/	
ATOM	30213	O5' URI	544	156.116	103.964	-10.510	1.00	47.10	Al6s	ATOM	30266	N7 ADE	546	154.069	104.427	-14.494	1.00	41.63	/	
ATOM	30214	C5' URI	544	156.389	103.454	-11.815	1.00	47.10	Al6s	ATOM	30267	C8 ADE	546	152.810	104.753	-14.356	1.00	41.63	/	
ATOM	30215	C4' URI	544	156.839	102.024	-11.704	1.00	47.10	Al6s	ATOM	30268	C2' ADE	546	149.738	103.979	-16.437	1.00	34.65	/	
ATOM	30216	O4' URI	544	158.084	101.995	-11.012	1.00	47.10	Al6s	ATOM	30269	O2' ADE	546	149.041	105.177	-16.739	1.00	34.65	/	
ATOM	30217	C1' URI	544	158.184	100.785	-10.323	1.00	47.10	Al6s	ATOM	30270	C3' ADE	546	148.794	102.815	-16.120	1.00	34.65	/	
ATOM	30218	N1 URI	544	159.115	100.950	-9.205	1.00	55.20	Al6s	ATOM	30271	O3' ADE	546	147.503	103.165	-16.571	1.00	34.65	/	
ATOM	30219	C6 URI	544	159.123	102.078	-8.438	1.00	55.20	Al6s	ATOM	30272	P CYT	547	146.978	102.672	-17.993	1.00	38.03	/	
ATOM	30220	C2 URI	544	159.994	99.925	-8.975	1.00	55.20	Al6s	ATOM	30273	O1P CYT	547	147.400	101.262	-18.137	1.00	50.62	/	
ATOM	30221	O2 URI	544	159.999	98.908	-9.641	1.00	55.20	Al6s	ATOM	30274	O2P CYT	547	147.344	103.676	-19.033	1.00	50.62	/	
ATOM	30222	N3 URI	544	160.863	100.133	-7.943	1.00	55.20	Al6s	ATOM	30275	O5' CYT	547	145.404	102.677	-17.777	1.00	38.03	/	
ATOM	30223	C4 URI	544	160.927	101.236	-7.133	1.00	55.20	Al6s	ATOM	30276	C5' CYT	547	144.501	103.167	-18.761	1.00	38.03	/	
ATOM	30224	O4 URI	544	161.726	101.257	-6.139	1.00	55.20	Al6s	ATOM	30277	C4' CYT	547	143.206	103.556	-18.090	1.00	38.03	/	
ATOM	30225	C5 URI	544	159.976	102.253	-7.438	1.00	55.20	Al6s	ATOM	30278	O4' CYT	547	142.669	102.393	-17.400	1.00	38.03	/	
ATOM	30226	C2' URI	544	156.778	100.258	-10.029	1.00	47.10	Al6s	ATOM	30279	C1' CYT	547	142.022	102.806	-16.214	1.00	38.03	/	
ATOM	30227	O2' URI	544	156.733	98.873	-10.291	1.00	47.10	Al6s	ATOM	30280	N1 CYT	547	142.596	102.093	-15.072	1.00	50.62	/	
ATOM	30228	C3' URI	544	155.886	101.148	-10.908	1.00	47.10	Al6s	ATOM	30281	C6 CYT	547	143.717	101.329	-15.200	1.00	50.62	/	

ATOM	30282	C2	CYT	547	141.970	102.222	-13.838	1.00	50.62	Al6S	ATOM	30335	P	GUA	550	149.052	109.083	-16.871	1.00	41.33	A
ATOM	30283	O2	CYT	547	140.970	102.943	-13.753	1.00	50.62	Al6S	ATOM	30336	O1P	GUA	550	149.103	110.325	-16.071	1.00	39.28	A
ATOM	30284	N3	CYT	547	142.469	101.575	-12.768	1.00	50.62	Al6S	ATOM	30337	O2P	GUA	550	148.794	109.160	-18.340	1.00	39.28	A
ATOM	30285	C4	CYT	547	143.558	100.829	-12.896	1.00	50.62	Al6S	ATOM	30338	O5'	GUA	550	150.484	108.416	-16.689	1.00	41.33	A
ATOM	30286	N4	CYT	547	144.007	100.200	-11.813	1.00	50.62	Al6S	ATOM	30339	C5'	GUA	550	151.342	108.861	-15.662	1.00	41.33	A
ATOM	30287	C5	CYT	547	144.233	100.689	-14.144	1.00	50.62	Al6S	ATOM	30340	C4'	GUA	550	152.769	108.506	-15.969	1.00	41.33	A
ATOM	30288	C2'	CYT	547	142.181	104.322	-16.095	1.00	38.03	Al6S	ATOM	30341	O4'	GUA	550	152.920	107.064	-16.006	1.00	41.33	A
ATOM	30289	O2'	CYT	547	141.020	104.923	-16.601	1.00	38.03	Al6S	ATOM	30342	C1'	GUA	550	153.986	106.724	-16.874	1.00	41.33	A
ATOM	30290	C3'	CYT	547	143.382	104.583	-16.986	1.00	38.03	Al6S	ATOM	30343	N9	GUA	550	153.502	105.753	-17.851	1.00	39.28	A
ATOM	30291	O3'	CYT	547	143.296	105.884	-17.537	1.00	38.03	Al6S	ATOM	30344	C4	GUA	550	154.266	104.876	-18.588	1.00	39.28	A
ATOM	30292	P	URI	548	144.338	107.017	-17.080	1.00	40.89	Al6S	ATOM	30345	N3	GUA	550	155.607	104.736	-18.521	1.00	39.28	A
ATOM	30293	O1P	URI	548	144.101	108.185	-17.968	1.00	52.88	Al6S	ATOM	30346	C2	GUA	550	156.044	103.801	-19.344	1.00	39.28	A
ATOM	30294	O2P	URI	548	145.705	106.423	-16.985	1.00	52.88	Al6S	ATOM	30347	N2	GUA	550	157.345	103.512	-19.394	1.00	39.28	A
ATOM	30295	O5'	URI	548	143.849	107.414	-15.622	1.00	40.89	Al6S	ATOM	30348	N1	GUA	550	155.234	103.074	-20.173	1.00	39.28	A
ATOM	30296	C5'	URI	548	142.593	108.043	-15.440	1.00	40.89	Al6S	ATOM	30349	C6	GUA	550	153.857	103.199	-20.256	1.00	39.28	A
ATOM	30297	C4'	URI	548	142.178	107.961	-14.005	1.00	40.89	Al6S	ATOM	30350	O6	GUA	550	153.223	102.479	-21.025	1.00	39.28	A
ATOM	30298	O4'	URI	548	142.037	106.568	-13.650	1.00	40.89	Al6S	ATOM	30351	C5	GUA	550	153.373	104.192	-19.378	1.00	39.28	A
ATOM	30299	C1'	URI	548	142.278	106.415	-12.261	1.00	40.89	Al6S	ATOM	30352	N7	GUA	550	152.079	104.622	-19.141	1.00	39.28	A
ATOM	30300	N1	URI	548	143.301	105.383	-12.075	1.00	52.88	Al6S	ATOM	30353	C8	GUA	550	152.205	105.544	-18.227	1.00	39.28	A
ATOM	30301	C6	URI	548	144.285	105.185	-13.008	1.00	52.88	Al6S	ATOM	30354	C2'	GUA	550	154.487	108.026	-17.512	1.00	41.33	A
ATOM	30302	C2	URI	548	143.245	104.630	-10.926	1.00	52.88	Al6S	ATOM	30355	O2'	GUA	550	155.642	108.449	-16.822	1.00	41.33	A
ATOM	30303	O2	URI	548	142.386	104.780	-10.082	1.00	52.88	Al6S	ATOM	30356	C3'	GUA	550	153.296	108.962	-17.213	1.00	41.33	A
ATOM	30304	N3	URI	548	144.241	103.693	-10.801	1.00	52.88	Al6S	ATOM	30357	O3'	GUA	550	153.698	110.322	-17.213	1.00	41.33	A
ATOM	30305	C4	URI	548	145.266	103.445	-11.696	1.00	52.88	Al6S	ATOM	30358	P	GUA	551	154.326	111.074	-18.500	1.00	41.28	A
ATOM	30306	O4	URI	548	146.093	102.572	-11.445	1.00	52.88	Al6S	ATOM	30359	O1P	GUA	551	154.748	112.419	-18.044	1.00	40.19	A
ATOM	30307	C5	URI	548	145.248	104.267	-12.860	1.00	52.88	Al6S	ATOM	30360	O2P	GUA	551	153.463	110.951	-19.706	1.00	40.19	A
ATOM	30308	C2'	URI	548	142.706	107.784	-11.729	1.00	40.89	Al6S	ATOM	30361	O5'	GUA	551	155.627	110.217	-20.789	1.00	41.28	A
ATOM	30309	O2'	URI	548	141.578	108.455	-11.198	1.00	40.89	Al6S	ATOM	30362	C5'	GUA	551	156.197	110.177	-20.089	1.00	41.28	A
ATOM	30310	C3'	URI	548	143.199	108.450	-13.001	1.00	40.89	Al6S	ATOM	30363	C4'	GUA	551	157.097	108.989	-20.193	1.00	41.28	A
ATOM	30311	O3'	URI	548	143.545	110.660	-12.885	1.00	37.78	Al6S	ATOM	30364	O4'	GUA	551	156.884	106.751	-20.831	1.00	41.28	A
ATOM	30312	P	GUA	549	144.210	112.067	-12.996	1.00	39.03	Al6S	ATOM	30365	N9	GUA	551	155.871	106.183	-21.720	1.00	40.19	A
ATOM	30313	O1P	GUA	549	145.064	110.316	-11.323	1.00	39.03	Al6S	ATOM	30366	C4	GUA	551	156.055	105.223	-22.687	1.00	40.19	A
ATOM	30314	O2P	GUA	549	145.525	110.052	-13.782	1.00	37.78	Al6S	ATOM	30367	N3	GUA	551	157.218	104.623	-23.002	1.00	40.19	A
ATOM	30315	O5'	GUA	549	146.879	110.517	-13.987	1.00	37.78	Al6S	ATOM	30368	C2	GUA	551	157.075	103.749	-23.985	1.00	40.19	A
ATOM	30317	C4'	GUA	549	147.810	109.329	-14.149	1.00	37.78	Al6S	ATOM	30370	N2	GUA	551	158.130	103.071	-24.426	1.00	40.19	A
ATOM	30318	O4'	GUA	549	147.990	108.741	-12.864	1.00	37.78	Al6S	ATOM	30371	N1	GUA	551	155.888	103.481	-24.606	1.00	40.19	A
ATOM	30319	C1'	GUA	549	147.984	107.357	-12.996	1.00	37.78	Al6S	ATOM	30372	C6	GUA	551	154.676	104.080	-24.298	1.00	40.19	A
ATOM	30320	N9	GUA	549	147.495	106.765	-11.767	1.00	39.03	Al6S	ATOM	30373	O6	GUA	551	153.661	103.761	-24.924	1.00	40.19	A
ATOM	30321	C4	GUA	549	148.004	105.646	-11.179	1.00	39.03	Al6S	ATOM	30374	C5	GUA	551	154.812	105.022	-23.246	1.00	40.19	A
ATOM	30322	N3	GUA	549	149.010	104.890	-11.666	1.00	39.03	Al6S	ATOM	30375	N7	GUA	551	153.868	105.827	-22.639	1.00	40.19	A
ATOM	30323	C2	GUA	549	149.305	103.895	-10.862	1.00	39.03	Al6S	ATOM	30376	C8	GUA	551	154.541	106.498	-21.744	1.00	40.19	A
ATOM	30324	N2	GUA	549	150.267	103.037	-11.191	1.00	39.03	Al6S	ATOM	30377	O2'	GUA	551	158.127	107.345	-21.501	1.00	41.28	A
ATOM	30325	N1	GUA	549	148.672	103.670	-9.667	1.00	39.03	Al6S	ATOM	30378	C2'	GUA	551	159.218	107.114	-20.636	1.00	41.28	A
ATOM	30326	C6	GUA	549	147.642	104.449	-9.143	1.00	39.03	Al6S	ATOM	30379	C3'	GUA	551	157.783	108.829	-21.526	1.00	41.28	A
ATOM	30327	O6	GUA	549	147.171	104.186	-8.038	1.00	39.03	Al6S	ATOM	30380	O3'	GUA	551	158.936	109.673	-21.562	1.00	41.28	A
ATOM	30328	N7	GUA	549	147.300	105.497	-10.008	1.00	39.03	Al6S	ATOM	30381	P	CYT	552	159.235	110.566	-22.873	1.00	36.60	A
ATOM	30329	C8	GUA	549	146.337	106.484	-9.885	1.00	39.03	Al6S	ATOM	30382	O1P	CYT	552	160.254	111.603	-22.577	1.00	42.11	A
ATOM	30330	C8	GUA	549	146.486	107.213	-10.956	1.00	39.03	Al6S	ATOM	30383	O2P	CYT	552	157.940	110.967	-23.468	1.00	36.60	A
ATOM	30331	C2'	GUA	549	147.272	106.961	-14.285	1.00	37.78	Al6S	ATOM	30384	O5'	CYT	552	159.903	109.527	-23.866	1.00	36.60	A
ATOM	30332	O2'	GUA	549	147.971	105.923	-14.918	1.00	37.78	Al6S	ATOM	30385	C5'	CYT	552	161.194	109.004	-23.617	1.00	36.60	A
ATOM	30333	C3'	GUA	549	147.228	108.067	-15.073	1.00	37.78	Al6S	ATOM	30386	C4'	CYT	552	161.557	108.042	-24.706	1.00	36.60	A
ATOM	30334	O3'	GUA	549	147.995	108.005	-16.268	1.00	37.78	Al6S	ATOM	30387	O4'	CYT	552	160.748	106.851	-24.585	1.00	36.60	A

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ATOM	30388	C1' CYT	552	160.498	106.325	-25.874	1.00	36.60	A16S	ATOM	30441	O2' URI	554	172.936	111.558	-24.864	1.00	35.54	/
ATOM	30389	N1' CYT	552	159.051	106.230	-26.370	1.00	42.11	A16S	ATOM	30442	C3' URI	554	171.112	110.024	-25.393	1.00	35.54	/
ATOM	30390	C6' CYT	552	158.188	107.013	-25.057	1.00	42.11	A16S	ATOM	30443	O3' URI	554	172.063	109.009	-25.157	1.00	35.54	/
ATOM	30391	C2' CYT	552	158.566	105.323	-27.012	1.00	42.11	A16S	ATOM	30444	P' ADE	555	171.570	107.512	-24.850	1.00	40.57	/
ATOM	30392	O2' CYT	552	159.378	104.623	-27.637	1.00	42.11	A16S	ATOM	30445	O1P ADE	555	172.779	106.630	-24.994	1.00	51.91	/
ATOM	30393	N3' CYT	552	157.229	105.231	-27.218	1.00	42.11	A16S	ATOM	30446	O2P ADE	555	170.327	107.204	-25.623	1.00	51.91	/
ATOM	30394	C4' CYT	552	156.397	106.003	-26.523	1.00	42.11	A16S	ATOM	30447	O5' ADE	555	171.181	107.500	-23.308	1.00	40.57	/
ATOM	30395	N4' CYT	552	155.104	105.889	-26.762	1.00	42.11	A16S	ATOM	30448	C5' ADE	555	169.911	107.936	-22.863	1.00	40.57	/
ATOM	30396	C5' CYT	552	156.864	106.932	-25.549	1.00	42.11	A16S	ATOM	30449	C4' ADE	555	169.737	107.571	-21.418	1.00	40.57	/
ATOM	30397	O2' CYT	552	161.168	107.249	-26.886	1.00	36.60	A16S	ATOM	30450	O4' ADE	555	169.045	108.611	-20.719	1.00	40.57	/
ATOM	30398	C2' CYT	552	162.440	106.724	-27.165	1.00	36.60	A16S	ATOM	30451	C1' ADE	555	168.523	108.082	-19.531	1.00	40.57	/
ATOM	30399	C3' CYT	552	161.267	108.545	-26.104	1.00	36.60	A16S	ATOM	30452	N9' ADE	555	167.266	108.767	-19.259	1.00	51.91	/
ATOM	30400	O3' CYT	552	162.385	109.279	-26.551	1.00	36.60	A16S	ATOM	30453	C4' ADE	555	167.172	109.899	-18.490	1.00	51.91	/
ATOM	30401	P' GUA	553	162.181	110.687	-27.288	1.00	39.40	A16S	ATOM	30454	N3' ADE	555	168.163	110.509	-17.825	1.00	51.91	/
ATOM	30402	O1P GUA	553	161.842	111.655	-26.217	1.00	45.11	A16S	ATOM	30455	C2' ADE	555	167.720	111.604	-17.230	1.00	51.91	/
ATOM	30403	O2P GUA	553	161.241	110.484	-28.427	1.00	45.11	A16S	ATOM	30456	N1' ADE	555	166.498	112.126	-17.232	1.00	51.91	/
ATOM	30404	O5' GUA	553	163.634	111.023	-27.876	1.00	39.40	A16S	ATOM	30457	C6' ADE	555	165.529	111.498	-17.915	1.00	51.91	/
ATOM	30405	C5' GUA	553	164.113	110.368	-29.054	1.00	39.40	A16S	ATOM	30458	N6' ADE	555	164.323	112.047	-17.934	1.00	51.91	/
ATOM	30406	C4' GUA	553	165.342	111.057	-29.591	1.00	39.40	A16S	ATOM	30459	C5' ADE	555	165.864	110.307	-18.574	1.00	51.91	/
ATOM	30407	C1' GUA	553	165.045	112.450	-29.826	1.00	39.40	A16S	ATOM	30460	N7' ADE	555	165.126	109.415	-19.336	1.00	51.91	/
ATOM	30408	C1' GUA	553	166.146	113.247	-29.427	1.00	39.40	A16S	ATOM	30461	C8' ADE	555	168.005	108.552	-19.708	1.00	51.91	/
ATOM	30409	N9' GUA	553	165.695	114.152	-28.372	1.00	45.11	A16S	ATOM	30462	C2' ADE	555	169.511	106.065	-18.729	1.00	40.57	/
ATOM	30410	C4' GUA	553	166.475	114.943	-27.562	1.00	45.11	A16S	ATOM	30463	O2' ADE	555	168.958	106.317	-21.099	1.00	40.57	/
ATOM	30411	N3' GUA	553	167.819	115.002	-27.562	1.00	45.11	A16S	ATOM	30464	C3' ADE	555	169.853	105.217	-21.164	1.00	40.57	/
ATOM	30412	C2' GUA	553	168.274	115.857	-26.658	1.00	45.11	A16S	ATOM	30465	O3' ADE	555	169.733	104.126	-22.344	1.00	37.91	/
ATOM	30413	N2' GUA	553	169.588	116.015	-26.492	1.00	45.11	A16S	ATOM	30466	P' ADE	556	170.994	103.346	-22.258	1.00	46.93	/
ATOM	30414	N1' GUA	553	167.477	116.570	-25.845	1.00	45.11	A16S	ATOM	30467	O1P ADE	556	169.325	104.725	-23.667	1.00	46.93	/
ATOM	30415	C6' GUA	553	166.094	116.570	-25.834	1.00	45.11	A16S	ATOM	30468	O2P ADE	556	168.596	103.151	-21.824	1.00	37.91	/
ATOM	30416	O6' GUA	553	165.471	117.300	-25.068	1.00	45.11	A16S	ATOM	30469	O5' ADE	556	168.830	101.765	-21.697	1.00	37.91	/
ATOM	30417	C5' GUA	553	165.591	115.641	-26.772	1.00	45.11	A16S	ATOM	30470	C5' ADE	556	167.536	101.039	-21.876	1.00	37.91	/
ATOM	30418	N7' GUA	553	164.286	115.282	-27.061	1.00	45.11	A16S	ATOM	30471	C4' ADE	556	166.692	101.192	-20.701	1.00	37.91	/
ATOM	30419	C8' GUA	553	164.396	114.397	-28.012	1.00	39.40	A16S	ATOM	30472	O4' ADE	556	165.358	101.435	-21.101	1.00	37.91	/
ATOM	30420	C2' GUA	553	167.287	112.309	-29.026	1.00	39.40	A16S	ATOM	30473	C1' ADE	556	164.958	102.724	-20.542	1.00	46.93	/
ATOM	30421	O2' GUA	553	168.131	112.092	-30.129	1.00	39.40	A16S	ATOM	30474	N9' ADE	556	163.710	103.081	-20.100	1.00	46.93	/
ATOM	30422	C3' GUA	553	167.547	111.034	-28.668	1.00	39.40	A16S	ATOM	30475	C4' ADE	556	162.585	102.358	-20.170	1.00	46.93	/
ATOM	30423	O3' GUA	553	167.365	109.927	-29.014	1.00	39.40	A16S	ATOM	30476	N3' ADE	556	161.579	104.187	-18.988	1.00	46.93	/
ATOM	30424	P' GUA	554	167.650	108.787	-27.928	1.00	35.54	A16S	ATOM	30477	C2' ADE	556	162.729	104.886	-18.924	1.00	46.93	/
ATOM	30425	O1P GUA	554	168.058	107.568	-28.664	1.00	49.26	A16S	ATOM	30478	N1' ADE	556	162.736	106.058	-18.280	1.00	46.93	/
ATOM	30426	O2P GUA	554	166.463	108.748	-27.023	1.00	49.26	A16S	ATOM	30479	C6' ADE	556	163.858	104.327	-19.525	1.00	46.93	/
ATOM	30427	O5' GUA	554	168.895	109.345	-27.101	1.00	35.54	A16S	ATOM	30480	N6' ADE	556	165.160	104.779	-19.661	1.00	46.93	/
ATOM	30428	C5' GUA	554	170.175	109.503	-27.714	1.00	35.54	A16S	ATOM	30481	C5' ADE	556	165.766	103.800	-20.281	1.00	46.93	/
ATOM	30429	C4' GUA	554	171.063	110.375	-26.864	1.00	35.54	A16S	ATOM	30482	N7' ADE	556	164.975	99.929	-22.885	1.00	37.91	/
ATOM	30430	C1' GUA	554	170.579	111.743	-26.893	1.00	35.54	A16S	ATOM	30483	C8' ADE	556	166.736	101.610	-23.024	1.00	37.91	/
ATOM	30431	C1' GUA	554	169.833	112.361	-25.643	1.00	35.54	A16S	ATOM	30484	C2' ADE	556	167.169	100.943	-24.196	1.00	37.91	/
ATOM	30432	N1' GUA	554	169.554	112.802	-25.078	1.00	49.26	A16S	ATOM	30485	O2' ADE	556	167.260	101.739	-25.585	1.00	41.87	/
ATOM	30433	C6' GUA	554	168.364	112.303	-25.528	1.00	49.26	A16S	ATOM	30486	C3' ADE	556	167.948	100.829	-26.536	1.00	48.20	/
ATOM	30434	C2' GUA	554	169.597	113.750	-24.091	1.00	49.26	A16S	ATOM	30487	O3' ADE	557	167.783	103.143	-25.383	1.00	48.20	/
ATOM	30435	O2' GUA	554	170.642	114.183	-23.642	1.00	49.26	A16S	ATOM	30488	P' ADE	557	165.747	101.765	-26.063	1.00	41.87	/
ATOM	30436	N3' GUA	554	168.377	114.176	-23.642	1.00	49.26	A16S	ATOM	30489	O1P ADE	557	165.019	100.553	-26.200	1.00	41.87	/
ATOM	30437	C4' GUA	554	167.147	113.750	-24.074	1.00	49.26	A16S	ATOM	30490	O2P ADE	557	163.555	100.853	-26.322	1.00	41.87	/
ATOM	30438	O4' GUA	554	166.138	114.350	-23.703	1.00	49.26	A16S	ATOM	30491	O5' ADE	557						
ATOM	30439	C5' GUA	554	167.192	112.730	-25.073	1.00	49.26	A16S	ATOM	30492	C5' ADE	557						
ATOM	30440	C2' GUA	554	171.551	111.340	-24.764	1.00	35.54	A16S	ATOM	30493	C4' ADE	557						

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ATOM	30494	O4' ADE	557	163.062	101.356	-25.065	1.00	41.87	Al6s	ATOM	30547	C6 GUA	559	154.892	100.155	-36.878	1.00	47.15	Al
ATOM	30495	C1' ADE	557	162.164	102.411	-25.297	1.00	41.87	Al6s	ATOM	30548	O6 GUA	559	153.921	100.932	-36.850	1.00	47.15	Al
ATOM	30496	N9 ADE	557	162.690	103.588	-24.618	1.00	48.20	Al6s	ATOM	30549	C5 GUA	559	156.240	100.411	-36.517	1.00	47.15	Al
ATOM	30497	C4 ADE	557	162.050	104.267	-23.615	1.00	48.20	Al6s	ATOM	30550	N7 GUA	559	156.821	101.556	-36.005	1.00	47.15	Al
ATOM	30498	C3 ADE	557	160.840	103.997	-23.096	1.00	48.20	Al6s	ATOM	30551	C8 GUA	559	158.084	101.259	-35.900	1.00	47.15	Al
ATOM	30499	C2 ADE	557	160.551	104.856	-22.127	1.00	48.20	Al6s	ATOM	30552	C2' GUA	559	160.557	99.824	-37.548	1.00	34.36	Al
ATOM	30500	N1 ADE	557	161.278	105.871	-21.653	1.00	48.20	Al6s	ATOM	30553	O2' GUA	559	160.521	98.881	-38.597	1.00	34.36	Al
ATOM	30501	C6 ADE	557	162.486	106.119	-22.191	1.00	48.20	Al6s	ATOM	30554	C3' GUA	559	161.955	99.950	-36.936	1.00	34.36	Al
ATOM	30502	N6 ADE	557	163.203	107.112	-21.706	1.00	48.20	Al6s	ATOM	30555	O3' GUA	559	164.141	98.477	-37.302	1.00	41.79	Al
ATOM	30503	C7 ADE	557	164.072	105.242	-23.989	1.00	48.20	Al6s	ATOM	30556	P GUA	560	164.403	97.392	-38.267	1.00	30.44	Al
ATOM	30504	N7 ADE	557	163.886	104.227	-24.799	1.00	48.20	Al6s	ATOM	30557	O1P GUA	560	164.245	98.202	-35.871	1.00	30.44	Al
ATOM	30505	C8 ADE	557	160.968	102.545	-26.807	1.00	41.87	Al6s	ATOM	30558	O2P GUA	560	165.062	99.702	-37.715	1.00	41.79	Al
ATOM	30506	C2' ADE	557	160.807	101.827	-27.188	1.00	41.87	Al6s	ATOM	30559	O5' GUA	560	164.486	100.845	-38.315	1.00	41.79	Al
ATOM	30507	C3' ADE	557	163.252	101.924	-27.346	1.00	41.87	Al6s	ATOM	30560	C4' GUA	560	165.107	101.125	-39.655	1.00	41.79	Al
ATOM	30508	C3' ADE	557	163.016	101.258	-28.581	1.00	41.87	Al6s	ATOM	30561	C4' GUA	560	165.697	99.939	-40.225	1.00	41.79	Al
ATOM	30509	O3' ADE	557	163.492	100.594	-30.889	1.00	45.49	Al6s	ATOM	30562	O4' GUA	560	164.928	98.783	-42.066	1.00	30.44	Al
ATOM	30510	P GUA	558	165.345	101.691	-29.493	1.00	45.49	Al6s	ATOM	30563	C1' GUA	560	164.416	98.539	-43.318	1.00	30.44	Al
ATOM	30511	O1P GUA	558	163.389	102.994	-30.346	1.00	37.23	Al6s	ATOM	30564	N9 GUA	560	164.420	99.397	-44.355	1.00	30.44	Al
ATOM	30512	O2P GUA	558	162.014	103.167	-30.566	1.00	37.23	Al6s	ATOM	30565	N3 GUA	560	163.866	98.870	-45.427	1.00	30.44	Al
ATOM	30513	O5' GUA	558	161.731	103.264	-32.032	1.00	37.23	Al6s	ATOM	30566	C2 GUA	560	163.770	99.583	-46.553	1.00	30.44	Al
ATOM	30514	C4' GUA	558	160.334	103.472	-32.217	1.00	37.23	Al6s	ATOM	30567	C2 GUA	560	163.364	97.609	-45.473	1.00	30.44	Al
ATOM	30515	O4' GUA	558	160.106	104.656	-32.922	1.00	37.23	Al6s	ATOM	30568	N1 GUA	560	163.356	96.712	-44.419	1.00	30.44	Al
ATOM	30516	C1' GUA	558	159.011	105.325	-32.237	1.00	45.49	Al6s	ATOM	30569	C6 GUA	560	162.894	95.585	-44.579	1.00	30.44	Al
ATOM	30517	N9 GUA	558	157.696	105.130	-32.543	1.00	45.49	Al6s	ATOM	30570	O6 GUA	560	163.925	97.262	-43.267	1.00	30.44	Al
ATOM	30518	C4 GUA	558	157.233	104.360	-33.541	1.00	45.49	Al6s	ATOM	30571	C5 GUA	560	164.100	96.717	-42.000	1.00	30.44	Al
ATOM	30519	N3 GUA	558	155.920	104.323	-33.571	1.00	45.49	Al6s	ATOM	30572	N7 GUA	560	164.699	97.660	-41.321	1.00	30.44	Al
ATOM	30520	C2 GUA	558	155.303	103.596	-34.493	1.00	45.49	Al6s	ATOM	30573	C8 GUA	560	164.751	101.217	-41.998	1.00	41.79	Al
ATOM	30521	N2 GUA	558	155.111	104.992	-32.702	1.00	45.49	Al6s	ATOM	30574	O2' GUA	560	165.548	102.264	-42.500	1.00	41.79	Al
ATOM	30522	C6 GUA	558	155.550	105.800	-31.668	1.00	45.49	Al6s	ATOM	30575	C2' GUA	560	164.061	101.499	-40.674	1.00	41.79	Al
ATOM	30523	O6 GUA	558	154.722	106.370	-30.948	1.00	45.49	Al6s	ATOM	30576	C3' GUA	560	162.067	103.122	-40.378	1.00	41.02	Al
ATOM	30524	C5 GUA	558	156.991	105.844	-31.612	1.00	45.49	Al6s	ATOM	30577	P GUA	561	162.017	104.472	-39.737	1.00	21.75	Al
ATOM	30525	N7 GUA	558	157.857	106.507	-30.745	1.00	45.49	Al6s	ATOM	30578	O1P GUA	561	161.372	101.962	-39.725	1.00	21.75	Al
ATOM	30526	C8 GUA	558	159.046	106.177	-31.167	1.00	45.49	Al6s	ATOM	30579	C2' GUA	561	161.628	103.211	-41.904	1.00	41.02	Al
ATOM	30527	N7 GUA	558	161.432	105.346	-33.271	1.00	37.23	Al6s	ATOM	30580	O2P GUA	561	162.115	104.257	-42.717	1.00	41.02	Al
ATOM	30528	C8 GUA	558	161.559	105.604	-34.643	1.00	37.23	Al6s	ATOM	30581	C5' GUA	561	161.766	104.007	-44.158	1.00	41.02	Al
ATOM	30529	O2' GUA	558	162.472	104.407	-32.660	1.00	37.23	Al6s	ATOM	30582	C4' GUA	561	162.382	102.771	-44.589	1.00	41.02	Al
ATOM	30530	C3' GUA	558	163.540	103.847	-33.444	1.00	34.36	Al6s	ATOM	30583	O1' GUA	561	161.594	102.182	-45.599	1.00	41.02	Al
ATOM	30531	O3' GUA	559	164.572	102.299	-34.978	1.00	47.15	Al6s	ATOM	30584	C1' GUA	561	161.164	100.878	-45.117	1.00	21.75	Al
ATOM	30532	P GUA	559	162.699	103.759	-35.900	1.00	47.15	Al6s	ATOM	30585	N1 GUA	561	161.340	100.513	-43.816	1.00	21.75	Al
ATOM	30533	O1P GUA	559	162.227	101.782	-34.437	1.00	34.36	Al6s	ATOM	30586	C6 GUA	561	160.592	99.998	-46.023	1.00	21.75	Al
ATOM	30534	O5' GUA	559	162.622	100.384	-34.462	1.00	34.36	Al6s	ATOM	30587	C2 GUA	561	160.410	100.385	-47.177	1.00	21.75	Al
ATOM	30535	C5' GUA	559	161.802	99.569	-35.472	1.00	34.36	Al6s	ATOM	30588	O2 GUA	561	160.247	98.757	-45.624	1.00	21.75	Al
ATOM	30536	C4' GUA	559	160.401	99.655	-35.191	1.00	34.36	Al6s	ATOM	30589	C3 GUA	561	160.450	98.394	-44.363	1.00	21.75	Al
ATOM	30537	O4' GUA	559	159.690	99.991	-36.371	1.00	34.36	Al6s	ATOM	30590	C4 GUA	561	160.124	97.158	-44.017	1.00	21.75	Al
ATOM	30538	C1' GUA	559	158.372	99.991	-36.313	1.00	47.15	Al6s	ATOM	30591	N4 GUA	561	160.005	99.128	-43.400	1.00	21.75	Al
ATOM	30539	N9 GUA	559	157.180	99.426	-36.687	1.00	47.15	Al6s	ATOM	30592	C5 GUA	561	160.429	103.125	-45.855	1.00	41.02	Al
ATOM	30540	C4 GUA	559	157.004	98.176	-37.142	1.00	47.15	Al6s	ATOM	30593	C2' GUA	561	160.821	104.078	-46.821	1.00	41.02	Al
ATOM	30541	N3 GUA	559	155.735	97.937	-37.445	1.00	47.15	Al6s	ATOM	30594	O2' GUA	561	159.610	105.017	-44.626	1.00	41.02	Al
ATOM	30542	C2 GUA	559	154.370	96.731	-37.890	1.00	47.15	Al6s	ATOM	30595	C3' GUA	561	158.047	105.072	-44.294	1.00	50.88	Al
ATOM	30543	N2 GUA	559	154.728	98.857	-37.333	1.00	47.15	Al6s	ATOM	30596	O3' GUA	561						
ATOM	30544	N1 GUA	559							ATOM	30597	P GUA	562						
ATOM	30545									ATOM	30598								
ATOM	30546									ATOM	30599								

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ATOM	30600	O1P	GUA	562	157.713	106.518	-44.269	1.00	42.61	Al6S	ATOM	30653	C2	GUA	564	149.941	96.920	-43.882	1.00	39.79	A
ATOM	30601	O2P	GUA	562	157.803	104.227	-43.095	1.00	42.61	Al6S	ATOM	30654	N2	GUA	564	149.961	95.742	-43.225	1.00	39.79	A
ATOM	30602	O5	GUA	562	157.325	104.362	-45.527	1.00	50.88	Al6S	ATOM	30655	N1	GUA	564	150.374	98.022	-43.191	1.00	39.79	A
ATOM	30603	C5	GUA	562	157.420	104.909	-46.828	1.00	50.88	Al6S	ATOM	30656	C6	GUA	564	150.405	99.317	-43.691	1.00	39.79	A
ATOM	30604	C4	GUA	562	157.168	103.846	-47.873	1.00	50.88	Al6S	ATOM	30657	O6	GUA	564	150.803	100.239	-42.986	1.00	39.79	A
ATOM	30605	O4	GUA	562	157.825	102.620	-47.470	1.00	50.88	Al6S	ATOM	30658	C5	GUA	564	149.941	99.375	-45.008	1.00	39.79	A
ATOM	30606	C1	GUA	562	157.179	101.528	-48.088	1.00	50.88	Al6S	ATOM	30659	N7	GUA	564	149.796	100.462	-45.863	1.00	39.79	A
ATOM	30607	N9	GUA	562	156.961	100.483	-47.098	1.00	42.61	Al6S	ATOM	30660	C8	GUA	564	149.324	99.941	-46.965	1.00	39.79	A
ATOM	30608	C4	GUA	562	156.487	99.231	-47.353	1.00	42.61	Al6S	ATOM	30661	C2	GUA	564	147.152	97.326	-47.650	1.00	51.50	A
ATOM	30609	N3	GUA	562	156.114	98.767	-48.558	1.00	42.61	Al6S	ATOM	30662	O2	GUA	564	146.918	96.011	-48.109	1.00	51.50	A
ATOM	30610	C2	GUA	562	155.703	97.513	-48.499	1.00	42.61	Al6S	ATOM	30663	C3	GUA	564	146.448	98.381	-48.489	1.00	51.50	A
ATOM	30611	N2	GUA	562	155.281	96.900	-49.614	1.00	42.61	Al6S	ATOM	30664	O3	GUA	564	145.172	97.894	-48.894	1.00	51.50	A
ATOM	30612	N1	GUA	562	155.044	96.769	-47.345	1.00	42.61	Al6S	ATOM	30665	P	URI	565	143.890	98.096	-47.943	1.00	51.20	A
ATOM	30613	C6	GUA	562	155.961	96.471	-46.086	1.00	42.61	Al6S	ATOM	30666	O1P	URI	565	142.769	98.294	-48.887	1.00	41.98	A
ATOM	30614	O6	GUA	562	156.486	98.581	-46.139	1.00	42.61	Al6S	ATOM	30667	O5	URI	565	144.168	99.123	-46.893	1.00	41.98	A
ATOM	30615	C5	GUA	562	156.938	99.420	-45.132	1.00	42.61	Al6S	ATOM	30668	O5	URI	565	143.715	96.686	-47.222	1.00	51.20	A
ATOM	30616	N7	GUA	562	157.204	100.539	-45.748	1.00	42.61	Al6S	ATOM	30669	C5	URI	565	143.506	95.511	-47.974	1.00	51.20	A
ATOM	30617	C8	GUA	562	155.911	102.054	-50.145	1.00	50.88	Al6S	ATOM	30670	C4	URI	565	144.702	93.907	-46.592	1.00	51.20	A
ATOM	30618	C2	GUA	562	156.159	102.208	-50.145	1.00	50.88	Al6S	ATOM	30671	O4	URI	565	144.578	93.318	-45.306	1.00	51.20	A
ATOM	30619	O2	GUA	562	155.729	103.404	-48.082	1.00	50.88	Al6S	ATOM	30672	C1	URI	565	145.340	94.124	-44.346	1.00	41.98	A
ATOM	30620	C3	GUA	562	155.061	104.429	-49.845	1.00	45.70	Al6S	ATOM	30673	N1	URI	565	145.793	95.385	-44.649	1.00	41.98	A
ATOM	30621	P	URI	563	153.454	104.429	-49.845	1.00	45.70	Al6S	ATOM	30674	C6	URI	565	145.572	92.564	-43.121	1.00	41.98	A
ATOM	30622	O1P	URI	563	153.026	104.495	-47.487	1.00	51.02	Al6S	ATOM	30675	O2	URI	565	146.743	95.626	-42.467	1.00	41.98	A
ATOM	30623	O2P	URI	563	152.950	103.027	-49.472	1.00	45.70	Al6S	ATOM	30676	C4	URI	565	147.331	96.226	-41.566	1.00	41.98	A
ATOM	30624	O5	URI	563	152.834	102.782	-50.871	1.00	45.70	Al6S	ATOM	30677	N3	URI	565	146.470	96.135	-43.777	1.00	41.98	A
ATOM	30625	C5	URI	563	152.329	101.375	-51.103	1.00	45.70	Al6S	ATOM	30678	O4	URI	565	143.094	93.341	-44.955	1.00	51.20	A
ATOM	30626	O4	URI	563	153.243	100.440	-50.461	1.00	45.70	Al6S	ATOM	30679	C5	URI	565	142.510	92.124	-45.366	1.00	51.20	A
ATOM	30627	C4	URI	563	152.528	99.308	-49.997	1.00	45.70	Al6S	ATOM	30680	O2	URI	565	142.625	94.504	-45.990	1.00	51.20	A
ATOM	30628	O4	URI	563	152.718	99.210	-48.545	1.00	51.02	Al6S	ATOM	30681	C2	URI	565	141.233	94.504	-45.990	1.00	51.20	A
ATOM	30629	N1	URI	563	152.222	100.263	-47.828	1.00	51.02	Al6S	ATOM	30682	O2	URI	565	140.291	95.396	-45.052	1.00	41.52	A
ATOM	30630	C6	URI	563	152.386	98.019	-47.925	1.00	51.02	Al6S	ATOM	30683	C3	URI	565	138.944	95.385	-45.665	1.00	41.52	A
ATOM	30631	C2	URI	563	152.620	97.985	-46.574	1.00	51.02	Al6S	ATOM	30684	O3	URI	566	140.976	96.694	-44.795	1.00	41.52	A
ATOM	30632	O2	URI	563	153.142	98.999	-45.799	1.00	51.02	Al6S	ATOM	30685	P	ADE	566	140.248	94.605	-43.674	1.00	46.73	A
ATOM	30633	N3	URI	563	153.379	98.794	-44.610	1.00	51.02	Al6S	ATOM	30686	O1P	ADE	566	139.766	93.280	-43.616	1.00	46.73	A
ATOM	30634	C4	URI	563	153.440	100.200	-46.512	1.00	51.02	Al6S	ATOM	30687	O2P	ADE	566	140.059	92.706	-42.267	1.00	46.73	A
ATOM	30635	O4	URI	563	151.074	99.505	-50.409	1.00	45.70	Al6S	ATOM	30688	O5	ADE	566	141.821	92.657	-42.090	1.00	46.73	A
ATOM	30636	C5	URI	563	150.876	98.898	-51.674	1.00	45.70	Al6S	ATOM	30689	C5	ADE	566	142.626	94.168	-40.744	1.00	41.52	A
ATOM	30637	O2	URI	563	150.990	101.024	-50.473	1.00	45.70	Al6S	ATOM	30690	C4	ADE	566	143.418	94.645	-39.729	1.00	41.52	A
ATOM	30638	C3	URI	563	149.898	101.451	-51.277	1.00	45.70	Al6S	ATOM	30691	O1	ADE	566	143.616	94.100	-38.516	1.00	41.52	A
ATOM	30639	O2	URI	563	148.573	102.038	-50.577	1.00	39.79	Al6S	ATOM	30692	C1	ADE	566	144.452	94.846	-37.799	1.00	41.52	A
ATOM	30640	C3	URI	563	147.657	102.441	-49.565	1.00	39.79	Al6S	ATOM	30693	N9	ADE	566	145.063	95.981	-38.132	1.00	41.52	A
ATOM	30641	O3	URI	564	147.334	99.731	-50.520	1.00	51.50	Al6S	ATOM	30694	C4	ADE	566	143.978	96.060	-41.501	1.00	41.52	A
ATOM	30642	O1P	GUA	564	147.942	100.795	-49.805	1.00	51.50	Al6S	ATOM	30695	N3	ADE	566	145.458	97.625	-39.711	1.00	41.52	A
ATOM	30643	O2P	GUA	564	147.363	98.466	-49.699	1.00	51.50	Al6S	ATOM	30696	C2	ADE	566	146.448	98.381	-48.489	1.00	51.50	A
ATOM	30644	O5	GUA	564	148.688	98.335	-49.137	1.00	51.50	Al6S	ATOM	30697	N1	ADE	566	142.769	98.294	-48.887	1.00	41.98	A
ATOM	30645	C4	GUA	564	148.616	97.680	-47.892	1.00	51.50	Al6S	ATOM	30698	C6	ADE	566	143.506	95.511	-47.974	1.00	51.20	A
ATOM	30646	O4	GUA	564	149.141	98.579	-46.875	1.00	39.79	Al6S	ATOM	30699	N6	ADE	566	144.168	99.123	-46.893	1.00	41.98	A
ATOM	30647	C1	GUA	564	149.539	98.212	-45.618	1.00	39.79	Al6S	ATOM	30700	C5	ADE	566	143.394	94.317	-47.062	1.00	51.20	A
ATOM	30648	N9	GUA	564	149.514	96.963	-45.121	1.00	39.79	Al6S	ATOM	30701	C8	ADE	566	144.578	93.318	-45.306	1.00	51.20	A
ATOM	30649	C4	GUA	564							ATOM	30702	N7	ADE	566	145.340	94.124	-44.346	1.00	41.98	A
ATOM	30650	N3	GUA	564							ATOM	30703	C2	ADE	566	145.793	95.385	-44.649	1.00	41.98	A
ATOM	30651	C4	GUA	564							ATOM	30704	O2	ADE	566	145.572	92.564	-43.121	1.00	41.98	A
ATOM	30652	N3	GUA	564							ATOM	30705	C3	ADE	566	146.743	95.626	-42.467	1.00	41.98	A

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ATOM	30706	O3	ADE	566	138.248	93.277	-40.825	1.00	46.73	Al6S	ATOM	30759	O4	CYT	569	139.275	105.303	-34.369	1.00	42.50	Al
ATOM	30707	P	GUA	567	137.280	94.454	-40.342	1.00	46.14	Al6S	ATOM	30760	C1	CYT	569	139.424	106.159	-35.489	1.00	42.50	Al
ATOM	30708	O1P	GUA	567	136.048	93.791	-39.829	1.00	42.59	Al6S	ATOM	30761	N1	CYT	569	138.993	105.459	-36.682	1.00	31.72	Al
ATOM	30709	O2P	GUA	567	137.189	95.483	-41.420	1.00	42.59	Al6S	ATOM	30762	C6	CYT	569	138.279	104.301	-36.611	1.00	31.72	Al
ATOM	30710	O5	GUA	567	138.018	95.078	-39.083	1.00	46.14	Al6S	ATOM	30763	C2	CYT	569	139.297	106.025	-37.899	1.00	31.72	Al
ATOM	30711	C5	GUA	567	138.075	94.349	-37.873	1.00	46.14	Al6S	ATOM	30764	O2	CYT	569	139.990	107.037	-37.914	1.00	31.72	Al
ATOM	30712	C4	GUA	567	139.012	95.016	-36.909	1.00	46.14	Al6S	ATOM	30765	N3	CYT	569	138.832	105.462	-39.028	1.00	31.72	Al
ATOM	30713	O4	GUA	567	140.321	95.151	-37.519	1.00	46.14	Al6S	ATOM	30766	C4	CYT	569	138.088	104.360	-38.958	1.00	31.72	Al
ATOM	30714	C1	GUA	567	140.959	96.305	-37.009	1.00	46.14	Al6S	ATOM	30767	N4	CYT	569	137.595	103.870	-40.090	1.00	31.72	Al
ATOM	30715	N9	GUA	567	141.238	97.200	-38.123	1.00	42.59	Al6S	ATOM	30768	C5	CYT	569	137.805	103.722	-37.719	1.00	31.72	Al
ATOM	30716	C4	GUA	567	142.051	98.298	-38.088	1.00	42.59	Al6S	ATOM	30769	C2	CYT	569	139.276	108.437	-34.782	1.00	42.50	Al
ATOM	30717	N3	GUA	567	142.738	98.736	-37.016	1.00	42.59	Al6S	ATOM	30770	O2	CYT	569	137.521	106.775	-34.253	1.00	42.50	Al
ATOM	30718	C2	GUA	567	143.443	99.812	-37.290	1.00	42.59	Al6S	ATOM	30771	C3	CYT	569	136.816	107.784	-33.541	1.00	42.50	Al
ATOM	30719	N2	GUA	567	143.475	100.315	-38.521	1.00	42.59	Al6S	ATOM	30772	O3	CYT	569	135.339	108.196	-34.026	1.00	50.26	Al
ATOM	30720	N1	GUA	567	144.187	100.474	-36.333	1.00	42.59	Al6S	ATOM	30773	P	GUA	570	134.759	109.148	-33.045	1.00	41.35	Al
ATOM	30721	C6	GUA	567	142.781	99.975	-39.644	1.00	42.59	Al6S	ATOM	30774	O1P	GUA	570	134.611	106.952	-34.356	1.00	41.35	Al
ATOM	30722	O6	GUA	567	142.893	100.584	-40.721	1.00	42.59	Al6S	ATOM	30775	O2P	GUA	570	136.417	110.138	-35.402	1.00	50.26	Al
ATOM	30723	C5	GUA	567	142.015	98.820	-39.358	1.00	42.59	Al6S	ATOM	30776	O5	GUA	570	135.591	108.985	-35.378	1.00	50.26	Al
ATOM	30724	N7	GUA	567	141.193	98.066	-40.175	1.00	42.59	Al6S	ATOM	30777	C5	GUA	570	136.403	110.717	-36.781	1.00	50.26	Al
ATOM	30725	C8	GUA	567	140.753	97.115	-39.399	1.00	42.59	Al6S	ATOM	30778	C4	GUA	570	136.830	109.694	-37.690	1.00	50.26	Al
ATOM	30726	C2	GUA	567	139.999	96.923	-35.997	1.00	46.14	Al6S	ATOM	30779	O4	GUA	570	136.174	109.858	-38.917	1.00	50.26	Al
ATOM	30727	O2	GUA	567	140.259	96.359	-34.733	1.00	46.14	Al6S	ATOM	30780	C1	GUA	570	135.881	108.528	-39.419	1.00	41.35	Al
ATOM	30728	C3	GUA	567	138.668	96.440	-36.542	1.00	46.14	Al6S	ATOM	30781	N9	GUA	570	135.716	108.160	-40.730	1.00	41.35	Al
ATOM	30729	O3	GUA	567	137.666	96.463	-35.549	1.00	46.14	Al6S	ATOM	30782	C4	GUA	570	135.827	108.970	-41.803	1.00	41.35	Al
ATOM	30730	P	GUA	568	136.850	97.813	-35.282	1.00	38.57	Al6S	ATOM	30783	N3	GUA	570	135.583	108.326	-42.928	1.00	41.35	Al
ATOM	30731	O1P	GUA	568	135.958	97.473	-34.140	1.00	39.32	Al6S	ATOM	30784	C2	GUA	570	135.626	108.970	-44.099	1.00	41.35	Al
ATOM	30732	O2P	GUA	568	137.971	98.846	-34.799	1.00	38.57	Al6S	ATOM	30785	N2	GUA	570	135.268	107.000	-42.985	1.00	41.35	Al
ATOM	30733	O5	GUA	568	138.484	98.792	-33.473	1.00	38.57	Al6S	ATOM	30786	N1	GUA	570	135.137	106.158	-41.887	1.00	41.35	Al
ATOM	30734	C5	GUA	568	139.317	100.015	-33.174	1.00	38.57	Al6S	ATOM	30787	C6	GUA	570	134.807	104.986	-42.045	1.00	41.35	Al
ATOM	30735	C4	GUA	568	140.484	100.008	-34.028	1.00	38.57	Al6S	ATOM	30788	O6	GUA	570	135.401	106.823	-40.693	1.00	41.35	Al
ATOM	30736	O4	GUA	568	140.796	101.322	-34.436	1.00	38.57	Al6S	ATOM	30789	C5	GUA	570	135.402	106.351	-39.390	1.00	41.35	Al
ATOM	30737	C1	GUA	568	140.564	101.378	-35.870	1.00	39.32	Al6S	ATOM	30790	N7	GUA	570	134.957	110.778	-38.726	1.00	50.26	Al
ATOM	30738	N9	GUA	568	141.064	102.286	-36.777	1.00	39.32	Al6S	ATOM	30791	C8	GUA	570	133.658	113.355	-37.477	1.00	43.37	Al
ATOM	30739	C4	GUA	568	141.887	103.326	-36.504	1.00	39.32	Al6S	ATOM	30792	C2	GUA	570	134.990	111.897	-39.596	1.00	50.26	Al
ATOM	30741	C2	GUA	568	142.156	104.045	-37.595	1.00	39.32	Al6S	ATOM	30793	O2	GUA	570	135.012	111.125	-37.236	1.00	50.26	Al
ATOM	30742	N2	GUA	568	142.931	105.141	-37.513	1.00	39.32	Al6S	ATOM	30794	C3	GUA	570	134.935	112.530	-37.003	1.00	50.26	Al
ATOM	30743	N1	GUA	568	140.840	102.670	-39.145	1.00	39.32	Al6S	ATOM	30795	O3	GUA	571	133.658	113.355	-37.477	1.00	43.37	Al
ATOM	30744	C6	GUA	568	140.462	102.485	-40.301	1.00	39.32	Al6S	ATOM	30796	P	GUA	571	133.393	114.330	-36.388	1.00	52.42	Al
ATOM	30745	O6	GUA	568	140.532	101.912	-37.993	1.00	39.32	Al6S	ATOM	30797	O1P	GUA	571	132.612	112.365	-37.869	1.00	52.42	Al
ATOM	30746	C5	GUA	568	139.732	100.788	-37.855	1.00	39.32	Al6S	ATOM	30798	O2P	GUA	571	134.140	114.170	-38.755	1.00	43.37	Al
ATOM	30747	N7	GUA	568	139.784	100.508	-36.583	1.00	39.32	Al6S	ATOM	30799	O5	GUA	571	135.130	115.182	-38.627	1.00	43.37	Al
ATOM	30748	C8	GUA	568	139.882	102.242	-33.635	1.00	38.57	Al6S	ATOM	30801	C4	GUA	571	134.859	116.334	-39.573	1.00	43.37	Al
ATOM	30749	C2	GUA	568	140.486	102.510	-32.389	1.00	38.57	Al6S	ATOM	30802	O4	GUA	571	134.922	115.912	-40.955	1.00	43.37	Al
ATOM	30750	O2	GUA	568	138.667	101.354	-33.451	1.00	38.57	Al6S	ATOM	30803	C1	GUA	571	133.393	115.982	-42.667	1.00	43.37	Al
ATOM	30751	C3	GUA	568	137.904	101.779	-32.328	1.00	38.57	Al6S	ATOM	30804	N9	GUA	571	132.558	116.452	-43.655	1.00	52.42	Al
ATOM	30752	O3	GUA	569	136.578	102.674	-32.551	1.00	42.50	Al6S	ATOM	30805	C3	GUA	571	132.335	117.747	-43.960	1.00	52.42	Al
ATOM	30753	P	CYT	569	136.032	102.990	-31.189	1.00	31.72	Al6S	ATOM	30806	N4	GUA	571	131.470	117.880	-44.953	1.00	52.42	Al
ATOM	30754	O1P	CYT	569	135.718	101.994	-33.564	1.00	31.72	Al6S	ATOM	30807	C2	GUA	571	131.112	119.100	-45.370	1.00	52.42	Al
ATOM	30755	O2P	CYT	569	137.116	104.006	-33.231	1.00	42.50	Al6S	ATOM	30808	N2	GUA	571	130.886	116.829	-45.602	1.00	52.42	Al
ATOM	30756	O5	CYT	569	137.855	104.935	-32.477	1.00	42.50	Al6S	ATOM	30809	N1	GUA	571	131.106	115.490	-45.310	1.00	52.42	Al
ATOM	30757	C5	CYT	569	139.458	105.969	-33.377	1.00	42.50	Al6S	ATOM	30810	O6	GUA	571	130.528	114.620	-45.961	1.00	52.42	Al
ATOM	30758	C4	CYT	569						Al6S	ATOM	30811	C6	GUA	571						Al

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ATOM	30812	C5	GUU	571	132.019	115.330	-44.241	1.00	52.42	A16S	ATOM	30865	O4' URI	574	119.066	118.795	-42.024	1.00	56.90	
ATOM	30813	N7	GUU	571	132.497	114.179	-43.633	1.00	52.42	A16S	ATOM	30866	C1' URI	574	118.498	117.530	-42.333	1.00	56.90	
ATOM	30814	C8	GUU	571	133.302	114.614	-42.703	1.00	52.42	A16S	ATOM	30867	N1 URI	574	119.498	116.487	-42.083	1.00	72.59	
ATOM	30815	C2' GUU	571	133.452	117.727	-40.852	1.00	43.37	A16S	ATOM	30868	C6 URI	574	120.593	116.711	-41.295	1.00	72.59		
ATOM	30816	O2' GUU	571	134.161	118.942	-40.778	1.00	43.37	A16S	ATOM	30869	C2 URI	574	119.278	115.257	-42.663	1.00	72.59		
ATOM	30817	C3' GUU	571	133.484	116.970	-39.528	1.00	43.37	A16S	ATOM	30870	O2 URI	574	118.329	115.026	-43.385	1.00	72.59		
ATOM	30818	O3' GUU	571	133.415	117.869	-38.430	1.00	43.37	A16S	ATOM	30871	N3 URI	574	120.207	114.305	-42.372	1.00	72.59		
ATOM	30819	P	GUU	572	131.988	118.332	-37.860	1.00	51.72	A16S	ATOM	30872	C4 URI	574	121.307	114.452	-41.586	1.00	72.59	
ATOM	30820	O1P	GUU	572	132.280	119.414	-36.875	1.00	39.77	A16S	ATOM	30873	O4 URI	574	122.017	113.474	-41.375	1.00	72.59	
ATOM	30821	O2P	GUU	572	131.200	117.149	-37.443	1.00	39.77	A16S	ATOM	30874	C5 URI	574	121.484	115.762	-41.033	1.00	72.59	
ATOM	30822	O5' GUU	572	131.261	118.967	-39.124	1.00	51.72	A16S	ATOM	30875	C2' URI	574	117.289	117.337	-41.420	1.00	56.90		
ATOM	30823	C5' GUU	572	131.279	120.370	-39.329	1.00	51.72	A16S	ATOM	30876	O2' URI	574	116.112	117.717	-42.103	1.00	56.90		
ATOM	30824	C4' GUU	572	130.188	120.779	-40.288	1.00	51.72	A16S	ATOM	30877	C3' URI	574	117.635	118.272	-40.271	1.00	56.90		
ATOM	30825	O4' GUU	572	130.417	120.166	-41.580	1.00	51.72	A16S	ATOM	30878	O3' URI	574	116.463	118.647	-39.572	1.00	56.90		
ATOM	30826	C1' GUU	572	129.185	120.059	-42.262	1.00	51.72	A16S	ATOM	30879	P	GUU	575	115.988	117.767	-38.321	1.00	62.36	
ATOM	30827	N1	GUU	572	128.995	118.674	-42.672	1.00	39.77	A16S	ATOM	30880	O1P	GUU	575	114.870	118.497	-37.677	1.00	56.23
ATOM	30828	C6	GUU	572	129.544	117.643	-41.971	1.00	39.77	A16S	ATOM	30881	O2P	GUU	575	117.202	117.435	-37.526	1.00	56.23
ATOM	30829	C2	GUU	572	128.224	118.430	-43.796	1.00	39.77	A16S	ATOM	30882	O5' GUU	575	115.423	116.427	-38.977	1.00	62.36	
ATOM	30830	O2	GUU	572	127.767	119.396	-44.112	1.00	39.77	A16S	ATOM	30883	C5' GUU	575	114.208	116.434	-39.710	1.00	62.36	
ATOM	30831	N3	GUU	572	127.998	117.158	-44.189	1.00	39.77	A16S	ATOM	30884	C4' GUU	575	113.928	115.064	-40.281	1.00	62.36	
ATOM	30832	C4	GUU	572	128.523	116.152	-43.436	1.00	39.77	A16S	ATOM	30885	O4' GUU	575	114.985	114.707	-41.207	1.00	62.36	
ATOM	30833	N4	GUU	572	128.265	114.910	-43.905	1.00	39.77	A16S	ATOM	30886	C1' GUU	575	115.156	113.295	-41.216	1.00	62.36	
ATOM	30834	C5	GUU	572	129.337	116.375	-42.345	1.00	39.77	A16S	ATOM	30887	N9	GUU	575	116.527	112.996	-40.825	1.00	56.23
ATOM	30835	O2' GUU	572	128.085	120.513	-41.304	1.00	51.72	A16S	ATOM	30888	C4	GUU	575	117.191	111.809	-41.008	1.00	56.23	
ATOM	30836	O2' GUU	572	127.793	121.866	-41.575	1.00	51.72	A16S	ATOM	30889	N3	GUU	575	116.713	110.721	-41.645	1.00	56.23	
ATOM	30837	C3' GUU	572	128.768	120.354	-39.956	1.00	51.72	A16S	ATOM	30890	C2	GUU	575	117.581	109.725	-41.642	1.00	56.23	
ATOM	30838	O3' GUU	572	128.182	121.239	-39.014	1.00	51.72	A16S	ATOM	30891	N2	GUU	575	117.287	108.574	-42.256	1.00	56.23	
ATOM	30839	P	GUU	573	126.791	120.845	-38.314	1.00	50.23	A16S	ATOM	30892	N1	GUU	575	118.808	109.785	-41.040	1.00	56.23
ATOM	30840	O1P	GUU	573	126.459	121.928	-37.348	1.00	50.59	A16S	ATOM	30893	C6	GUU	575	119.316	110.886	-40.360	1.00	56.23
ATOM	30841	O2P	GUU	573	126.893	119.446	-37.832	1.00	50.59	A16S	ATOM	30894	O6	GUU	575	120.430	110.816	-39.809	1.00	56.23
ATOM	30842	O5' GUU	573	125.744	120.835	-39.521	1.00	50.23	A16S	ATOM	30895	C5	GUU	575	118.409	111.975	-40.390	1.00	56.23	
ATOM	30843	C5' GUU	573	125.127	122.037	-39.966	1.00	50.23	A16S	ATOM	30896	N7	GUU	575	118.528	113.258	-39.873	1.00	56.23	
ATOM	30844	C4' GUU	573	123.962	121.730	-40.881	1.00	50.23	A16S	ATOM	30897	C8	GUU	575	117.392	113.829	-40.163	1.00	62.36	
ATOM	30845	O4' GUU	573	124.449	121.079	-42.082	1.00	50.23	A16S	ATOM	30898	C2' GUU	575	114.154	112.716	-40.216	1.00	62.36		
ATOM	30846	C1' GUU	573	123.446	120.220	-42.597	1.00	50.23	A16S	ATOM	30899	O2' GUU	575	112.985	112.320	-40.899	1.00	62.36		
ATOM	30847	N1	GUU	573	123.978	118.859	-42.679	1.00	50.59	A16S	ATOM	30900	C3' GUU	575	113.921	113.908	-39.299	1.00	62.36	
ATOM	30848	C6	GUU	573	125.111	118.499	-42.011	1.00	50.59	A16S	ATOM	30901	O3' GUU	575	112.669	113.805	-38.640	1.00	62.36	
ATOM	30849	C2	GUU	573	123.279	117.926	-43.427	1.00	50.59	A16S	ATOM	30902	P	GUU	576	112.539	112.898	-37.321	1.00	53.81
ATOM	30850	O2	GUU	573	122.291	118.299	-44.068	1.00	50.59	A16S	ATOM	30903	O1P	GUU	576	111.155	113.070	-36.817	1.00	61.66
ATOM	30851	N3	GUU	573	123.690	116.646	-43.444	1.00	50.59	A16S	ATOM	30904	O2P	GUU	576	113.684	113.195	-36.419	1.00	61.66
ATOM	30852	C4	GUU	573	124.771	116.289	-42.757	1.00	50.59	A16S	ATOM	30905	O5' GUU	576	112.694	111.408	-37.873	1.00	53.81	
ATOM	30853	N4	GUU	573	125.116	115.000	-42.768	1.00	50.59	A16S	ATOM	30906	C5' GUU	576	111.675	110.819	-38.661	1.00	53.81	
ATOM	30854	C5	GUU	573	125.540	117.233	-42.020	1.00	50.59	A16S	ATOM	30907	C4' GUU	576	111.979	109.366	-38.915	1.00	53.81	
ATOM	30855	O2' GUU	573	122.254	120.282	-41.641	1.00	50.23	A16S	ATOM	30908	O4' GUU	576	113.120	109.236	-39.797	1.00	53.81		
ATOM	30856	O2' GUU	573	121.293	121.174	-42.157	1.00	50.23	A16S	ATOM	30909	C1' GUU	576	113.841	108.061	-39.471	1.00	53.81		
ATOM	30857	C3' GUU	573	122.914	120.764	-40.354	1.00	50.23	A16S	ATOM	30910	N9	GUU	576	115.162	108.463	-39.011	1.00	61.66	
ATOM	30858	O3' GUU	573	121.976	121.398	-39.484	1.00	50.23	A16S	ATOM	30911	C4	GUU	576	116.250	107.650	-38.830	1.00	61.66	
ATOM	30859	P	GUU	574	121.097	120.499	-38.477	1.00	56.90	A16S	ATOM	30912	N3	GUU	576	116.305	106.329	-39.092	1.00	61.66
ATOM	30860	O1P	GUU	574	120.293	121.417	-37.634	1.00	72.59	A16S	ATOM	30913	C2	GUU	576	117.492	105.819	-38.809	1.00	61.66
ATOM	30861	O2P	GUU	574	122.005	119.527	-37.825	1.00	72.59	A16S	ATOM	30914	N2	GUU	576	117.728	104.517	-39.030	1.00	61.66
ATOM	30862	O5' URI	574	120.113	119.698	-39.446	1.00	56.90	A16S	ATOM	30915	N1	GUU	576	118.537	106.548	-38.294	1.00	61.66	
ATOM	30863	C5' URI	574	119.119	120.395	-40.195	1.00	56.90	A16S	ATOM	30916	C6	GUU	576	118.499	107.909	-38.017	1.00	61.66	
ATOM	30864	C4' URI	574	118.267	119.440	-41.004	1.00	56.90	A16S	ATOM	30917	O6	GUU	576	119.498	108.477	-37.551	1.00	61.66	

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ATOM	30918	C5	GUA	576	117.237	108.468	-38.331	1.00	61.66	Al6S	ATOM	30971	P	CYT	579	116.835	100.189	-28.801	1.00	49.44	Al
ATOM	30919	N7	GUA	576	116.786	109.775	-38.226	1.00	61.66	Al6S	ATOM	30972	O1P	CYT	579	116.005	99.801	-29.968	1.00	67.35	Al
ATOM	30920	C8	GUA	576	115.553	109.724	-38.644	1.00	61.66	Al6S	ATOM	30973	O2P	CYT	579	116.556	99.593	-27.474	1.00	67.35	Al
ATOM	30921	C2'	GUA	576	113.070	107.360	-38.352	1.00	53.81	Al6S	ATOM	30974	O5'	CYT	579	118.349	99.822	-29.146	1.00	49.44	Al
ATOM	30922	O2'	GUA	576	112.163	106.433	-38.899	1.00	53.81	Al6S	ATOM	30975	C5'	CYT	579	118.801	98.463	-29.132	1.00	49.44	Al
ATOM	30923	C3'	GUA	576	112.345	108.527	-37.706	1.00	53.81	Al6S	ATOM	30976	C4'	CYT	579	120.311	98.399	-29.297	1.00	49.44	Al
ATOM	30924	O3'	GUA	576	111.176	108.057	-37.063	1.00	53.81	Al6S	ATOM	30977	O4'	CYT	579	120.679	98.770	-30.652	1.00	49.44	Al
ATOM	30925	P	GUA	577	111.238	107.607	-35.527	1.00	64.99	Al6S	ATOM	30978	C1'	CYT	579	121.795	99.649	-30.625	1.00	49.44	Al
ATOM	30926	O1P	GUA	577	109.895	107.071	-35.202	1.00	68.08	Al6S	ATOM	30979	N1	CYT	579	121.324	100.995	-30.961	1.00	67.35	Al
ATOM	30927	O2P	GUA	577	111.801	108.712	-34.708	1.00	68.08	Al6S	ATOM	30980	C6	CYT	579	120.000	101.248	-31.183	1.00	67.35	Al
ATOM	30928	O5'	GUA	577	112.259	106.384	-35.529	1.00	64.99	Al6S	ATOM	30981	C2	CYT	579	122.253	102.010	-31.038	1.00	67.35	Al
ATOM	30929	C5'	GUA	577	111.872	105.122	-36.052	1.00	64.99	Al6S	ATOM	30982	O2	CYT	579	123.440	101.738	-30.833	1.00	67.35	Al
ATOM	30930	C4'	GUA	577	113.000	104.126	-35.923	1.00	64.99	Al6S	ATOM	30983	N3	CYT	579	121.843	103.263	-31.333	1.00	67.35	Al
ATOM	30931	O4'	GUA	577	114.153	104.598	-36.668	1.00	64.99	Al6S	ATOM	30984	N4	CYT	579	120.548	103.506	-31.545	1.00	67.35	Al
ATOM	30932	C1'	GUA	577	115.335	104.133	-36.044	1.00	64.99	Al6S	ATOM	30985	N4	CYT	579	120.183	104.760	-31.828	1.00	67.35	Al
ATOM	30933	N9	GUA	577	116.129	105.288	-35.648	1.00	68.08	Al6S	ATOM	30986	C5	CYT	579	119.572	102.477	-31.474	1.00	67.35	Al
ATOM	30934	C4	GUA	577	117.472	105.285	-35.357	1.00	68.08	Al6S	ATOM	30987	C2'	CYT	579	122.352	99.630	-29.207	1.00	49.44	Al
ATOM	30935	N3	GUA	577	118.292	104.217	-35.420	1.00	68.08	Al6S	ATOM	30988	O2'	CYT	579	123.369	98.662	-29.116	1.00	49.44	Al
ATOM	30936	C2	GUA	577	119.524	104.522	-35.067	1.00	68.08	Al6S	ATOM	30989	C3'	CYT	579	121.091	99.348	-28.401	1.00	49.44	Al
ATOM	30937	N2	GUA	577	120.472	103.585	-35.089	1.00	68.08	Al6S	ATOM	30990	O3'	CYT	579	121.353	98.784	-27.131	1.00	49.44	Al
ATOM	30938	N1	GUA	577	119.920	105.770	-34.668	1.00	68.08	Al6S	ATOM	30991	P	GUA	580	121.284	99.720	-25.827	1.00	55.22	Al
ATOM	30939	C6	GUA	577	119.096	106.883	-34.584	1.00	68.08	Al6S	ATOM	30992	O1P	GUA	580	121.054	98.818	-24.665	1.00	55.64	Al
ATOM	30940	O6	GUA	577	119.555	107.957	-34.187	1.00	68.08	Al6S	ATOM	30993	O2P	GUA	580	120.312	100.841	-26.094	1.00	55.64	Al
ATOM	30941	C5	GUA	577	117.769	106.579	-34.982	1.00	68.08	Al6S	ATOM	30994	O5'	GUA	580	122.762	100.321	-25.703	1.00	55.22	Al
ATOM	30942	N7	GUA	577	116.640	107.387	-35.060	1.00	68.08	Al6S	ATOM	30995	C5'	GUA	580	123.911	99.480	-25.833	1.00	55.22	Al
ATOM	30943	C8	GUA	577	115.694	106.580	-35.464	1.00	68.08	Al6S	ATOM	30996	C4'	GUA	580	125.137	100.306	-26.135	1.00	55.22	Al
ATOM	30944	C2'	GUA	577	114.910	103.285	-34.841	1.00	64.99	Al6S	ATOM	30997	O4'	GUA	580	124.959	100.996	-27.399	1.00	55.22	Al
ATOM	30945	O2'	GUA	577	114.786	101.936	-35.238	1.00	64.99	Al6S	ATOM	30998	C1'	GUA	580	124.508	102.304	-27.311	1.00	55.64	Al
ATOM	30946	C3'	GUA	577	113.543	103.871	-34.524	1.00	64.99	Al6S	ATOM	30999	N9	GUA	580	124.432	103.287	-27.444	1.00	55.64	Al
ATOM	30947	O3'	GUA	577	112.755	102.892	-33.859	1.00	64.99	Al6S	ATOM	31000	C4	GUA	580	124.563	104.656	-27.325	1.00	55.64	Al
ATOM	30948	P	GUA	578	112.479	103.019	-32.284	1.00	73.96	Al6S	ATOM	31001	N3	GUA	580	125.710	105.328	-27.099	1.00	55.64	Al
ATOM	30949	O1P	GUA	578	111.815	101.774	-31.838	1.00	60.71	Al6S	ATOM	31002	C2	GUA	580	125.515	106.629	-27.017	1.00	55.64	Al
ATOM	30950	O2P	GUA	578	111.821	104.322	-32.043	1.00	60.71	Al6S	ATOM	31003	N2	GUA	580	126.539	107.445	-26.799	1.00	55.64	Al
ATOM	30951	O5'	GUA	578	113.927	103.047	-31.619	1.00	73.96	Al6S	ATOM	31004	N1	GUA	580	124.304	107.232	-27.140	1.00	55.64	Al
ATOM	30952	C5'	GUA	578	114.738	101.870	-31.477	1.00	73.96	Al6S	ATOM	31005	C6	GUA	580	122.068	107.236	-27.363	1.00	55.64	Al
ATOM	30953	C4'	GUA	578	116.086	102.287	-30.953	1.00	73.96	Al6S	ATOM	31006	O6	GUA	580	122.068	107.236	-27.428	1.00	55.64	Al
ATOM	30954	O4'	GUA	578	116.354	103.493	-31.692	1.00	73.96	Al6S	ATOM	31007	C5	GUA	580	123.293	105.160	-27.471	1.00	55.64	Al
ATOM	30955	C1'	GUA	578	116.935	104.443	-30.852	1.00	73.96	Al6S	ATOM	31008	N7	GUA	580	122.380	104.135	-27.709	1.00	55.64	Al
ATOM	30956	N9	GUA	578	116.360	105.747	-31.135	1.00	60.71	Al6S	ATOM	31009	C8	GUA	580	123.100	103.047	-27.695	1.00	55.64	Al
ATOM	30957	C4	GUA	578	117.062	106.914	-31.190	1.00	60.71	Al6S	ATOM	31010	C2'	GUA	580	126.200	102.412	-25.951	1.00	55.22	Al
ATOM	30958	N3	GUA	578	118.392	107.040	-31.003	1.00	60.71	Al6S	ATOM	31011	O2'	GUA	580	127.554	102.052	-26.064	1.00	55.22	Al
ATOM	30959	C2	GUA	578	118.777	108.292	-31.068	1.00	60.71	Al6S	ATOM	31012	C3'	GUA	580	125.408	101.411	-25.133	1.00	55.22	Al
ATOM	30960	N2	GUA	578	120.061	108.602	-30.889	1.00	60.71	Al6S	ATOM	31013	O3'	GUA	580	126.180	100.932	-24.052	1.00	55.22	Al
ATOM	30961	N1	GUA	578	117.926	109.339	-31.309	1.00	60.71	Al6S	ATOM	31014	P	URI	581	125.651	101.157	-22.564	1.00	42.09	Al
ATOM	30962	C6	GUA	578	116.559	109.228	-31.518	1.00	60.71	Al6S	ATOM	31015	O1P	URI	581	124.325	100.495	-22.518	1.00	57.21	Al
ATOM	30963	O6	GUA	578	115.888	110.240	-31.736	1.00	60.71	Al6S	ATOM	31016	O2P	URI	581	126.694	100.802	-21.570	1.00	57.21	Al
ATOM	30964	C5	GUA	578	116.131	107.890	-31.441	1.00	60.71	Al6S	ATOM	31017	O5'	URI	581	125.448	102.729	-22.484	1.00	42.09	Al
ATOM	30965	N7	GUA	578	114.867	107.341	-31.565	1.00	60.71	Al6S	ATOM	31018	C5'	URI	581	126.548	103.613	-22.654	1.00	42.09	Al
ATOM	30966	C8	GUA	578	115.053	106.064	-31.380	1.00	60.71	Al6S	ATOM	31019	C4'	URI	581	126.055	105.033	-22.691	1.00	42.09	Al
ATOM	30967	C2'	GUA	578	116.876	103.974	-29.397	1.00	73.96	Al6S	ATOM	31020	O4'	URI	581	125.315	105.249	-23.918	1.00	42.09	Al
ATOM	30968	O2'	GUA	578	118.182	103.793	-28.871	1.00	73.96	Al6S	ATOM	31021	C1'	URI	581	124.245	106.140	-23.678	1.00	42.09	Al
ATOM	30969	C3'	GUA	578	116.078	102.672	-29.470	1.00	73.96	Al6S	ATOM	31022	N1	URI	581	123.000	105.458	-24.064	1.00	57.21	Al
ATOM	30970	O3'	GUA	578	116.832	101.792	-28.601	1.00	73.96	Al6S	ATOM	31023	C6	URI	581	122.974	104.102	-24.274	1.00	57.21	Al

ATOM	31024	C2	URI	581	121.859	106.220	-24.218	1.00	57.21	A16S	ATOM	31077	O5' CYT	584	115.272	107.677	-12.228	1.00	48.99	A
ATOM	31025	O2	URI	581	121.852	107.421	-24.048	1.00	57.21	A16S	ATOM	31078	C5' CYT	584	114.217	108.630	-12.104	1.00	48.99	A
ATOM	31026	N3	URI	581	120.730	105.519	-24.584	1.00	57.21	A16S	ATOM	31079	C4' CYT	584	112.875	107.981	-12.358	1.00	48.99	A
ATOM	31027	C4	URI	581	120.635	104.155	-24.817	1.00	57.21	A16S	ATOM	31080	O4' CYT	584	112.734	107.646	-13.763	1.00	48.99	A
ATOM	31028	O4	URI	581	119.563	103.662	-25.204	1.00	57.21	A16S	ATOM	31081	C1' CYT	584	111.950	106.470	-13.896	1.00	48.99	A
ATOM	31029	C5	URI	581	121.863	103.444	-24.636	1.00	57.21	A16S	ATOM	31082	N1	584	112.781	105.445	-14.538	1.00	59.92	A
ATOM	31030	C2' URI	581	124.334	106.555	-22.206	1.00	42.09	A16S	ATOM	31083	C6	584	114.143	105.489	-14.449	1.00	59.92	A	
ATOM	31031	O2' URI	581	125.124	107.712	-22.069	1.00	42.09	A16S	ATOM	31084	C2	584	112.160	104.431	-15.252	1.00	59.92	A	
ATOM	31032	C3' URI	581	125.056	105.368	-21.608	1.00	42.09	A16S	ATOM	31085	O2	584	110.928	104.410	-15.298	1.00	59.92	A	
ATOM	31033	O3' URI	581	125.716	105.717	-20.410	1.00	42.09	A16S	ATOM	31086	N3	584	112.914	103.499	-15.877	1.00	59.92	A	
ATOM	31034	P	582	124.982	105.460	-19.005	1.00	51.07	A16S	ATOM	31087	C4	584	114.244	103.562	-15.802	1.00	59.92	A	
ATOM	31035	O1P	582	124.283	104.160	-19.080	1.00	51.67	A16S	ATOM	31088	N4	584	114.952	102.643	-16.452	1.00	59.92	A	
ATOM	31036	O2P	582	125.923	105.713	-17.896	1.00	51.67	A16S	ATOM	31089	C5	584	114.905	104.577	-15.061	1.00	59.92	A	
ATOM	31037	O5' CYT	582	123.872	106.595	-18.972	1.00	51.07	A16S	ATOM	31090	C2' CYT	584	111.495	106.077	-12.491	1.00	48.99	A	
ATOM	31038	C5' CYT	582	124.215	107.954	-18.764	1.00	51.07	A16S	ATOM	31091	O2' CYT	584	110.249	106.680	-12.213	1.00	48.99	A	
ATOM	31039	C4' CYT	582	122.965	108.785	-18.777	1.00	51.07	A16S	ATOM	31092	C3' CYT	584	112.617	106.666	-11.648	1.00	48.99	A	
ATOM	31040	O4' CYT	582	122.344	108.649	-20.078	1.00	51.07	A16S	ATOM	31093	O3' CYT	584	112.243	106.849	-10.290	1.00	48.99	A	
ATOM	31041	C1' CYT	582	120.938	108.766	-19.943	1.00	51.07	A16S	ATOM	31094	P	585	112.439	105.638	-9.252	1.00	57.33	A	
ATOM	31042	N1	582	120.316	107.546	-20.452	1.00	51.67	A16S	ATOM	31095	O1P	585	112.109	106.166	-7.900	1.00	65.23	A	
ATOM	31043	C6	582	121.046	106.421	-20.696	1.00	51.67	A16S	ATOM	31096	O2P	585	113.753	104.985	-9.477	1.00	65.23	A	
ATOM	31044	C2	582	118.948	107.561	-20.684	1.00	51.67	A16S	ATOM	31097	O5' ADE	585	111.327	104.590	-9.705	1.00	57.33	A	
ATOM	31045	O2	582	118.321	108.600	-20.439	1.00	51.67	A16S	ATOM	31098	C5' ADE	585	109.942	104.892	-9.595	1.00	57.33	A	
ATOM	31046	N3	582	118.340	106.454	-21.168	1.00	51.67	A16S	ATOM	31099	C4' ADE	585	109.128	103.738	-10.118	1.00	57.33	A	
ATOM	31047	C4	582	119.058	105.365	-21.424	1.00	51.67	A16S	ATOM	31100	O4' ADE	585	109.390	103.598	-11.535	1.00	57.33	A	
ATOM	31048	N4	582	118.428	104.311	-21.935	1.00	51.67	A16S	ATOM	31101	C1' ADE	585	109.362	102.226	-11.892	1.00	57.33	A	
ATOM	31049	C5	582	120.461	105.315	-21.178	1.00	51.67	A16S	ATOM	31102	N9	585	110.681	101.858	-12.405	1.00	65.23	A	
ATOM	31050	C2' CYT	582	120.641	108.958	-18.463	1.00	51.07	A16S	ATOM	31103	C4	585	110.967	100.759	-13.177	1.00	65.23	A	
ATOM	31051	O2' CYT	582	120.558	110.338	-18.174	1.00	51.07	A16S	ATOM	31104	N3	585	110.107	99.836	-13.626	1.00	65.23	A	
ATOM	31052	C3' CYT	582	121.862	108.310	-17.850	1.00	51.07	A16S	ATOM	31105	C2	585	110.741	98.914	-14.340	1.00	65.23	A	
ATOM	31053	O3' CYT	582	122.041	108.749	-16.527	1.00	51.07	A16S	ATOM	31106	N1	585	112.037	98.813	-14.630	1.00	65.23	A	
ATOM	31054	P	583	121.347	107.931	-15.346	1.00	51.35	A16S	ATOM	31107	C6	585	112.875	99.755	-14.157	1.00	65.23	A	
ATOM	31055	O1P	583	121.503	106.493	-15.675	1.00	54.93	A16S	ATOM	31108	N6	585	114.171	99.646	-14.433	1.00	65.23	A	
ATOM	31056	O2P	583	121.832	108.449	-14.035	1.00	54.93	A16S	ATOM	31109	C5	585	112.327	100.794	-13.393	1.00	65.23	A	
ATOM	31057	O5' CYT	583	119.807	108.276	-15.514	1.00	51.35	A16S	ATOM	31110	N7	585	112.893	101.904	-12.783	1.00	65.23	A	
ATOM	31058	C5' CYT	583	119.338	109.607	-15.357	1.00	51.35	A16S	ATOM	31111	C8	585	111.876	102.503	-12.214	1.00	65.23	A	
ATOM	31059	C4' CYT	583	117.839	109.637	-15.494	1.00	51.35	A16S	ATOM	31112	C2' ADE	585	109.004	101.432	-10.636	1.00	57.33	A	
ATOM	31060	O4' CYT	583	117.459	109.244	-16.833	1.00	51.35	A16S	ATOM	31113	O2' ADE	585	107.618	101.188	-10.579	1.00	57.33	A	
ATOM	31061	C1' CYT	583	116.192	108.622	-16.793	1.00	51.35	A16S	ATOM	31114	C3' ADE	585	109.485	102.373	-9.546	1.00	57.33	A	
ATOM	31062	N1	583	116.266	107.317	-17.454	1.00	54.93	A16S	ATOM	31115	O3' ADE	585	108.806	102.113	-8.330	1.00	57.12	A	
ATOM	31063	C6	583	117.411	106.578	-17.467	1.00	54.93	A16S	ATOM	31116	P	586	109.389	101.016	-7.317	1.00	57.12	A	
ATOM	31064	C2	583	115.120	106.840	-18.056	1.00	54.93	A16S	ATOM	31117	O1P	586	108.419	100.909	-6.192	1.00	66.79	A	
ATOM	31065	O2	583	114.111	107.555	-18.050	1.00	54.93	A16S	ATOM	31118	O2P	586	110.809	101.351	-7.035	1.00	66.79	A	
ATOM	31066	N3	583	115.125	105.627	-18.636	1.00	54.93	A16S	ATOM	31119	O5' URI	586	109.345	99.658	-8.152	1.00	57.12	A	
ATOM	31067	C4	583	116.234	104.902	-18.637	1.00	54.93	A16S	ATOM	31120	C5' URI	586	108.108	99.042	-8.476	1.00	57.12	A	
ATOM	31068	N4	583	116.185	103.711	-19.220	1.00	54.93	A16S	ATOM	31121	C4' URI	586	108.349	97.748	-9.209	1.00	57.12	A	
ATOM	31069	C5	583	117.437	105.370	-18.040	1.00	54.93	A16S	ATOM	31122	O4' URI	586	108.924	98.030	-10.513	1.00	57.12	A	
ATOM	31070	C2' CYT	583	115.787	108.493	-15.328	1.00	51.35	A16S	ATOM	31123	C1' URI	586	109.854	97.012	-10.856	1.00	57.12	A	
ATOM	31071	O2' CYT	583	114.947	109.567	-15.017	1.00	51.35	A16S	ATOM	31124	N1	586	111.195	97.611	-10.903	1.00	66.79	A	
ATOM	31072	C3' CYT	583	117.125	108.622	-14.633	1.00	51.35	A16S	ATOM	31125	C6	586	111.546	98.636	-10.059	1.00	66.79	A	
ATOM	31073	O3' CYT	583	116.968	109.135	-13.334	1.00	51.35	A16S	ATOM	31126	C2	586	112.109	97.082	-11.796	1.00	66.79	A	
ATOM	31074	P	584	116.799	108.124	-12.113	1.00	48.99	A16S	ATOM	31127	O2	586	111.822	96.222	-12.601	1.00	66.79	A	
ATOM	31075	O1P	584	117.031	108.918	-10.878	1.00	59.92	A16S	ATOM	31128	N3	586	113.373	97.605	-11.712	1.00	66.79	A	
ATOM	31076	O2P	584	117.628	106.923	-12.380	1.00	59.92	A16S	ATOM	31129	C4	586	113.804	98.594	-10.853	1.00	66.79	A	

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ATOM	31130	O4	URI	586	115.013	98.832	-10.766	1.00	66.79	Al6s	ATOM	31183	C5' GUA	589	119.499	87.776	-4.953	1.00	62.78	Al
ATOM	31131	C5	URI	586	112.781	99.132	-10.004	1.00	66.79	Al6s	ATOM	31184	C4' GUA	589	120.705	88.658	-5.126	1.00	62.78	Al
ATOM	31132	C2' URI	586	109.783	95.963	-9.743	1.00	57.12	Al6s	ATOM	31185	O4' GUA	589	120.359	89.792	-5.963	1.00	62.78	Al	
ATOM	31133	O2' URI	586	108.807	94.991	-10.021	1.00	57.12	Al6s	ATOM	31186	C1' GUA	589	121.043	90.944	-5.504	1.00	62.78	Al	
ATOM	31134	C3' URI	586	109.362	96.817	-8.567	1.00	57.12	Al6s	ATOM	31187	N9 GUA	589	120.048	91.920	-5.071	1.00	84.35	Al	
ATOM	31135	O3' URI	586	108.792	96.019	-7.551	1.00	57.12	Al6s	ATOM	31188	C3 GUA	589	120.189	93.284	-5.074	1.00	84.35	Al	
ATOM	31136	P	GUA	587	109.755	95.315	-6.482	1.00	61.40	Al6s	ATOM	31189	N3 GUA	589	121.277	93.966	-5.486	1.00	84.35	Al
ATOM	31137	O1P GUA	587	108.924	94.782	-5.374	1.00	63.50	Al6s	ATOM	31190	C2 GUA	589	121.114	95.274	-5.371	1.00	84.35	Al	
ATOM	31138	O2P GUA	587	110.865	96.252	-6.168	1.00	63.50	Al6s	ATOM	31191	N2 GUA	589	122.101	96.102	-5.736	1.00	84.35	Al	
ATOM	31139	O5' GUA	587	110.340	94.091	-7.313	1.00	61.40	Al6s	ATOM	31192	M1 GUA	589	119.974	95.866	-4.890	1.00	84.35	Al	
ATOM	31140	C5' GUA	587	109.468	93.109	-7.857	1.00	61.40	Al6s	ATOM	31193	C6 GUA	589	118.839	95.185	-4.463	1.00	84.35	Al	
ATOM	31141	C4' GUA	587	110.260	92.024	-8.542	1.00	61.40	Al6s	ATOM	31194	O6 GUA	589	117.856	95.820	-4.054	1.00	84.35	Al	
ATOM	31142	O4' GUA	587	110.780	92.496	-9.816	1.00	61.40	Al6s	ATOM	31195	C5 GUA	589	119.001	93.776	-4.580	1.00	84.35	Al	
ATOM	31143	C1' GUA	587	112.043	91.894	-10.064	1.00	61.40	Al6s	ATOM	31196	N7 GUA	589	118.128	92.740	-4.277	1.00	84.35	Al	
ATOM	31144	N9 GUA	587	113.071	92.935	-10.058	1.00	63.50	Al6s	ATOM	31197	C8 GUA	589	118.791	91.660	-4.584	1.00	84.35	Al	
ATOM	31145	C4 GUA	587	114.343	92.839	-10.591	1.00	63.50	Al6s	ATOM	31198	C2' GUA	589	121.992	90.489	-4.393	1.00	62.78	Al	
ATOM	31146	N3 GUA	587	114.863	91.768	-11.231	1.00	63.50	Al6s	ATOM	31199	O2' GUA	589	123.222	90.127	-4.986	1.00	62.78	Al	
ATOM	31147	C2 GUA	587	116.114	91.975	-11.612	1.00	63.50	Al6s	ATOM	31200	C3' GUA	589	121.256	89.270	-3.850	1.00	62.78	Al	
ATOM	31148	N2 GUA	587	116.773	91.021	-12.268	1.00	63.50	Al6s	ATOM	31201	O3' GUA	589	122.147	88.344	-3.230	1.00	62.78	Al	
ATOM	31149	N1 GUA	587	116.805	93.132	-11.381	1.00	63.50	Al6s	ATOM	31202	P	590	122.421	88.422	-1.647	1.00	66.71	Al	
ATOM	31150	C6 GUA	587	116.301	94.246	-10.729	1.00	63.50	Al6s	ATOM	31203	O1P ADE	590	122.645	89.839	-1.250	1.00	89.47	Al	
ATOM	31151	O6 GUA	587	117.017	95.238	-10.575	1.00	63.50	Al6s	ATOM	31204	O2P ADE	590	123.463	87.409	-1.355	1.00	89.47	Al	
ATOM	31152	C5 GUA	587	114.948	94.045	-10.313	1.00	63.50	Al6s	ATOM	31205	O5' ADE	590	121.044	86.683	-1.282	1.00	66.71	Al	
ATOM	31153	N7 GUA	587	114.078	94.885	-9.629	1.00	63.50	Al6s	ATOM	31206	C5' ADE	590	120.502	86.683	-1.282	1.00	66.71	Al	
ATOM	31154	C8 GUA	587	112.979	94.189	-9.505	1.00	63.50	Al6s	ATOM	31207	C4' ADE	590	119.580	86.230	-0.175	1.00	66.71	Al	
ATOM	31155	C2' GUA	587	112.256	90.889	-8.934	1.00	61.40	Al6s	ATOM	31208	O4' ADE	590	119.442	84.794	-0.315	1.00	66.71	Al	
ATOM	31156	O2' GUA	587	111.629	89.679	-9.287	1.00	61.40	Al6s	ATOM	31209	C1' ADE	590	119.739	83.616	0.913	1.00	66.71	Al	
ATOM	31157	C3' GUA	587	111.496	91.555	-7.807	1.00	61.40	Al6s	ATOM	31210	N9 ADE	590	121.097	83.628	0.813	1.00	89.47	Al	
ATOM	31158	O3' GUA	587	111.167	90.617	-6.807	1.00	61.40	Al6s	ATOM	31211	C4 ADE	590	121.650	82.650	1.601	1.00	89.47	Al	
ATOM	31159	P	URI	588	112.165	90.394	-5.569	1.00	52.22	Al6s	ATOM	31212	N3 ADE	590	121.062	81.995	2.615	1.00	89.47	Al
ATOM	31160	O1P URI	588	111.617	89.252	-4.802	1.00	59.67	Al6s	ATOM	31213	C2 ADE	590	121.897	80.821	2.798	1.00	89.47	Al	
ATOM	31161	O2P URI	588	112.442	91.676	-4.883	1.00	59.67	Al6s	ATOM	31214	N1 ADE	590	123.160	80.821	2.798	1.00	89.47	Al	
ATOM	31162	O5' URI	588	113.525	89.912	-6.237	1.00	52.22	Al6s	ATOM	31215	C6 ADE	590	123.725	81.505	1.782	1.00	89.47	Al	
ATOM	31163	C5' URI	588	113.666	88.592	-6.748	1.00	52.22	Al6s	ATOM	31216	N6 ADE	590	124.992	81.231	1.454	1.00	89.47	Al	
ATOM	31164	C4' URI	588	115.065	88.339	-7.260	1.00	52.22	Al6s	ATOM	31217	C5 ADE	590	122.939	82.473	1.133	1.00	89.47	Al	
ATOM	31165	O4' URI	588	115.291	89.339	-8.337	1.00	52.22	Al6s	ATOM	31218	N7 ADE	590	123.197	83.327	0.068	1.00	89.47	Al	
ATOM	31166	C1' URI	588	116.653	89.727	-8.337	1.00	52.22	Al6s	ATOM	31219	C8 ADE	590	122.078	83.990	-0.080	1.00	89.47	Al	
ATOM	31167	N1 URI	588	116.726	91.169	-8.101	1.00	59.67	Al6s	ATOM	31220	C2' ADE	590	119.615	85.233	1.988	1.00	66.71	Al	
ATOM	31168	C6 URI	588	115.677	91.877	-7.593	1.00	59.67	Al6s	ATOM	31221	O2' ADE	590	118.276	85.373	2.396	1.00	66.71	Al	
ATOM	31169	C2 URI	588	117.920	91.766	-8.370	1.00	59.67	Al6s	ATOM	31222	C3' ADE	590	120.112	86.451	1.236	1.00	66.71	Al	
ATOM	31170	O2 URI	588	118.834	91.165	-8.891	1.00	59.67	Al6s	ATOM	31223	O3' ADE	590	119.557	87.618	1.817	1.00	66.71	Al	
ATOM	31171	N3 URI	588	118.006	93.086	-8.017	1.00	59.67	Al6s	ATOM	31224	P	591	120.278	88.289	3.087	1.00	55.67	Al	
ATOM	31172	C4 URI	588	117.017	93.847	-7.457	1.00	59.67	Al6s	ATOM	31225	O1P ADE	591	121.579	88.890	2.617	1.00	45.49	Al	
ATOM	31173	O4 URI	588	117.269	94.996	-7.104	1.00	59.67	Al6s	ATOM	31226	O2P ADE	591	121.579	88.890	2.617	1.00	45.49	Al	
ATOM	31174	C5 URI	588	115.778	93.164	-7.268	1.00	59.67	Al6s	ATOM	31227	O5' ADE	591	120.613	87.071	4.055	1.00	55.67	Al	
ATOM	31175	C2' URI	588	117.352	88.991	-7.189	1.00	52.22	Al6s	ATOM	31228	C5' ADE	591	119.667	86.597	4.993	1.00	55.67	Al	
ATOM	31176	O2' URI	588	118.024	87.838	-7.652	1.00	52.22	Al6s	ATOM	31229	C4' ADE	591	120.291	85.525	5.852	1.00	55.67	Al	
ATOM	31177	C3' URI	588	116.179	88.689	-6.268	1.00	52.22	Al6s	ATOM	31230	O4' ADE	591	120.728	84.424	5.012	1.00	55.67	Al	
ATOM	31178	O3' URI	588	116.463	87.562	-5.457	1.00	52.22	Al6s	ATOM	31231	C1' ADE	591	121.941	83.895	4.518	1.00	55.67	Al	
ATOM	31179	P	GUA	589	117.080	87.767	-3.990	1.00	62.78	Al6s	ATOM	31232	N9 ADE	591	123.000	84.207	4.573	1.00	45.49	Al
ATOM	31180	O1P GUA	589	117.369	86.411	-3.461	1.00	84.35	Al6s	ATOM	31233	C4 ADE	591	124.266	83.664	4.566	1.00	45.49	Al	
ATOM	31181	O2P GUA	589	116.212	88.688	-3.224	1.00	84.35	Al6s	ATOM	31234	N3 ADE	591	124.742	82.737	5.400	1.00	45.49	Al	
ATOM	31182	O5' GUA	589	118.479	88.470	-4.252	1.00	62.78	Al6s	ATOM	31235	C2 ADE	591	126.016	82.463	5.105	1.00	45.49	Al	

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ATOM	31236	N1	ADE	591	126.798	82.983	4.152	1.00	45.49	A16S	ATOM	31289	C3' GUA	593	130.639	90.136	8.856	1.00	52.66	f
ATOM	31237	C6	ADE	591	126.277	83.929	3.344	1.00	45.49	A16S	ATOM	31290	O3' GUA	593	131.642	90.636	9.716	1.00	52.66	f
ATOM	31238	N6	ADE	591	127.061	84.483	2.424	1.00	45.49	A16S	ATOM	31291	P ADE	594	131.465	92.078	10.382	1.00	51.27	f
ATOM	31239	C5	ADE	591	124.931	84.288	3.538	1.00	45.49	A16S	ATOM	31292	O1P ADE	594	132.735	92.365	11.078	1.00	63.19	f
ATOM	31240	N7	ADE	591	124.105	85.199	2.895	1.00	45.49	A16S	ATOM	31293	O2P ADE	594	130.186	92.112	11.137	1.00	63.19	f
ATOM	31241	C8	ADE	591	122.973	85.107	3.544	1.00	45.49	A16S	ATOM	31294	O5' ADE	594	131.413	93.057	9.135	1.00	51.27	f
ATOM	31242	C2' ADE	591	122.229	84.612	6.832	1.00	55.67	A16S	ATOM	31295	C5' ADE	594	132.623	93.444	8.499	1.00	51.27	f	
ATOM	31243	O2' ADE	591	121.644	83.900	7.894	1.00	55.67	A16S	ATOM	31296	C4' ADE	594	132.357	94.481	7.445	1.00	51.27	f	
ATOM	31244	C3' ADE	591	121.546	85.944	6.594	1.00	55.67	A16S	ATOM	31297	O4' ADE	594	131.477	93.914	6.444	1.00	51.27	f	
ATOM	31245	O3' ADE	591	121.225	86.549	7.830	1.00	55.67	A16S	ATOM	31298	C1' ADE	594	130.608	94.915	5.954	1.00	51.27	f	
ATOM	31246	P ADE	592	122.238	87.609	8.475	1.00	47.58	A16S	ATOM	31299	N9 ADE	594	129.248	94.538	5.687	1.00	63.19	f	
ATOM	31247	O1P ADE	592	121.840	87.833	9.894	1.00	57.69	A16S	ATOM	31300	C4 ADE	594	128.120	94.983	4.633	1.00	63.19	f	
ATOM	31248	O2P ADE	592	122.333	88.768	7.545	1.00	57.69	A16S	ATOM	31301	N3 ADE	594	128.059	95.801	4.633	1.00	63.19	f	
ATOM	31249	O5' ADE	592	123.643	86.867	8.450	1.00	47.58	A16S	ATOM	31302	C2 ADE	594	126.796	96.041	4.307	1.00	63.19	f	
ATOM	31250	C5' ADE	592	123.966	85.894	9.417	1.00	47.58	A16S	ATOM	31303	N1 ADE	594	125.677	95.591	4.874	1.00	63.19	f	
ATOM	31251	C4' ADE	592	125.366	85.403	9.188	1.00	47.58	A16S	ATOM	31304	C6 ADE	594	125.780	94.766	5.935	1.00	63.19	f	
ATOM	31252	O4' ADE	592	125.458	84.906	7.831	1.00	47.58	A16S	ATOM	31305	N6 ADE	594	124.662	94.316	6.506	1.00	63.19	f	
ATOM	31253	C1' ADE	592	126.774	85.104	7.348	1.00	47.58	A16S	ATOM	31306	C5 ADE	594	127.062	94.433	6.376	1.00	63.19	f	
ATOM	31254	N9 ADE	592	126.704	85.949	6.171	1.00	57.69	A16S	ATOM	31307	N7 ADE	594	127.513	93.632	7.413	1.00	63.19	p	
ATOM	31255	C4 ADE	592	127.762	86.267	5.366	1.00	57.69	A16S	ATOM	31308	C8 ADE	594	131.002	96.229	6.633	1.00	51.27	p	
ATOM	31256	N3 ADE	592	129.034	85.865	5.506	1.00	57.69	A16S	ATOM	31309	C2' ADE	594	131.894	96.967	5.816	1.00	51.27	p	
ATOM	31257	C2 ADE	592	129.789	86.365	4.532	1.00	57.69	A16S	ATOM	31310	O2' ADE	594	131.627	95.716	7.923	1.00	51.27	p	
ATOM	31258	N1 ADE	592	129.441	87.157	3.515	1.00	57.69	A16S	ATOM	31311	C3' ADE	594	131.627	95.716	7.923	1.00	51.27	p	
ATOM	31259	C6 ADE	592	128.154	87.544	3.410	1.00	57.69	A16S	ATOM	31312	O3' ADE	594	132.515	96.650	8.521	1.00	51.27	p	
ATOM	31260	N6 ADE	592	127.807	88.338	2.394	1.00	57.69	A16S	ATOM	31313	P CYT	595	132.038	97.462	9.823	1.00	49.71	p	
ATOM	31261	C5 ADE	592	127.254	87.083	4.382	1.00	57.69	A16S	ATOM	31314	O1P CYT	595	133.182	98.226	10.371	1.00	56.01	p	
ATOM	31262	N7 ADE	592	125.896	87.284	4.571	1.00	57.69	A16S	ATOM	31315	O2P CYT	595	131.310	96.509	10.700	1.00	49.71	p	
ATOM	31263	C8 ADE	592	125.621	86.588	5.642	1.00	57.69	A16S	ATOM	31316	O5' CYT	595	130.979	98.492	9.246	1.00	49.71	p	
ATOM	31264	C2' ADE	592	127.560	85.803	8.449	1.00	47.58	A16S	ATOM	31317	C5' CYT	595	131.387	99.573	8.436	1.00	49.71	p	
ATOM	31265	O2' ADE	592	128.219	84.837	9.222	1.00	47.58	A16S	ATOM	31318	C4' CYT	595	130.206	100.456	8.153	1.00	49.71	p	
ATOM	31266	C3' ADE	592	126.442	86.470	9.228	1.00	47.58	A16S	ATOM	31319	O4' CYT	595	129.247	99.745	7.332	1.00	49.71	p	
ATOM	31267	O3' ADE	592	126.854	86.729	10.556	1.00	47.58	A16S	ATOM	31320	C1' CYT	595	127.930	100.123	7.693	1.00	49.71	p	
ATOM	31268	P GUA	593	127.159	88.240	11.007	1.00	52.66	A16S	ATOM	31321	N1 CYT	595	127.198	98.911	8.086	1.00	56.01	p	
ATOM	31269	O1P GUA	593	127.690	88.202	12.393	1.00	57.01	A16S	ATOM	31322	C6 CYT	595	127.874	97.797	8.493	1.00	56.01	p	
ATOM	31270	O2P GUA	593	125.954	89.053	10.699	1.00	57.01	A16S	ATOM	31323	C2 CYT	595	125.797	98.914	8.049	1.00	56.01	p	
ATOM	31271	O5' GUA	593	128.328	88.701	10.029	1.00	52.66	A16S	ATOM	31324	O2 CYT	595	125.207	99.927	7.658	1.00	56.01	p	
ATOM	31272	C5' GUA	593	129.638	88.147	10.143	1.00	52.66	A16S	ATOM	31325	N3 CYT	595	125.127	97.813	8.441	1.00	56.01	p	
ATOM	31273	C4' GUA	593	130.512	88.632	9.011	1.00	52.66	A16S	ATOM	31326	C4 CYT	595	125.799	96.735	8.848	1.00	56.01	p	
ATOM	31274	O4' GUA	593	129.938	88.217	7.746	1.00	52.66	A16S	ATOM	31327	N4 CYT	595	125.102	95.675	9.236	1.00	56.01	p	
ATOM	31275	C1' GUA	593	130.225	89.186	6.758	1.00	52.66	A16S	ATOM	31328	C5 CYT	595	127.220	96.639	8.878	1.00	56.01	p	
ATOM	31276	N9 GUA	593	128.970	89.773	6.320	1.00	57.01	A16S	ATOM	31329	C2' CYT	595	128.052	101.145	8.823	1.00	49.71	p	
ATOM	31277	C4 GUA	593	128.813	90.626	5.270	1.00	57.01	A16S	ATOM	31330	O2' CYT	595	127.994	102.441	8.280	1.00	49.71	p	
ATOM	31278	N3 GUA	593	129.794	91.063	4.462	1.00	57.01	A16S	ATOM	31331	C3' CYT	595	129.419	100.801	9.393	1.00	49.71	p	
ATOM	31279	C2 GUA	593	129.346	91.906	3.558	1.00	57.01	A16S	ATOM	31332	O3' CYT	595	130.035	101.869	10.081	1.00	49.71	p	
ATOM	31280	N2 GUA	593	130.199	92.472	2.704	1.00	57.01	A16S	ATOM	31333	P CYT	596	129.872	101.967	11.664	1.00	53.58	p	
ATOM	31281	N1 GUA	593	128.033	92.265	3.437	1.00	57.01	A16S	ATOM	31334	O1P CYT	596	130.657	103.135	12.136	1.00	59.71	p	
ATOM	31282	C6 GUA	593	127.006	91.819	4.259	1.00	57.01	A16S	ATOM	31335	O2P CYT	596	130.128	100.625	12.249	1.00	59.71	p	
ATOM	31283	C5 GUA	593	125.853	92.208	4.069	1.00	57.01	A16S	ATOM	31336	O5' CYT	596	128.324	102.307	11.831	1.00	53.58	p	
ATOM	31284	O6 GUA	593	127.478	90.936	5.245	1.00	57.01	A16S	ATOM	31337	C5' CYT	596	127.830	103.611	11.542	1.00	53.58	p	
ATOM	31285	N7 GUA	593	126.803	90.284	6.261	1.00	57.01	A16S	ATOM	31338	C4' CYT	596	126.393	103.739	11.964	1.00	53.58	p	
ATOM	31286	C8 GUA	593	127.729	89.602	6.872	1.00	57.01	A16S	ATOM	31339	O4' CYT	596	125.540	102.940	11.094	1.00	53.58	p	
ATOM	31287	C2' GUA	593	131.108	90.238	7.421	1.00	52.66	A16S	ATOM	31340	C1' CYT	596	124.413	102.477	11.823	1.00	53.58	p	
ATOM	31288	O2' GUA	593	132.455	89.839	7.316	1.00	52.66	A16S	ATOM	31341	N1 CYT	596	124.437	101.008	11.835	1.00	59.71	p	

ATOM	31342	C6	CYT	596	125.587	100.323	11.568	1.00	59.71	Al6s	ATOM	31395	P	GUA	599	120.044	100.693	24.756	1.00	75.22	A.
ATOM	31343	C2	CYT	596	123.262	100.325	12.133	1.00	59.71	Al6s	ATOM	31396	OLP	GUA	599	119.233	101.112	25.925	1.00	68.66	A.
ATOM	31344	O2	CYT	596	122.244	100.978	12.386	1.00	59.71	Al6s	ATOM	31397	O2P	GUA	599	121.476	101.082	24.676	1.00	68.66	A.
ATOM	31345	N3	CYT	596	123.266	98.974	12.144	1.00	59.71	Al6s	ATOM	31398	O5	GUA	599	119.970	99.102	24.627	1.00	75.22	A.
ATOM	31346	C4	CYT	596	124.394	98.312	11.880	1.00	59.71	Al6s	ATOM	31399	C5	GUA	599	118.741	98.412	24.872	1.00	75.22	A.
ATOM	31347	N4	CYT	596	124.359	96.978	11.900	1.00	59.71	Al6s	ATOM	31400	C4	GUA	599	118.903	96.932	24.562	1.00	75.22	A.
ATOM	31348	C5	CYT	596	125.611	98.988	11.582	1.00	59.71	Al6s	ATOM	31401	O4	GUA	599	119.439	96.733	23.232	1.00	75.22	A.
ATOM	31349	C2	CYT	596	124.525	103.055	13.235	1.00	53.58	Al6s	ATOM	31402	C1	GUA	599	120.101	95.482	23.182	1.00	75.22	A.
ATOM	31350	O2	CYT	596	123.847	104.282	13.281	1.00	53.58	Al6s	ATOM	31403	N9	GUA	599	121.462	95.677	22.694	1.00	68.66	A.
ATOM	31351	C3	CYT	596	126.026	103.253	13.361	1.00	53.58	Al6s	ATOM	31404	C4	GUA	599	122.300	94.682	22.265	1.00	68.66	A.
ATOM	31352	O3	CYT	596	126.314	104.241	14.336	1.00	53.58	Al6s	ATOM	31405	N3	GUA	599	121.998	93.371	22.207	1.00	68.66	A.
ATOM	31353	P	ADE	597	126.234	103.872	15.898	1.00	59.83	Al6s	ATOM	31406	C2	GUA	599	123.014	92.652	21.782	1.00	68.66	A.
ATOM	31354	OLP	ADE	597	126.585	105.108	16.642	1.00	65.85	Al6s	ATOM	31407	N2	GUA	599	122.895	91.328	21.693	1.00	68.66	A.
ATOM	31355	O2P	ADE	597	127.003	102.632	16.145	1.00	65.85	Al6s	ATOM	31408	N1	GUA	599	124.225	93.176	21.420	1.00	68.66	A.
ATOM	31356	O5	ADE	597	124.689	104.584	16.144	1.00	59.83	Al6s	ATOM	31409	C6	GUA	599	124.557	94.524	21.460	1.00	68.66	A.
ATOM	31357	C5	ADE	597	123.739	104.633	16.024	1.00	59.83	Al6s	ATOM	31410	C5	GUA	599	125.684	94.893	21.934	1.00	68.66	A.
ATOM	31358	C4	ADE	597	122.363	104.145	16.392	1.00	59.83	Al6s	ATOM	31411	C5	GUA	599	123.476	95.311	21.934	1.00	68.66	A.
ATOM	31359	O4	ADE	597	121.873	103.217	15.392	1.00	59.83	Al6s	ATOM	31412	N7	GUA	599	123.377	96.679	22.141	1.00	68.66	A.
ATOM	31360	C1	ADE	597	121.149	102.178	16.028	1.00	59.83	Al6s	ATOM	31413	C8	GUA	599	122.162	96.850	22.587	1.00	68.66	A.
ATOM	31361	N9	ADE	597	121.894	100.935	15.839	1.00	65.85	Al6s	ATOM	31414	C2	GUA	599	120.079	94.896	24.592	1.00	75.22	A.
ATOM	31362	C4	ADE	597	121.381	99.663	15.873	1.00	65.85	Al6s	ATOM	31415	O2	GUA	599	119.005	93.988	24.684	1.00	75.22	A.
ATOM	31363	N3	ADE	597	120.107	99.302	16.090	1.00	65.85	Al6s	ATOM	31416	C3	GUA	599	119.862	96.143	25.435	1.00	75.22	A.
ATOM	31364	C2	ADE	597	119.981	97.983	16.047	1.00	65.85	Al6s	ATOM	31417	O3	GUA	599	119.239	95.787	26.657	1.00	75.22	A.
ATOM	31365	N1	ADE	597	120.910	97.055	15.820	1.00	65.85	Al6s	ATOM	31418	P	GUA	600	120.126	95.259	27.886	1.00	60.17	A.
ATOM	31366	C6	ADE	597	122.179	97.453	15.600	1.00	65.85	Al6s	ATOM	31419	OLP	GUA	600	119.166	95.061	28.994	1.00	59.29	A.
ATOM	31367	N6	ADE	597	123.106	96.531	15.356	1.00	65.85	Al6s	ATOM	31420	O2P	GUA	600	121.302	96.139	28.088	1.00	59.29	A.
ATOM	31368	C5	ADE	597	122.447	98.824	15.634	1.00	65.85	Al6s	ATOM	31421	O5	GUA	600	120.743	93.825	27.416	1.00	60.17	A.
ATOM	31369	N7	ADE	597	123.616	99.549	15.465	1.00	65.85	Al6s	ATOM	31422	C5	GUA	600	119.782	92.684	27.466	1.00	60.17	A.
ATOM	31370	C8	ADE	597	123.234	100.792	15.594	1.00	65.85	Al6s	ATOM	31423	C4	GUA	600	120.570	91.401	27.287	1.00	60.17	A.
ATOM	31371	C2	ADE	597	121.036	102.550	17.509	1.00	59.83	Al6s	ATOM	31424	O4	GUA	600	121.121	91.349	25.948	1.00	60.17	A.
ATOM	31372	O2	ADE	597	119.856	103.288	17.735	1.00	59.83	Al6s	ATOM	31425	C1	GUA	600	122.352	90.654	25.968	1.00	60.17	A.
ATOM	31373	C3	ADE	597	122.293	103.381	17.697	1.00	59.83	Al6s	ATOM	31426	N9	GUA	600	123.395	91.514	25.419	1.00	59.29	A.
ATOM	31374	O3	ADE	597	122.181	104.273	18.786	1.00	59.83	Al6s	ATOM	31427	C4	GUA	600	124.609	91.096	24.933	1.00	59.29	A.
ATOM	31375	P	CYT	598	122.732	103.828	20.219	1.00	66.94	Al6s	ATOM	31428	N3	GUA	600	125.041	89.821	24.888	1.00	59.29	A.
ATOM	31376	OLP	CYT	598	122.688	105.012	21.118	1.00	74.32	Al6s	ATOM	31429	C2	GUA	600	126.242	89.724	24.353	1.00	59.29	A.
ATOM	31377	O2P	CYT	598	124.020	103.118	20.015	1.00	74.32	Al6s	ATOM	31430	N2	GUA	600	126.811	88.516	24.211	1.00	59.29	A.
ATOM	31378	O5	CYT	598	121.639	102.777	20.716	1.00	66.94	Al6s	ATOM	31431	N1	GUA	600	126.974	90.797	23.910	1.00	59.29	A.
ATOM	31379	C5	CYT	598	120.319	103.198	21.032	1.00	66.94	Al6s	ATOM	31432	C6	GUA	600	126.559	92.121	23.953	1.00	59.29	A.
ATOM	31380	O4	CYT	598	119.401	102.008	21.145	1.00	66.94	Al6s	ATOM	31433	O6	GUA	600	127.312	93.016	23.533	1.00	59.29	A.
ATOM	31381	C4	CYT	598	119.431	101.284	19.887	1.00	66.94	Al6s	ATOM	31434	C5	GUA	600	125.252	92.238	24.515	1.00	59.29	A.
ATOM	31382	C1	CYT	598	119.310	99.890	20.135	1.00	66.94	Al6s	ATOM	31435	N7	GUA	600	124.459	93.358	24.737	1.00	59.29	A.
ATOM	31383	N1	CYT	598	120.563	99.236	19.716	1.00	74.32	Al6s	ATOM	31436	C8	GUA	600	123.370	92.880	25.276	1.00	59.29	A.
ATOM	31384	C6	CYT	598	121.723	99.952	19.621	1.00	74.32	Al6s	ATOM	31437	C2	GUA	600	122.615	90.220	27.407	1.00	60.17	A.
ATOM	31385	C2	CYT	598	120.553	97.866	19.415	1.00	74.32	Al6s	ATOM	31438	O2	GUA	600	122.173	88.882	27.544	1.00	60.17	A.
ATOM	31386	O2	CYT	598	119.490	97.235	19.504	1.00	74.32	Al6s	ATOM	31439	C3	GUA	600	121.798	91.228	28.188	1.00	60.17	A.
ATOM	31387	N3	CYT	598	121.701	97.268	19.034	1.00	74.32	Al6s	ATOM	31440	O3	GUA	600	121.413	90.761	29.486	1.00	60.17	A.
ATOM	31388	C4	CYT	598	122.825	97.976	18.949	1.00	74.32	Al6s	ATOM	31441	P	CYT	601	122.199	91.313	30.782	1.00	48.59	A.
ATOM	31389	N4	CYT	598	123.932	97.338	18.581	1.00	74.32	Al6s	ATOM	31442	OLP	CYT	601	121.593	90.656	31.968	1.00	69.21	A.
ATOM	31390	C5	CYT	598	122.864	99.368	19.243	1.00	74.32	Al6s	ATOM	31443	O2P	CYT	601	122.239	92.796	30.716	1.00	69.21	A.
ATOM	31391	C2	CYT	598	119.044	99.741	21.632	1.00	66.94	Al6s	ATOM	31444	O5	CYT	601	123.683	90.739	30.606	1.00	48.59	A.
ATOM	31392	O2	CYT	598	117.660	99.851	21.888	1.00	66.94	Al6s	ATOM	31445	C5	CYT	601	123.913	89.355	30.823	1.00	48.59	A.
ATOM	31393	C3	CYT	598	119.775	100.952	22.171	1.00	66.94	Al6s	ATOM	31446	C4	CYT	601	125.302	88.900	30.391	1.00	48.59	A.
ATOM	31394	O3	CYT	598	119.274	101.253	23.459	1.00	66.94	Al6s	ATOM	31447	O4	CYT	601	125.562	89.114	28.985	1.00	48.59	A.

ATOM	31448	C1	CYT	601	126.900	88.730	28.747	1.00	48.59	Al6s	ATOM	31501	P	ADE	604	129.986	96.072	25.883	1.00	45.44	F
ATOM	31449	N1	CYT	601	127.555	89.631	27.789	1.00	69.21	Al6s	ATOM	31502	OlP	ADE	604	129.369	97.154	25.079	1.00	62.57	F
ATOM	31450	C6	CYT	601	127.237	90.954	27.691	1.00	69.21	Al6s	ATOM	31503	O2P	ADE	604	129.197	94.863	26.201	1.00	62.57	F
ATOM	31451	C2	CYT	601	128.562	89.092	26.999	1.00	69.21	Al6s	ATOM	31504	O5	ADE	604	131.345	95.654	25.170	1.00	45.44	F
ATOM	31452	O2	CYT	601	128.777	87.881	27.067	1.00	69.21	Al6s	ATOM	31505	C5	ADE	604	132.286	96.654	24.784	1.00	45.44	F
ATOM	31453	N3	CYT	601	129.270	89.891	26.179	1.00	69.21	Al6s	ATOM	31506	C4	ADE	604	133.643	96.042	24.544	1.00	45.44	F
ATOM	31454	C4	CYT	601	128.985	91.186	26.110	1.00	69.21	Al6s	ATOM	31507	O4	ADE	604	134.139	95.469	25.781	1.00	45.44	F
ATOM	31455	N4	CYT	601	129.731	91.941	25.301	1.00	69.21	Al6s	ATOM	31508	C1	ADE	604	134.839	94.272	25.507	1.00	45.44	F
ATOM	31456	C5	CYT	601	127.923	91.764	26.873	1.00	69.21	Al6s	ATOM	31509	N9	ADE	604	134.118	93.176	26.153	1.00	62.57	F
ATOM	31457	C2	CYT	601	127.616	88.701	30.104	1.00	48.59	Al6s	ATOM	31510	C4	ADE	604	134.647	91.969	26.535	1.00	62.57	F
ATOM	31458	O2	CYT	601	127.850	87.350	30.429	1.00	48.59	Al6s	ATOM	31511	N3	ADE	604	135.923	91.571	26.432	1.00	62.57	F
ATOM	31459	C3	CYT	601	126.597	89.365	31.036	1.00	48.59	Al6s	ATOM	31512	C2	ADE	604	136.063	90.333	26.882	1.00	62.57	F
ATOM	31460	O3	CYT	601	126.736	88.827	32.356	1.00	48.59	Al6s	ATOM	31513	N1	ADE	604	135.144	89.510	27.380	1.00	62.57	F
ATOM	31461	P	URI	602	128.122	89.004	33.183	1.00	53.38	Al6s	ATOM	31514	C6	ADE	604	133.871	89.940	27.468	1.00	62.57	F
ATOM	31462	OlP	URI	602	129.270	88.552	32.349	1.00	64.93	Al6s	ATOM	31515	N6	ADE	604	132.952	89.107	27.949	1.00	62.57	F
ATOM	31463	O2P	URI	602	127.919	88.411	34.529	1.00	64.93	Al6s	ATOM	31516	C5	ADE	604	133.592	91.238	27.038	1.00	62.57	F
ATOM	31464	O5	URI	602	128.301	90.570	33.379	1.00	53.38	Al6s	ATOM	31517	N7	ADE	604	132.419	91.981	27.007	1.00	62.57	F
ATOM	31465	C5	URI	602	127.238	91.366	33.848	1.00	53.38	Al6s	ATOM	31518	C8	ADE	604	132.785	93.123	26.479	1.00	62.57	F
ATOM	31466	C4	URI	602	127.738	92.749	34.116	1.00	53.38	Al6s	ATOM	31519	C2	ADE	604	134.914	94.135	23.982	1.00	45.44	F
ATOM	31467	Cl	URI	602	128.619	92.720	35.258	1.00	53.38	Al6s	ATOM	31520	O2	ADE	604	136.098	94.749	23.508	1.00	45.44	F
ATOM	31468	O1	URI	602	129.674	93.642	35.070	1.00	53.38	Al6s	ATOM	31521	C3	ADE	604	133.670	94.898	23.550	1.00	45.44	F
ATOM	31469	N1	URI	602	130.927	92.886	35.130	1.00	64.93	Al6s	ATOM	31522	O3	ADE	604	133.807	95.415	22.231	1.00	45.44	F
ATOM	31470	C6	URI	602	131.082	91.702	34.460	1.00	64.93	Al6s	ATOM	31523	P	ADE	605	133.096	94.664	21.005	1.00	55.91	F
ATOM	31471	C2	URI	602	131.940	93.407	35.893	1.00	64.93	Al6s	ATOM	31524	OlP	ADE	605	133.458	95.415	19.779	1.00	57.15	F
ATOM	31472	O2	URI	602	131.842	94.472	36.480	1.00	64.93	Al6s	ATOM	31525	O2P	ADE	605	131.661	94.451	21.342	1.00	57.15	F
ATOM	31473	N3	URI	602	133.075	92.643	35.944	1.00	64.93	Al6s	ATOM	31526	O5	ADE	605	133.850	93.258	20.941	1.00	55.91	F
ATOM	31474	C4	URI	602	133.293	91.449	35.314	1.00	64.93	Al6s	ATOM	31527	C5	ADE	605	135.193	93.192	20.481	1.00	55.91	F
ATOM	31475	O5	URI	602	134.354	90.876	35.473	1.00	64.93	Al6s	ATOM	31528	C4	ADE	605	135.805	91.847	20.787	1.00	55.91	F
ATOM	31476	C5	URI	602	132.203	90.985	34.524	1.00	64.93	Al6s	ATOM	31529	O4	ADE	605	135.854	91.631	22.221	1.00	55.91	F
ATOM	31477	C2	URI	602	129.443	94.337	33.728	1.00	53.38	Al6s	ATOM	31530	Cl	ADE	605	135.780	90.239	22.485	1.00	55.91	F
ATOM	31478	O2	URI	602	128.758	95.561	33.911	1.00	53.38	Al6s	ATOM	31531	N9	ADE	605	134.551	89.973	23.216	1.00	57.15	F
ATOM	31479	C3	URI	602	128.594	93.305	33.003	1.00	53.38	Al6s	ATOM	31532	C4	ADE	605	134.272	88.830	23.918	1.00	57.15	F
ATOM	31480	O3	URI	602	127.770	93.889	32.019	1.00	53.38	Al6s	ATOM	31533	N3	ADE	605	135.094	87.789	24.138	1.00	57.15	F
ATOM	31481	P	CYT	603	128.058	93.583	30.478	1.00	52.93	Al6s	ATOM	31534	C2	ADE	605	134.467	86.836	24.816	1.00	57.15	F
ATOM	31482	OlP	CYT	603	126.914	94.153	29.707	1.00	56.03	Al6s	ATOM	31535	N1	ADE	605	133.209	86.810	25.264	1.00	57.15	F
ATOM	31483	O2P	CYT	603	128.382	92.143	30.347	1.00	56.03	Al6s	ATOM	31536	C6	ADE	605	132.417	87.877	25.029	1.00	57.15	F
ATOM	31484	O5	CYT	603	129.394	94.399	30.173	1.00	52.93	Al6s	ATOM	31537	N6	ADE	605	131.161	87.850	25.472	1.00	57.15	F
ATOM	31485	C5	CYT	603	129.403	95.813	30.218	1.00	52.93	Al6s	ATOM	31538	C5	ADE	605	132.965	88.953	24.326	1.00	57.15	F
ATOM	31486	C4	CYT	603	130.689	96.349	29.650	1.00	52.93	Al6s	ATOM	31539	N7	ADE	605	132.443	90.175	23.933	1.00	57.15	F
ATOM	31487	Cl	CYT	603	131.781	95.918	30.488	1.00	52.93	Al6s	ATOM	31540	C8	ADE	605	133.431	90.747	23.296	1.00	57.15	F
ATOM	31488	O1	CYT	603	132.958	95.826	29.713	1.00	52.93	Al6s	ATOM	31541	C2	ADE	605	135.689	89.533	21.132	1.00	55.91	F
ATOM	31489	N1	CYT	603	133.541	94.498	29.920	1.00	56.03	Al6s	ATOM	31542	O2	ADE	605	136.981	89.145	20.713	1.00	55.91	F
ATOM	31490	C6	CYT	603	132.754	93.416	30.191	1.00	56.03	Al6s	ATOM	31543	C3	ADE	605	135.074	90.625	20.225	1.00	55.91	F
ATOM	31491	O2	CYT	603	134.914	94.367	29.851	1.00	56.03	Al6s	ATOM	31544	O3	ADE	605	135.378	90.412	18.903	1.00	55.91	F
ATOM	31492	O2	CYT	603	135.586	95.364	29.584	1.00	56.03	Al6s	ATOM	31545	P	CYT	606	134.189	90.333	17.824	1.00	56.24	F
ATOM	31493	N3	CYT	603	135.476	93.166	30.078	1.00	56.03	Al6s	ATOM	31546	OlP	CYT	606	134.794	89.825	16.569	1.00	48.95	F
ATOM	31494	C4	CYT	603	134.706	92.117	30.363	1.00	56.03	Al6s	ATOM	31547	O2P	CYT	606	133.426	91.607	17.809	1.00	48.95	F
ATOM	31495	N4	CYT	603	135.300	90.951	30.603	1.00	56.03	Al6s	ATOM	31548	O5	CYT	606	133.236	89.193	18.384	1.00	56.24	F
ATOM	31496	C5	CYT	603	133.292	92.217	28.418	1.00	56.03	Al6s	ATOM	31549	C5	CYT	606	133.693	87.853	18.475	1.00	56.24	F
ATOM	31497	C2	CYT	603	132.588	96.145	28.263	1.00	52.93	Al6s	ATOM	31550	C4	CYT	606	132.753	87.553	19.682	1.00	56.24	F
ATOM	31498	O2	CYT	603	132.878	97.505	28.010	1.00	52.93	Al6s	ATOM	31551	O4	CYT	606	132.792	87.560	20.322	1.00	56.24	F
ATOM	31499	C3	CYT	603	131.087	95.888	28.257	1.00	52.93	Al6s	ATOM	31552	Cl	CYT	606	131.485	87.534	21.231	1.00	56.24	F
ATOM	31500	O3	CYT	603	130.475	96.711	27.271	1.00	52.93	Al6s	ATOM	31553	N1	CYT	606	131.029	88.914	21.424	1.00	48.95	F

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ATOM	31554	C6	CYT	606	131.728	89.974	20.919	1.00	48.95	Al6S	ATOM	31607	O3' GUA	608	118.896	87.249	17.086	1.00	48.85	Al
ATOM	31555	C2	CYT	606	129.848	89.119	22.132	1.00	48.95	Al6S	ATOM	31608	P URI	609	118.320	87.736	15.679	1.00	51.63	Al
ATOM	31556	O2	CYT	606	129.239	88.131	22.573	1.00	48.95	Al6S	ATOM	31609	O1P URI	609	117.237	86.825	15.258	1.00	56.73	Al
ATOM	31557	N3	CYT	606	129.395	90.380	22.317	1.00	48.95	Al6S	ATOM	31610	O2P URI	609	119.480	87.952	14.782	1.00	56.73	Al
ATOM	31558	C4	CYT	606	130.083	91.408	21.827	1.00	48.95	Al6S	ATOM	31611	O5' URI	609	117.655	89.134	16.034	1.00	51.63	Al
ATOM	31559	N4	CYT	606	129.604	92.624	22.044	1.00	48.95	Al6S	ATOM	31612	C5' URI	609	116.457	89.187	16.797	1.00	51.63	Al
ATOM	31560	C5	CYT	606	131.294	91.227	21.094	1.00	48.95	Al6S	ATOM	31613	C4' URI	609	115.949	90.608	16.880	1.00	51.63	Al
ATOM	31561	C2' CYT	606	130.593	86.813	20.220	1.00	56.24	Al6S	ATOM	31614	O4' URI	609	116.826	91.401	17.723	1.00	51.63	Al	
ATOM	31562	O2' CYT	606	130.619	85.432	20.526	1.00	56.24	Al6S	ATOM	31615	C1' URI	609	116.899	92.728	17.221	1.00	51.63	Al	
ATOM	31563	C3' CYT	606	131.294	87.168	18.917	1.00	56.24	Al6S	ATOM	31616	N1 URI	609	118.277	92.970	16.775	1.00	56.73	Al	
ATOM	31564	O3' CYT	606	131.000	86.260	17.868	1.00	56.24	Al6S	ATOM	31617	C6 URI	609	119.101	91.935	16.432	1.00	56.73	Al	
ATOM	31565	P CYT	607	129.955	86.676	16.719	1.00	45.20	Al6S	ATOM	31618	C2 URI	609	118.705	94.271	16.702	1.00	56.73	Al	
ATOM	31566	O1P CYT	607	129.872	85.566	15.731	1.00	65.24	Al6S	ATOM	31619	O2 URI	609	118.007	95.217	17.025	1.00	56.73	Al	
ATOM	31567	O2P CYT	607	130.285	88.049	16.246	1.00	65.24	Al6S	ATOM	31620	N3 URI	609	119.985	94.431	16.243	1.00	56.73	Al	
ATOM	31568	O5' CYT	607	128.574	86.736	17.498	1.00	45.20	Al6S	ATOM	31621	C4 URI	609	120.856	93.443	15.870	1.00	56.73	Al	
ATOM	31569	C5' CYT	607	128.028	85.567	18.049	1.00	45.20	Al6S	ATOM	31622	O4 URI	609	121.974	93.746	15.459	1.00	56.73	Al	
ATOM	31570	C4' CYT	607	126.839	85.907	18.897	1.00	45.20	Al6S	ATOM	31623	C5 URI	609	120.341	92.121	15.994	1.00	56.73	Al	
ATOM	31571	O4' CYT	607	127.275	86.733	19.995	1.00	45.20	Al6S	ATOM	31624	C2' URI	609	115.904	92.815	16.066	1.00	51.63	Al	
ATOM	31572	C1' CYT	607	126.225	87.601	20.364	1.00	45.20	Al6S	ATOM	31625	O2' URI	609	114.641	93.196	16.569	1.00	51.63	Al	
ATOM	31573	N1 CYT	607	126.706	88.972	20.231	1.00	65.24	Al6S	ATOM	31626	C3' URI	609	115.904	91.379	15.574	1.00	51.63	Al	
ATOM	31574	C6 CYT	607	127.847	89.249	19.541	1.00	65.24	Al6S	ATOM	31627	O3' URI	609	114.715	91.100	14.872	1.00	51.63	Al	
ATOM	31575	C2 CYT	607	125.967	89.987	20.807	1.00	65.24	Al6S	ATOM	31628	P GUA	610	114.658	91.358	13.295	1.00	66.19	Al	
ATOM	31576	O2 CYT	607	124.950	89.690	21.457	1.00	65.24	Al6S	ATOM	31629	O1P GUA	610	113.301	90.982	12.831	1.00	68.78	Al	
ATOM	31577	N3 CYT	607	126.371	91.261	20.652	1.00	65.24	Al6S	ATOM	31630	O2P GUA	610	115.852	90.735	12.674	1.00	68.78	Al	
ATOM	31578	C4 CYT	607	127.475	91.527	19.962	1.00	65.24	Al6S	ATOM	31631	O5' GUA	610	114.794	92.937	13.163	1.00	66.19	Al	
ATOM	31579	N4 CYT	607	127.830	92.801	19.819	1.00	65.24	Al6S	ATOM	31632	C5' GUA	610	113.753	93.784	13.609	1.00	66.19	Al	
ATOM	31580	C5 CYT	607	128.264	90.501	19.384	1.00	65.24	Al6S	ATOM	31633	C4' GUA	610	114.191	95.223	13.558	1.00	66.19	Al	
ATOM	31581	C2' CYT	607	125.042	87.327	19.432	1.00	45.20	Al6S	ATOM	31634	O4' GUA	610	115.326	95.429	14.441	1.00	66.19	Al	
ATOM	31582	O2' CYT	607	124.136	86.457	20.075	1.00	45.20	Al6S	ATOM	31635	C1' GUA	610	116.134	96.476	13.926	1.00	66.19	Al	
ATOM	31583	C3' CYT	607	125.742	86.714	17.530	1.00	45.20	Al6S	ATOM	31636	N9 GUA	610	117.452	95.939	13.609	1.00	68.78	Al	
ATOM	31584	O3' CYT	607	124.876	85.851	17.510	1.00	45.20	Al6S	ATOM	31637	C4 GUA	610	118.565	96.674	13.276	1.00	68.78	Al	
ATOM	31585	P GUA	608	123.742	86.469	16.565	1.00	48.85	Al6S	ATOM	31638	N3 GUA	610	118.639	98.019	13.221	1.00	68.78	Al	
ATOM	31586	O1P GUA	608	123.022	85.357	15.893	1.00	57.40	Al6S	ATOM	31639	C2 GUA	610	119.839	98.430	12.859	1.00	68.78	Al	
ATOM	31587	O2P GUA	608	124.369	87.533	15.748	1.00	57.40	Al6S	ATOM	31640	N2 GUA	610	120.093	99.734	12.764	1.00	68.78	Al	
ATOM	31588	O5' GUA	608	122.715	87.131	17.586	1.00	48.85	Al6S	ATOM	31641	N1 GUA	610	120.882	97.592	12.563	1.00	68.78	Al	
ATOM	31589	C5' GUA	608	121.771	86.325	18.278	1.00	48.85	Al6S	ATOM	31642	C6 GUA	610	120.826	96.207	12.604	1.00	68.78	Al	
ATOM	31590	C4' GUA	608	120.629	87.167	18.770	1.00	48.85	Al6S	ATOM	31643	O6 GUA	610	121.815	95.548	12.294	1.00	68.78	Al	
ATOM	31591	O4' GUA	608	121.151	88.137	19.705	1.00	48.85	Al6S	ATOM	31644	C5 GUA	610	119.547	95.748	13.009	1.00	68.78	Al	
ATOM	31592	C1' GUA	608	120.460	89.362	19.557	1.00	48.85	Al6S	ATOM	31645	N7 GUA	610	119.070	94.458	13.193	1.00	68.78	Al	
ATOM	31593	N9 GUA	608	121.431	90.364	19.141	1.00	57.40	Al6S	ATOM	31646	C8 GUA	610	117.825	94.621	13.551	1.00	68.78	Al	
ATOM	31594	C4 GUA	608	121.262	91.720	19.165	1.00	57.40	Al6S	ATOM	31647	C2' GUA	610	115.446	96.971	12.654	1.00	66.19	Al	
ATOM	31595	N3 GUA	608	120.161	92.368	19.587	1.00	57.40	Al6S	ATOM	31648	O2' GUA	610	114.540	97.999	12.978	1.00	66.19	Al	
ATOM	31596	C2 GUA	608	120.295	93.676	19.493	1.00	57.40	Al6S	ATOM	31649	C3' GUA	610	114.707	95.720	12.224	1.00	66.19	Al	
ATOM	31597	N2 GUA	608	119.293	94.480	19.877	1.00	57.40	Al6S	ATOM	31650	O3' GUA	610	113.651	96.052	11.346	1.00	66.19	Al	
ATOM	31598	N1 GUA	608	121.420	94.295	19.015	1.00	57.40	Al6S	ATOM	31651	P GUA	611	113.960	96.238	9.786	1.00	76.73	Al	
ATOM	31599	C6 GUA	608	122.561	93.646	18.566	1.00	57.40	Al6S	ATOM	31652	O1P GUA	611	112.679	96.544	9.101	1.00	66.06	Al	
ATOM	31600	O6 GUA	608	123.513	94.303	18.132	1.00	57.40	Al6S	ATOM	31653	O2P GUA	611	114.781	97.545	9.322	1.00	66.06	Al	
ATOM	31601	C5 GUA	608	122.435	92.244	18.675	1.00	57.40	Al6S	ATOM	31654	O5' GUA	611	114.865	97.545	9.750	1.00	76.73	Al	
ATOM	31602	N7 GUA	608	123.331	91.234	18.359	1.00	57.40	Al6S	ATOM	31655	C5' GUA	611	114.323	98.811	10.096	1.00	76.73	Al	
ATOM	31603	C8 GUA	608	122.693	90.137	18.650	1.00	57.40	Al6S	ATOM	31656	C4' GUA	611	115.346	99.891	9.858	1.00	76.73	Al	
ATOM	31604	C2' GUA	608	119.347	89.136	18.533	1.00	48.85	Al6S	ATOM	31657	O4' GUA	611	116.503	99.651	10.708	1.00	76.73	Al	
ATOM	31605	O2' GUA	608	118.158	88.763	19.195	1.00	48.85	Al6S	ATOM	31658	C1' GUA	611	117.687	100.030	10.022	1.00	76.73	Al	
ATOM	31606	C3' GUA	608	119.926	87.995	17.711	1.00	48.85	Al6S	ATOM	31659	N9 GUA	611	118.483	98.829	9.795	1.00	66.06	Al	

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ATOM	31660	C4	GUA	611	119.836	98.767	9.562	1.00	66.06	Al6S	ATOM	31713	C5	GUA	613	122.282	97.630	1.833	1.00	83.17	F
ATOM	31661	N3	GUA	611	120.683	99.815	9.506	1.00	66.06	Al6S	ATOM	31714	N7	GUA	613	121.028	98.212	1.953	1.00	83.17	F
ATOM	31662	C2	GUA	611	121.924	99.430	9.259	1.00	66.06	Al6S	ATOM	31715	C8	GUA	613	121.252	99.491	1.824	1.00	83.17	F
ATOM	31663	N2	GUA	611	122.899	100.338	9.166	1.00	66.06	Al6S	ATOM	31716	C2	GUA	613	123.384	101.423	-0.068	1.00	92.68	F
ATOM	31664	N1	GUA	611	122.300	98.123	9.087	1.00	66.06	Al6S	ATOM	31717	O2	GUA	613	124.522	102.245	-0.216	1.00	92.68	F
ATOM	31665	C6	GUA	611	121.443	97.030	9.146	1.00	66.06	Al6S	ATOM	31718	C3	GUA	613	122.091	102.147	-0.420	1.00	92.68	F
ATOM	31666	O6	GUA	611	121.884	95.889	8.984	1.00	66.06	Al6S	ATOM	31719	O3	GUA	613	121.263	103.001	-1.547	1.00	92.68	F
ATOM	31667	C5	GUA	611	120.116	97.426	9.401	1.00	66.06	Al6S	ATOM	31720	P	GUA	614	121.974	102.437	-3.026	1.00	101.64	F
ATOM	31668	N7	GUA	611	118.966	96.664	9.529	1.00	66.06	Al6S	ATOM	31721	O1P	GUA	614	120.570	101.943	-3.047	1.00	112.75	F
ATOM	31669	C8	GUA	611	118.024	97.536	9.763	1.00	66.06	Al6S	ATOM	31722	O2P	GUA	614	122.406	103.464	-4.011	1.00	112.75	F
ATOM	31670	C2	GUA	611	117.240	100.677	8.713	1.00	76.73	Al6S	ATOM	31723	O5	GUA	614	122.958	101.188	-3.151	1.00	101.64	F
ATOM	31671	O2	GUA	611	117.034	102.052	8.944	1.00	76.73	Al6S	ATOM	31724	C5	GUA	614	124.370	101.376	-3.222	1.00	101.64	F
ATOM	31672	C3	GUA	611	115.934	99.941	8.459	1.00	76.73	Al6S	ATOM	31725	C4	GUA	614	125.072	100.046	-3.375	1.00	101.64	F
ATOM	31673	O3	GUA	611	115.085	100.645	7.561	1.00	76.73	Al6S	ATOM	31726	O4	GUA	614	124.963	99.274	-2.151	1.00	101.64	F
ATOM	31674	P	GUA	612	115.271	100.448	5.977	1.00	81.04	Al6S	ATOM	31727	C1	GUA	614	124.814	97.899	-2.468	1.00	101.64	F
ATOM	31675	O1P	GUA	612	114.284	101.320	5.298	1.00	76.92	Al6S	ATOM	31728	N9	GUA	614	123.493	97.480	-2.011	1.00	112.75	F
ATOM	31676	O2P	GUA	612	115.301	99.003	5.664	1.00	76.92	Al6S	ATOM	31729	C4	GUA	614	123.036	96.191	-1.904	1.00	112.75	F
ATOM	31677	O5	GUA	612	116.725	101.026	5.702	1.00	81.04	Al6S	ATOM	31730	N3	GUA	614	123.734	95.077	-2.207	1.00	112.75	F
ATOM	31678	C5	GUA	612	117.028	102.385	5.981	1.00	81.04	Al6S	ATOM	31731	C2	GUA	614	123.023	93.980	-2.008	1.00	112.75	F
ATOM	31679	C4	GUA	612	118.444	102.686	5.578	1.00	81.04	Al6S	ATOM	31732	N2	GUA	614	123.563	92.779	-1.543	1.00	112.75	F
ATOM	31680	O4	GUA	612	119.371	102.015	6.473	1.00	81.04	Al6S	ATOM	31733	N1	GUA	614	120.993	95.115	-1.223	1.00	112.75	F
ATOM	31681	C1	GUA	612	120.513	101.591	5.742	1.00	81.04	Al6S	ATOM	31734	C6	GUA	614	119.831	95.002	-0.809	1.00	112.75	F
ATOM	31682	N9	GUA	612	120.557	100.135	5.772	1.00	76.92	Al6S	ATOM	31735	O6	GUA	614	121.744	96.299	-1.438	1.00	112.75	F
ATOM	31683	C4	GUA	612	121.670	99.349	5.606	1.00	76.92	Al6S	ATOM	31736	C5	GUA	614	121.394	97.630	-1.257	1.00	112.75	F
ATOM	31684	N3	GUA	612	122.929	99.788	5.407	1.00	76.92	Al6S	ATOM	31737	N7	GUA	614	122.461	98.293	-1.608	1.00	112.75	F
ATOM	31685	C2	GUA	612	123.782	98.788	5.268	1.00	76.92	Al6S	ATOM	31738	C8	GUA	614	124.979	97.768	-3.984	1.00	101.64	F
ATOM	31686	N1	GUA	612	125.076	99.038	5.073	1.00	76.92	Al6S	ATOM	31739	C2	GUA	614	126.335	97.523	-4.300	1.00	101.64	F
ATOM	31687	C6	GUA	612	123.428	97.464	5.313	1.00	76.92	Al6S	ATOM	31740	O2	GUA	614	125.509	99.137	-4.450	1.00	101.64	F
ATOM	31688	N2	GUA	612	122.141	96.988	5.512	1.00	76.92	Al6S	ATOM	31741	C3	GUA	614	125.055	99.478	-5.710	1.00	101.64	F
ATOM	31689	O6	GUA	612	121.932	95.773	5.525	1.00	76.92	Al6S	ATOM	31742	O3	GUA	614	124.084	99.984	-6.882	1.00	77.39	F
ATOM	31690	C7	GUA	612	121.213	98.049	5.674	1.00	76.92	Al6S	ATOM	31743	P	ADE	615	122.882	99.112	-6.888	1.00	111.18	P
ATOM	31691	N5	GUA	612	119.843	98.020	5.894	1.00	76.92	Al6S	ATOM	31744	O1P	ADE	615	124.922	99.701	-8.207	1.00	77.39	P
ATOM	31692	C8	GUA	612	119.499	99.278	5.948	1.00	76.92	Al6S	ATOM	31745	O2P	ADE	615	126.247	100.190	-8.339	1.00	77.39	P
ATOM	31693	C2	GUA	612	120.335	102.105	4.314	1.00	81.04	Al6S	ATOM	31746	O5	ADE	615	127.163	99.085	-8.792	1.00	77.39	P
ATOM	31694	O2	GUA	612	120.911	103.388	4.188	1.00	81.04	Al6S	ATOM	31747	C5	ADE	615	127.270	98.073	-7.756	1.00	77.39	P
ATOM	31695	C3	GUA	612	118.821	102.145	4.217	1.00	81.04	Al6S	ATOM	31748	O4	ADE	615	127.416	96.793	-8.355	1.00	77.39	P
ATOM	31696	O3	GUA	612	118.362	102.992	3.186	1.00	81.04	Al6S	ATOM	31749	C1	ADE	615	126.287	95.953	-7.948	1.00	111.18	P
ATOM	31697	P	GUA	613.	118.079	102.375	1.737	1.00	92.68	Al6S	ATOM	31750	C1	ADE	615	126.279	93.744	-8.207	1.00	111.18	P
ATOM	31698	O1P	GUA	613	117.317	103.403	0.984	1.00	83.17	Al6S	ATOM	31751	N9	ADE	615	126.287	95.953	-7.948	1.00	111.18	P
ATOM	31699	O2P	GUA	613	117.505	101.018	1.918	1.00	83.17	Al6S	ATOM	31752	C4	ADE	615	126.269	94.580	-7.915	1.00	111.18	P
ATOM	31700	O5	GUA	613	119.363	102.247	1.105	1.00	92.68	Al6S	ATOM	31753	N3	ADE	615	127.279	92.744	-8.207	1.00	111.18	P
ATOM	31701	C5	GUA	613	120.404	103.379	1.077	1.00	92.68	Al6S	ATOM	31754	C2	ADE	615	125.696	91.989	-7.732	1.00	111.18	P
ATOM	31702	C4	GUA	613	121.833	102.953	0.840	1.00	92.68	Al6S	ATOM	31755	N1	ADE	615	124.701	92.856	-7.451	1.00	111.18	P
ATOM	31703	O4	GUA	613	122.260	102.079	1.916	1.00	92.68	Al6S	ATOM	31756	C6	ADE	615	123.504	92.369	-7.118	1.00	111.18	P
ATOM	31704	C1	GUA	613	122.162	101.108	1.413	1.00	92.68	Al6S	ATOM	31757	N6	ADE	615	124.988	94.228	-7.534	1.00	111.18	P
ATOM	31705	N9	GUA	613	122.578	99.788	1.621	1.00	83.17	Al6S	ATOM	31758	C5	ADE	615	124.217	95.358	-7.304	1.00	111.18	P
ATOM	31706	C4	GUA	613	123.251	98.591	1.636	1.00	83.17	Al6S	ATOM	31759	N7	ADE	615	125.033	96.351	-7.557	1.00	111.18	P
ATOM	31707	N3	GUA	613	124.936	98.428	1.482	1.00	83.17	Al6S	ATOM	31760	C8	ADE	615	127.451	97.008	-9.872	1.00	77.39	P
ATOM	31708	C2	GUA	613	126.229	96.809	1.424	1.00	83.17	Al6S	ATOM	31761	O2	ADE	615	126.692	98.322	-10.012	1.00	77.39	P
ATOM	31709	N2	GUA	613	124.045	96.120	1.720	1.00	83.17	Al6S	ATOM	31763	C3	ADE	615	127.046	99.016	-11.197	1.00	77.39	P
ATOM	31710	N1	GUA	613	122.670	96.267	1.880	1.00	83.17	Al6S	ATOM	31764	O3	ADE	615	126.257	98.715	-12.565	1.00	64.58	P
ATOM	31711	C6	GUA	613	121.957	95.270	2.035	1.00	83.17	Al6S	ATOM	31765	P	GUA	616						A

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ATOM	31766	O1P	GUA	616	127.151	99.146	-13.673	1.00	74.16	Al6s	ATOM	31819	C2	GUA	618	113.091	93.264	-13.765	1.00	63.37	Al
ATOM	31767	O2P	GUA	616	124.870	99.250	-12.500	1.00	74.16	Al6s	ATOM	31820	N2	GUA	618	111.827	93.036	-13.398	1.00	63.37	Al
ATOM	31768	O5'	GUA	616	126.182	97.125	-12.616	1.00	64.58	Al6s	ATOM	31821	N1	GUA	618	113.620	94.463	-13.371	1.00	63.37	Al
ATOM	31769	C3'	GUA	616	127.306	96.359	-13.033	1.00	64.58	Al6s	ATOM	31822	C6	GUA	618	114.915	94.890	-13.635	1.00	63.37	Al
ATOM	31770	C4'	GUA	616	126.917	94.914	-13.190	1.00	64.58	Al6s	ATOM	31823	O6	GUA	618	115.291	96.004	-13.238	1.00	63.37	Al
ATOM	31771	O4'	GUA	616	126.585	94.361	-11.886	1.00	64.58	Al6s	ATOM	31824	C5	GUA	618	115.639	93.919	-14.367	1.00	63.37	Al
ATOM	31772	C1'	GUA	616	125.519	93.438	-12.021	1.00	64.58	Al6s	ATOM	31825	N7	GUA	618	116.946	93.931	-14.824	1.00	63.37	Al
ATOM	31773	N9	GUA	616	124.358	93.975	-11.316	1.00	74.16	Al6s	ATOM	31826	C8	GUA	618	117.080	92.789	-15.437	1.00	63.37	Al
ATOM	31774	C4	GUA	616	123.215	93.249	-10.779	1.00	74.16	Al6s	ATOM	31827	C2'	GUA	618	114.834	90.751	-17.204	1.00	52.44	Al
ATOM	31775	N3	GUA	616	123.215	91.904	-10.782	1.00	74.16	Al6s	ATOM	31828	O2'	GUA	618	114.067	89.567	-17.210	1.00	52.44	Al
ATOM	31776	C2	GUA	616	122.104	91.496	-10.197	1.00	74.16	Al6s	ATOM	31829	C3'	GUA	618	115.863	90.843	-18.324	1.00	52.44	Al
ATOM	31777	N2	GUA	616	121.838	90.180	-10.110	1.00	74.16	Al6s	ATOM	31830	O3'	GUA	618	115.367	90.447	-19.591	1.00	52.44	Al
ATOM	31778	C1	GUA	616	121.175	92.343	-9.654	1.00	74.16	Al6s	ATOM	31831	P	URI	619	114.773	91.562	-20.575	1.00	49.23	Al
ATOM	31779	N6	GUA	616	121.265	93.731	-9.642	1.00	74.16	Al6s	ATOM	31832	O1P	URI	619	114.373	90.948	-21.862	1.00	53.69	Al
ATOM	31780	O6	GUA	616	120.364	94.398	-9.129	1.00	74.16	Al6s	ATOM	31833	O2P	URI	619	115.693	92.715	-20.563	1.00	53.69	Al
ATOM	31781	C5	GUA	616	122.451	94.181	-10.264	1.00	74.16	Al6s	ATOM	31834	O5'	URI	619	113.457	92.019	-19.828	1.00	49.23	Al
ATOM	31782	N7	GUA	616	122.931	95.466	-10.461	1.00	74.16	Al6s	ATOM	31835	C5'	URI	619	112.404	91.101	-19.620	1.00	49.23	Al
ATOM	31783	C8	GUA	616	124.065	95.296	-11.082	1.00	74.16	Al6s	ATOM	31836	C4'	URI	619	111.708	92.214	-17.616	1.00	49.23	Al
ATOM	31784	C2'	GUA	616	125.250	93.298	-13.522	1.00	64.58	Al6s	ATOM	31837	O4'	URI	619	111.035	93.412	-17.268	1.00	49.23	Al
ATOM	31785	O2'	GUA	616	126.051	92.272	-14.056	1.00	64.58	Al6s	ATOM	31838	C1'	URI	619	111.708	92.214	-17.616	1.00	49.23	Al
ATOM	31786	C3'	GUA	616	125.672	94.669	-14.018	1.00	64.58	Al6s	ATOM	31839	N1	URI	619	113.326	94.436	-16.936	1.00	53.69	Al
ATOM	31787	O3'	GUA	616	125.952	94.659	-15.405	1.00	64.58	Al6s	ATOM	31840	C6	URI	619	113.326	94.358	-17.376	1.00	53.69	Al
ATOM	31788	P	CYT	617	124.777	94.995	-16.448	1.00	44.79	Al6s	ATOM	31841	C2	URI	619	111.609	95.496	-16.172	1.00	53.69	Al
ATOM	31789	O1P	CYT	617	125.325	94.891	-17.829	1.00	61.61	Al6s	ATOM	31842	O2	URI	619	110.467	95.595	-15.765	1.00	53.69	Al
ATOM	31790	O2P	CYT	617	124.127	96.255	-16.008	1.00	61.61	Al6s	ATOM	31843	N3	URI	619	112.563	96.439	-15.908	1.00	53.69	Al
ATOM	31791	O5'	CYT	617	123.730	93.814	-16.234	1.00	44.79	Al6s	ATOM	31844	C4	URI	619	113.862	96.432	-16.326	1.00	53.69	Al
ATOM	31792	C5'	CYT	617	123.995	92.501	-16.729	1.00	44.79	Al6s	ATOM	31845	O4	URI	619	114.579	97.388	-16.060	1.00	53.69	Al
ATOM	31793	C4'	CYT	617	122.870	91.557	-16.365	1.00	44.79	Al6s	ATOM	31846	C5	URI	619	114.232	95.298	-17.105	1.00	53.69	Al
ATOM	31794	O4'	CYT	617	122.759	91.489	-14.915	1.00	44.79	Al6s	ATOM	31847	C2'	URI	619	110.177	93.809	-18.472	1.00	49.23	Al
ATOM	31795	C1'	CYT	617	121.399	91.345	-14.547	1.00	61.61	Al6s	ATOM	31848	O2'	URI	619	108.880	93.263	-18.354	1.00	49.23	Al
ATOM	31796	N1	CYT	617	120.975	92.558	-13.835	1.00	61.61	Al6s	ATOM	31849	C3'	URI	619	110.913	93.112	-19.590	1.00	49.23	Al
ATOM	31797	C6	CYT	617	121.700	93.714	-13.910	1.00	61.61	Al6s	ATOM	31850	O3'	URI	619	110.069	92.924	-20.701	1.00	49.23	Al
ATOM	31798	C2	CYT	617	119.799	92.515	-13.097	1.00	61.61	Al6s	ATOM	31851	P	GUA	620	109.858	94.135	-21.721	1.00	62.00	Al
ATOM	31799	O2	CYT	617	119.195	91.443	-13.006	1.00	61.61	Al6s	ATOM	31852	O1P	GUA	620	108.962	93.682	-22.817	1.00	56.20	Al
ATOM	31800	N3	CYT	617	119.352	93.639	-12.497	1.00	61.61	Al6s	ATOM	31853	O2P	GUA	620	111.202	94.676	-22.048	1.00	56.20	Al
ATOM	31801	C4	CYT	617	120.047	94.768	-12.597	1.00	61.61	Al6s	ATOM	31854	O5'	GUA	620	109.081	95.218	-20.849	1.00	62.00	Al
ATOM	31802	N4	CYT	617	119.558	95.851	-12.004	1.00	61.61	Al6s	ATOM	31855	C5'	GUA	620	107.702	95.063	-20.570	1.00	62.00	Al
ATOM	31803	C5	CYT	617	121.274	94.833	-13.313	1.00	61.61	Al6s	ATOM	31856	C4'	GUA	620	107.171	96.302	-19.908	1.00	62.00	Al
ATOM	31804	C2'	CYT	617	120.619	91.156	-15.844	1.00	44.79	Al6s	ATOM	31857	O4'	GUA	620	107.790	96.473	-18.602	1.00	62.00	Al
ATOM	31805	O2'	CYT	617	120.618	89.779	-16.140	1.00	44.79	Al6s	ATOM	31858	C1'	GUA	620	107.920	97.858	-18.313	1.00	62.00	Al
ATOM	31806	C3'	CYT	617	121.476	91.952	-16.816	1.00	44.79	Al6s	ATOM	31859	N9	GUA	620	109.342	98.168	-18.234	1.00	56.20	Al
ATOM	31807	O3'	CYT	617	121.243	91.569	-18.161	1.00	44.79	Al6s	ATOM	31860	C4	GUA	620	109.920	99.279	-17.662	1.00	56.20	Al
ATOM	31808	P	GUA	618	119.951	92.145	-18.941	1.00	63.37	Al6s	ATOM	31861	N3	GUA	620	109.271	100.282	-17.034	1.00	56.20	Al
ATOM	31809	O1P	GUA	618	119.906	91.575	-20.321	1.00	63.37	Al6s	ATOM	31862	C2	GUA	620	110.109	101.213	-16.589	1.00	56.20	Al
ATOM	31810	O2P	GUA	618	119.940	93.611	-18.739	1.00	63.37	Al6s	ATOM	31863	N2	GUA	620	109.647	102.276	-15.929	1.00	56.20	Al
ATOM	31811	O5'	GUA	618	118.706	91.516	-18.172	1.00	52.44	Al6s	ATOM	31864	N1	GUA	620	111.470	101.168	-16.755	1.00	56.20	Al
ATOM	31812	C5'	GUA	618	118.314	90.172	-18.409	1.00	52.44	Al6s	ATOM	31865	C6	GUA	620	112.160	100.150	-17.395	1.00	56.20	Al
ATOM	31813	C4'	GUA	618	116.953	89.919	-17.827	1.00	52.44	Al6s	ATOM	31866	O6	GUA	620	113.395	100.207	-17.476	1.00	56.20	Al
ATOM	31814	O4'	GUA	618	116.997	90.199	-16.405	1.00	52.44	Al6s	ATOM	31867	C5	GUA	620	111.272	99.138	-17.878	1.00	56.20	Al
ATOM	31815	C1'	GUA	618	115.743	90.707	-15.979	1.00	52.44	Al6s	ATOM	31868	N7	GUA	620	111.537	97.962	-18.563	1.00	56.20	Al
ATOM	31816	N9	GUA	618	115.943	92.028	-15.404	1.00	63.37	Al6s	ATOM	31869	C8	GUA	620	110.367	97.419	-18.745	1.00	56.20	Al
ATOM	31817	C4	GUA	618	115.011	92.749	-14.719	1.00	63.37	Al6s	ATOM	31870	C2'	GUA	620	107.276	98.599	-19.488	1.00	62.00	Al
ATOM	31818	N3	GUA	618	113.751	92.359	-14.460	1.00	63.37	Al6s	ATOM	31871	O2'	GUA	620	105.896	98.777	-19.254	1.00	62.00	Al

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ATOM	31872	C3' GUA	620	107.496	97.604	-20.610	1.00	62.00	Al6s	ATOM	31925	C4' ADE	623	112.602	112.023	-23.764	1.00	50.19	f
ATOM	31873	O3' GUA	620	106.623	97.860	-21.695	1.00	62.00	Al6s	ATOM	31926	O4' ADE	623	113.367	111.074	-22.982	1.00	50.19	f
ATOM	31874	P' GUA	621	107.124	98.791	-22.904	1.00	56.23	Al6s	ATOM	31927	C1' ADE	623	114.690	111.026	-23.467	1.00	50.19	f
ATOM	31875	O1P GUA	621	108.524	98.380	-23.199	1.00	64.14	Al6s	ATOM	31928	N9 ADE	623	114.955	109.679	-23.966	1.00	59.16	f
ATOM	31876	O2P GUA	621	106.103	98.744	-23.993	1.00	64.14	Al6s	ATOM	31929	C4 ADE	623	116.177	109.060	-23.948	1.00	59.16	f
ATOM	31877	O5' GUA	621	107.145	100.257	-22.270	1.00	56.23	Al6s	ATOM	31930	N3 ADE	623	117.326	109.553	-23.460	1.00	59.16	f
ATOM	31878	C5' GUA	621	105.964	100.821	-21.711	1.00	56.23	Al6s	ATOM	31931	C2 ADE	623	118.312	108.686	-23.631	1.00	59.16	f
ATOM	31879	C4' GUA	621	106.270	102.123	-21.006	1.00	56.23	Al6s	ATOM	31932	N1 ADE	623	118.266	107.474	-24.189	1.00	59.16	f
ATOM	31880	O4' GUA	621	107.075	101.881	-19.816	1.00	56.23	Al6s	ATOM	31933	C6 ADE	623	117.114	107.007	-24.665	1.00	59.16	f
ATOM	31881	C1' GUA	621	107.925	102.999	-19.582	1.00	56.23	Al6s	ATOM	31934	N6 ADE	623	117.089	105.793	-25.216	1.00	59.16	f
ATOM	31882	N9 GUA	621	109.310	102.570	-19.765	1.00	64.14	Al6s	ATOM	31935	C5 ADE	623	115.988	107.832	-24.548	1.00	59.16	f
ATOM	31883	C4 GUA	621	110.441	103.264	-19.389	1.00	64.14	Al6s	ATOM	31936	N7 ADE	623	114.665	107.667	-24.924	1.00	59.16	f
ATOM	31884	N3 GUA	621	110.472	104.437	-18.724	1.00	64.14	Al6s	ATOM	31937	C8 ADE	623	114.093	108.787	-24.553	1.00	59.16	f
ATOM	31885	C2 GUA	621	111.705	104.859	-18.525	1.00	64.14	Al6s	ATOM	31938	C2' ADE	623	114.804	112.093	-24.557	1.00	50.19	f
ATOM	31886	N2 GUA	621	111.920	105.984	-17.856	1.00	64.14	Al6s	ATOM	31939	O2' ADE	623	115.199	113.306	-23.946	1.00	50.19	f
ATOM	31887	N1 GUA	621	112.820	104.203	-18.961	1.00	64.14	Al6s	ATOM	31940	C3' ADE	623	113.374	112.156	-25.066	1.00	50.19	f
ATOM	31888	C6 GUA	621	112.821	103.003	-19.659	1.00	64.14	Al6s	ATOM	31941	O3' ADE	623	113.097	113.434	-25.627	1.00	50.19	f
ATOM	31889	O6 GUA	621	113.892	102.508	-20.031	1.00	64.14	Al6s	ATOM	31942	P' URI	624	113.066	113.634	-27.222	1.00	55.88	f
ATOM	31890	C5' GUA	621	111.500	102.516	-19.858	1.00	64.14	Al6s	ATOM	31943	O1P URI	624	112.539	114.992	-27.499	1.00	67.18	f
ATOM	31891	N7 GUA	621	111.050	101.361	-20.483	1.00	64.14	Al6s	ATOM	31944	O2P URI	624	112.440	112.449	-27.860	1.00	67.18	f
ATOM	31892	C8 GUA	621	109.749	101.430	-20.394	1.00	64.14	Al6s	ATOM	31945	O5' URI	624	114.591	113.675	-27.644	1.00	55.88	f
ATOM	31893	C2' GUA	621	107.581	104.033	-20.659	1.00	56.23	Al6s	ATOM	31946	C5' URI	624	115.559	114.312	-26.826	1.00	55.88	f
ATOM	31894	O2' GUA	621	106.574	104.930	-20.248	1.00	56.23	Al6s	ATOM	31947	C4' URI	624	116.908	113.835	-27.239	1.00	55.88	f
ATOM	31895	C3' GUA	621	107.096	103.134	-21.776	1.00	56.23	Al6s	ATOM	31948	O4' URI	624	117.024	112.441	-26.921	1.00	55.88	f
ATOM	31896	O3' GUA	621	106.355	103.876	-22.722	1.00	56.23	Al6s	ATOM	31949	C1' URI	624	117.747	111.792	-27.930	1.00	55.88	f
ATOM	31897	P' GUA	622	107.104	104.453	-24.023	1.00	70.82	Al6s	ATOM	31950	N1 URI	624	117.243	110.415	-28.032	1.00	67.18	f
ATOM	31898	O1P GUA	622	108.004	103.385	-24.527	1.00	60.92	Al6s	ATOM	31951	C6 URI	624	115.917	110.143	-28.225	1.00	67.18	f
ATOM	31899	O2P GUA	622	106.100	105.052	-24.944	1.00	60.92	Al6s	ATOM	31952	C2 URI	624	118.161	109.395	-27.898	1.00	67.18	f
ATOM	31900	O5' GUA	622	108.000	105.632	-23.433	1.00	70.82	Al6s	ATOM	31953	O2 URI	624	119.347	109.597	-27.714	1.00	67.18	f
ATOM	31901	C5' GUA	622	107.391	106.742	-22.780	1.00	70.82	Al6s	ATOM	31954	N3 URI	624	117.638	108.128	-27.972	1.00	67.18	f
ATOM	31902	C4' GUA	622	108.439	107.675	-22.215	1.00	70.82	Al6s	ATOM	31955	C4 URI	624	116.317	107.787	-28.160	1.00	67.18	f
ATOM	31903	O4' GUA	622	109.270	106.954	-21.263	1.00	70.82	Al6s	ATOM	31956	O4 URI	624	116.008	106.601	-28.291	1.00	67.18	f
ATOM	31904	C1' GUA	622	110.570	107.530	-21.237	1.00	70.82	Al6s	ATOM	31957	C5 URI	624	115.435	108.897	-28.285	1.00	67.18	f
ATOM	31905	N9 GUA	622	111.550	106.518	-21.620	1.00	60.92	Al6s	ATOM	31958	C2' URI	624	117.831	112.701	-29.171	1.00	55.88	f
ATOM	31906	C4' GUA	622	112.921	106.635	-21.522	1.00	60.92	Al6s	ATOM	31959	O2' URI	624	119.175	112.934	-29.495	1.00	55.88	f
ATOM	31907	N3 GUA	622	113.592	107.692	-21.032	1.00	60.92	Al6s	ATOM	31960	C3' URI	624	117.077	113.969	-28.738	1.00	55.88	f
ATOM	31908	C2' GUA	622	114.896	107.520	-21.093	1.00	60.92	Al6s	ATOM	31961	O3' URI	624	117.760	115.231	-28.853	1.00	55.88	f
ATOM	31909	N2 GUA	622	115.711	108.475	-20.658	1.00	60.92	Al6s	ATOM	31962	P' ADE	625	118.398	115.720	-30.246	1.00	52.06	f
ATOM	31910	N1 GUA	622	115.496	106.401	-21.582	1.00	60.92	Al6s	ATOM	31963	O1P ADE	625	117.808	117.042	-30.550	1.00	43.62	f
ATOM	31911	C6 GUA	622	114.831	105.296	-22.085	1.00	60.92	Al6s	ATOM	31964	O2P ADE	625	118.304	115.929	-31.252	1.00	43.62	f
ATOM	31912	O6 GUA	622	115.476	104.330	-22.493	1.00	60.92	Al6s	ATOM	31965	O5' ADE	625	119.932	115.979	-29.884	1.00	52.06	f
ATOM	31913	C5 GUA	622	113.425	105.468	-22.040	1.00	60.92	Al6s	ATOM	31966	C5' ADE	625	120.404	117.294	-29.613	1.00	52.06	f
ATOM	31914	N7 GUA	622	112.399	104.626	-22.447	1.00	60.92	Al6s	ATOM	31967	C4' ADE	625	121.683	117.243	-28.805	1.00	52.06	f
ATOM	31915	C8 GUA	622	111.306	105.286	-22.170	1.00	60.92	Al6s	ATOM	31968	O4' ADE	625	121.403	116.734	-27.477	1.00	52.06	f
ATOM	31916	C2' GUA	622	110.560	108.685	-22.239	1.00	70.82	Al6s	ATOM	31969	C1' ADE	625	122.480	115.928	-27.035	1.00	52.06	f
ATOM	31917	O2' GUA	622	110.243	109.885	-21.570	1.00	70.82	Al6s	ATOM	31970	N9 ADE	625	121.979	114.560	-26.891	1.00	43.62	f
ATOM	31918	C3' GUA	622	109.459	108.242	-23.188	1.00	70.82	Al6s	ATOM	31971	C4 ADE	625	122.557	113.522	-26.193	1.00	43.62	f
ATOM	31919	O3' GUA	622	108.960	109.345	-23.931	1.00	70.82	Al6s	ATOM	31972	N3 ADE	625	123.698	113.545	-25.482	1.00	43.62	f
ATOM	31920	P' ADE	623	109.756	109.838	-25.239	1.00	50.19	Al6s	ATOM	31973	C2 ADE	625	123.937	112.348	-24.941	1.00	43.62	f
ATOM	31921	O1P ADE	623	109.077	111.040	-25.790	1.00	59.16	Al6s	ATOM	31974	N1 ADE	625	123.220	111.216	-25.031	1.00	43.62	f
ATOM	31922	O2P ADE	623	110.005	108.661	-26.111	1.00	59.16	Al6s	ATOM	31975	C6 ADE	625	122.081	111.228	-25.747	1.00	43.62	f
ATOM	31923	O5' ADE	623	111.135	110.354	-24.655	1.00	50.19	Al6s	ATOM	31976	N6 ADE	625	121.368	110.107	-25.827	1.00	43.62	f
ATOM	31924	C5' ADE	623	111.181	111.548	-23.888	1.00	50.19	Al6s	ATOM	31977	C5 ADE	625	121.713	112.436	-26.370	1.00	43.62	f

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ATOM	31978	N7	ADE	625	120.625	112.787	-27.154	1.00	43.62	Al6S	ATOM	32031	C5' CYT	628	129.059	105.239	-34.344	1.00	52.46	Al
ATOM	31979	C8	ADE	625	120.829	114.050	-27.433	1.00	43.62	Al6S	ATOM	32032	C4' CYT	628	127.960	104.196	-34.294	1.00	52.46	Al
ATOM	31980	C2' ADE	625	123.588	116.062	-28.080	1.00	52.06	Al6S	ATOM	32033	O4' CYT	628	126.958	104.591	-33.322	1.00	52.46	Al	
ATOM	31981	O2' ADE	625	124.402	117.169	-27.766	1.00	52.06	Al6S	ATOM	32034	C1' CYT	628	125.670	104.227	-33.787	1.00	52.46	Al	
ATOM	31982	C3' ADE	625	122.776	116.331	-29.333	1.00	52.06	Al6S	ATOM	32035	N1 CYT	628	124.847	105.444	-33.833	1.00	71.85	Al	
ATOM	31983	O3' ADE	625	123.572	116.971	-30.317	1.00	52.06	Al6S	ATOM	32036	C6 CYT	628	125.406	106.674	-33.628	1.00	71.85	Al	
ATOM	31984	P	CYT	626	124.132	116.109	-31.544	1.00	49.19	Al6S	ATOM	32037	C2 CYT	628	123.491	105.325	-34.085	1.00	71.85	Al
ATOM	31985	O1P	CYT	626	122.978	115.303	-32.009	1.00	51.04	Al6S	ATOM	32038	O2 CYT	628	123.021	104.198	-34.273	1.00	71.85	Al
ATOM	31986	O2P	CYT	626	124.853	116.968	-32.514	1.00	51.04	Al6S	ATOM	32039	N3 CYT	628	122.727	106.438	-34.121	1.00	71.85	Al
ATOM	31987	O5' CYT	626	125.193	115.144	-30.847	1.00	49.19	Al6S	ATOM	32040	C4 CYT	628	123.278	107.633	-33.909	1.00	71.85	Al	
ATOM	31988	C5' CYT	626	126.366	115.673	-30.229	1.00	49.19	Al6S	ATOM	32041	N4 CYT	628	122.488	108.701	-33.932	1.00	71.85	Al	
ATOM	31989	C4' CYT	626	127.162	114.565	-29.575	1.00	49.19	Al6S	ATOM	32042	C5 CYT	628	124.663	107.784	-33.657	1.00	71.85	Al	
ATOM	31990	O4' CYT	626	126.446	114.058	-28.414	1.00	49.19	Al6S	ATOM	32043	C2' CYT	628	125.832	103.517	-35.135	1.00	52.46	Al	
ATOM	31991	C1' CYT	626	126.669	112.659	-28.290	1.00	49.19	Al6S	ATOM	32044	O2' CYT	628	125.786	102.127	-34.946	1.00	52.46	Al	
ATOM	31992	N1 CYT	626	125.383	111.958	-28.497	1.00	51.04	Al6S	ATOM	32045	C3' CYT	628	127.199	104.012	-35.596	1.00	52.46	Al	
ATOM	31993	C6 CYT	626	124.450	112.442	-29.367	1.00	51.04	Al6S	ATOM	32046	O3' CYT	628	127.869	103.068	-36.424	1.00	52.46	Al	
ATOM	31994	C2 CYT	626	125.134	110.778	-27.786	1.00	51.04	Al6S	ATOM	32047	P	629	127.912	103.299	-38.014	1.00	58.53	Al	
ATOM	31995	N3 CYT	626	125.991	110.356	-27.007	1.00	51.04	Al6S	ATOM	32048	O1P	629	128.839	102.318	-38.635	1.00	63.60	Al	
ATOM	31996	C4 CYT	626	123.970	110.127	-27.967	1.00	51.04	Al6S	ATOM	32049	O2P	629	128.096	104.752	-38.276	1.00	63.60	Al	
ATOM	31997	C4 CYT	626	123.069	110.602	-28.820	1.00	51.04	Al6S	ATOM	32050	O5' URI	629	126.447	102.882	-38.455	1.00	58.53	Al	
ATOM	31998	N4 CYT	626	121.940	109.914	-28.970	1.00	51.04	Al6S	ATOM	32051	C5' URI	629	125.942	101.596	-38.142	1.00	58.53	Al	
ATOM	31999	C5 CYT	626	123.290	111.802	-29.558	1.00	51.04	Al6S	ATOM	32052	C4' URI	629	124.466	101.564	-38.393	1.00	58.53	Al	
ATOM	32000	C2' CYT	626	127.702	112.293	-29.355	1.00	49.19	Al6S	ATOM	32053	O4' URI	629	123.789	102.356	-37.385	1.00	58.53	Al	
ATOM	32001	O2' CYT	626	127.388	113.324	-30.418	1.00	49.19	Al6S	ATOM	32054	C1' URI	629	122.655	102.982	-37.962	1.00	58.53	Al	
ATOM	32002	C3' CYT	626	127.388	113.324	-30.418	1.00	49.19	Al6S	ATOM	32055	N1 URI	629	122.760	104.431	-37.738	1.00	63.60	Al	
ATOM	32003	O3' CYT	626	128.491	113.462	-31.279	1.00	49.19	Al6S	ATOM	32056	C6 URI	629	123.935	105.010	-37.349	1.00	63.60	Al	
ATOM	32004	P	GUA	627	128.541	112.595	-32.621	1.00	47.44	Al6S	ATOM	32057	C2 URI	629	121.632	105.186	-37.924	1.00	63.60	Al
ATOM	32005	O1P	GUA	627	129.757	113.022	-33.360	1.00	69.25	Al6S	ATOM	32058	O2 URI	629	120.576	104.712	-38.269	1.00	63.60	Al
ATOM	32006	O2P	GUA	627	127.214	112.698	-33.273	1.00	69.25	Al6S	ATOM	32059	N3 URI	629	122.918	107.166	-37.290	1.00	63.60	Al
ATOM	32007	O5' GUA	627	128.727	111.088	-32.118	1.00	47.44	Al6S	ATOM	32060	C4 URI	629	122.882	108.377	-37.085	1.00	63.60	Al	
ATOM	32008	C5' GUA	627	129.991	110.613	-31.664	1.00	47.44	Al6S	ATOM	32061	O4 URI	629	122.604	102.563	-37.123	1.00	63.60	Al	
ATOM	32009	C4' GUA	627	129.946	109.120	-31.419	1.00	47.44	Al6S	ATOM	32062	C5 URI	629	122.604	102.563	-37.123	1.00	58.53	Al	
ATOM	32010	O4' GUA	627	129.206	108.822	-30.203	1.00	47.44	Al6S	ATOM	32063	C2' URI	629	122.604	102.563	-37.123	1.00	58.53	Al	
ATOM	32011	C1' GUA	627	128.526	107.584	-30.357	1.00	47.44	Al6S	ATOM	32064	O2' URI	629	121.769	101.431	-39.564	1.00	58.53	Al	
ATOM	32012	N9 GUA	627	127.088	107.818	-30.410	1.00	69.25	Al6S	ATOM	32065	C3' URI	629	124.061	102.216	-39.699	1.00	58.53	Al	
ATOM	32013	C4 GUA	627	126.139	106.834	-30.433	1.00	69.25	Al6S	ATOM	32066	C3' URI	629	124.228	101.307	-40.774	1.00	58.53	Al	
ATOM	32014	N3 GUA	627	126.376	105.514	-30.348	1.00	69.25	Al6S	ATOM	32067	P	630	124.470	101.869	-42.256	1.00	60.06	Al	
ATOM	32015	C2 GUA	627	125.273	104.806	-30.432	1.00	69.25	Al6S	ATOM	32068	O1P	630	124.867	100.724	-43.107	1.00	59.17	Al	
ATOM	32016	N2 GUA	627	125.337	103.472	-30.348	1.00	69.25	Al6S	ATOM	32069	O2P	630	125.343	103.060	-42.178	1.00	59.17	Al	
ATOM	32017	N1 GUA	627	124.029	105.350	-30.601	1.00	69.25	Al6S	ATOM	32070	O5' CYT	630	123.024	102.350	-42.720	1.00	60.06	Al	
ATOM	32018	C6 GUA	627	123.759	106.708	-30.695	1.00	69.25	Al6S	ATOM	32071	C5' CYT	630	121.958	102.147	-42.862	1.00	60.06	Al	
ATOM	32019	O6 GUA	627	122.603	107.090	-30.860	1.00	69.25	Al6S	ATOM	32072	C4' CYT	630	120.658	102.147	-43.094	1.00	60.06	Al	
ATOM	32020	C5 GUA	627	124.941	107.484	-30.588	1.00	69.25	Al6S	ATOM	32073	O4' CYT	630	120.658	102.147	-43.094	1.00	60.06	Al	
ATOM	32021	N7 GUA	627	125.128	108.860	-30.627	1.00	69.25	Al6S	ATOM	32074	C1' CYT	630	120.272	102.876	-42.828	1.00	60.06	Al	
ATOM	32022	C8 GUA	627	126.418	109.012	-30.505	1.00	69.25	Al6S	ATOM	32075	N1 CYT	630	119.601	104.071	-42.263	1.00	60.06	Al	
ATOM	32023	C2' GUA	627	128.929	107.019	-31.715	1.00	47.44	Al6S	ATOM	32076	C6 CYT	630	120.380	105.201	-41.747	1.00	59.17	Al	
ATOM	32024	O2' GUA	627	129.027	106.159	-31.560	1.00	47.44	Al6S	ATOM	32077	C2 CYT	630	121.729	105.096	-41.577	1.00	59.17	Al	
ATOM	32025	C3' GUA	627	129.253	108.289	-32.483	1.00	47.44	Al6S	ATOM	32078	C3 CYT	630	119.720	106.394	-41.435	1.00	59.17	Al	
ATOM	32026	O3' GUA	627	130.108	108.004	-33.574	1.00	47.44	Al6S	ATOM	32079	N3 CYT	630	122.436	107.446	-40.977	1.00	59.17	Al	
ATOM	32027	P	CYT	628	129.483	107.742	-35.029	1.00	52.46	Al6S	ATOM	32080	C4 CYT	630	121.754	107.336	-40.821	1.00	59.17	Al
ATOM	32028	O1P	CYT	628	130.608	107.356	-35.915	1.00	71.85	Al6S	ATOM	32081	N4 CYT	630	122.423	108.402	-40.369	1.00	59.17	Al
ATOM	32029	O2P	CYT	628	128.626	108.899	-35.386	1.00	71.85	Al6S	ATOM	32082	C5 CYT	630	122.448	106.127	-41.120	1.00	59.17	Al
ATOM	32030	O5' CYT	628	128.543	106.472	-34.834	1.00	52.46	Al6S	ATOM	32083	C2' CYT	630	119.512	104.088	-43.790	1.00	60.06	Al	

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ATOM	32084	O2	CYT	630	118.280	103.539	-44.217	1.00	60.06	Al6s	ATOM	32137	C4	GUA	633	120.864	116.714	-50.857	1.00	81.36	A
ATOM	32085	C3	CYT	630	120.701	103.215	-44.165	1.00	60.06	Al6s	ATOM	32138	O4	GUA	633	120.920	116.264	-49.480	1.00	81.36	A
ATOM	32086	O3	CYT	630	120.548	102.646	-45.449	1.00	60.06	Al6s	ATOM	32139	C1	GUA	633	121.920	117.001	-48.797	1.00	81.36	A
ATOM	32087	P	ADE	631	121.137	103.418	-46.721	1.00	68.16	Al6s	ATOM	32140	N9	GUA	633	122.904	116.086	-48.233	1.00	65.01	A
ATOM	32088	O1P	ADE	631	120.987	102.525	-47.905	1.00	75.06	Al6s	ATOM	32141	C4	GUA	633	123.907	116.451	-47.381	1.00	65.01	A
ATOM	32089	O2P	ADE	631	122.477	103.929	-46.352	1.00	75.06	Al6s	ATOM	32142	N3	GUA	633	124.110	117.692	-46.898	1.00	65.01	A
ATOM	32090	O5	ADE	631	120.175	104.677	-46.868	1.00	68.16	Al6s	ATOM	32143	C2	GUA	633	125.163	117.747	-46.114	1.00	65.01	A
ATOM	32091	C5	ADE	631	118.821	104.508	-47.246	1.00	68.16	Al6s	ATOM	32144	N2	GUA	633	125.491	118.902	-45.531	1.00	65.01	A
ATOM	32092	C4	ADE	631	118.087	105.816	-47.147	1.00	68.16	Al6s	ATOM	32145	N1	GUA	633	125.968	116.672	-45.839	1.00	65.01	A
ATOM	32093	O4	ADE	631	118.937	106.241	-45.761	1.00	68.16	Al6s	ATOM	32146	C6	GUA	633	125.776	115.384	-46.325	1.00	65.01	A
ATOM	32094	C1	ADE	631	117.977	107.660	-45.709	1.00	68.16	Al6s	ATOM	32147	O6	GUA	633	126.560	115.408	-47.011	1.00	65.01	A
ATOM	32095	N9	ADE	631	119.133	108.154	-44.964	1.00	75.06	Al6s	ATOM	32148	C5	GUA	633	124.635	115.308	-47.158	1.00	65.01	A
ATOM	32096	C4	ADE	631	119.297	109.440	-44.508	1.00	75.06	Al6s	ATOM	32149	N7	GUA	633	124.082	114.231	-47.836	1.00	65.01	A
ATOM	32097	N3	ADE	631	118.430	110.460	-44.620	1.00	75.06	Al6s	ATOM	32150	C8	GUA	633	123.052	114.739	-48.457	1.00	65.01	A
ATOM	32098	C2	ADE	631	118.931	111.566	-44.071	1.00	75.06	Al6s	ATOM	32151	C2	GUA	633	122.593	117.888	-49.842	1.00	81.36	A
ATOM	32099	N1	ADE	631	120.114	111.755	-43.475	1.00	75.06	Al6s	ATOM	32152	O2	GUA	633	122.955	119.142	-49.873	1.00	81.36	A
ATOM	32100	C6	ADE	631	120.967	110.711	-43.388	1.00	75.06	Al6s	ATOM	32153	C3	GUA	633	122.425	117.958	-52.227	1.00	81.36	A
ATOM	32101	N6	ADE	631	122.156	110.905	-42.816	1.00	75.06	Al6s	ATOM	32154	O3	GUA	633	123.841	118.069	-52.970	1.00	49.71	A
ATOM	32102	C5	ADE	631	120.547	109.476	-43.920	1.00	75.06	Al6s	ATOM	32155	P	CYT	634	124.315	120.140	-51.461	1.00	49.71	A
ATOM	32103	N7	ADE	631	121.152	108.228	-43.979	1.00	75.06	Al6s	ATOM	32156	O1P	CYT	634	124.744	118.891	-51.951	1.00	49.71	A
ATOM	32104	C8	ADE	631	120.272	107.481	-44.601	1.00	75.06	Al6s	ATOM	32157	O2P	CYT	634	123.389	116.689	-53.080	1.00	65.02	A
ATOM	32105	C2	ADE	631	118.010	108.151	-47.156	1.00	68.16	Al6s	ATOM	32158	O5	CYT	634	124.744	118.891	-51.951	1.00	49.71	A
ATOM	32106	O2	ADE	631	116.693	108.285	-47.644	1.00	68.16	Al6s	ATOM	32159	C5	CYT	634	125.313	120.684	-50.476	1.00	49.71	A
ATOM	32107	C3	ADE	631	118.741	107.002	-47.824	1.00	68.16	Al6s	ATOM	32160	O4	CYT	634	125.450	119.777	-49.357	1.00	49.71	A
ATOM	32108	O3	ADE	631	118.523	107.003	-49.225	1.00	68.16	Al6s	ATOM	32161	O4	CYT	634	126.751	119.898	-48.812	1.00	49.71	A
ATOM	32109	P	GUA	632	119.624	107.726	-50.172	1.00	72.66	Al6s	ATOM	32162	C1	CYT	634	127.358	118.560	-48.761	1.00	65.02	A
ATOM	32110	O1P	GUA	632	120.999	107.481	-51.563	1.00	70.61	Al6s	ATOM	32163	N1	CYT	634	126.861	117.535	-49.519	1.00	65.02	A
ATOM	32111	O2P	GUA	632	119.165	107.331	-49.769	1.00	70.61	Al6s	ATOM	32164	C6	CYT	634	128.447	118.344	-47.910	1.00	65.02	A
ATOM	32112	O5	GUA	632	119.462	109.277	-49.858	1.00	72.66	Al6s	ATOM	32165	C2	CYT	634	128.891	120.298	-47.251	1.00	65.02	A
ATOM	32113	C5	GUA	632	118.289	109.951	-50.266	1.00	72.66	Al6s	ATOM	32166	O2	CYT	634	128.985	117.104	-47.828	1.00	65.02	A
ATOM	32114	O4	GUA	632	118.432	111.383	-48.316	1.00	72.66	Al6s	ATOM	32167	N3	CYT	634	128.476	116.108	-48.557	1.00	65.02	A
ATOM	32115	C4	GUA	632	118.948	112.650	-47.928	1.00	72.66	Al6s	ATOM	32168	C4	CYT	634	127.019	114.905	-48.431	1.00	65.02	A
ATOM	32116	C1	GUA	632	120.193	112.462	-47.190	1.00	70.61	Al6s	ATOM	32169	N4	CYT	634	127.384	116.304	-49.445	1.00	65.02	A
ATOM	32117	N9	GUA	632	120.786	113.401	-46.389	1.00	70.61	Al6s	ATOM	32170	C5	CYT	634	127.509	120.911	-49.670	1.00	49.71	A
ATOM	32118	C4	GUA	632	120.310	114.638	-46.143	1.00	70.61	Al6s	ATOM	32171	C2	CYT	634	127.378	122.166	-49.047	1.00	49.71	A
ATOM	32119	N3	GUA	632	121.091	115.313	-45.318	1.00	70.61	Al6s	ATOM	32172	O2	CYT	634	126.732	120.840	-50.980	1.00	49.71	A
ATOM	32120	C2	GUA	632	120.753	116.559	-44.950	1.00	70.61	Al6s	ATOM	32173	C3	CYT	634	126.808	122.049	-51.731	1.00	49.71	A
ATOM	32121	N2	GUA	632	122.256	114.815	-44.789	1.00	70.61	Al6s	ATOM	32174	O3	CYT	635	128.067	122.329	-52.686	1.00	69.88	A
ATOM	32122	N1	GUA	632	122.770	113.545	-45.036	1.00	70.61	Al6s	ATOM	32175	P	URI	635	127.643	123.260	-53.748	1.00	54.17	A
ATOM	32123	C6	GUA	632	123.835	113.200	-44.511	1.00	70.61	Al6s	ATOM	32176	O1P	URI	635	128.670	121.037	-53.068	1.00	54.17	A
ATOM	32124	O6	GUA	632	121.933	112.806	-45.913	1.00	70.61	Al6s	ATOM	32177	O2P	URI	635	130.372	123.377	-52.044	1.00	69.88	A
ATOM	32125	C5	GUA	632	122.061	111.517	-46.407	1.00	70.61	Al6s	ATOM	32178	O5	URI	635	131.231	123.019	-50.868	1.00	69.88	A
ATOM	32126	N7	GUA	632	119.206	113.424	-49.219	1.00	72.66	Al6s	ATOM	32179	C5	URI	635	130.761	121.788	-50.312	1.00	69.88	A
ATOM	32127	C8	GUA	632	118.061	114.188	-49.540	1.00	72.66	Al6s	ATOM	32180	O4	URI	635	131.848	121.070	-49.805	1.00	69.88	A
ATOM	32128	O2	GUA	632	119.405	112.276	-50.189	1.00	72.66	Al6s	ATOM	32181	C1	URI	635	130.722	119.265	-51.055	1.00	54.17	A
ATOM	32129	O2	GUA	632	119.296	112.707	-51.531	1.00	72.66	Al6s	ATOM	32182	N1	URI	635	132.358	118.744	-49.397	1.00	54.17	A
ATOM	32130	C3	GUA	632	120.631	113.117	-52.332	1.00	65.01	Al6s	ATOM	32183	O2	URI	635	132.247	119.073	-48.626	1.00	54.17	A
ATOM	32131	O3	GUA	633	121.219	113.449	-53.723	1.00	65.01	Al6s	ATOM	32184	C6	URI	635	132.005	117.432	-49.617	1.00	54.17	A
ATOM	32132	P	GUA	633	121.690	112.092	-52.104	1.00	65.01	Al6s	ATOM	32185	C2	URI	635	131.043	116.971	-50.490	1.00	54.17	A
ATOM	32133	O1P	GUA	633	121.101	114.461	-51.623	1.00	81.36	Al6s	ATOM	32186	O2	URI	635	130.706	115.797	-50.446	1.00	54.17	A
ATOM	32134	O2P	GUA	633	120.305	115.624	-51.723	1.00	81.36	Al6s	ATOM	32187	N3	URI	635						
ATOM	32135	O5	GUA	633							ATOM	32188	C4	URI	635						
ATOM	32136	C5	GUA	633							ATOM	32189	O4	URI	635						

ATOM	32190	C5	URI	635	130.405	117.988	-51.258	1.00	54.17	Al6S	ATOM	32243	O5' ADE	638	142.984	116.249	-48.735	1.00	51.46	Al6S
ATOM	32191	C2' URI	635	133.162	121.739	-50.214	1.00	69.88	Al6S	ATOM	32244	C5' ADE	638	143.190	114.961	-48.167	1.00	51.46	Al6S	
ATOM	32192	O2' URI	635	133.769	122.232	-49.039	1.00	69.88	Al6S	ATOM	32245	C4' ADE	638	142.479	113.900	-48.976	1.00	51.46	Al6S	
ATOM	32193	C3' URI	635	132.704	122.838	-51.175	1.00	69.88	Al6S	ATOM	32246	O4' ADE	638	141.050	114.089	-48.872	1.00	51.46	Al6S	
ATOM	32194	O3' URI	635	133.286	124.089	-50.832	1.00	69.88	Al6S	ATOM	32247	C1' ADE	638	140.435	113.731	-50.094	1.00	51.46	Al6S	
ATOM	32195	P ADE	636	134.718	124.487	-51.396	1.00	61.25	Al6S	ATOM	32248	N9 ADE	638	139.853	114.932	-50.668	1.00	53.46	Al6S	
ATOM	32196	O1P ADE	636	134.619	125.867	-51.903	1.00	52.94	Al6S	ATOM	32249	C4 ADE	638	138.939	114.962	-51.688	1.00	53.46	Al6S	
ATOM	32197	O2P ADE	636	135.100	123.398	-52.313	1.00	52.94	Al6S	ATOM	32250	N3 ADE	638	138.401	113.911	-52.330	1.00	53.46	Al6S	
ATOM	32198	O5' ADE	636	135.654	124.508	-50.101	1.00	61.25	Al6S	ATOM	32251	C2 ADE	638	137.557	114.321	-53.272	1.00	53.46	Al6S	
ATOM	32199	C5' ADE	636	136.388	123.349	-49.686	1.00	61.25	Al6S	ATOM	32252	N1 ADE	638	137.214	115.566	-53.616	1.00	53.46	Al6S	
ATOM	32200	C4' ADE	636	136.764	123.463	-48.224	1.00	61.25	Al6S	ATOM	32253	C6 ADE	638	137.773	116.599	-52.944	1.00	53.46	Al6S	
ATOM	32201	O4' ADE	636	135.645	123.895	-47.448	1.00	61.25	Al6S	ATOM	32254	N6 ADE	638	137.431	117.844	-53.276	1.00	53.46	Al6S	
ATOM	32202	C1' ADE	636	135.884	123.506	-46.131	1.00	61.25	Al6S	ATOM	32255	C5 ADE	638	138.688	116.297	-51.926	1.00	53.46	Al6S	
ATOM	32203	N9 ADE	636	134.681	123.674	-45.329	1.00	52.94	Al6S	ATOM	32256	N7 ADE	638	139.430	117.097	-51.067	1.00	53.46	Al6S	
ATOM	32204	C4 ADE	636	133.428	123.197	-45.586	1.00	52.94	Al6S	ATOM	32257	C8 ADE	638	140.098	116.239	-50.339	1.00	53.46	Al6S	
ATOM	32205	N3 ADE	636	133.045	122.452	-46.630	1.00	52.94	Al6S	ATOM	32258	C2' ADE	638	141.524	113.197	-51.018	1.00	51.46	Al6S	
ATOM	32206	C2 ADE	636	131.748	122.187	-46.559	1.00	52.94	Al6S	ATOM	32259	O2' ADE	638	141.614	111.792	-50.933	1.00	51.46	Al6S	
ATOM	32207	N1 ADE	636	130.859	122.552	-45.626	1.00	52.94	Al6S	ATOM	32260	C3' ADE	638	142.744	113.914	-50.470	1.00	51.46	Al6S	
ATOM	32208	C6 ADE	636	131.289	123.296	-44.586	1.00	52.94	Al6S	ATOM	32261	O3' ADE	638	143.926	113.213	-50.800	1.00	51.46	Al6S	
ATOM	32209	N6 ADE	636	130.414	123.643	-43.640	1.00	52.94	Al6S	ATOM	32262	P CYT	639	144.854	113.758	-51.982	1.00	54.43	Al6S	
ATOM	32210	C5 ADE	636	132.637	123.652	-44.555	1.00	52.94	Al6S	ATOM	32263	O1P CYT	639	144.822	115.243	-51.962	1.00	52.29	Al6S	
ATOM	32211	N7 ADE	636	133.381	124.399	-43.657	1.00	52.94	Al6S	ATOM	32264	O2P CYT	639	144.822	115.243	-51.962	1.00	52.29	Al6S	
ATOM	32212	C8 ADE	636	134.585	124.376	-44.160	1.00	52.94	Al6S	ATOM	32265	O5' CYT	639	144.138	113.263	-53.317	1.00	54.43	Al6S	
ATOM	32213	C2' ADE	636	136.654	122.185	-46.152	1.00	61.25	Al6S	ATOM	32266	C5' CYT	639	144.099	111.886	-53.654	1.00	54.43	Al6S	
ATOM	32214	O2' ADE	636	137.612	122.200	-45.115	1.00	61.25	Al6S	ATOM	32267	C4' CYT	639	142.993	111.616	-54.649	1.00	54.43	Al6S	
ATOM	32215	C3' ADE	636	137.310	122.209	-47.540	1.00	61.25	Al6S	ATOM	32268	O4' CYT	639	141.729	112.080	-54.095	1.00	54.43	Al6S	
ATOM	32216	O3' ADE	636	138.672	122.510	-47.240	1.00	61.25	Al6S	ATOM	32269	C1' CYT	639	140.886	112.529	-55.148	1.00	54.43	Al6S	
ATOM	32217	P GUA	637	139.875	121.724	-47.932	1.00	54.01	Al6S	ATOM	32270	N1 CYT	639	140.718	113.975	-55.027	1.00	52.29	Al6S	
ATOM	32218	O1P GUA	637	141.070	122.420	-47.423	1.00	48.91	Al6S	ATOM	32271	C6 CYT	639	141.470	114.712	-54.163	1.00	52.29	Al6S	
ATOM	32219	O2P GUA	637	139.668	121.600	-49.397	1.00	48.91	Al6S	ATOM	32272	C2 CYT	639	139.794	114.589	-55.853	1.00	52.29	Al6S	
ATOM	32220	O5' GUA	637	139.867	120.284	-47.261	1.00	54.01	Al6S	ATOM	32273	O2 CYT	639	139.087	113.880	-56.572	1.00	52.29	Al6S	
ATOM	32221	C5' GUA	637	140.575	120.052	-46.050	1.00	54.01	Al6S	ATOM	32274	N3 CYT	639	139.683	115.932	-55.852	1.00	52.29	Al6S	
ATOM	32222	C4' GUA	637	140.581	118.584	-45.728	1.00	54.01	Al6S	ATOM	32275	C4 CYT	639	140.456	116.655	-55.047	1.00	52.29	Al6S	
ATOM	32223	O4' GUA	637	139.208	118.122	-45.638	1.00	54.01	Al6S	ATOM	32276	N4 CYT	639	140.356	117.981	-55.120	1.00	52.29	Al6S	
ATOM	32224	C1' GUA	637	139.103	116.816	-46.166	1.00	54.01	Al6S	ATOM	32277	C5 CYT	639	141.375	116.047	-54.141	1.00	52.29	Al6S	
ATOM	32225	N9 GUA	637	138.231	116.863	-47.334	1.00	48.91	Al6S	ATOM	32278	C2' CYT	639	141.626	112.243	-56.450	1.00	54.43	Al6S	
ATOM	32226	C4 GUA	637	137.663	115.788	-47.973	1.00	48.91	Al6S	ATOM	32279	O2' CYT	639	141.325	110.946	-56.918	1.00	54.43	Al6S	
ATOM	32227	N3 GUA	637	137.810	114.493	-47.629	1.00	48.91	Al6S	ATOM	32280	C3' CYT	639	143.061	112.358	-55.973	1.00	54.43	Al6S	
ATOM	32228	C2 GUA	637	137.151	113.692	-48.439	1.00	48.91	Al6S	ATOM	32281	O3' CYT	639	143.964	111.787	-56.904	1.00	54.43	Al6S	
ATOM	32229	N2 GUA	637	137.180	112.374	-48.250	1.00	48.91	Al6S	ATOM	32282	P GUA	640	144.796	112.760	-57.871	1.00	64.44	Al6S	
ATOM	32230	N1 GUA	637	136.415	114.123	-49.500	1.00	48.91	Al6S	ATOM	32283	O1P GUA	640	145.994	112.000	-58.323	1.00	59.58	Al6S	
ATOM	32231	C6 GUA	637	136.262	115.447	-49.880	1.00	48.91	Al6S	ATOM	32284	O2P GUA	640	144.957	114.082	-57.202	1.00	59.58	Al6S	
ATOM	32232	O6 GUA	637	135.597	115.721	-50.879	1.00	48.91	Al6S	ATOM	32285	O5' GUA	640	143.839	113.003	-59.115	1.00	64.44	Al6S	
ATOM	32233	C5 GUA	637	136.947	116.320	-49.015	1.00	48.91	Al6S	ATOM	32286	C5' GUA	640	143.162	111.926	-59.737	1.00	64.44	Al6S	
ATOM	32234	N7 GUA	637	137.047	117.703	-49.029	1.00	48.91	Al6S	ATOM	32287	C4' GUA	640	142.015	112.454	-60.549	1.00	64.44	Al6S	
ATOM	32235	C8 GUA	637	137.819	117.980	-48.015	1.00	48.91	Al6S	ATOM	32288	O4' GUA	640	140.466	114.205	-60.365	1.00	64.44	Al6S	
ATOM	32236	C2' GUA	637	140.524	116.371	-46.488	1.00	54.01	Al6S	ATOM	32289	C1' GUA	640	141.073	113.131	-59.668	1.00	64.44	Al6S	
ATOM	32237	O2' GUA	637	141.069	115.791	-45.326	1.00	54.01	Al6S	ATOM	32290	N9 GUA	640	140.409	116.714	-60.084	1.00	59.58	Al6S	
ATOM	32238	C3' GUA	637	141.179	117.701	-46.799	1.00	54.01	Al6S	ATOM	32291	C4 GUA	640	139.572	117.000	-61.102	1.00	59.58	Al6S	
ATOM	32239	O3' GUA	637	142.590	117.637	-46.668	1.00	54.01	Al6S	ATOM	32292	N3 GUA	640	139.344	118.297	-61.206	1.00	59.58	Al6S	
ATOM	32240	P ADE	638	143.503	117.561	-47.989	1.00	51.46	Al6S	ATOM	32293	C2 GUA	640	138.506	118.751	-62.149	1.00	59.58	Al6S	
ATOM	32241	O1P ADE	638	144.894	117.311	-47.547	1.00	53.46	Al6S	ATOM	32294	N2 GUA	640	139.912	119.242	-60.391	1.00	59.58	Al6S	
ATOM	32242	O2P ADE	638	143.202	118.755	-48.834	1.00	53.46	Al6S	ATOM	32295	N1 GUA	640	139.912	119.242	-60.391	1.00	59.58	Al6S	

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ATOM	32296	C6	GUA	640	140.785	118.975	-59.349	1.00	59.58	Al6S	ATOM	32349	O1P	GUA	643	146.634	120.791	-72.675	1.00	65.31	A
ATOM	32297	O6	GUA	640	141.256	119.905	-58.696	1.00	59.58	Al6S	ATOM	32350	O2P	GUA	643	147.016	119.590	-70.447	1.00	65.31	A
ATOM	32298	C5	GUA	640	141.017	117.579	-59.206	1.00	59.58	Al6S	ATOM	32351	O5'	GUA	643	147.258	122.076	-70.639	1.00	65.88	A
ATOM	32299	N7	GUA	640	141.794	116.883	-58.290	1.00	59.58	Al6S	ATOM	32352	C5'	GUA	643	146.875	123.352	-71.125	1.00	65.88	A
ATOM	32300	C8	GUA	640	141.651	115.629	-58.630	1.00	59.58	Al6S	ATOM	32353	C4'	GUA	643	147.424	124.440	-70.243	1.00	65.88	A
ATOM	32301	C2'	GUA	640	141.004	114.145	-61.792	1.00	64.44	Al6S	ATOM	32354	O4'	GUA	643	146.807	124.374	-68.931	1.00	65.88	A
ATOM	32302	O2'	GUA	640	140.195	113.264	-62.546	1.00	64.44	Al6S	ATOM	32355	C1'	GUA	643	147.724	124.849	-67.953	1.00	65.88	A
ATOM	32303	C3'	GUA	640	142.370	113.537	-61.548	1.00	64.44	Al6S	ATOM	32356	N9	GUA	643	147.941	123.789	-67.953	1.00	65.88	A
ATOM	32304	O3'	GUA	640	142.922	113.008	-62.744	1.00	64.44	Al6S	ATOM	32357	C4	GUA	643	148.514	123.926	-66.738	1.00	65.31	A
ATOM	32305	P	GUA	641	143.788	113.964	-63.706	1.00	59.19	Al6S	ATOM	32358	N3	GUA	643	148.960	125.074	-65.195	1.00	65.31	A
ATOM	32306	O1P	GUA	641	144.262	113.134	-64.843	1.00	53.49	Al6S	ATOM	32359	C2	GUA	643	149.464	124.886	-63.991	1.00	65.31	A
ATOM	32307	O2P	GUA	641	144.774	114.712	-62.881	1.00	53.49	Al6S	ATOM	32360	N2	GUA	643	149.930	125.923	-63.293	1.00	65.31	A
ATOM	32308	O5'	GUA	641	142.735	115.041	-64.232	1.00	59.19	Al6S	ATOM	32361	N1	GUA	643	149.542	123.666	-63.376	1.00	65.31	A
ATOM	32309	C5'	GUA	641	141.705	114.693	-65.158	1.00	59.19	Al6S	ATOM	32362	C6	GUA	643	149.094	122.469	-63.918	1.00	65.31	A
ATOM	32310	C4'	GUA	641	141.100	115.948	-65.732	1.00	59.19	Al6S	ATOM	32363	O6	GUA	643	149.218	121.419	-63.280	1.00	65.31	A
ATOM	32311	O4'	GUA	641	140.545	116.730	-64.645	1.00	59.19	Al6S	ATOM	32364	C5	GUA	643	148.535	122.659	-65.203	1.00	65.31	A
ATOM	32312	C1'	GUA	641	140.742	118.109	-64.896	1.00	59.19	Al6S	ATOM	32365	N7	GUA	643	147.974	121.744	-66.083	1.00	65.31	A
ATOM	32313	N9	GUA	641	141.540	118.655	-63.803	1.00	53.49	Al6S	ATOM	32366	C8	GUA	643	147.635	122.460	-67.120	1.00	65.31	A
ATOM	32314	C4	GUA	641	141.745	119.983	-63.516	1.00	53.49	Al6S	ATOM	32367	C2'	GUA	643	149.014	125.218	-68.688	1.00	65.88	A
ATOM	32315	N3	GUA	641	141.262	121.031	-64.216	1.00	53.49	Al6S	ATOM	32368	O2'	GUA	643	149.037	126.607	-68.959	1.00	65.88	A
ATOM	32316	C2	GUA	641	141.649	122.188	-63.696	1.00	53.49	Al6S	ATOM	32369	C3'	GUA	643	148.903	124.349	-69.936	1.00	65.88	A
ATOM	32317	N2	GUA	641	141.282	123.342	-64.265	1.00	53.49	Al6S	ATOM	32370	O3'	GUA	643	149.686	124.840	-71.012	1.00	65.88	A
ATOM	32318	N1	GUA	641	142.434	122.299	-62.576	1.00	53.49	Al6S	ATOM	32371	P	GUA	644	151.219	124.382	-71.137	1.00	94.03	A
ATOM	32319	C6	GUA	641	142.933	121.231	-61.841	1.00	53.49	Al6S	ATOM	32372	O1P	GUA	644	151.954	124.425	-71.897	1.00	94.03	A
ATOM	32320	O6	GUA	641	143.627	121.445	-60.844	1.00	53.49	Al6S	ATOM	32373	O2P	GUA	644	151.292	122.960	-71.574	1.00	63.74	A
ATOM	32321	C5	GUA	641	142.540	119.994	-62.389	1.00	53.49	Al6S	ATOM	32374	O5'	GUA	644	151.717	124.462	-69.637	1.00	94.03	A
ATOM	32322	N7	GUA	641	142.833	118.706	-61.982	1.00	53.49	Al6S	ATOM	32375	C5'	GUA	644	153.085	124.588	-69.341	1.00	94.03	A
ATOM	32323	C8	GUA	641	142.223	117.944	-62.850	1.00	53.49	Al6S	ATOM	32376	C4'	GUA	644	153.295	125.713	-68.367	1.00	94.03	A
ATOM	32324	C2'	GUA	641	141.401	118.231	-66.269	1.00	59.19	Al6S	ATOM	32377	O4'	GUA	644	152.200	125.767	-67.415	1.00	94.03	A
ATOM	32325	O2'	GUA	641	140.400	118.401	-67.248	1.00	59.19	Al6S	ATOM	32378	C1'	GUA	644	152.717	125.727	-66.098	1.00	94.03	A
ATOM	32326	C3'	GUA	641	142.101	116.888	-66.379	1.00	59.19	Al6S	ATOM	32379	N9	GUA	644	152.576	124.346	-65.646	1.00	63.74	A
ATOM	32327	O3'	GUA	641	142.329	116.513	-67.727	1.00	59.19	Al6S	ATOM	32380	C4	GUA	644	152.917	123.834	-64.418	1.00	63.74	A
ATOM	32328	P	URI	642	143.770	116.767	-68.384	1.00	61.15	Al6S	ATOM	32381	N3	GUA	644	153.451	124.525	-63.393	1.00	63.74	A
ATOM	32329	O1P	URI	642	143.780	116.138	-69.727	1.00	64.67	Al6S	ATOM	32382	C2	GUA	644	153.681	123.754	-62.349	1.00	63.74	A
ATOM	32330	O2P	URI	642	144.818	116.401	-67.407	1.00	64.67	Al6S	ATOM	32383	N2	GUA	644	154.230	124.281	-61.254	1.00	63.74	A
ATOM	32331	O5'	URI	642	143.814	118.344	-68.552	1.00	61.15	Al6S	ATOM	32384	N1	GUA	644	153.396	122.412	-62.305	1.00	63.74	A
ATOM	32332	C5'	URI	642	143.004	118.980	-69.517	1.00	61.15	Al6S	ATOM	32385	C6	GUA	644	152.840	121.679	-63.348	1.00	63.74	A
ATOM	32333	C4'	URI	642	143.163	120.469	-69.418	1.00	61.15	Al6S	ATOM	32386	O6	GUA	644	152.613	120.472	-63.206	1.00	63.74	A
ATOM	32334	O4'	URI	642	142.685	120.926	-68.131	1.00	61.15	Al6S	ATOM	32387	C5	GUA	644	152.603	122.492	-64.482	1.00	63.74	A
ATOM	32335	C1'	URI	642	143.448	122.041	-67.710	1.00	61.15	Al6S	ATOM	32388	N7	GUA	644	152.077	122.167	-65.726	1.00	63.74	A
ATOM	32336	N1	URI	642	144.088	121.681	-66.446	1.00	64.67	Al6S	ATOM	32389	C8	GUA	644	152.078	123.295	-66.380	1.00	63.74	A
ATOM	32337	C6	URI	642	144.263	120.368	-66.098	1.00	64.67	Al6S	ATOM	32390	C2'	GUA	644	154.179	126.162	-66.217	1.00	94.03	A
ATOM	32338	C2	URI	642	144.512	122.699	-65.637	1.00	64.67	Al6S	ATOM	32391	O2'	GUA	644	154.281	127.571	-66.239	1.00	94.03	A
ATOM	32339	O2	URI	642	144.349	123.871	-65.911	1.00	64.67	Al6S	ATOM	32392	C3'	GUA	644	154.547	125.512	-67.540	1.00	94.03	A
ATOM	32340	N3	URI	642	145.133	122.295	-64.489	1.00	64.67	Al6S	ATOM	32393	O3'	GUA	644	155.662	126.062	-68.211	1.00	94.03	A
ATOM	32341	C4	URI	642	145.357	120.997	-64.085	1.00	64.67	Al6S	ATOM	32394	P	GUA	645	156.919	125.123	-68.523	1.00	79.70	A
ATOM	32342	O4	URI	642	145.974	120.787	-63.042	1.00	64.67	Al6S	ATOM	32395	O1P	GUA	645	157.829	125.929	-69.376	1.00	53.14	A
ATOM	32343	C5	URI	642	144.866	120.001	-64.977	1.00	64.67	Al6S	ATOM	32396	O2P	GUA	645	156.454	123.791	-68.997	1.00	53.14	A
ATOM	32344	C2'	URI	642	144.479	122.328	-68.801	1.00	61.15	Al6S	ATOM	32397	O5'	GUA	645	157.578	124.963	-67.086	1.00	79.70	A
ATOM	32345	O2'	URI	642	143.987	123.347	-69.644	1.00	61.15	Al6S	ATOM	32398	C5'	GUA	645	157.799	126.117	-66.295	1.00	79.70	A
ATOM	32346	C3'	URI	642	144.592	120.962	-69.471	1.00	61.15	Al6S	ATOM	32399	C4'	GUA	645	158.276	125.745	-64.919	1.00	79.70	A
ATOM	32347	O3'	URI	642	145.007	121.033	-70.824	1.00	61.15	Al6S	ATOM	32400	O4'	GUA	645	157.212	125.138	-64.149	1.00	79.70	A
ATOM	32348	P	GUA	643	146.541	120.774	-71.196	1.00	65.88	Al6S	ATOM	32401	C1'	GUA	645	157.795	124.401	-63.091	1.00	79.70	A

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ATOM	32402	N9	GUA	645	157.237	123.056	-63.074	1.00	53.14	Al6S	ATOM	32455	C5	GUA	647	162.567	116.391	-61.875	1.00	54.68	Al
ATOM	32403	C4	GUA	645	157.265	122.193	-62.001	1.00	53.14	Al6S	ATOM	32456	N7	GUA	647	162.907	117.488	-62.653	1.00	54.68	Al
ATOM	32404	N3	GUA	645	157.811	122.449	-60.788	1.00	53.14	Al6S	ATOM	32457	C8	GUA	647	163.777	118.139	-61.935	1.00	54.68	Al
ATOM	32405	C2	GUA	645	157.683	121.420	-59.963	1.00	53.14	Al6S	ATOM	32458	C2'	GUA	647	166.388	117.264	-59.973	1.00	51.80	Al
ATOM	32406	N2	GUA	645	158.173	121.487	-58.716	1.00	53.14	Al6S	ATOM	32459	O2'	GUA	647	166.954	116.915	-58.727	1.00	51.80	Al
ATOM	32407	N1	GUA	645	157.066	120.247	-60.296	1.00	53.14	Al6S	ATOM	32460	C3'	GUA	647	167.176	118.341	-60.717	1.00	51.80	Al
ATOM	32408	C6	GUA	645	156.497	119.963	-61.531	1.00	53.14	Al6S	ATOM	32461	O3'	GUA	647	168.568	118.258	-60.453	1.00	51.80	Al
ATOM	32409	C6	GUA	645	155.959	118.869	-61.716	1.00	53.14	Al6S	ATOM	32462	P	ADE	648	169.585	117.800	-61.610	1.00	55.93	Al
ATOM	32410	C5	GUA	645	156.633	121.050	-62.434	1.00	53.14	Al6S	ATOM	32463	O1P	ADE	648	170.463	118.964	-61.873	1.00	45.15	Al
ATOM	32411	N7	GUA	645	156.223	121.184	-63.756	1.00	53.14	Al6S	ATOM	32464	O2P	ADE	648	168.836	117.181	-62.738	1.00	45.15	Al
ATOM	32412	C8	GUA	645	156.598	122.391	-64.092	1.00	53.14	Al6S	ATOM	32465	O5'	ADE	648	170.456	116.685	-60.878	1.00	55.93	Al
ATOM	32413	C2'	GUA	645	159.307	124.388	-63.324	1.00	79.70	Al6S	ATOM	32466	C5'	ADE	648	171.013	115.626	-61.621	1.00	55.93	Al
ATOM	32414	O2'	GUA	645	159.893	125.381	-62.507	1.00	79.70	Al6S	ATOM	32467	C4'	ADE	648	172.464	114.417	-60.754	1.00	55.93	Al
ATOM	32415	C3'	GUA	645	159.388	124.723	-64.807	1.00	79.70	Al6S	ATOM	32468	O4'	ADE	648	172.383	113.554	-58.937	1.00	55.93	Al
ATOM	32416	O3'	GUA	645	160.645	125.294	-65.147	1.00	79.70	Al6S	ATOM	32469	C1'	ADE	648	172.826	114.178	-57.696	1.00	45.15	Al
ATOM	32417	P	ADE	646	161.881	124.338	-65.542	1.00	56.70	Al6S	ATOM	32470	N9	ADE	648	173.399	113.499	-56.649	1.00	45.15	Al
ATOM	32418	O1P	ADE	646	162.914	125.237	-66.132	1.00	52.17	Al6S	ATOM	32471	C4	ADE	648	173.640	112.182	-56.572	1.00	45.15	Al
ATOM	32419	O2P	ADE	646	162.441	123.848	-64.139	1.00	56.70	Al6S	ATOM	32472	N3	ADE	648	174.236	111.885	-55.431	1.00	45.15	Al
ATOM	32420	O5'	ADE	646	162.982	124.789	-63.223	1.00	56.70	Al6S	ATOM	32473	C2	ADE	648	174.586	112.686	-54.431	1.00	45.15	Al
ATOM	32421	C5'	ADE	646	163.333	124.105	-61.934	1.00	56.70	Al6S	ATOM	32474	N1	ADE	648	174.331	113.999	-54.537	1.00	45.15	Al
ATOM	32422	C4'	ADE	646	162.121	123.679	-60.259	1.00	56.70	Al6S	ATOM	32475	C6	ADE	648	174.692	114.789	-55.536	1.00	45.15	Al
ATOM	32423	O4'	ADE	646	162.340	122.434	-60.618	1.00	56.70	Al6S	ATOM	32476	N6	ADE	648	173.704	114.449	-55.702	1.00	45.15	Al
ATOM	32424	C1'	ADE	646	161.492	121.432	-61.251	1.00	52.17	Al6S	ATOM	32477	C5	ADE	648	173.318	115.712	-56.134	1.00	45.15	Al
ATOM	32425	N9	ADE	646	161.032	120.283	-60.658	1.00	52.17	Al6S	ATOM	32478	N7	ADE	648	172.796	115.494	-57.319	1.00	45.15	Al
ATOM	32426	C3	ADE	646	160.673	119.877	-59.395	1.00	52.17	Al6S	ATOM	32479	C8	ADE	648	170.943	113.042	-58.895	1.00	55.93	Al
ATOM	32427	N4	ADE	646	159.972	117.930	-60.020	1.00	52.17	Al6S	ATOM	32480	C2'	ADE	648	169.027	113.619	-60.254	1.00	55.93	Al
ATOM	32428	C2	ADE	646	160.641	118.695	-59.182	1.00	52.17	Al6S	ATOM	32481	O2'	ADE	648	170.215	114.121	-59.685	1.00	55.93	Al
ATOM	32429	N1	ADE	646	159.093	117.536	-62.120	1.00	52.17	Al6S	ATOM	32482	C3'	ADE	648	167.659	113.715	-59.425	1.00	47.91	Al
ATOM	32430	C6	ADE	646	160.326	119.611	-61.633	1.00	52.17	Al6S	ATOM	32483	O3'	ADE	649	166.611	114.152	-58.192	1.00	47.29	Al
ATOM	32431	N6	ADE	646	160.313	120.338	-62.815	1.00	52.17	Al6S	ATOM	32484	P	GUA	649	167.362	112.200	-59.024	1.00	47.91	Al
ATOM	32432	C5	ADE	646	161.015	121.409	-62.533	1.00	56.70	Al6S	ATOM	32485	O1P	GUA	649	166.383	110.680	-57.487	1.00	47.91	Al
ATOM	32433	N7	ADE	646	163.813	122.096	-60.810	1.00	56.70	Al6S	ATOM	32486	O2P	GUA	649	165.043	111.085	-57.826	1.00	47.91	Al
ATOM	32434	C8	ADE	646	164.098	122.814	-62.121	1.00	56.70	Al6S	ATOM	32487	O5'	GUA	649	164.294	109.995	-58.341	1.00	47.91	Al
ATOM	32435	O2'	ADE	646	165.476	123.057	-62.353	1.00	56.70	Al6S	ATOM	32488	C5'	GUA	649	163.867	110.307	-59.698	1.00	47.29	Al
ATOM	32436	O2'	ADE	646	166.336	121.970	-63.160	1.00	51.80	Al6S	ATOM	32489	C4'	GUA	649	162.697	108.245	-60.207	1.00	47.29	Al
ATOM	32437	C3'	ADE	646	165.714	122.527	-63.254	1.00	54.68	Al6S	ATOM	32490	O4'	GUA	649	162.049	107.684	-61.211	1.00	47.29	Al
ATOM	32438	O3'	ADE	647	165.601	121.594	-64.397	1.00	54.68	Al6S	ATOM	32491	C1'	GUA	649	161.875	108.280	-62.434	1.00	47.29	Al
ATOM	32439	P	GUA	647	166.882	120.857	-60.862	1.00	51.80	Al6S	ATOM	32492	N9	GUA	649	162.345	109.541	-62.783	1.00	47.29	Al
ATOM	32440	O1P	GUA	647	166.659	119.606	-60.073	1.00	51.80	Al6S	ATOM	32493	C4	GUA	649	162.159	109.972	-63.921	1.00	47.29	Al
ATOM	32441	O2P	GUA	647	165.037	117.958	-59.760	1.00	51.80	Al6S	ATOM	32494	N3	GUA	649	163.619	111.456	-61.625	1.00	47.29	Al
ATOM	32442	O5'	GUA	647	164.049	117.531	-60.739	1.00	54.68	Al6S	ATOM	32495	C2	GUA	649	164.105	111.456	-60.413	1.00	47.29	Al
ATOM	32443	C5'	GUA	647	163.169	115.535	-59.653	1.00	54.68	Al6S	ATOM	32496	N2	GUA	649	165.219	108.785	-58.328	1.00	47.91	Al
ATOM	32444	*C4'	GUA	647	162.331	114.541	-59.919	1.00	54.68	Al6S	ATOM	32497	O6	GUA	649	165.023	108.091	-57.113	1.00	47.91	Al
ATOM	32445	O4'	GUA	647	161.623	114.430	-61.079	1.00	54.68	Al6S	ATOM	32498	C6	GUA	649	167.611	108.609	-58.007	1.00	47.91	Al
ATOM	32446	C1'	GUA	647	161.684	115.320	-62.141	1.00	54.68	Al6S	ATOM	32500	C5	GUA	649	168.472	107.846	-59.123	1.00	47.58	Al
ATOM	32447	N9	GUA	647	161.022	115.106	-63.153	1.00	54.68	Al6S	ATOM	32501	N7	GUA	649						
ATOM	32448	C3	GUA	647							ATOM	32502	C8	GUA	649						
ATOM	32449	N3	GUA	647							ATOM	32503	C2'	GUA	649						
ATOM	32450	C2	GUA	647							ATOM	32504	O2'	GUA	649						
ATOM	32451	N2	GUA	647							ATOM	32505	C3'	GUA	649						
ATOM	32452	N1	GUA	647							ATOM	32506	O3'	GUA	649						
ATOM	32453	C6	GUA	647							ATOM	32507	P	GUA	650						
ATOM	32454	O6	GUA	647																	

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ATOM	32508	O1P	GUA	650	169.668	107.222	-58.490	1.00	43.78	Al6S	ATOM	32561	N1	URI	652	168.214	101.719	-70.251	1.00	40.96	/
ATOM	32509	O2P	GUA	650	169.659	108.810	-60.247	1.00	43.78	Al6S	ATOM	32562	C6	URI	652	168.555	102.939	-68.961	1.00	40.96	/
ATOM	32510	O5'	GUA	650	167.486	106.702	-59.617	1.00	47.58	Al6S	ATOM	32563	C2	URI	652	168.287	102.712	-71.188	1.00	40.96	/
ATOM	32511	C5'	GUA	650	167.034	105.707	-58.727	1.00	47.58	Al6S	ATOM	32564	O2	URI	652	167.954	102.548	-72.347	1.00	40.96	/
ATOM	32512	C4'	GUA	650	166.042	104.837	-59.422	1.00	47.58	Al6S	ATOM	32565	N3	URI	652	168.763	103.913	-70.728	1.00	40.96	/
ATOM	32513	C4'	GUA	650	164.999	105.707	-59.919	1.00	47.58	Al6S	ATOM	32566	C4	URI	652	169.156	104.195	-69.445	1.00	40.96	/
ATOM	32514	O1'	GUA	650	164.488	105.192	-61.137	1.00	47.58	Al6S	ATOM	32567	O4	URI	652	169.636	105.293	-69.188	1.00	40.96	/
ATOM	32515	N9	GUA	650	164.705	106.178	-62.188	1.00	43.78	Al6S	ATOM	32568	C5	URI	652	169.014	103.111	-68.532	1.00	40.96	/
ATOM	32516	C4	GUA	650	164.300	106.061	-63.489	1.00	43.78	Al6S	ATOM	32569	C2'	URI	652	168.918	99.684	-71.410	1.00	59.88	/
ATOM	32517	N3	GUA	650	163.663	105.002	-64.019	1.00	43.78	Al6S	ATOM	32570	O2'	URI	652	168.365	98.811	-72.375	1.00	59.88	/
ATOM	32518	C2	GUA	650	163.381	105.179	-65.286	1.00	43.78	Al6S	ATOM	32571	C3'	URI	652	169.550	98.922	-70.255	1.00	59.88	/
ATOM	32519	N2	GUA	650	162.760	104.214	-65.961	1.00	43.78	Al6S	ATOM	32572	O3'	URI	652	170.306	97.916	-70.733	1.00	59.88	/
ATOM	32520	N1	GUA	650	163.687	106.313	-65.985	1.00	43.78	Al6S	ATOM	32573	P	GUA	653	171.898	97.956	-70.866	1.00	54.18	/
ATOM	32521	C6	GUA	650	164.331	107.428	-65.457	1.00	43.78	Al6S	ATOM	32574	O1P	GUA	653	172.415	96.566	-70.998	1.00	50.78	/
ATOM	32522	O6	GUA	650	164.533	108.425	-66.174	1.00	43.78	Al6S	ATOM	32575	O2P	GUA	653	172.384	98.817	-69.762	1.00	50.78	/
ATOM	32523	C5	GUA	650	164.658	107.238	-64.093	1.00	43.78	Al6S	ATOM	32576	O5'	GUA	653	172.099	98.757	-72.230	1.00	54.18	/
ATOM	32524	N7	GUA	650	165.301	108.076	-63.194	1.00	43.78	Al6S	ATOM	32577	C5'	GUA	653	171.581	98.247	-73.452	1.00	54.18	/
ATOM	32525	C8	GUA	650	165.313	107.400	-62.078	1.00	43.78	Al6S	ATOM	32578	C4'	GUA	653	171.447	99.352	-74.470	1.00	54.18	/
ATOM	32526	C2'	GUA	650	165.221	103.882	-61.395	1.00	47.58	Al6S	ATOM	32579	O4'	GUA	653	170.637	100.415	-73.907	1.00	54.18	/
ATOM	32527	O2'	GUA	650	164.481	102.851	-60.771	1.00	47.58	Al6S	ATOM	32580	C1'	GUA	653	171.039	101.657	-74.455	1.00	54.18	/
ATOM	32528	C3'	GUA	650	166.533	104.163	-60.690	1.00	47.58	Al6S	ATOM	32581	N9	GUA	653	171.415	102.530	-73.356	1.00	50.78	/
ATOM	32529	O3'	GUA	650	167.220	102.961	-60.409	1.00	47.58	Al6S	ATOM	32582	C4	GUA	653	171.694	103.863	-73.442	1.00	50.78	/
ATOM	32530	P	GUA	651	168.442	102.510	-61.349	1.00	57.28	Al6S	ATOM	32583	N3	GUA	653	171.668	104.604	-74.567	1.00	50.78	/
ATOM	32531	O1P	GUA	651	169.136	101.412	-60.634	1.00	46.98	Al6S	ATOM	32584	C2	GUA	653	171.969	105.873	-74.329	1.00	50.78	/
ATOM	32532	O2P	GUA	651	169.200	103.724	-61.773	1.00	46.98	Al6S	ATOM	32585	N2	GUA	653	171.972	106.763	-75.333	1.00	50.78	/
ATOM	32533	O5'	GUA	651	167.726	101.858	-62.609	1.00	57.28	Al6S	ATOM	32586	N1	GUA	653	172.284	106.361	-73.088	1.00	50.78	/
ATOM	32534	C5'	GUA	651	167.058	100.611	-62.478	1.00	57.28	Al6S	ATOM	32587	O6	GUA	653	172.322	105.604	-71.922	1.00	50.78	/
ATOM	32535	C4'	GUA	651	166.390	100.241	-63.773	1.00	57.28	Al6S	ATOM	32588	C6	GUA	653	172.627	106.138	-70.852	1.00	50.78	/
ATOM	32536	O4'	GUA	651	165.440	101.278	-64.132	1.00	57.28	Al6S	ATOM	32589	C5	GUA	653	171.988	104.256	-72.164	1.00	50.78	/
ATOM	32537	C1'	GUA	651	165.382	101.396	-65.541	1.00	57.28	Al6S	ATOM	32590	N7	GUA	653	171.897	103.190	-71.290	1.00	50.78	/
ATOM	32538	N9	GUA	651	165.849	102.727	-65.891	1.00	46.98	Al6S	ATOM	32591	C8	GUA	653	171.556	102.185	-72.045	1.00	50.78	/
ATOM	32539	C4	GUA	651	165.799	103.296	-67.136	1.00	46.98	Al6S	ATOM	32592	C2'	GUA	653	172.203	101.386	-75.406	1.00	54.18	/
ATOM	32540	N3	GUA	651	165.307	102.716	-68.247	1.00	46.98	Al6S	ATOM	32593	O2'	GUA	653	172.727	100.064	-74.861	1.00	54.18	/
ATOM	32541	C2	GUA	651	165.370	103.518	-69.291	1.00	46.98	Al6S	ATOM	32594	C3'	GUA	653	172.715	101.302	-76.727	1.00	54.18	/
ATOM	32542	N2	GUA	651	164.895	103.099	-70.476	1.00	46.98	Al6S	ATOM	32595	O3'	GUA	653	173.435	99.333	-75.846	1.00	54.18	/
ATOM	32543	N1	GUA	651	165.895	104.787	-69.250	1.00	46.98	Al6S	ATOM	32596	P	GUA	654	175.036	99.248	-75.764	1.00	63.89	/
ATOM	32544	C6	GUA	651	166.419	105.399	-68.117	1.00	46.98	Al6S	ATOM	32597	O1P	GUA	654	175.449	98.268	-76.798	1.00	55.61	/
ATOM	32545	O6	GUA	651	166.880	106.541	-68.192	1.00	46.98	Al6S	ATOM	32598	O2P	GUA	654	175.400	99.006	-74.358	1.00	55.61	/
ATOM	32546	C5	GUA	651	166.339	104.555	-66.987	1.00	46.98	Al6S	ATOM	32599	O5'	GUA	654	175.511	100.716	-76.175	1.00	63.89	/
ATOM	32547	N7	GUA	651	166.725	104.774	-65.670	1.00	46.98	Al6S	ATOM	32600	C5'	GUA	654	175.122	101.246	-77.419	1.00	63.89	/
ATOM	32548	C8	GUA	651	166.419	103.661	-65.057	1.00	46.98	Al6S	ATOM	32601	C4'	GUA	654	175.106	102.755	-77.416	1.00	63.89	/
ATOM	32549	C2'	GUA	651	166.293	100.312	-66.109	1.00	57.28	Al6S	ATOM	32602	O4'	GUA	654	174.406	100.261	-76.252	1.00	63.89	/
ATOM	32550	O2'	GUA	651	165.560	99.119	-66.264	1.00	57.28	Al6S	ATOM	32603	C1'	GUA	654	174.736	104.634	-76.099	1.00	63.89	/
ATOM	32551	C3'	GUA	651	167.298	100.167	-64.983	1.00	57.28	Al6S	ATOM	32604	N9	GUA	654	175.082	104.916	-74.715	1.00	55.61	/
ATOM	32552	O3'	GUA	651	167.949	98.908	-65.041	1.00	57.28	Al6S	ATOM	32605	C4	GUA	654	175.308	106.167	-74.714	1.00	55.61	/
ATOM	32553	P	URI	652	169.394	98.794	-65.731	1.00	59.88	Al6S	ATOM	32606	N3	GUA	654	175.230	107.330	-74.880	1.00	55.61	/
ATOM	32554	O1P	URI	652	169.847	97.398	-65.525	1.00	40.96	Al6S	ATOM	32607	C2	GUA	654	175.509	108.372	-74.111	1.00	55.61	/
ATOM	32555	O2P	URI	652	170.219	99.930	-65.231	1.00	40.96	Al6S	ATOM	32608	N2	GUA	654	175.483	109.611	-74.622	1.00	55.61	/
ATOM	32556	O5'	URI	652	169.114	99.022	-67.283	1.00	59.88	Al6S	ATOM	32609	N1	GUA	654	175.833	108.278	-72.786	1.00	55.61	/
ATOM	32557	C5'	URI	652	168.488	98.011	-68.061	1.00	59.88	Al6S	ATOM	32610	C6	GUA	654	175.916	107.091	-72.065	1.00	55.61	/
ATOM	32558	C4'	URI	652	168.316	98.465	-69.496	1.00	59.88	Al6S	ATOM	32611	O6	GUA	654	176.211	107.120	-70.867	1.00	55.61	/
ATOM	32559	O4'	URI	652	167.458	99.634	-69.549	1.00	59.88	Al6S	ATOM	32612	C5	GUA	654	175.626	105.965	-72.876	1.00	55.61	/
ATOM	32560	C1'	URI	652	167.777	100.402	-70.697	1.00	59.88	Al6S	ATOM	32613	N7	GUA	654	175.600	104.611	-72.565	1.00	55.61	/

ATOM	32614	C8	GUA	654	175.268	104.028	-73.686	1.00	55.61	Al6S	ATOM	32667	C4'	GUA	657	188.278	114.163	-73.977	1.00	59.75	Al
ATOM	32615	C2'	GUA	654	175.936	104.909	-77.002	1.00	63.89	Al6S	ATOM	32668	O4'	GUA	657	187.118	113.736	-73.210	1.00	59.75	Al
ATOM	32616	O2'	GUA	654	175.513	105.623	-78.143	1.00	63.89	Al6S	ATOM	32669	C1'	GUA	657	187.512	113.417	-71.883	1.00	59.75	Al
ATOM	32617	C3'	GUA	654	176.420	103.498	-77.310	1.00	63.89	Al6S	ATOM	32670	N9	GUA	657	187.232	112.008	-71.632	1.00	52.37	Al
ATOM	32618	O3'	GUA	654	177.115	103.505	-78.541	1.00	63.89	Al6S	ATOM	32671	C4	GUA	657	187.031	111.412	-70.399	1.00	52.37	Al
ATOM	32619	P	URI	655	178.713	103.393	-78.543	1.00	64.98	Al6S	ATOM	32672	N3	GUA	657	187.062	112.028	-69.193	1.00	52.37	Al
ATOM	32620	O1P	URI	655	179.128	103.294	-79.964	1.00	61.48	Al6S	ATOM	32673	C2	GUA	657	186.822	111.182	-68.204	1.00	52.37	Al
ATOM	32621	O2P	URI	655	179.074	102.311	-77.597	1.00	61.48	Al6S	ATOM	32674	N2	GUA	657	186.814	111.608	-66.936	1.00	52.37	Al
ATOM	32622	O5'	URI	655	179.210	104.793	-77.971	1.00	64.98	Al6S	ATOM	32675	N1	GUA	657	186.573	109.852	-68.378	1.00	52.37	Al
ATOM	32623	C5'	URI	655	179.066	105.969	-78.749	1.00	64.98	Al6S	ATOM	32676	C6	GUA	657	186.539	109.201	-69.598	1.00	52.37	Al
ATOM	32624	C4'	URI	655	179.127	107.194	-77.872	1.00	64.98	Al6S	ATOM	32677	O6	GUA	657	186.307	107.993	-69.638	1.00	52.37	Al
ATOM	32625	O4'	URI	655	178.227	107.007	-76.756	1.00	64.98	Al6S	ATOM	32678	C5	GUA	657	186.793	110.085	-70.672	1.00	52.37	Al
ATOM	32626	C1'	URI	655	178.687	107.763	-75.652	1.00	64.98	Al6S	ATOM	32679	N7	GUA	657	186.848	109.846	-72.038	1.00	52.37	Al
ATOM	32627	N1	URI	655	178.837	106.864	-74.507	1.00	61.48	Al6S	ATOM	32680	C8	GUA	657	187.113	111.012	-72.564	1.00	52.37	Al
ATOM	32628	C6	URI	655	178.773	105.507	-74.650	1.00	61.48	Al6S	ATOM	32681	C2'	GUA	657	189.000	113.721	-71.792	1.00	59.75	Al
ATOM	32629	C2	URI	655	179.034	107.446	-73.284	1.00	61.48	Al6S	ATOM	32682	O2'	GUA	657	189.150	113.497	-73.234	1.00	59.75	Al
ATOM	32630	O2	URI	655	179.103	108.651	-73.137	1.00	61.48	Al6S	ATOM	32683	C3'	GUA	657	190.672	114.105	-73.082	1.00	59.75	Al
ATOM	32631	N3	URI	655	179.144	106.571	-72.241	1.00	61.48	Al6S	ATOM	32684	O3'	GUA	657	192.017	113.329	-73.082	1.00	59.91	Al
ATOM	32632	C4	URI	655	179.079	105.199	-72.306	1.00	61.48	Al6S	ATOM	32685	P	ADE	658	193.140	114.065	-73.729	1.00	50.05	Al
ATOM	32633	O4	URI	655	179.211	104.536	-71.275	1.00	61.48	Al6S	ATOM	32686	O1P	ADE	658	191.836	111.880	-73.346	1.00	50.05	Al
ATOM	32634	C5	URI	655	178.880	104.675	-73.621	1.00	61.48	Al6S	ATOM	32687	O2P	ADE	658	192.118	113.523	-71.504	1.00	59.91	Al
ATOM	32635	O2'	URI	655	179.999	108.425	-76.035	1.00	64.98	Al6S	ATOM	32688	O5'	ADE	658	192.423	114.795	-70.944	1.00	59.91	Al
ATOM	32636	C2'	URI	655	179.723	109.751	-76.450	1.00	64.98	Al6S	ATOM	32689	C5'	ADE	658	192.487	114.705	-69.437	1.00	59.91	Al
ATOM	32637	C3'	URI	655	180.449	107.524	-77.198	1.00	64.98	Al6S	ATOM	32690	C4'	ADE	658	191.177	114.333	-68.930	1.00	59.91	Al
ATOM	32638	O3'	URI	655	181.289	108.244	-78.086	1.00	64.98	Al6S	ATOM	32691	O4'	ADE	658	191.324	113.555	-67.753	1.00	59.91	Al
ATOM	32639	P	GUA	656	182.868	108.330	-77.801	1.00	71.74	Al6S	ATOM	32692	C1'	ADE	658	190.784	112.222	-68.009	1.00	50.05	Al
ATOM	32640	O1P	GUA	656	183.494	108.781	-79.068	1.00	49.25	Al6S	ATOM	32693	N9	ADE	658	190.436	111.305	-67.045	1.00	50.05	Al
ATOM	32641	O2P	GUA	656	183.332	107.075	-77.156	1.00	49.25	Al6S	ATOM	32694	C4	ADE	658	190.470	111.474	-65.707	1.00	50.05	Al
ATOM	32642	O5'	GUA	656	183.012	109.543	-76.785	1.00	71.74	Al6S	ATOM	32695	N3	ADE	658	189.734	109.112	-65.610	1.00	50.05	Al
ATOM	32643	C5'	GUA	656	182.822	110.874	-77.234	1.00	71.74	Al6S	ATOM	32696	C2	ADE	658	189.701	109.039	-66.952	1.00	50.05	Al
ATOM	32644	C4'	GUA	656	182.229	111.834	-76.156	1.00	71.74	Al6S	ATOM	32697	N1	ADE	658	189.328	107.865	-67.461	1.00	50.05	Al
ATOM	32645	O4'	GUA	656	182.350	111.667	-75.019	1.00	71.74	Al6S	ATOM	32698	C6	ADE	658	190.066	110.157	-67.729	1.00	50.05	Al
ATOM	32646	C1'	GUA	656	183.081	111.860	-73.825	1.00	71.74	Al6S	ATOM	32699	N6	ADE	658	190.140	110.363	-69.100	1.00	50.05	Al
ATOM	32647	N9	GUA	656	183.136	110.514	-71.690	1.00	49.25	Al6S	ATOM	32700	C5	ADE	658	192.820	113.510	-67.453	1.00	59.91	Al
ATOM	32648	C4	GUA	656	183.382	111.525	-70.835	1.00	49.25	Al6S	ATOM	32701	N7	ADE	658	193.159	114.634	-66.673	1.00	59.91	Al
ATOM	32649	N3	GUA	656	183.461	111.109	-69.588	1.00	49.25	Al6S	ATOM	32702	C8	ADE	658	193.393	113.634	-68.853	1.00	59.91	Al
ATOM	32650	C2	GUA	656	183.698	112.001	-68.616	1.00	49.25	Al6S	ATOM	32703	C2'	ADE	658	194.753	114.042	-68.824	1.00	59.91	Al
ATOM	32651	N1	GUA	656	183.311	109.794	-69.209	1.00	49.25	Al6S	ATOM	32704	O2'	ADE	659	195.918	112.945	-69.017	1.00	54.91	Al
ATOM	32652	N2	GUA	656	182.925	107.583	-69.635	1.00	49.25	Al6S	ATOM	32705	C3'	ADE	659	197.219	113.665	-69.002	1.00	45.96	Al
ATOM	32653	C6	GUA	656	182.965	109.175	-71.416	1.00	49.25	Al6S	ATOM	32706	O3'	ADE	659	195.579	112.069	-70.163	1.00	45.96	Al
ATOM	32654	O6	GUA	656	182.725	108.466	-72.581	1.00	49.25	Al6S	ATOM	32707	P	ADE	659	196.087	112.608	-66.423	1.00	54.91	Al
ATOM	32655	C5	GUA	656	184.506	112.252	-74.220	1.00	71.74	Al6S	ATOM	32708	O1P	ADE	659	195.726	111.619	-65.350	1.00	54.91	Al
ATOM	32656	N7	GUA	656	184.625	111.617	-75.537	1.00	71.74	Al6S	ATOM	32709	O2P	ADE	659	194.137	109.919	-65.049	1.00	54.91	Al
ATOM	32657	C8	GUA	656	184.592	113.659	-74.292	1.00	71.74	Al6S	ATOM	32710	O5'	ADE	659	193.606	109.139	-66.161	1.00	45.96	Al
ATOM	32658	C2'	GUA	656	185.561	112.322	-76.404	1.00	71.74	Al6S	ATOM	32711	C5'	ADE	659	193.055	107.885	-66.076	1.00	45.96	Al
ATOM	32659	O2'	GUA	656	187.025	111.712	-76.672	1.00	59.75	Al6S	ATOM	32712	C4'	ADE	659	192.870	107.156	-64.971	1.00	45.96	Al
ATOM	32660	C3'	GUA	657	187.465	112.321	-77.945	1.00	52.37	Al6S	ATOM	32713	C1'	ADE	659	192.334	105.978	-65.275	1.00	45.96	Al
ATOM	32661	O3'	GUA	657	188.091	113.753	-75.417	1.00	59.75	Al6S	ATOM	32714	N9	ADE	659	191.989	105.487	-66.465	1.00	45.96	Al
ATOM	32662	P	GUA	657							ATOM	32715	C4'	ADE	659						
ATOM	32663	O1P	GUA	657							ATOM	32716	C4	ADE	659						
ATOM	32664	O2P	GUA	657							ATOM	32717	N3	ADE	659						
ATOM	32665	O5'	GUA	657							ATOM	32718	C2	ADE	659						
ATOM	32666	C5'	GUA	657							ATOM	32719	N1	ADE	659						

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ATOM	32720	C6	ADE	659	192.187	106.250	-67.554	1.00	45.96	Al6s	ATOM	32773	C5' CYT	662	202.263	96.996	-66.569	1.00	56.55	A	
ATOM	32721	N6	ADE	659	191.841	105.760	-68.746	1.00	45.96	Al6s	ATOM	32774	C4' CYT	662	201.490	96.422	-67.708	1.00	56.55	A	
ATOM	32722	C5	ADE	659	192.749	107.518	-67.367	1.00	45.96	Al6s	ATOM	32775	C4' CYT	662	200.283	97.207	-67.860	1.00	56.55	A	
ATOM	32723	N7	ADE	659	193.080	108.529	-68.255	1.00	45.96	Al6s	ATOM	32776	C1' CYT	662	199.936	97.285	-69.231	1.00	56.55	A	
ATOM	32724	C8	ADE	659	193.578	109.472	-67.489	1.00	45.96	Al6s	ATOM	32777	N1	CYT	662	199.973	98.692	-69.622	1.00	36.48	A
ATOM	32725	C2' ADE	659	195.508	109.398	-64.620	1.00	54.91	Al6s	ATOM	32778	C6	CYT	662	200.613	99.621	-68.855	1.00	36.48	A	
ATOM	32726	C2' ADE	659	195.634	109.616	-63.236	1.00	54.91	Al6s	ATOM	32779	C2	CYT	662	199.348	99.064	-70.807	1.00	36.48	A	
ATOM	32727	C3' ADE	659	196.430	110.282	-65.451	1.00	54.91	Al6s	ATOM	32780	C2	CYT	662	198.771	98.187	-71.468	1.00	36.48	A	
ATOM	32728	C3' ADE	659	197.746	110.377	-64.925	1.00	54.91	Al6s	ATOM	32781	N3	CYT	662	199.388	100.364	-71.205	1.00	36.48	A	
ATOM	32729	P	URI	660	198.907	109.395	-65.470	1.00	50.02	Al6s	ATOM	32782	C4	CYT	662	200.019	101.264	-70.454	1.00	36.48	A
ATOM	32730	01P	URI	660	200.187	109.947	-64.944	1.00	51.64	Al6s	ATOM	32783	N4	CYT	662	200.045	102.524	-70.879	1.00	36.48	A
ATOM	32731	02P	URI	660	198.770	109.148	-66.928	1.00	51.64	Al6s	ATOM	32784	C5	CYT	662	200.659	100.907	-69.228	1.00	36.48	A
ATOM	32732	05' URI	660	198.608	108.003	-64.746	1.00	50.02	Al6s	ATOM	32785	C2' CYT	662	200.964	96.456	-69.997	1.00	56.55	A		
ATOM	32733	C5' URI	660	198.727	107.874	-63.338	1.00	50.02	Al6s	ATOM	32786	C2' CYT	662	200.462	95.141	-70.153	1.00	56.55	A		
ATOM	32734	C4' URI	660	198.153	106.559	-62.886	1.00	50.02	Al6s	ATOM	32787	C3' CYT	662	202.160	96.568	-69.057	1.00	56.55	A		
ATOM	32735	04' URI	660	196.768	106.477	-63.309	1.00	50.02	Al6s	ATOM	32788	03' CYT	662	203.171	95.578	-69.241	1.00	56.55	A		
ATOM	32736	C1' URI	660	196.419	105.117	-63.520	1.00	50.02	Al6s	ATOM	32789	P	CYT	663	204.559	95.985	-69.944	1.00	70.41	A	
ATOM	32737	N1	URI	660	195.910	104.970	-64.889	1.00	51.64	Al6s	ATOM	32790	01P	CYT	663	205.540	94.919	-69.629	1.00	58.08	A
ATOM	32738	C6	URI	660	195.961	106.002	-65.788	1.00	51.64	Al6s	ATOM	32791	02P	CYT	663	204.891	97.399	-69.613	1.00	58.08	A
ATOM	32739	C2	URI	660	195.377	103.751	-65.237	1.00	51.64	Al6s	ATOM	32792	05' CYT	663	204.193	95.905	-71.492	1.00	70.41	A	
ATOM	32740	02	URI	660	195.300	102.830	-64.458	1.00	51.64	Al6s	ATOM	32793	C5' CYT	663	203.527	94.766	-72.024	1.00	70.41	A	
ATOM	32741	N3	URI	660	194.931	103.655	-66.529	1.00	51.64	Al6s	ATOM	32794	C4' CYT	663	202.917	95.099	-73.362	1.00	70.41	A	
ATOM	32742	C4	URI	660	194.954	104.645	-67.480	1.00	51.64	Al6s	ATOM	32795	04' CYT	663	201.804	96.010	-73.184	1.00	70.41	A	
ATOM	32743	04	URI	660	194.515	104.413	-68.603	1.00	51.64	Al6s	ATOM	32796	C1' CYT	663	201.714	96.873	-74.306	1.00	70.41	A	
ATOM	32744	C5	URI	660	195.511	105.887	-67.039	1.00	51.64	Al6s	ATOM	32797	N1	CYT	663	201.885	98.251	-73.840	1.00	58.08	A
ATOM	32745	C2' URI	660	197.677	104.286	-63.270	1.00	50.02	Al6s	ATOM	32798	C6	CYT	663	202.311	98.510	-72.570	1.00	58.08	A	
ATOM	32746	02' URI	660	197.676	103.807	-61.942	1.00	50.02	Al6s	ATOM	32799	C2	CYT	663	201.597	99.307	-74.721	1.00	58.08	A	
ATOM	32747	C3' URI	660	198.760	105.323	-63.516	1.00	50.02	Al6s	ATOM	32800	02	CYT	663	201.235	99.045	-75.873	1.00	58.08	A	
ATOM	32748	03' URI	660	199.980	104.961	-62.897	1.00	50.02	Al6s	ATOM	32801	N3	CYT	663	201.726	100.579	-74.293	1.00	58.08	A	
ATOM	32749	P	URI	661	201.187	104.421	-63.809	1.00	53.87	Al6s	ATOM	32802	C4	CYT	663	202.130	100.821	-73.046	1.00	58.08	A
ATOM	32750	01P	URI	661	202.415	104.323	-62.977	1.00	38.95	Al6s	ATOM	32803	N4	CYT	663	202.225	102.096	-72.657	1.00	58.08	A
ATOM	32751	02P	URI	661	201.184	105.276	-65.028	1.00	38.95	Al6s	ATOM	32804	C5	CYT	663	202.449	99.767	-72.135	1.00	58.08	A
ATOM	32752	05' URI	661	200.748	102.941	-64.198	1.00	53.87	Al6s	ATOM	32805	C2' CYT	663	202.810	96.456	-75.281	1.00	70.41	A		
ATOM	32753	C5' URI	661	200.609	101.950	-63.198	1.00	53.87	Al6s	ATOM	32806	02' CYT	663	202.271	95.519	-76.187	1.00	70.41	A		
ATOM	32754	C4' URI	661	199.896	100.744	-63.755	1.00	53.87	Al6s	ATOM	32807	C3' CYT	663	203.822	95.838	-74.331	1.00	70.41	A		
ATOM	32755	04' URI	661	198.545	101.088	-64.152	1.00	53.87	Al6s	ATOM	32808	03' CYT	663	204.707	94.948	-74.995	1.00	70.41	A		
ATOM	32756	C1' URI	661	198.184	100.350	-65.308	1.00	53.87	Al6s	ATOM	32809	P	CYT	664	206.243	95.373	-75.224	1.00	76.13	A	
ATOM	32757	N1	URI	661	197.985	101.314	-66.392	1.00	38.95	Al6s	ATOM	32810	01P	CYT	664	206.959	94.093	-75.453	1.00	61.16	A
ATOM	32758	C6	URI	661	198.339	102.629	-66.225	1.00	38.95	Al6s	ATOM	32811	02P	CYT	664	206.704	96.291	-74.151	1.00	61.16	A
ATOM	32759	C2	URI	661	197.430	100.864	-67.576	1.00	38.95	Al6s	ATOM	32812	05' CYT	664	206.206	96.229	-76.566	1.00	76.13	A	
ATOM	32760	02	URI	661	197.098	99.708	-67.749	1.00	38.95	Al6s	ATOM	32813	C5' CYT	664	205.768	95.640	-77.779	1.00	76.13	A	
ATOM	32761	N3	URI	661	197.279	101.824	-68.546	1.00	38.95	Al6s	ATOM	32814	C4' CYT	664	205.476	96.703	-78.801	1.00	76.13	A	
ATOM	32762	C4	URI	661	197.623	103.161	-68.445	1.00	38.95	Al6s	ATOM	32815	04' CYT	664	204.351	97.509	-78.366	1.00	76.13	A	
ATOM	32763	04	URI	661	197.503	103.899	-69.428	1.00	38.95	Al6s	ATOM	32816	C1' CYT	664	204.467	98.810	-78.925	1.00	76.13	A	
ATOM	32764	C5	URI	661	198.177	103.542	-67.179	1.00	38.95	Al6s	ATOM	32817	N1	CYT	664	204.527	99.797	-77.837	1.00	61.16	A
ATOM	32765	C2' URI	661	199.334	99.388	-65.600	1.00	53.87	Al6s	ATOM	32818	C6	CYT	664	204.905	99.442	-76.571	1.00	61.16	A	
ATOM	32766	02' URI	661	199.117	98.136	-64.967	1.00	53.87	Al6s	ATOM	32819	C2	CYT	664	204.216	101.128	-78.135	1.00	61.16	A	
ATOM	32767	C3' URI	661	200.504	100.158	-65.010	1.00	53.87	Al6s	ATOM	32820	02	CYT	664	203.828	101.404	-79.278	1.00	61.16	A	
ATOM	32768	03' URI	661	201.581	99.307	-64.670	1.00	53.87	Al6s	ATOM	32821	N3	CYT	664	204.340	102.072	-77.175	1.00	61.16	A	
ATOM	32769	P	CYT	662	202.895	99.305	-65.580	1.00	56.55	Al6s	ATOM	32822	C4	CYT	664	204.741	101.725	-75.951	1.00	61.16	A
ATOM	32770	01P	CYT	662	203.928	98.589	-64.794	1.00	36.48	Al6s	ATOM	32823	N4	CYT	664	204.884	102.692	-75.044	1.00	61.16	A
ATOM	32771	02P	CYT	662	203.160	100.692	-66.065	1.00	36.48	Al6s	ATOM	32824	C5	CYT	664	205.023	100.366	-75.605	1.00	61.16	A
ATOM	32772	05' CYT	662	202.484	98.371	-66.794	1.00	56.55	Al6s	ATOM	32825	C2' CYT	664	205.770	98.830	-79.728	1.00	76.13	A		

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ATOM	32826	O2' CYT	666	205.515	98.516	-81.082	1.00	76.13	Al6S	ATOM	32879	C5' ADE	667	215.920	109.050	-80.843	1.00	69.42	Al6S
ATOM	32827	C3' CYT	664	206.557	97.742	-79.020	1.00	76.13	Al6S	ATOM	32880	C4' ADE	667	215.790	109.884	-79.589	1.00	69.42	Al6S
ATOM	32828	O3' CYT	664	207.625	97.259	-79.816	1.00	76.13	Al6S	ATOM	32881	O4' ADE	667	214.518	109.617	-78.945	1.00	69.42	Al6S
ATOM	32829	P GUA	665	209.103	97.853	-79.597	1.00	82.28	Al6S	ATOM	32882	C1' ADE	667	214.681	109.654	-77.540	1.00	69.42	Al6S
ATOM	32830	O1P GUA	665	210.017	97.020	-80.417	1.00	74.37	Al6S	ATOM	32883	N9 ADE	667	214.446	108.304	-77.039	1.00	56.74	Al6S
ATOM	32831	O2P GUA	665	209.367	98.015	-78.148	1.00	74.37	Al6S	ATOM	32884	C4 ADE	667	214.097	107.952	-75.760	1.00	56.74	Al6S
ATOM	32832	O5' GUA	665	209.029	99.302	-80.248	1.00	82.28	Al6S	ATOM	32885	N3 ADE	667	213.919	108.768	-74.711	1.00	56.74	Al6S
ATOM	32833	C5' GUA	665	208.841	99.440	-81.644	1.00	82.28	Al6S	ATOM	32886	C2 ADE	667	213.560	108.074	-73.641	1.00	56.74	Al6S
ATOM	32834	C4' GUA	665	208.689	100.889	-82.011	1.00	82.28	Al6S	ATOM	32887	N1 ADE	667	213.374	106.758	-73.509	1.00	56.74	Al6S
ATOM	32835	O4' GUA	665	207.463	101.415	-81.440	1.00	82.28	Al6S	ATOM	32888	C6 ADE	667	213.563	105.969	-74.582	1.00	56.74	Al6S
ATOM	32836	C1' GUA	665	207.634	102.793	-81.148	1.00	82.28	Al6S	ATOM	32889	N6 ADE	667	213.377	104.657	-74.449	1.00	56.74	Al6S
ATOM	32837	N9 GUA	665	207.569	102.968	-79.704	1.00	74.37	Al6S	ATOM	32890	C5 ADE	667	213.946	106.581	-75.777	1.00	56.74	Al6S
ATOM	32838	C4 GUA	665	207.563	104.171	-79.051	1.00	74.37	Al6S	ATOM	32891	N7 ADE	667	214.213	106.075	-77.037	1.00	56.74	Al6S
ATOM	32839	N3 GUA	665	207.565	105.384	-79.638	1.00	74.37	Al6S	ATOM	32892	C8 ADE	667	214.507	107.135	-77.744	1.00	56.74	Al6S
ATOM	32840	C2 GUA	665	207.584	106.355	-78.754	1.00	74.37	Al6S	ATOM	32893	C2' ADE	667	216.101	110.149	-77.273	1.00	69.42	Al6S
ATOM	32841	N2 GUA	665	207.586	107.627	-79.169	1.00	74.37	Al6S	ATOM	32894	O2' ADE	667	216.099	111.560	-77.224	1.00	69.42	Al6S
ATOM	32842	N1 GUA	665	207.603	106.155	-77.400	1.00	74.37	Al6S	ATOM	32895	C3' ADE	667	216.822	109.633	-78.506	1.00	69.42	Al6S
ATOM	32843	C6 GUA	665	207.607	104.915	-76.775	1.00	74.37	Al6S	ATOM	32896	O3' ADE	667	217.996	110.385	-78.761	1.00	69.42	Al6S
ATOM	32844	C6 GUA	665	207.641	104.847	-75.543	1.00	74.37	Al6S	ATOM	32897	P GUA	668	219.417	109.825	-78.275	1.00	76.27	Al6S
ATOM	32845	C5 GUA	665	207.577	103.861	-77.713	1.00	74.37	Al6S	ATOM	32898	O1P GUA	668	220.420	110.846	-78.643	1.00	59.64	Al6S
ATOM	32846	N7 GUA	665	207.560	102.485	-77.525	1.00	74.37	Al6S	ATOM	32899	O2P GUA	668	219.580	108.424	-78.740	1.00	59.64	Al6S
ATOM	32847	C8 GUA	665	207.548	101.996	-78.734	1.00	74.37	Al6S	ATOM	32900	O5' GUA	668	219.316	109.849	-76.690	1.00	76.27	Al6S
ATOM	32848	C2' GUA	665	209.038	103.165	-81.620	1.00	82.28	Al6S	ATOM	32901	C5' GUA	668	219.156	111.086	-76.007	1.00	76.27	Al6S
ATOM	32849	O2' GUA	665	208.996	103.605	-82.957	1.00	82.28	Al6S	ATOM	32902	C4' GUA	668	218.889	110.843	-74.549	1.00	76.27	Al6S
ATOM	32850	C3' GUA	665	209.739	101.830	-81.464	1.00	82.28	Al6S	ATOM	32903	O4' GUA	668	217.607	110.189	-74.384	1.00	76.27	Al6S
ATOM	32851	O3' GUA	665	210.948	101.773	-82.191	1.00	82.28	Al6S	ATOM	32904	C1' GUA	668	217.664	109.316	-73.271	1.00	76.27	Al6S
ATOM	32852	P GUA	666	212.334	101.955	-81.409	1.00	85.47	Al6S	ATOM	32905	N9 GUA	668	217.354	107.976	-73.744	1.00	59.64	Al6S
ATOM	32853	O1P GUA	666	213.387	101.341	-82.248	1.00	69.03	Al6S	ATOM	32906	C4 GUA	668	216.878	106.922	-72.992	1.00	59.64	Al6S
ATOM	32854	O2P GUA	666	212.128	101.464	-80.027	1.00	69.03	Al6S	ATOM	32907	N3 GUA	668	216.598	106.946	-71.671	1.00	59.64	Al6S
ATOM	32855	O5' GUA	666	212.533	103.535	-81.358	1.00	85.47	Al6S	ATOM	32908	C2 GUA	668	216.146	105.776	-71.240	1.00	59.64	Al6S
ATOM	32856	C5' GUA	666	212.201	104.339	-82.482	1.00	85.47	Al6S	ATOM	32909	N2 GUA	668	215.811	105.612	-69.954	1.00	59.64	Al6S
ATOM	32857	C4' GUA	666	211.977	105.775	-82.064	1.00	85.47	Al6S	ATOM	32910	N1 GUA	668	215.988	104.678	-72.038	1.00	59.64	Al6S
ATOM	32858	O4' GUA	666	210.809	105.880	-81.206	1.00	85.47	Al6S	ATOM	32911	C6 GUA	668	216.272	104.630	-73.395	1.00	59.64	Al6S
ATOM	32859	C1' GUA	666	210.977	106.969	-80.312	1.00	85.47	Al6S	ATOM	32912	O6 GUA	668	216.094	103.581	-74.022	1.00	59.64	Al6S
ATOM	32860	N9 GUA	666	210.869	106.470	-78.945	1.00	69.03	Al6S	ATOM	32913	C5 GUA	668	216.753	105.875	-73.874	1.00	59.64	Al6S
ATOM	32861	C4 GUA	666	210.775	107.225	-77.790	1.00	69.03	Al6S	ATOM	32914	N7 GUA	668	217.134	106.260	-75.154	1.00	59.64	Al6S
ATOM	32862	N3 GUA	666	210.769	108.574	-77.715	1.00	69.03	Al6S	ATOM	32915	C8 GUA	668	217.480	107.512	-75.027	1.00	59.64	Al6S
ATOM	32863	C2 GUA	666	210.661	109.001	-76.465	1.00	69.03	Al6S	ATOM	32916	C2' GUA	668	219.069	109.429	-72.674	1.00	76.27	Al6S
ATOM	32864	N2 GUA	666	210.645	110.310	-76.207	1.00	69.03	Al6S	ATOM	32917	O2' GUA	668	219.039	110.356	-71.610	1.00	76.27	Al6S
ATOM	32865	N1 GUA	666	210.560	108.175	-75.377	1.00	69.03	Al6S	ATOM	32918	C3' GUA	668	221.069	110.603	-73.567	1.00	76.27	Al6S
ATOM	32866	C6 GUA	666	210.554	106.786	-75.426	1.00	69.03	Al6S	ATOM	32919	O3' GUA	668	222.400	109.787	-73.192	1.00	70.65	Al6S
ATOM	32867	O6 GUA	666	210.442	106.134	-74.382	1.00	69.03	Al6S	ATOM	32920	P GUA	669	222.400	109.787	-73.192	1.00	70.65	Al6S
ATOM	32868	C5 GUA	666	210.681	106.310	-76.762	1.00	69.03	Al6S	ATOM	32921	O1P GUA	669	223.498	110.765	-73.019	1.00	63.07	Al6S
ATOM	32869	N7 GUA	666	210.722	105.010	-77.255	1.00	69.03	Al6S	ATOM	32922	O2P GUA	669	222.578	108.624	-74.085	1.00	63.07	Al6S
ATOM	32870	C8 GUA	666	210.833	105.156	-78.550	1.00	69.03	Al6S	ATOM	32923	O5' GUA	669	222.047	109.214	-71.765	1.00	70.65	Al6S
ATOM	32871	C2' GUA	666	212.341	107.592	-80.616	1.00	85.47	Al6S	ATOM	32924	C5' GUA	669	223.027	108.589	-70.973	1.00	70.65	Al6S
ATOM	32872	O2' GUA	666	212.159	108.656	-81.527	1.00	85.47	Al6S	ATOM	32925	C4' GUA	669	222.608	108.670	-69.548	1.00	70.65	Al6S
ATOM	32873	C3' GUA	666	213.079	106.417	-81.244	1.00	85.47	Al6S	ATOM	32926	O4' GUA	669	221.163	108.672	-69.541	1.00	70.65	Al6S
ATOM	32874	O3' GUA	666	214.142	106.857	-82.078	1.00	85.47	Al6S	ATOM	32927	C1' GUA	669	220.697	107.777	-68.554	1.00	70.65	Al6S
ATOM	32875	P ADE	667	215.665	106.571	-81.646	1.00	69.42	Al6S	ATOM	32928	N1 GUA	669	220.157	106.602	-69.244	1.00	63.07	Al6S
ATOM	32876	O1P ADE	667	216.516	106.903	-82.819	1.00	56.74	Al6S	ATOM	32929	C6 GUA	669	220.562	106.295	-70.510	1.00	63.07	Al6S
ATOM	32877	O2P ADE	667	215.750	105.212	-81.044	1.00	56.74	Al6S	ATOM	32930	C2 GUA	669	219.214	105.834	-68.590	1.00	63.07	Al6S
ATOM	32878	O5' ADE	667	215.964	107.664	-80.524	1.00	69.42	Al6S	ATOM	32931	O2 GUA	669	218.869	106.042	-67.451	1.00	63.07	Al6S

ATOM	32932	N3	URI	669	218.698	104.807	-69.325	1.00	63.07	Al6S	ATOM	32985	P	CYT	672	217.437	109.102	-58.317	1.00	50.23	/
ATOM	32933	C4	URI	669	219.031	104.476	-70.615	1.00	63.07	Al6S	ATOM	32986	O1P	CYT	672	217.251	110.574	-58.333	1.00	37.02	/
ATOM	32934	O4	URI	669	218.349	103.655	-71.211	1.00	63.07	Al6S	ATOM	32987	O2P	CYT	672	218.023	108.446	-57.126	1.00	37.02	/
ATOM	32935	C5	URI	669	220.048	105.286	-71.199	1.00	63.07	Al6S	ATOM	32988	O5	CYT	672	216.058	108.362	-58.591	1.00	50.23	/
ATOM	32936	C2	URI	669	221.901	107.474	-67.662	1.00	70.65	Al6S	ATOM	32989	C5	CYT	672	215.326	108.617	-59.775	1.00	50.23	/
ATOM	32937	O2	URI	669	222.004	108.535	-66.732	1.00	70.65	Al6S	ATOM	32990	C4	CYT	672	214.303	107.534	-59.995	1.00	50.23	/
ATOM	32938	C3	URI	669	223.016	107.493	-68.686	1.00	70.65	Al6S	ATOM	32991	O4	CYT	672	214.974	106.249	-60.021	1.00	50.23	/
ATOM	32939	O3	URI	669	224.333	107.679	-68.179	1.00	70.65	Al6S	ATOM	32992	C1	CYT	672	214.104	105.254	-59.522	1.00	50.23	/
ATOM	32940	P	ADE	670	224.593	108.589	-66.875	1.00	59.80	Al6S	ATOM	32993	N1	CYT	672	214.749	104.619	-58.371	1.00	37.02	/
ATOM	32941	O1P	ADE	670	223.936	109.906	-67.084	1.00	49.94	Al6S	ATOM	32994	C6	CYT	672	215.891	105.137	-57.835	1.00	37.02	/
ATOM	32942	O2P	ADE	670	226.058	108.528	-66.633	1.00	49.94	Al6S	ATOM	32995	C2	CYT	672	213.165	103.469	-57.818	1.00	37.02	/
ATOM	32943	O5	ADE	670	223.893	107.806	-65.678	1.00	59.80	Al6S	ATOM	32996	O2	CYT	672	213.140	103.031	-58.330	1.00	37.02	/
ATOM	32944	C5	ADE	670	223.517	108.467	-64.475	1.00	59.80	Al6S	ATOM	32997	N3	CYT	672	214.734	102.886	-56.746	1.00	37.02	/
ATOM	32945	C4	ADE	670	222.889	107.473	-63.537	1.00	59.80	Al6S	ATOM	32998	C4	CYT	672	215.844	103.405	-56.223	1.00	37.02	/
ATOM	32946	O4	ADE	670	221.782	106.846	-64.208	1.00	59.80	Al6S	ATOM	32999	N4	CYT	672	216.373	102.803	-55.157	1.00	37.02	/
ATOM	32947	C1	ADE	670	221.635	105.525	-63.743	1.00	59.80	Al6S	ATOM	33000	C5	CYT	672	216.465	104.569	-56.769	1.00	37.02	/
ATOM	32948	N9	ADE	670	221.291	104.673	-64.872	1.00	49.94	Al6S	ATOM	33001	C2	CYT	672	212.796	105.951	-59.151	1.00	50.23	/
ATOM	32949	C4	ADE	670	219.602	103.287	-63.800	1.00	49.94	Al6S	ATOM	33002	O2	CYT	672	211.910	105.909	-60.244	1.00	50.23	/
ATOM	32950	N3	ADE	670	218.781	102.304	-64.153	1.00	49.94	Al6S	ATOM	33003	C3	CYT	672	213.279	107.365	-58.893	1.00	50.23	/
ATOM	32951	C2	ADE	670	218.628	101.716	-65.345	1.00	49.94	Al6S	ATOM	33004	O3	CYT	672	212.218	108.292	-59.047	1.00	50.23	/
ATOM	32952	N1	ADE	670	219.390	102.141	-66.376	1.00	49.94	Al6S	ATOM	33005	P	GUU	673	211.636	109.051	-57.755	1.00	45.23	/
ATOM	32953	C6	ADE	670	219.232	101.571	-67.562	1.00	49.94	Al6S	ATOM	33006	O1P	GUU	673	210.736	110.127	-58.256	1.00	49.33	/
ATOM	32954	N6	ADE	670	220.305	103.169	-66.132	1.00	49.94	Al6S	ATOM	33007	O2P	GUU	673	212.762	109.400	-56.852	1.00	49.33	/
ATOM	32955	C5	ADE	670	221.220	103.819	-66.947	1.00	49.94	Al6S	ATOM	33008	O5	GUU	673	210.793	107.942	-56.989	1.00	45.23	/
ATOM	32956	N7	ADE	670	221.783	104.696	-66.149	1.00	49.94	Al6S	ATOM	33009	C5	GUU	673	209.848	107.140	-57.659	1.00	45.23	/
ATOM	32957	C8	ADE	670	222.874	105.129	-62.942	1.00	59.80	Al6S	ATOM	33010	C4	GUU	673	209.620	105.885	-56.863	1.00	45.23	/
ATOM	32958	C2	ADE	670	222.547	104.911	-61.592	1.00	59.80	Al6S	ATOM	33011	O4	GUU	673	210.840	105.107	-56.873	1.00	45.23	/
ATOM	32959	O2	ADE	670	223.797	106.319	-63.156	1.00	59.80	Al6S	ATOM	33012	C1	GUU	673	211.043	104.514	-55.605	1.00	45.23	/
ATOM	32960	C3	ADE	670	224.573	106.671	-62.009	1.00	59.80	Al6S	ATOM	33013	N9	GUU	673	212.295	105.033	-55.070	1.00	49.33	/
ATOM	32961	O3	ADE	670	223.862	107.074	-60.611	1.00	58.04	Al6S	ATOM	33014	C4	GUU	673	213.082	104.437	-54.121	1.00	49.33	/
ATOM	32962	P	GUU	671	224.657	108.230	-60.122	1.00	45.03	Al6S	ATOM	33015	N3	GUU	673	212.826	103.270	-53.504	1.00	49.33	/
ATOM	32963	O1P	GUU	671	223.623	105.908	-59.725	1.00	45.03	Al6S	ATOM	33016	C2	GUU	673	213.792	102.930	-52.680	1.00	49.33	/
ATOM	32964	O2P	GUU	671	222.447	107.681	-60.975	1.00	58.04	Al6S	ATOM	33017	N2	GUU	673	213.729	101.769	-52.012	1.00	49.33	/
ATOM	32965	O5	GUU	671	221.441	107.814	-59.978	1.00	58.04	Al6S	ATOM	33018	N1	GUU	673	214.899	103.691	-52.457	1.00	49.33	/
ATOM	32966	C5	GUU	671	220.124	107.432	-60.576	1.00	58.04	Al6S	ATOM	33019	C6	GUU	673	215.176	104.901	-53.077	1.00	49.33	/
ATOM	32967	C4	GUU	671	220.219	106.053	-60.991	1.00	58.04	Al6S	ATOM	33020	O6	GUU	673	216.214	105.507	-52.805	1.00	49.33	/
ATOM	32968	O4	GUU	671	218.946	105.461	-60.935	1.00	58.04	Al6S	ATOM	33021	C5	GUU	673	214.170	105.265	-53.975	1.00	49.33	/
ATOM	32969	C1	GUU	671	219.009	104.384	-59.960	1.00	45.03	Al6S	ATOM	33022	N7	GUU	673	214.066	106.374	-54.802	1.00	49.33	/
ATOM	32970	N9	GUU	671	218.100	103.373	-59.820	1.00	45.03	Al6S	ATOM	33023	C8	GUU	673	212.934	106.198	-55.429	1.00	49.33	/
ATOM	32971	C4	GUU	671	216.986	103.208	-60.561	1.00	45.03	Al6S	ATOM	33024	C2	GUU	673	209.812	104.823	-54.753	1.00	45.23	/
ATOM	32972	N3	GUU	671	216.319	102.123	-60.216	1.00	45.03	Al6S	ATOM	33025	O2	GUU	673	208.863	103.784	-54.898	1.00	45.23	/
ATOM	32973	C2	GUU	671	215.207	101.279	-59.202	1.00	45.03	Al6S	ATOM	33026	C3	GUU	673	207.954	106.332	-55.186	1.00	45.23	/
ATOM	32974	N2	GUU	671	216.701	101.794	-60.885	1.00	45.03	Al6S	ATOM	33027	O3	GUU	673	207.460	107.523	-54.237	1.00	52.08	/
ATOM	32975	C6	GUU	671	217.840	101.436	-58.422	1.00	45.03	Al6S	ATOM	33028	P	GUU	674	205.989	107.565	-54.434	1.00	40.04	/
ATOM	32976	C6	GUU	671	218.091	100.619	-57.532	1.00	45.03	Al6S	ATOM	33029	O1P	GUU	674	208.256	108.745	-54.498	1.00	40.04	/
ATOM	32977	O6	GUU	671	218.577	102.587	-58.798	1.00	45.03	Al6S	ATOM	33030	O2P	GUU	674	207.767	106.965	-52.778	1.00	52.08	/
ATOM	32978	C5	GUU	671	219.761	103.101	-58.298	1.00	45.03	Al6S	ATOM	33031	O5	GUU	674	207.021	105.862	-52.282	1.00	52.08	/
ATOM	32979	N7	GUU	671	219.978	104.169	-59.017	1.00	45.03	Al6S	ATOM	33032	C5	GUU	674	207.728	105.224	-51.124	1.00	52.08	/
ATOM	32980	C8	GUU	671	217.978	106.571	-60.538	1.00	58.04	Al6S	ATOM	33033	C4	GUU	674	208.989	104.666	-51.573	1.00	52.08	/
ATOM	32981	C2	GUU	671	217.609	107.291	-61.699	1.00	58.04	Al6S	ATOM	33034	O4	GUU	674	209.946	104.756	-50.528	1.00	52.08	/
ATOM	32982	O2	GUU	671	218.890	107.442	-59.703	1.00	58.04	Al6S	ATOM	33035	C1	GUU	674	211.022	105.636	-50.962	1.00	40.04	/
ATOM	32983	C3	GUU	671	218.338	108.743	-59.591	1.00	58.04	Al6S	ATOM	33036	N9	GUU	674	212.326	105.582	-50.557	1.00	40.04	/
ATOM	32984	O3	GUU	671						Al6S	ATOM	33037	C4	GUU	674						/

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ATOM	33038	N3	GUA	674	212.861	104.655	-49.742	1.00	40.04	Al6S	ATOM	33091	O2' GUA	676	212.878	111.580	-39.717	1.00	66.54	Al6S
ATOM	33039	C2	GUA	674	214.134	104.887	-49.517	1.00	40.04	Al6S	ATOM	33092	C3' GUA	676	211.204	110.854	-41.325	1.00	66.54	Al6S
ATOM	33040	N2	GUA	674	214.838	104.043	-48.757	1.00	40.04	Al6S	ATOM	33093	O3' GUA	676	211.709	111.905	-42.131	1.00	66.54	Al6S
ATOM	33041	N1	GUA	674	214.814	105.959	-50.030	1.00	40.04	Al6S	ATOM	33094	P ADE	677	212.630	111.553	-43.391	1.00	55.84	Al6S
ATOM	33042	C6	GUA	674	214.268	106.921	-50.869	1.00	40.04	Al6S	ATOM	33095	O1P ADE	677	212.884	112.821	-44.135	1.00	45.73	Al6S
ATOM	33043	O6	GUA	674	214.959	107.848	-51.278	1.00	40.04	Al6S	ATOM	33096	O2P ADE	677	212.030	110.388	-44.100	1.00	45.73	Al6S
ATOM	33044	C5	GUA	674	212.931	106.671	-51.134	1.00	40.04	Al6S	ATOM	33097	O5' ADE	677	213.977	111.060	-42.711	1.00	55.84	Al6S
ATOM	33045	N7	GUA	674	212.037	107.371	-51.923	1.00	40.04	Al6S	ATOM	33098	C5' ADE	677	214.695	110.007	-43.297	1.00	55.84	Al6S
ATOM	33046	C8	GUA	674	210.920	106.711	-49.318	1.00	40.04	Al6S	ATOM	33099	C4' ADE	677	215.615	109.364	-42.305	1.00	55.84	Al6S
ATOM	33047	C2' GUA	674	209.227	105.358	-49.318	1.00	52.08	Al6S	ATOM	33100	O4' ADE	677	214.896	108.865	-41.154	1.00	55.84	Al6S	
ATOM	33048	O2' GUA	674	208.757	104.308	-48.496	1.00	52.08	Al6S	ATOM	33101	C1' ADE	677	215.303	107.539	-40.872	1.00	55.84	Al6S	
ATOM	33049	C3' GUA	674	208.121	106.156	-49.998	1.00	52.08	Al6S	ATOM	33102	N9 ADE	677	214.180	106.664	-41.190	1.00	45.73	Al6S	
ATOM	33050	O3' GUA	674	207.007	106.356	-49.150	1.00	52.08	Al6S	ATOM	33103	C4 ADE	677	214.075	105.318	-40.960	1.00	45.73	Al6S	
ATOM	33051	P URI	675	206.662	107.830	-48.621	1.00	48.54	Al6S	ATOM	33104	N3 ADE	677	214.997	104.515	-40.419	1.00	45.73	Al6S	
ATOM	33052	O1P URI	675	205.194	107.842	-48.387	1.00	67.61	Al6S	ATOM	33105	C2 ADE	677	213.328	102.800	-40.649	1.00	45.73	Al6S	
ATOM	33053	O2P URI	675	207.275	108.841	-49.518	1.00	67.61	Al6S	ATOM	33106	N1 ADE	677	212.429	103.638	-41.198	1.00	45.73	Al6S	
ATOM	33054	O5' URI	675	207.388	107.868	-47.215	1.00	48.54	Al6S	ATOM	33107	C6 ADE	677	211.231	103.161	-41.535	1.00	45.73	Al6S	
ATOM	33055	C5' URI	675	207.086	106.865	-46.272	1.00	48.54	Al6S	ATOM	33108	N6 ADE	677	212.808	104.963	-41.373	1.00	45.73	Al6S	
ATOM	33056	C4' URI	675	208.176	106.749	-45.257	1.00	48.54	Al6S	ATOM	33109	C5 ADE	677	212.135	106.055	-41.888	1.00	45.73	Al6S	
ATOM	33057	O4' URI	675	209.393	106.285	-45.875	1.00	48.54	Al6S	ATOM	33110	N7 ADE	677	212.991	107.037	-41.763	1.00	45.73	Al6S	
ATOM	33058	C1' URI	675	210.492	106.755	-45.128	1.00	48.54	Al6S	ATOM	33111	C8 ADE	677	216.537	107.283	-41.723	1.00	55.84	Al6S	
ATOM	33059	N1 URI	675	211.403	107.444	-46.044	1.00	67.61	Al6S	ATOM	33112	C2' ADE	677	217.629	107.764	-42.930	1.00	55.84	Al6S	
ATOM	33060	C6 URI	675	210.978	107.950	-47.249	1.00	67.61	Al6S	ATOM	33113	O2' ADE	677	216.228	108.145	-42.930	1.00	55.84	Al6S	
ATOM	33061	C2 URI	675	212.712	107.550	-45.651	1.00	67.61	Al6S	ATOM	33114	O3' ADE	677	217.342	108.630	-43.633	1.00	55.84	Al6S	
ATOM	33062	O2 URI	675	213.112	107.132	-44.585	1.00	67.61	Al6S	ATOM	33115	O3' ADE	677	217.460	108.366	-45.210	1.00	47.56	Al6S	
ATOM	33063	N3 URI	675	213.539	108.162	-46.550	1.00	67.61	Al6S	ATOM	33116	P ADE	678	218.524	109.290	-45.696	1.00	41.21	Al6S	
ATOM	33064	C4 URI	675	213.195	108.669	-47.773	1.00	67.61	Al6S	ATOM	33117	O1P ADE	678	216.120	108.424	-45.847	1.00	41.21	Al6S	
ATOM	33065	O4 URI	675	214.078	109.110	-48.495	1.00	67.61	Al6S	ATOM	33118	O2P ADE	678	217.985	106.860	-45.821	1.00	47.56	Al6S	
ATOM	33066	C5 URI	675	211.810	108.544	-48.109	1.00	67.61	Al6S	ATOM	33119	O5' ADE	678	217.225	105.815	-45.800	1.00	47.56	Al6S	
ATOM	33067	C2' URI	675	209.936	107.639	-44.011	1.00	48.54	Al6S	ATOM	33120	C5' ADE	678	217.372	104.550	-44.990	1.00	47.56	Al6S	
ATOM	33068	O2' URI	675	209.764	106.823	-42.867	1.00	48.54	Al6S	ATOM	33121	C4' ADE	678	216.339	104.513	-43.974	1.00	47.56	Al6S	
ATOM	33069	C3' URI	675	208.588	108.036	-44.592	1.00	48.54	Al6S	ATOM	33122	O4' ADE	678	215.735	103.228	-43.945	1.00	47.56	Al6S	
ATOM	33070	O3' URI	675	207.645	108.293	-43.575	1.00	48.54	Al6S	ATOM	33123	C1' ADE	678	214.360	103.354	-44.438	1.00	41.21	Al6S	
ATOM	33071	P GUA	676	207.401	109.793	-43.071	1.00	66.54	Al6S	ATOM	33124	N9 ADE	678	213.380	102.401	-44.333	1.00	41.21	Al6S	
ATOM	33072	O1P GUA	676	206.109	109.722	-42.336	1.00	40.24	Al6S	ATOM	33125	C4 ADE	678	212.332	100.532	-43.854	1.00	41.21	Al6S	
ATOM	33073	O2P GUA	676	207.527	110.720	-44.224	1.00	40.24	Al6S	ATOM	33126	N3 ADE	678	212.482	101.191	-43.755	1.00	41.21	Al6S	
ATOM	33074	O5' GUA	676	208.599	110.053	-42.042	1.00	66.54	Al6S	ATOM	33127	C2 ADE	678	211.184	100.917	-44.425	1.00	41.21	Al6S	
ATOM	33075	C5' GUA	676	208.695	111.283	-41.324	1.00	66.54	Al6S	ATOM	33128	N1 ADE	678	211.123	102.138	-44.997	1.00	41.21	Al6S	
ATOM	33076	C4' GUA	676	209.999	111.351	-40.559	1.00	66.54	Al6S	ATOM	33129	C6 ADE	678	209.985	102.515	-45.574	1.00	41.21	Al6S	
ATOM	33077	O4' GUA	676	209.954	110.527	-39.371	1.00	66.54	Al6S	ATOM	33130	N5 ADE	678	212.265	102.935	-44.953	1.00	41.21	Al6S	
ATOM	33078	C1' GUA	676	211.224	109.949	-39.139	1.00	66.54	Al6S	ATOM	33131	C6 ADE	678	212.526	104.211	-45.425	1.00	41.21	Al6S	
ATOM	33079	N9 GUA	676	211.047	108.502	-39.110	1.00	40.24	Al6S	ATOM	33132	N7 ADE	678	213.780	104.413	-45.099	1.00	41.21	Al6S	
ATOM	33080	C4 GUA	676	211.919	107.565	-38.600	1.00	40.24	Al6S	ATOM	33133	C8 ADE	678	216.592	102.305	-44.810	1.00	47.56	Al6S	
ATOM	33081	N3 GUA	676	213.134	107.814	-38.075	1.00	40.24	Al6S	ATOM	33134	O2' ADE	678	217.596	101.704	-44.033	1.00	47.56	Al6S	
ATOM	33082	C2 GUA	676	213.721	106.707	-37.651	1.00	40.24	Al6S	ATOM	33135	C2' ADE	678	217.174	103.285	-45.813	1.00	47.56	Al6S	
ATOM	33083	N2 GUA	676	214.942	106.761	-37.098	1.00	40.24	Al6S	ATOM	33136	C3' ADE	678	218.439	102.841	-46.293	1.00	47.56	Al6S	
ATOM	33084	N1 GUA	676	213.164	105.462	-37.736	1.00	40.24	Al6S	ATOM	33137	O3' ADE	679	218.562	102.226	-47.772	1.00	46.50	Al6S	
ATOM	33085	C6 GUA	676	211.923	105.179	-38.289	1.00	40.24	Al6S	ATOM	33138	P ADE	679	219.997	101.943	-47.994	1.00	47.16	Al6S	
ATOM	33086	O6 GUA	676	211.526	104.000	-38.348	1.00	40.24	Al6S	ATOM	33139	O1P ADE	679	217.830	103.108	-48.731	1.00	47.16	Al6S	
ATOM	33087	C5 GUA	676	211.276	106.355	-38.739	1.00	40.24	Al6S	ATOM	33140	O2P ADE	679	217.832	100.815	-47.652	1.00	46.50	Al6S	
ATOM	33088	N7 GUA	676	210.039	106.522	-39.341	1.00	40.24	Al6S	ATOM	33141	O5' ADE	679	217.364	98.729	-46.847	1.00	46.50	Al6S	
ATOM	33089	C8 GUA	676	209.951	107.806	-39.555	1.00	40.24	Al6S	ATOM	33142	C5' ADE	679	217.364	98.729	-46.847	1.00	46.50	Al6S	
ATOM	33090	C2' GUA	676	212.175	110.467	-40.216	1.00	66.54	Al6S	ATOM	33143	C4' ADE	679	217.364	98.729	-46.847	1.00	46.50	Al6S	

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ATOM	33144	O4' ADE	679	216.239	99.348	-45.890	1.00	46.50	Al6S	ATOM	33197	N7 GUA	681	214.552	97.636	-53.547	1.00	40.47	A
ATOM	33145	C1' ADE	679	215.034	98.737	-46.316	1.00	46.50	Al6S	ATOM	33198	C8 GUA	681	213.577	96.771	-53.511	1.00	40.47	A
ATOM	33146	N9 ADE	679	214.253	99.765	-46.990	1.00	47.16	Al6S	ATOM	33199	C2' GUA	681	211.051	95.762	-55.757	1.00	54.74	A
ATOM	33147	C4 ADE	679	212.897	99.784	-47.200	1.00	47.16	Al6S	ATOM	33200	O2' GUA	681	209.674	95.683	-56.061	1.00	54.74	A
ATOM	33148	N3 ADE	679	212.001	98.857	-46.831	1.00	47.16	Al6S	ATOM	33201	C3' GUA	681	211.652	93.419	-56.397	1.00	54.74	A
ATOM	33149	C2 ADE	679	210.782	99.216	-47.200	1.00	47.16	Al6S	ATOM	33202	O3' GUA	681	211.155	93.419	-56.397	1.00	54.74	A
ATOM	33150	N1 ADE	679	210.383	100.311	-47.838	1.00	47.16	Al6S	ATOM	33203	P	682	212.061	92.966	-57.637	1.00	45.01	A
ATOM	33151	C6 ADE	679	211.310	101.230	-48.188	1.00	47.16	Al6S	ATOM	33204	O1P GUA	682	211.360	91.831	-58.315	1.00	39.45	A
ATOM	33152	N6 ADE	679	210.915	102.342	-48.818	1.00	47.16	Al6S	ATOM	33205	O2P GUA	682	213.432	92.770	-57.101	1.00	39.45	A
ATOM	33153	C5 ADE	679	212.638	100.965	-47.865	1.00	47.16	Al6S	ATOM	33206	O5' GUA	682	212.056	94.250	-58.589	1.00	45.01	A
ATOM	33154	N7 ADE	679	213.807	101.679	-48.077	1.00	47.16	Al6S	ATOM	33207	C4' GUA	682	211.034	95.937	-59.974	1.00	45.01	A
ATOM	33155	C8 ADE	679	214.734	100.927	-47.537	1.00	47.16	Al6S	ATOM	33208	C5' GUA	682	211.986	98.014	-59.436	1.00	45.01	A
ATOM	33156	C2' ADE	679	215.425	97.566	-47.218	1.00	46.50	Al6S	ATOM	33209	O4' GUA	682	213.256	98.071	-58.712	1.00	39.45	A
ATOM	33157	O2' ADE	679	215.632	96.406	-46.442	1.00	46.50	Al6S	ATOM	33210	C1' GUA	682	213.660	97.059	-57.882	1.00	39.45	A
ATOM	33158	C3' ADE	679	216.748	98.060	-47.769	1.00	46.50	Al6S	ATOM	33211	N1 GUA	682	214.061	99.178	-58.913	1.00	39.45	A
ATOM	33159	O3' ADE	679	217.545	96.965	-48.163	1.00	46.50	Al6S	ATOM	33212	C6 GUA	682	213.650	100.063	-59.670	1.00	39.45	A
ATOM	33160	P	680	217.581	96.528	-49.702	1.00	55.03	Al6S	ATOM	33213	C2' GUA	682	215.266	99.252	-58.293	1.00	39.45	A
ATOM	33161	O1P GUA	680	218.728	97.744	-50.557	1.00	42.84	Al6S	ATOM	33214	O2' GUA	682	216.879	98.325	-56.958	1.00	39.45	A
ATOM	33162	O2P GUA	680	217.538	97.744	-50.557	1.00	42.84	Al6S	ATOM	33215	N3 GUA	682	214.852	97.100	-57.274	1.00	39.45	A
ATOM	33163	O5' GUA	680	216.240	95.702	-49.927	1.00	55.03	Al6S	ATOM	33216	N4 GUA	682	212.273	97.698	-60.894	1.00	45.01	A
ATOM	33164	C5' GUA	680	216.015	94.500	-49.221	1.00	55.03	Al6S	ATOM	33217	C5' GUA	682	212.264	96.180	-60.843	1.00	45.01	A
ATOM	33165	O4' GUA	680	214.542	94.198	-49.155	1.00	55.03	Al6S	ATOM	33218	C2' GUA	682	212.242	96.180	-60.843	1.00	45.01	A
ATOM	33166	O4' GUA	680	213.831	95.324	-48.569	1.00	55.03	Al6S	ATOM	33219	C2' GUA	682	212.094	95.589	-62.106	1.00	45.01	A
ATOM	33167	C1' GUA	680	212.487	95.314	-49.034	1.00	55.03	Al6S	ATOM	33220	O2' GUA	682	213.345	94.844	-62.761	1.00	50.96	A
ATOM	33168	N1 GUA	680	212.195	96.601	-49.675	1.00	42.84	Al6S	ATOM	33221	O3' GUA	682	212.853	94.200	-64.013	1.00	46.52	A
ATOM	33169	C6 GUA	680	213.192	97.432	-50.099	1.00	42.84	Al6S	ATOM	33222	O3' GUA	682	213.986	94.006	-61.709	1.00	46.52	A
ATOM	33170	C2' GUA	680	210.862	96.948	-49.826	1.00	42.84	Al6S	ATOM	33223	P	683	214.293	96.051	-63.175	1.00	50.96	A
ATOM	33171	O2' GUA	680	209.952	96.227	-49.457	1.00	42.84	Al6S	ATOM	33224	O1P GUA	683	213.887	96.889	-64.235	1.00	50.96	A
ATOM	33172	N3 GUA	680	210.641	98.166	-50.421	1.00	42.84	Al6S	ATOM	33225	O2P GUA	683	214.913	98.810	-63.233	1.00	50.96	A
ATOM	33173	C4 GUA	680	211.600	99.048	-50.864	1.00	42.84	Al6S	ATOM	33226	O5' GUA	683	216.831	98.881	-61.941	1.00	50.96	A
ATOM	33174	O4' GUA	680	211.256	100.073	-51.427	1.00	42.84	Al6S	ATOM	33227	C5' GUA	683	218.656	99.369	-61.381	1.00	46.52	A
ATOM	33175	C5 GUA	680	212.947	98.619	-50.668	1.00	42.84	Al6S	ATOM	33228	O4' GUA	683	219.739	100.647	-61.104	1.00	46.52	A
ATOM	33176	C2' GUA	680	212.375	94.157	-50.020	1.00	55.03	Al6S	ATOM	33229	C4' GUA	683	220.538	101.692	-61.388	1.00	46.52	A
ATOM	33177	O2' GUA	680	211.942	92.995	-49.331	1.00	55.03	Al6S	ATOM	33230	C1' GUA	683	219.824	98.744	-59.605	1.00	46.52	A
ATOM	33178	C3' GUA	680	213.816	94.036	-50.471	1.00	55.03	Al6S	ATOM	33231	N9 GUA	683	218.262	98.523	-60.342	1.00	46.52	A
ATOM	33179	O3' GUA	680	214.039	92.768	-51.039	1.00	55.03	Al6S	ATOM	33232	C4' GUA	683	217.295	97.535	-60.222	1.00	46.52	A
ATOM	33180	P	681	214.502	92.677	-52.569	1.00	54.74	Al6S	ATOM	33233	N3 GUA	683	216.977	98.954	-64.360	1.00	50.96	A
ATOM	33181	O1P GUA	681	214.465	91.241	-52.970	1.00	40.47	Al6S	ATOM	33234	C2' GUA	683	216.796	99.909	-65.391	1.00	50.96	A
ATOM	33182	O2P GUA	681	215.776	93.442	-52.661	1.00	40.47	Al6S	ATOM	33235	N2 GUA	683	216.299	97.622	-64.639	1.00	50.96	A
ATOM	33183	O5' GUA	681	213.391	93.490	-53.380	1.00	54.74	Al6S	ATOM	33236	N1 GUA	683	216.507	97.145	-65.953	1.00	50.96	A
ATOM	33184	C5' GUA	681	212.026	93.093	-53.355	1.00	54.74	Al6S	ATOM	33237	C6 GUA	683	217.288	95.762	-66.166	1.00	55.65	A
ATOM	33185	C4' GUA	681	211.182	94.098	-54.096	1.00	54.74	Al6S	ATOM	33238	O6 GUA	683	216.309	94.749	-66.618	1.00	75.82	A
ATOM	33186	O4' GUA	681	211.254	95.385	-53.433	1.00	54.74	Al6S	ATOM	33239	C5 GUA	683	218.074	95.517	-64.936	1.00	75.82	A
ATOM	33187	C1' GUA	681	211.239	96.424	-54.395	1.00	54.74	Al6S	ATOM	33240	N7 GUA	684	218.295	96.081	-67.362	1.00	55.65	A
ATOM	33188	N9 GUA	681	212.494	97.150	-54.266	1.00	40.47	Al6S	ATOM	33241	C8 GUA	684						
ATOM	33189	C4 GUA	681	212.827	98.346	-54.846	1.00	40.47	Al6S	ATOM	33242	C2' GUA	684						
ATOM	33190	N3 GUA	681	212.055	99.066	-55.675	1.00	40.47	Al6S	ATOM	33243	O2' GUA	684						
ATOM	33191	C2 GUA	681	212.649	100.191	-56.042	1.00	40.47	Al6S	ATOM	33244	O3' GUA	684						
ATOM	33192	N2 GUA	681	212.036	101.039	-56.867	1.00	40.47	Al6S	ATOM	33245	C3' GUA	684						
ATOM	33193	N1 GUA	681	213.890	100.570	-55.628	1.00	40.47	Al6S	ATOM	33246	P	684						
ATOM	33194	C6 GUA	681	214.701	99.837	-54.772	1.00	40.47	Al6S	ATOM	33247	O1P GUA	684						
ATOM	33195	O6 GUA	681	215.819	100.274	-54.448	1.00	40.47	Al6S	ATOM	33248	O2P GUA	684						
ATOM	33196	C5 GUA	681	214.088	98.638	-54.378	1.00	40.47	Al6S	ATOM	33249	O5' GUA	684						

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ATOM	33250	C5' CYT	684	218.964	97.338	-67.441	1.00	55.65	Al6S	ATOM	33303	O6 GUA	686	223.621	98.770	-72.055	1.00	77.41	Al
ATOM	33251	C4' CYT	684	220.315	97.184	-68.097	1.00	55.65	Al6S	ATOM	33304	C5 GUA	686	221.393	99.177	-71.250	1.00	77.41	Al
ATOM	33252	O4' CYT	684	220.973	98.460	-68.057	1.00	55.65	Al6S	ATOM	33305	N7 GUA	686	220.622	98.087	-71.630	1.00	77.41	Al
ATOM	33253	C1' CYT	684	222.368	98.276	-67.936	1.00	55.65	Al6S	ATOM	33306	C8 GUA	686	219.434	98.354	-71.156	1.00	77.41	Al
ATOM	33254	N1 CYT	684	222.944	99.378	-67.217	1.00	75.82	Al6S	ATOM	33307	C2' GUA	686	217.580	101.302	-70.475	1.00	68.55	Al
ATOM	33255	C6 CYT	684	222.406	99.751	-66.019	1.00	75.82	Al6S	ATOM	33308	O2' GUA	686	217.530	102.399	-69.581	1.00	68.55	Al
ATOM	33256	C2 CYT	684	224.047	100.063	-67.740	1.00	75.82	Al6S	ATOM	33309	C3' GUA	686	216.186	100.761	-70.761	1.00	68.55	Al
ATOM	33257	O2 CYT	684	224.533	99.686	-68.817	1.00	75.82	Al6S	ATOM	33310	O3' GUA	686	215.394	101.939	-70.556	1.00	68.55	Al
ATOM	33258	N3 CYT	684	224.552	101.117	-67.062	1.00	75.82	Al6S	ATOM	33311	P ADE	687	213.798	101.861	-70.391	1.00	54.00	Al
ATOM	33259	C4 CYT	684	224.005	101.485	-65.904	1.00	75.82	Al6S	ATOM	33312	O1P ADE	687	213.294	100.646	-71.077	1.00	57.65	Al
ATOM	33260	N4 CYT	684	224.526	102.537	-65.279	1.00	75.82	Al6S	ATOM	33313	O2P ADE	687	213.286	103.203	-70.784	1.00	57.65	Al
ATOM	33261	C5 CYT	684	222.898	100.791	-65.337	1.00	75.82	Al6S	ATOM	33314	O5' ADE	687	213.558	101.682	-68.828	1.00	54.00	Al
ATOM	33262	C2' CYT	684	222.666	96.843	-67.544	1.00	55.65	Al6S	ATOM	33315	C5' ADE	687	212.695	100.659	-68.338	1.00	54.00	Al
ATOM	33263	O2' CYT	684	223.564	96.207	-68.430	1.00	55.65	Al6S	ATOM	33316	C4' ADE	687	212.640	100.696	-66.831	1.00	54.00	Al
ATOM	33264	C3' CYT	684	221.264	96.231	-67.395	1.00	55.65	Al6S	ATOM	33317	O4' ADE	687	213.998	100.617	-66.320	1.00	54.00	Al
ATOM	33265	O3' CYT	684	221.062	94.894	-67.897	1.00	55.65	Al6S	ATOM	33318	C1' ADE	687	214.129	101.446	-65.181	1.00	54.00	Al
ATOM	33266	P ADE	685	221.619	94.453	-69.355	1.00	74.82	Al6S	ATOM	33319	N9 ADE	687	215.031	102.543	-65.513	1.00	57.65	Al
ATOM	33267	O1P ADE	685	222.604	93.361	-69.146	1.00	81.46	Al6S	ATOM	33320	C4 ADE	687	215.441	103.494	-64.619	1.00	57.65	Al
ATOM	33268	O2P ADE	685	221.987	95.640	-70.171	1.00	81.46	Al6S	ATOM	33321	N3 ADE	687	215.100	103.581	-63.324	1.00	57.65	Al
ATOM	33269	O5' ADE	685	220.369	93.794	-70.079	1.00	74.82	Al6S	ATOM	33322	C2 ADE	687	216.525	105.513	-63.292	1.00	57.65	Al
ATOM	33270	C5' ADE	685	220.047	94.136	-71.426	1.00	74.82	Al6S	ATOM	33323	N1 ADE	687	216.852	105.397	-64.595	1.00	57.65	Al
ATOM	33271	C4' ADE	685	218.633	93.712	-71.745	1.00	74.82	Al6S	ATOM	33324	C6 ADE	687	217.694	106.288	-65.114	1.00	57.65	Al
ATOM	33272	O4' ADE	685	218.526	92.287	-71.620	1.00	74.82	Al6S	ATOM	33325	C5 ADE	687	216.281	104.337	-65.318	1.00	57.65	Al
ATOM	33273	C1' ADE	685	217.220	91.950	-71.252	1.00	74.82	Al6S	ATOM	33326	C6 ADE	687	216.390	103.931	-66.642	1.00	57.65	Al
ATOM	33274	N9 ADE	685	217.288	90.788	-70.380	1.00	81.46	Al6S	ATOM	33327	N7 ADE	687	215.633	102.861	-66.704	1.00	57.65	Al
ATOM	33275	C4 ADE	685	216.541	89.648	-70.527	1.00	81.46	Al6S	ATOM	33328	C8 ADE	687	212.730	101.954	-63.844	1.00	54.00	Al
ATOM	33276	N3 ADE	685	215.581	89.419	-71.438	1.00	81.46	Al6S	ATOM	33329	O2' ADE	687	212.105	101.034	-63.973	1.00	54.00	Al
ATOM	33277	C2 ADE	685	215.089	88.191	-71.298	1.00	81.46	Al6S	ATOM	33330	C2' ADE	687	212.101	101.981	-66.227	1.00	54.00	Al
ATOM	33278	N1 ADE	685	215.431	87.237	-70.427	1.00	81.46	Al6S	ATOM	33331	C3' ADE	687	210.686	101.958	-66.162	1.00	54.00	Al
ATOM	33279	C6 ADE	685	216.410	87.500	-69.533	1.00	81.46	Al6S	ATOM	33332	O3' ADE	687	209.848	103.222	-66.693	1.00	55.84	Al
ATOM	33280	N6 ADE	685	216.769	86.541	-68.675	1.00	81.46	Al6S	ATOM	33333	P URI	688	208.411	102.904	-66.474	1.00	70.03	Al
ATOM	33281	C5 ADE	685	216.999	88.771	-69.566	1.00	81.46	Al6S	ATOM	33334	O1P URI	688	210.328	103.577	-68.056	1.00	70.03	Al
ATOM	33282	N7 ADE	685	217.996	89.358	-68.804	1.00	81.46	Al6S	ATOM	33335	O2P URI	688	210.251	104.402	-65.703	1.00	55.84	Al
ATOM	33283	C8 ADE	685	218.118	90.557	-69.319	1.00	81.46	Al6S	ATOM	33336	O5' URI	688	209.911	104.341	-64.327	1.00	55.84	Al
ATOM	33284	C2' ADE	685	216.468	93.209	-70.806	1.00	74.82	Al6S	ATOM	33337	C5' URI	688	210.582	105.458	-63.566	1.00	55.84	Al
ATOM	33285	O2' ADE	685	215.411	93.424	-71.720	1.00	74.82	Al6S	ATOM	33338	C4' URI	688	212.021	105.300	-63.628	1.00	55.84	Al
ATOM	33286	C3' ADE	685	217.555	94.294	-70.847	1.00	74.82	Al6S	ATOM	33339	O4' URI	688	212.637	106.574	-63.594	1.00	55.84	Al
ATOM	33287	O3' ADE	685	217.186	95.508	-71.515	1.00	74.82	Al6S	ATOM	33340	C1' URI	688	213.446	106.718	-64.807	1.00	70.03	Al
ATOM	33288	P GUA	686	215.765	96.204	-71.253	1.00	68.55	Al6S	ATOM	33341	N1 URI	688	213.271	105.892	-65.890	1.00	70.03	Al
ATOM	33289	O1P GUA	686	214.871	95.273	-70.517	1.00	77.41	Al6S	ATOM	33342	C2 URI	688	214.374	107.727	-64.825	1.00	70.03	Al
ATOM	33290	O2P GUA	686	215.322	96.766	-72.550	1.00	77.41	Al6S	ATOM	33343	C2 URI	688	214.579	108.443	-63.864	1.00	70.03	Al
ATOM	33291	O5' GUA	686	216.115	97.417	-70.282	1.00	68.55	Al6S	ATOM	33344	O2 URI	688	215.060	107.862	-66.006	1.00	70.03	Al
ATOM	33292	C5' GUA	686	215.209	98.502	-70.081	1.00	68.55	Al6S	ATOM	33345	N3 URI	688	214.919	107.089	-67.138	1.00	70.03	Al
ATOM	33293	C4' GUA	686	215.997	99.701	-69.677	1.00	68.55	Al6S	ATOM	33346	C4 URI	688	215.555	107.379	-68.149	1.00	70.03	Al
ATOM	33294	O4' GUA	686	217.314	99.165	-69.446	1.00	68.55	Al6S	ATOM	33347	O4 URI	688	213.960	106.036	-67.025	1.00	70.03	Al
ATOM	33295	C1' GUA	686	218.265	100.139	-69.767	1.00	68.55	Al6S	ATOM	33348	C5 URI	688	211.523	107.626	-63.510	1.00	55.84	Al
ATOM	33296	N9 GUA	686	219.385	99.542	-70.476	1.00	77.41	Al6S	ATOM	33349	C2' URI	688	211.324	108.028	-62.163	1.00	55.84	Al
ATOM	33297	C4 GUA	686	220.636	100.088	-70.552	1.00	77.41	Al6S	ATOM	33350	C3' URI	688	209.119	107.348	-63.513	1.00	55.84	Al
ATOM	33298	N3 GUA	686	221.010	101.268	-70.017	1.00	77.41	Al6S	ATOM	33351	O3' URI	688	208.137	108.275	-64.378	1.00	55.84	Al
ATOM	33299	C2 GUA	686	222.285	101.523	-70.222	1.00	77.41	Al6S	ATOM	33352	O3' URI	689	207.138	108.821	-63.430	1.00	54.89	Al
ATOM	33300	N2 GUA	686	222.815	102.662	-69.751	1.00	77.41	Al6S	ATOM	33353	P ADE	689	207.684	107.494	-65.556	1.00	54.89	Al
ATOM	33301	N1 GUA	686	223.135	100.681	-70.902	1.00	77.41	Al6S	ATOM	33354	O1P ADE	689						
ATOM	33302	C6 GUA	686	222.772	99.457	-71.464	1.00	77.41	Al6S	ATOM	33355	O2P ADE	689						

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ATOM	33356	O5' ADE	689	209.037	109.492	-64.871	1.00	55.38	Al6s	ATOM	33409	N4	CYT	691	207.210	107.324	-74.343	1.00	54.85	P
ATOM	33357	C5' ADE	689	209.317	110.591	-64.022	1.00	55.38	Al6s	ATOM	33410	C5	CYT	691	207.135	109.689	-74.086	1.00	54.85	P
ATOM	33358	C4' ADE	689	210.123	111.621	-64.773	1.00	55.38	Al6s	ATOM	33411	C2' CYT	691	205.878	112.516	-77.420	1.00	54.05	P	
ATOM	33359	O4' ADE	689	211.445	111.093	-65.080	1.00	55.38	Al6s	ATOM	33412	O2' CYT	691	206.101	113.184	-78.643	1.00	54.05	P	
ATOM	33360	C1' ADE	689	211.849	111.518	-66.380	1.00	55.38	Al6s	ATOM	33413	C3' CYT	691	205.190	113.379	-76.376	1.00	54.05	P	
ATOM	33361	N9 ADE	689	211.921	110.339	-67.246	1.00	54.89	Al6s	ATOM	33414	O3' CYT	691	204.147	114.140	-76.952	1.00	54.05	P	
ATOM	33362	C4 ADE	689	212.702	110.164	-68.362	1.00	54.89	Al6s	ATOM	33415	P	GUA	692	202.694	113.477	-77.093	1.00	69.97	P
ATOM	33363	N3 ADE	689	213.561	111.035	-68.902	1.00	54.89	Al6s	ATOM	33416	O1P GUA	692	201.793	114.493	-77.695	1.00	58.21	P	
ATOM	33364	C2 ADE	689	214.136	110.519	-69.980	1.00	54.89	Al6s	ATOM	33417	O2P GUA	692	202.372	112.909	-75.766	1.00	58.21	P	
ATOM	33365	N1 ADE	689	213.966	109.320	-70.538	1.00	54.89	Al6s	ATOM	33418	O5' GUA	692	202.907	112.274	-78.124	1.00	69.97	P	
ATOM	33366	C6 ADE	689	213.096	108.465	-69.970	1.00	54.89	Al6s	ATOM	33419	C5' GUA	692	203.182	112.538	-79.500	1.00	69.97	P	
ATOM	33367	N6 ADE	689	212.928	107.259	-70.521	1.00	54.89	Al6s	ATOM	33420	C4' GUA	692	203.167	111.261	-80.310	1.00	69.97	P	
ATOM	33368	C5 ADE	689	212.417	108.896	-68.824	1.00	54.89	Al6s	ATOM	33421	O4' GUA	692	204.309	110.427	-79.976	1.00	69.97	P	
ATOM	33369	N7 ADE	689	211.469	108.284	-68.022	1.00	54.89	Al6s	ATOM	33422	C1' GUA	692	203.971	109.059	-80.175	1.00	69.97	P	
ATOM	33370	C8 ADE	689	211.212	109.177	-67.103	1.00	54.89	Al6s	ATOM	33423	N9 GUA	692	204.077	108.367	-78.901	1.00	58.21	P	
ATOM	33371	C2' ADE	689	210.796	112.513	-66.853	1.00	55.38	Al6s	ATOM	33424	C4 GUA	692	204.167	107.014	-78.724	1.00	58.21	P	
ATOM	33372	O2' ADE	689	211.162	113.803	-66.419	1.00	55.38	Al6s	ATOM	33425	N3 GUA	692	204.221	106.089	-79.706	1.00	58.21	P	
ATOM	33373	C3' ADE	689	209.562	111.988	-66.134	1.00	55.38	Al6s	ATOM	33426	C2 GUA	692	204.284	104.854	-79.219	1.00	58.21	P	
ATOM	33374	O3' ADE	689	208.537	112.963	-66.040	1.00	55.38	Al6s	ATOM	33427	N2 GUA	692	204.354	103.811	-80.050	1.00	58.21	P	
ATOM	33375	P	690	207.299	112.885	-67.049	1.00	61.06	Al6s	ATOM	33428	N1 GUA	692	204.287	104.556	-77.874	1.00	58.21	P	
ATOM	33376	O1P	690	206.381	114.004	-66.721	1.00	53.52	Al6s	ATOM	33429	C6 GUA	692	204.234	105.496	-76.846	1.00	58.21	P	
ATOM	33377	O2P	690	206.808	111.484	-67.039	1.00	53.52	Al6s	ATOM	33430	O6 GUA	692	204.241	105.121	-75.665	1.00	58.21	P	
ATOM	33378	O5' CYT	690	207.949	113.160	-68.468	1.00	61.06	Al6s	ATOM	33431	C5 GUA	692	204.174	106.823	-77.355	1.00	58.21	P	
ATOM	33379	C5' CYT	690	208.503	114.424	-68.770	1.00	61.06	Al6s	ATOM	33432	N7 GUA	692	204.118	108.038	-76.690	1.00	58.21	P	
ATOM	33380	C4' CYT	690	208.893	114.468	-70.217	1.00	61.06	Al6s	ATOM	33433	C8 GUA	692	204.067	108.925	-77.646	1.00	58.21	P	
ATOM	33381	O4' CYT	690	210.017	113.583	-70.427	1.00	61.06	Al6s	ATOM	33434	C2' GUA	692	202.520	109.021	-80.651	1.00	69.97	P	
ATOM	33382	C1' CYT	690	209.982	113.101	-71.755	1.00	61.06	Al6s	ATOM	33435	O2' GUA	692	202.460	108.942	-82.059	1.00	69.97	P	
ATOM	33383	N1 CYT	690	209.971	111.648	-71.720	1.00	53.52	Al6s	ATOM	33436	C3' GUA	692	201.990	110.333	-80.089	1.00	69.97	P	
ATOM	33384	C6 CYT	690	209.898	110.961	-70.546	1.00	53.52	Al6s	ATOM	33437	O3' GUA	692	200.836	110.757	-80.784	1.00	69.97	P	
ATOM	33385	C2 CYT	690	210.028	110.979	-72.927	1.00	53.52	Al6s	ATOM	33438	P	GUA	693	199.395	110.254	-80.293	1.00	73.87	P
ATOM	33386	O2 CYT	690	210.072	111.648	-73.973	1.00	53.52	Al6s	ATOM	33439	O1P GUA	693	198.412	110.911	-81.188	1.00	66.50	P	
ATOM	33387	N3 CYT	690	210.019	109.635	-72.939	1.00	53.52	Al6s	ATOM	33440	O2P GUA	693	199.287	110.444	-78.829	1.00	66.50	P	
ATOM	33388	C4 CYT	690	209.939	108.966	-71.795	1.00	53.52	Al6s	ATOM	33441	O5' GUA	693	199.408	108.683	-80.557	1.00	73.87	P	
ATOM	33389	N4 CYT	690	209.918	107.640	-71.859	1.00	53.52	Al6s	ATOM	33442	C5' GUA	693	199.409	108.177	-81.879	1.00	73.87	P	
ATOM	33390	C5 CYT	690	209.875	109.629	-70.537	1.00	53.52	Al6s	ATOM	33443	C4' GUA	693	199.565	106.676	-81.873	1.00	73.87	P	
ATOM	33391	C2' CYT	690	208.703	113.621	-72.410	1.00	61.06	Al6s	ATOM	33444	O4' GUA	693	200.802	106.323	-81.201	1.00	73.87	P	
ATOM	33392	O2' CYT	690	208.986	114.763	-73.188	1.00	61.06	Al6s	ATOM	33445	C1' GUA	693	200.877	105.136	-79.183	1.00	66.50	P	
ATOM	33393	C3' CYT	690	207.852	113.929	-71.189	1.00	61.06	Al6s	ATOM	33446	N9 GUA	693	200.953	104.090	-78.309	1.00	66.50	P	
ATOM	33394	O3' CYT	690	206.849	114.889	-71.494	1.00	61.06	Al6s	ATOM	33447	C4 GUA	693	200.879	102.789	-78.638	1.00	66.50	P	
ATOM	33395	P	691	205.427	114.400	-72.055	1.00	54.05	Al6s	ATOM	33448	N3 GUA	693	200.971	102.008	-77.577	1.00	66.50	P	
ATOM	33396	O1P	691	204.582	115.621	-72.048	1.00	54.85	Al6s	ATOM	33449	C2 GUA	693	200.917	102.680	-77.728	1.00	66.50	P	
ATOM	33397	O2P	691	204.986	113.190	-71.323	1.00	54.85	Al6s	ATOM	33450	N2 GUA	693	200.917	100.680	-77.728	1.00	66.50	P	
ATOM	33398	O5' CYT	691	205.718	113.945	-73.554	1.00	54.05	Al6s	ATOM	33451	N1 GUA	693	201.122	102.473	-76.289	1.00	66.50	P	
ATOM	33399	C5' CYT	691	206.132	114.896	-74.531	1.00	54.05	Al6s	ATOM	33452	C6 GUA	693	201.198	103.816	-75.929	1.00	66.50	P	
ATOM	33400	C4' CYT	691	206.336	114.229	-75.870	1.00	54.05	Al6s	ATOM	33453	O6 GUA	693	201.327	104.133	-74.738	1.00	66.50	P	
ATOM	33401	O4' CYT	691	207.413	113.265	-75.775	1.00	54.05	Al6s	ATOM	33454	C5 GUA	693	201.104	104.661	-77.063	1.00	66.50	P	
ATOM	33402	C1' CYT	691	207.213	112.247	-76.738	1.00	54.05	Al6s	ATOM	33455	N7 GUA	693	201.139	106.044	-77.156	1.00	66.50	P	
ATOM	33403	N1 CYT	691	207.206	110.956	-76.060	1.00	54.85	Al6s	ATOM	33456	C8 GUA	693	201.005	106.281	-78.432	1.00	66.50	P	
ATOM	33404	C6 CYT	691	207.139	110.875	-74.702	1.00	54.85	Al6s	ATOM	33457	C2' GUA	693	199.263	104.537	-80.952	1.00	73.87	P	
ATOM	33405	C2 CYT	691	207.267	109.798	-76.837	1.00	54.85	Al6s	ATOM	33458	C3' GUA	693	199.309	103.769	-82.137	1.00	73.87	P	
ATOM	33406	O2 CYT	691	207.334	109.908	-78.077	1.00	54.85	Al6s	ATOM	33459	O2' GUA	693	198.523	105.858	-81.125	1.00	73.87	P	
ATOM	33407	N3 CYT	691	207.257	108.594	-76.227	1.00	54.85	Al6s	ATOM	33460	O3' GUA	693	197.331	105.695	-81.888	1.00	73.87	P	
ATOM	33408	C4 CYT	691	207.199	108.525	-74.900	1.00	54.85	Al6s	ATOM	33461	P	GUA	694	195.914	105.489	-81.139	1.00	58.98	P

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ATOM	33462	O1P	GUA	694	194.888	105.462	-82.217	1.00	50.47	Al6S	ATOM	33515	C4	GUA	696	192.371	100.115	-70.392	1.00	43.63	Al
ATOM	33463	O2P	GUA	694	195.768	106.472	-80.025	1.00	50.47	Al6S	ATOM	33516	N3	GUA	696	192.927	99.922	-69.176	1.00	43.63	Al
ATOM	33464	O5	GUA	694	196.005	104.018	-80.530	1.00	58.98	Al6S	ATOM	33517	C2	GUA	696	193.370	101.056	-68.656	1.00	43.63	Al
ATOM	33465	C5	GUA	694	196.149	102.913	-81.392	1.00	58.98	Al6S	ATOM	33518	N2	GUA	696	193.989	101.057	-67.463	1.00	43.63	Al
ATOM	33466	C4	GUA	694	196.371	101.657	-80.604	1.00	58.98	Al6S	ATOM	33519	N1	GUA	696	193.251	102.277	-69.271	1.00	43.63	Al
ATOM	33467	O4	GUA	694	197.602	101.740	-79.840	1.00	58.98	Al6S	ATOM	33520	C6	GUA	696	192.681	102.496	-70.517	1.00	43.63	Al
ATOM	33468	C1	GUA	694	197.497	100.897	-78.702	1.00	58.98	Al6S	ATOM	33521	O6	GUA	696	192.631	102.639	-70.975	1.00	43.63	Al
ATOM	33469	N9	GUA	694	197.685	101.703	-77.504	1.00	50.47	Al6S	ATOM	33522	C5	GUA	696	192.224	101.295	-71.095	1.00	43.63	Al
ATOM	33470	C4	GUA	694	197.894	101.220	-76.234	1.00	50.47	Al6S	ATOM	33523	N7	GUA	696	191.613	101.066	-72.318	1.00	43.63	Al
ATOM	33471	N3	GUA	694	197.969	99.916	-75.882	1.00	50.47	Al6S	ATOM	33524	C8	GUA	696	191.393	99.775	-70.182	1.00	43.63	Al
ATOM	33472	C2	GUA	694	198.183	99.765	-74.586	1.00	50.47	Al6S	ATOM	33525	C2	GUA	696	190.444	97.310	-70.182	1.00	43.63	Al
ATOM	33473	N2	GUA	694	198.270	98.537	-74.064	1.00	50.47	Al6S	ATOM	33526	O2	GUA	696	190.719	96.199	-69.354	1.00	61.22	Al
ATOM	33474	N1	GUA	694	198.320	100.809	-73.712	1.00	50.47	Al6S	ATOM	33527	C3	GUA	696	189.581	96.903	-71.365	1.00	61.22	Al
ATOM	33475	C6	GUA	694	198.241	102.158	-74.056	1.00	50.47	Al6S	ATOM	33528	O3	GUA	696	188.503	96.052	-70.994	1.00	61.22	Al
ATOM	33476	O6	GUA	694	198.372	103.022	-73.187	1.00	50.47	Al6S	ATOM	33529	P	GUA	697	187.059	96.693	-70.692	1.00	54.77	Al
ATOM	33477	C5	GUA	694	198.006	102.333	-75.435	1.00	50.47	Al6S	ATOM	33530	O1P	GUA	697	186.037	95.653	-70.928	1.00	44.27	Al
ATOM	33478	N7	GUA	694	197.864	103.494	-76.183	1.00	50.47	Al6S	ATOM	33531	O2P	GUA	697	186.965	97.992	-71.393	1.00	44.27	Al
ATOM	33479	C8	GUA	694	197.679	103.073	-77.404	1.00	50.47	Al6S	ATOM	33532	O5	GUA	697	187.079	95.934	-69.128	1.00	54.77	Al
ATOM	33480	C2	GUA	694	196.090	100.306	-78.721	1.00	58.98	Al6S	ATOM	33533	C5	GUA	697	187.257	95.934	-69.128	1.00	54.77	Al
ATOM	33481	O2	GUA	694	196.112	99.060	-79.376	1.00	58.98	Al6S	ATOM	33534	C4	GUA	697	187.876	96.480	-66.937	1.00	54.77	Al
ATOM	33482	C3	GUA	694	195.350	101.355	-79.533	1.00	58.98	Al6S	ATOM	33535	O4	GUA	697	189.036	97.172	-67.301	1.00	54.77	Al
ATOM	33483	O3	GUA	694	194.157	100.835	-80.088	1.00	58.98	Al6S	ATOM	33536	C1	GUA	697	189.276	98.296	-66.461	1.00	54.77	Al
ATOM	33484	P	ADE	695	192.781	100.983	-79.272	1.00	60.20	Al6S	ATOM	33537	N9	GUA	697	189.278	99.481	-67.299	1.00	44.27	Al
ATOM	33485	O1P	ADE	695	191.689	100.545	-80.184	1.00	47.31	Al6S	ATOM	33538	C4	GUA	697	189.962	100.647	-67.052	1.00	44.27	Al
ATOM	33486	O2P	ADE	695	192.748	102.357	-78.687	1.00	47.31	Al6S	ATOM	33539	N3	GUA	697	190.746	100.896	-65.982	1.00	44.27	Al
ATOM	33487	O5	ADE	695	192.918	99.901	-78.125	1.00	60.20	Al6S	ATOM	33540	C2	GUA	697	191.253	102.113	-66.029	1.00	44.27	Al
ATOM	33488	C5	ADE	695	193.179	98.543	-78.408	1.00	60.20	Al6S	ATOM	33541	N2	GUA	697	192.034	102.559	-67.057	1.00	44.27	Al
ATOM	33489	C4	ADE	695	193.540	97.773	-77.182	1.00	60.20	Al6S	ATOM	33542	N1	GUA	697	191.053	102.989	-67.057	1.00	44.27	Al
ATOM	33490	O4	ADE	695	194.733	98.344	-76.578	1.00	60.20	Al6S	ATOM	33543	C6	GUA	697	190.258	102.743	-68.164	1.00	44.27	Al
ATOM	33491	C1	ADE	695	194.677	98.191	-75.166	1.00	60.20	Al6S	ATOM	33544	O5	GUA	697	189.679	101.470	-68.116	1.00	44.27	Al
ATOM	33492	N9	ADE	695	194.748	99.523	-74.567	1.00	47.31	Al6S	ATOM	33545	C6	GUA	697	188.815	100.842	-69.010	1.00	44.27	Al
ATOM	33493	C4	ADE	695	195.086	99.833	-73.269	1.00	47.31	Al6S	ATOM	33546	N7	GUA	697	188.609	99.663	-68.487	1.00	44.27	Al
ATOM	33494	N3	ADE	695	195.381	98.979	-72.271	1.00	47.31	Al6S	ATOM	33547	C8	GUA	697	188.124	98.305	-65.463	1.00	54.77	Al
ATOM	33495	C2	ADE	695	195.714	99.645	-71.161	1.00	47.31	Al6S	ATOM	33548	O2	GUA	697	187.061	97.554	-66.242	1.00	54.77	Al
ATOM	33496	N1	ADE	695	195.781	100.963	-70.952	1.00	47.31	Al6S	ATOM	33549	C2	GUA	697	186.125	96.961	-65.362	1.00	54.77	Al
ATOM	33497	C6	ADE	695	195.469	101.793	-71.971	1.00	47.31	Al6S	ATOM	33550	O3	GUA	697	184.634	97.541	-65.290	1.00	46.36	Al
ATOM	33498	N6	ADE	695	195.537	103.107	-71.765	1.00	47.31	Al6S	ATOM	33551	P	ADE	698	183.821	96.374	-64.866	1.00	40.52	Al
ATOM	33499	C5	ADE	695	195.093	101.214	-73.201	1.00	47.31	Al6S	ATOM	33552	O1P	ADE	698	184.327	98.226	-66.559	1.00	40.52	Al
ATOM	33500	N7	ADE	695	194.724	101.766	-74.420	1.00	47.31	Al6S	ATOM	33553	O2P	ADE	698	184.689	98.685	-64.173	1.00	46.36	Al
ATOM	33501	C8	ADE	695	194.526	100.724	-75.191	1.00	47.31	Al6S	ATOM	33554	O5	ADE	698	185.190	98.433	-62.859	1.00	46.36	Al
ATOM	33502	C2	ADE	695	193.386	97.432	-74.866	1.00	60.20	Al6S	ATOM	33555	C5	ADE	698	185.836	100.054	-63.118	1.00	46.36	Al
ATOM	33503	O2	ADE	695	193.648	96.047	-74.902	1.00	60.20	Al6S	ATOM	33556	C4	ADE	698	186.963	99.682	-62.292	1.00	46.36	Al
ATOM	33504	C3	ADE	695	192.537	97.845	-76.265	1.00	60.20	Al6S	ATOM	33557	O4	ADE	698	187.111	101.468	-63.120	1.00	40.52	Al
ATOM	33505	O3	ADE	695	191.442	96.978	-76.265	1.00	60.20	Al6S	ATOM	33558	C1	ADE	698	187.034	101.953	-64.497	1.00	40.52	Al
ATOM	33506	P	GUA	696	189.983	97.466	-75.822	1.00	61.22	Al6S	ATOM	33559	N9	ADE	698	187.540	104.069	-64.255	1.00	40.52	Al
ATOM	33507	O1P	GUA	696	189.979	96.528	-76.374	1.00	43.63	Al6S	ATOM	33560	C3	ADE	698	188.544	105.093	-65.035	1.00	40.52	Al
ATOM	33508	O2P	GUA	696	189.996	98.925	-76.133	1.00	43.63	Al6S	ATOM	33561	N4	ADE	698	188.306	105.277	-66.337	1.00	40.52	Al
ATOM	33509	O5	GUA	696	190.230	96.014	-73.245	1.00	61.22	Al6S	ATOM	33562	C2	ADE	698	187.638	104.315	-67.008	1.00	40.52	Al
ATOM	33510	C5	GUA	696	190.590	96.165	-72.220	1.00	61.22	Al6S	ATOM	33563	N1	ADE	698	187.408	104.480	-68.307	1.00	40.52	Al
ATOM	33511	C4	GUA	696	191.766	97.009	-72.115	1.00	61.22	Al6S	ATOM	33564	C6	ADE	698	187.228	103.191	-66.300	1.00	40.52	Al
ATOM	33512	O4	GUA	696	191.733	97.719	-70.893	1.00	61.22	Al6S	ATOM	33565	N6	ADE	698						
ATOM	33513	C1	GUA	696	191.826	99.140	-71.196	1.00	43.63	Al6S	ATOM	33566	C5	ADE	698						
ATOM	33514	N9	GUA	696						Al6S	ATOM	33567									

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ATOM	33568	N7	ADE	698	186.536	102.055	-66.685	1.00	40.52	Al6S	ATOM	33621	C4' GUA	701	186.431	115.996	-60.175	1.00	53.75	A
ATOM	33569	C8	ADE	698	186.448	101.349	-65.581	1.00	40.52	Al6S	ATOM	33622	O4' GUA	701	186.920	115.652	-61.490	1.00	53.75	A
ATOM	33570	C2' ADE	698	186.601	102.055	-62.252	1.00	46.36	Al6S	ATOM	33623	C1' GUA	701	187.468	116.802	-62.109	1.00	53.75	A	
ATOM	33571	O2' ADE	698	186.518	102.334	-60.978	1.00	46.36	Al6S	ATOM	33624	N9 GUA	701	186.858	116.948	-63.425	1.00	73.69	A	
ATOM	33572	C3' ADE	698	184.971	100.932	-62.271	1.00	46.36	Al6S	ATOM	33625	C4 GUA	701	187.164	117.892	-64.369	1.00	73.69	A	
ATOM	33573	O3' ADE	698	184.178	100.961	-61.097	1.00	46.36	Al6S	ATOM	33626	N3 GUA	701	188.100	118.852	-64.254	1.00	73.69	A	
ATOM	33574	P	ADE	699	182.843	101.842	-61.055	1.00	45.87	Al6S	ATOM	33627	C2 GUA	701	188.141	119.626	-65.319	1.00	73.69	A
ATOM	33575	O1P ADE	699	182.188	101.482	-59.777	1.00	49.96	Al6S	ATOM	33628	N2 GUA	701	189.017	120.637	-65.377	1.00	73.69	A	
ATOM	33576	O2P ADE	699	182.087	101.707	-62.325	1.00	49.96	Al6S	ATOM	33629	N1 GUA	701	187.326	119.468	-66.406	1.00	73.69	A	
ATOM	33577	O5' ADE	699	183.374	103.341	-60.948	1.00	45.87	Al6S	ATOM	33630	C6 GUA	701	186.357	118.485	-66.541	1.00	73.69	A	
ATOM	33578	C5' ADE	699	183.693	103.905	-59.684	1.00	45.87	Al6S	ATOM	33631	O6 GUA	701	185.663	118.438	-67.557	1.00	73.69	A	
ATOM	33579	C4' ADE	699	184.405	105.216	-59.859	1.00	45.87	Al6S	ATOM	33632	C5 GUA	701	186.310	117.649	-65.418	1.00	73.69	A	
ATOM	33580	O4' ADE	699	185.456	105.024	-60.843	1.00	45.87	Al6S	ATOM	33633	N7 GUA	701	185.499	116.556	-65.151	1.00	73.69	A	
ATOM	33581	C1' ADE	699	185.690	106.239	-61.537	1.00	45.87	Al6S	ATOM	33634	C8 GUA	701	185.861	116.172	-63.960	1.00	73.69	A	
ATOM	33582	N9 ADE	699	185.444	106.018	-62.960	1.00	49.96	Al6S	ATOM	33635	O2' GUA	701	187.258	117.997	-61.175	1.00	53.75	A	
ATOM	33583	C4 ADE	699	185.787	106.885	-63.968	1.00	49.96	Al6S	ATOM	33636	C2' GUA	701	188.458	118.277	-60.497	1.00	53.75	A	
ATOM	33584	N3 ADE	699	186.441	108.053	-63.852	1.00	49.96	Al6S	ATOM	33637	O3' GUA	701	186.168	117.488	-60.239	1.00	53.75	A	
ATOM	33585	C2 ADE	699	186.562	108.646	-65.040	1.00	49.96	Al6S	ATOM	33638	O3' GUA	701	186.326	118.037	-58.943	1.00	53.75	A	
ATOM	33586	N1 ADE	699	186.137	108.235	-66.235	1.00	49.96	Al6S	ATOM	33639	P	702	185.170	118.964	-58.328	1.00	53.25	A	
ATOM	33587	C6 ADE	699	185.486	107.057	-66.317	1.00	49.96	Al6S	ATOM	33640	O1P CYT	702	185.612	119.368	-56.969	1.00	51.31	A	
ATOM	33588	N6 ADE	699	185.045	106.659	-67.509	1.00	49.96	Al6S	ATOM	33641	O2P CYT	702	183.857	118.279	-58.505	1.00	51.31	A	
ATOM	33589	C5 ADE	699	185.301	106.324	-65.129	1.00	49.96	Al6S	ATOM	33642	O5' CYT	702	185.226	120.272	-59.231	1.00	53.25	A	
ATOM	33590	N7 ADE	699	184.694	105.102	-64.864	1.00	49.96	Al6S	ATOM	33643	C5' CYT	702	186.338	121.152	-59.155	1.00	53.25	A	
ATOM	33591	C8 ADE	699	184.812	104.966	-63.567	1.00	49.96	Al6S	ATOM	33644	C4' CYT	702	186.275	122.150	-60.275	1.00	53.25	A	
ATOM	33592	C2' ADE	699	184.721	107.269	-60.961	1.00	45.87	Al6S	ATOM	33645	O4' CYT	702	186.366	121.450	-61.532	1.00	53.25	A	
ATOM	33593	O2' ADE	699	185.379	107.995	-59.945	1.00	45.87	Al6S	ATOM	33646	C1' CYT	702	185.680	122.179	-62.523	1.00	53.25	A	
ATOM	33594	C3' ADE	699	183.604	106.367	-60.440	1.00	45.87	Al6S	ATOM	33647	N1 CYT	702	184.892	121.234	-63.327	1.00	51.31	A	
ATOM	33595	O3' ADE	699	182.820	107.027	-59.448	1.00	45.87	Al6S	ATOM	33648	C6 CYT	702	184.456	120.061	-62.789	1.00	51.31	A	
ATOM	33596	P	CYT	700	181.556	107.922	-59.894	1.00	57.82	Al6S	ATOM	33649	C2 CYT	702	184.600	121.554	-64.664	1.00	51.31	A
ATOM	33597	O1P CYT	700	180.972	108.508	-58.671	1.00	51.87	Al6S	ATOM	33650	O2 CYT	702	185.019	122.621	-65.136	1.00	51.31	A	
ATOM	33598	O2P CYT	700	180.710	107.082	-60.776	1.00	51.87	Al6S	ATOM	33651	N3 CYT	702	183.878	120.690	-65.404	1.00	51.31	A	
ATOM	33599	O5' CYT	700	182.151	109.098	-60.803	1.00	57.82	Al6S	ATOM	33652	C4 CYT	702	183.464	119.542	-64.869	1.00	51.31	A	
ATOM	33600	C5' CYT	700	182.456	110.414	-60.292	1.00	57.82	Al6S	ATOM	33653	N4 CYT	702	182.769	118.704	-65.642	1.00	51.31	A	
ATOM	33601	C4' CYT	700	183.251	111.167	-61.342	1.00	57.82	Al6S	ATOM	33654	C5 CYT	702	183.750	119.193	-63.519	1.00	51.31	A	
ATOM	33602	O4' CYT	700	183.676	110.163	-62.271	1.00	57.82	Al6S	ATOM	33655	C2' CYT	702	184.895	123.301	-61.834	1.00	53.25	A	
ATOM	33603	C1' CYT	700	183.559	110.645	-63.573	1.00	57.82	Al6S	ATOM	33656	O2' CYT	702	185.527	124.537	-62.084	1.00	53.25	A	
ATOM	33604	N1 CYT	700	183.092	109.563	-64.426	1.00	51.87	Al6S	ATOM	33657	C3' CYT	702	184.960	122.889	-60.365	1.00	53.25	A	
ATOM	33605	C6 CYT	700	182.560	108.421	-63.899	1.00	51.87	Al6S	ATOM	33658	O3' CYT	702	185.014	124.012	-59.497	1.00	53.25	A	
ATOM	33606	C2' CYT	700	183.227	109.715	-65.784	1.00	51.87	Al6S	ATOM	33659	P	703	183.768	124.331	-58.548	1.00	58.67	A	
ATOM	33607	O2 CYT	700	183.711	110.776	-66.207	1.00	51.87	Al6S	ATOM	33660	O1P CYT	703	183.943	125.688	-57.978	1.00	46.44	A	
ATOM	33608	N3 CYT	700	182.841	108.712	-66.606	1.00	51.87	Al6S	ATOM	33661	O2P CYT	703	183.576	123.170	-57.645	1.00	46.44	A	
ATOM	33609	C4 CYT	700	182.348	107.588	-66.090	1.00	51.87	Al6S	ATOM	33662	O5' CYT	703	182.536	124.352	-59.549	1.00	58.67	A	
ATOM	33610	N4 CYT	700	182.015	106.612	-66.926	1.00	51.87	Al6S	ATOM	33663	C5' CYT	703	182.153	125.534	-60.225	1.00	58.67	A	
ATOM	33611	C5 CYT	700	182.186	107.414	-64.687	1.00	51.87	Al6S	ATOM	33664	C4' CYT	703	180.973	125.237	-61.113	1.00	58.67	A	
ATOM	33612	C2' CYT	700	182.775	111.956	-63.602	1.00	57.82	Al6S	ATOM	33665	O4' CYT	703	181.354	124.177	-62.032	1.00	58.67	A	
ATOM	33613	O2' CYT	700	183.559	112.916	-64.275	1.00	57.82	Al6S	ATOM	33666	C1' CYT	703	180.263	123.303	-62.241	1.00	58.67	A	
ATOM	33614	C3' CYT	700	182.514	112.258	-62.120	1.00	57.82	Al6S	ATOM	33667	N1 CYT	703	180.651	121.976	-61.743	1.00	46.44	A	
ATOM	33615	O3' CYT	700	183.221	113.484	-61.923	1.00	57.82	Al6S	ATOM	33668	C6 CYT	703	181.537	121.861	-60.710	1.00	46.44	A	
ATOM	33616	P	GUA	701	182.838	114.506	-60.744	1.00	53.75	Al6S	ATOM	33669	C2 CYT	703	180.105	120.827	-62.339	1.00	46.44	A
ATOM	33617	O1P GUA	701	182.726	113.747	-59.465	1.00	73.69	Al6S	ATOM	33670	O2 CYT	703	179.317	120.953	-63.282	1.00	46.44	A	
ATOM	33618	O2P GUA	701	181.704	115.342	-61.210	1.00	73.69	Al6S	ATOM	33671	N3 CYT	703	180.459	119.610	-61.872	1.00	46.44	A	
ATOM	33619	O5' GUA	701	184.112	115.467	-60.649	1.00	53.75	Al6S	ATOM	33672	C4 CYT	703	181.324	119.513	-60.860	1.00	46.44	A	
ATOM	33620	C5' GUA	701	185.234	115.134	-59.827	1.00	53.75	Al6S	ATOM	33673	N4 CYT	703	181.643	118.299	-60.427	1.00	46.44	A	

ATOM	33674	C5	CYT	703	181.900	120.661	-60.243	1.00	46.44	Al6S	ATOM	33727	O5' URI	706	177.477	123.112	-47.201	1.00	115.87	Al1
ATOM	33675	C2' CYT	703	179.062	123.906	-61.513	1.00	58.67	Al6S	ATOM	33728	C5' URI	706	176.072	123.187	-47.430	1.00	115.87	Al1	
ATOM	33676	O2' CYT	703	178.359	124.731	-62.421	1.00	58.67	Al6S	ATOM	33729	C4' URI	706	175.467	124.342	-46.664	1.00	115.87	Al1	
ATOM	33677	C3' CYT	703	179.737	124.705	-60.401	1.00	58.67	Al6S	ATOM	33730	O4' URI	706	176.454	125.396	-46.481	1.00	115.87	Al1	
ATOM	33678	O3' CYT	703	178.901	125.793	-60.008	1.00	58.67	Al6S	ATOM	33731	C1' URI	706	175.852	126.662	-46.716	1.00	115.87	Al1	
ATOM	33679	P' GUA	704	178.554	126.052	-58.457	1.00	65.09	Al6S	ATOM	33732	N1 URI	706	176.458	127.227	-47.935	1.00	160.47	Al1	
ATOM	33680	O1P GUA	704	177.079	125.950	-58.356	1.00	53.06	Al6S	ATOM	33733	C6 URI	706	177.640	126.723	-48.433	1.00	160.47	Al1	
ATOM	33681	O2P GUA	704	179.226	127.312	-58.059	1.00	53.06	Al6S	ATOM	33734	C2 URI	706	175.811	128.278	-48.572	1.00	160.47	Al1	
ATOM	33682	O5' GUA	704	179.217	124.847	-57.644	1.00	65.09	Al6S	ATOM	33735	O2 URI	706	174.773	128.770	-48.572	1.00	160.47	Al1	
ATOM	33683	C5' GUA	704	179.340	124.891	-56.210	1.00	65.09	Al6S	ATOM	33736	N3 URI	706	176.430	128.734	-49.712	1.00	160.47	Al1	
ATOM	33684	C4' GUA	704	179.601	123.505	-55.675	1.00	65.09	Al6S	ATOM	33737	C4 URI	706	178.019	128.765	-51.318	1.00	160.47	Al1	
ATOM	33685	O4' GUA	704	178.620	122.657	-56.291	1.00	65.09	Al6S	ATOM	33738	O4 URI	706	177.604	128.267	-50.268	1.00	160.47	Al1	
ATOM	33686	C1' GUA	704	179.191	121.414	-56.603	1.00	65.09	Al6S	ATOM	33739	C5 URI	706	178.219	127.194	-49.545	1.00	160.47	Al1	
ATOM	33687	N9' GUA	704	178.772	121.061	-57.945	1.00	53.06	Al6S	ATOM	33740	C2' URI	706	174.343	126.419	-46.812	1.00	115.87	Al1	
ATOM	33688	C4' GUA	704	178.760	119.809	-58.510	1.00	53.06	Al6S	ATOM	33741	O2' URI	706	173.760	126.495	-45.525	1.00	115.87	Al1	
ATOM	33689	N3' GUA	704	179.234	118.680	-57.951	1.00	53.06	Al6S	ATOM	33742	C3' URI	706	174.309	125.011	-47.391	1.00	115.87	Al1	
ATOM	33690	C2' GUA	704	179.046	117.631	-58.731	1.00	53.06	Al6S	ATOM	33743	O3' URI	706	173.077	124.357	-47.134	1.00	57.55	Al1	
ATOM	33691	N2' GUA	704	178.423	117.678	-59.949	1.00	53.06	Al6S	ATOM	33744	P' GUA	707	172.582	123.177	-48.107	1.00	57.55	Al1	
ATOM	33692	N1' GUA	704	177.919	118.831	-60.542	1.00	53.06	Al6S	ATOM	33745	O1P GUA	707	171.112	123.097	-47.970	1.00	51.79	Al1	
ATOM	33693	C6' GUA	704	177.350	118.769	-61.649	1.00	53.06	Al6S	ATOM	33746	O2P GUA	707	173.409	121.962	-47.858	1.00	51.79	Al1	
ATOM	33694	O6' GUA	704	178.143	119.970	-59.727	1.00	53.06	Al6S	ATOM	33747	O5' GUA	707	172.835	123.711	-49.586	1.00	57.55	Al1	
ATOM	33695	C5' GUA	704	178.834	121.305	-59.949	1.00	53.06	Al6S	ATOM	33748	C5' GUA	707	172.083	124.800	-50.099	1.00	57.55	Al1	
ATOM	33696	N7' GUA	704	178.238	121.914	-58.870	1.00	53.06	Al6S	ATOM	33749	C4' GUA	707	171.620	124.518	-51.510	1.00	57.55	Al1	
ATOM	33697	C8' GUA	704	180.692	121.446	-56.327	1.00	65.09	Al6S	ATOM	33750	O4' GUA	707	172.770	124.175	-52.328	1.00	57.55	Al1	
ATOM	33698	C2' GUA	704	180.985	120.606	-55.224	1.00	65.09	Al6S	ATOM	33751	C1' GUA	707	172.380	123.269	-53.346	1.00	57.55	Al1	
ATOM	33699	O2' GUA	704	180.965	122.922	-56.038	1.00	65.09	Al6S	ATOM	33752	N9' GUA	707	173.042	121.996	-53.106	1.00	51.79	Al1	
ATOM	33700	C3' GUA	704	180.985	122.922	-56.038	1.00	65.09	Al6S	ATOM	33753	C4' GUA	707	172.945	120.872	-53.883	1.00	51.79	Al1	
ATOM	33701	O3' GUA	704	181.885	122.859	-54.936	1.00	65.09	Al6S	ATOM	33754	N3' GUA	707	172.261	120.765	-55.040	1.00	51.79	Al1	
ATOM	33702	P' ADE	705	181.851	123.936	-53.739	1.00	82.41	Al6S	ATOM	33755	C2' GUA	707	172.334	119.539	-55.545	1.00	51.79	Al1	
ATOM	33703	O1P ADE	705	182.387	125.233	-54.216	1.00	42.76	Al6S	ATOM	33756	N2' GUA	707	171.722	119.251	-56.699	1.00	51.79	Al1	
ATOM	33704	O2P ADE	705	182.471	123.265	-52.584	1.00	42.76	Al6S	ATOM	33757	C6' GUA	707	173.015	118.501	-54.954	1.00	51.79	Al1	
ATOM	33705	O5' ADE	705	180.328	124.114	-53.337	1.00	82.41	Al6S	ATOM	33758	N1' GUA	707	173.722	118.590	-53.759	1.00	51.79	Al1	
ATOM	33706	C5' ADE	705	179.865	123.722	-52.051	1.00	82.41	Al6S	ATOM	33759	O6' GUA	707	174.287	117.595	-53.302	1.00	51.79	Al1	
ATOM	33707	C4' ADE	705	178.662	124.542	-51.669	1.00	82.41	Al6S	ATOM	33760	C5' GUA	707	173.666	119.903	-53.215	1.00	51.79	Al1	
ATOM	33708	O4' ADE	705	177.957	124.948	-52.861	1.00	82.41	Al6S	ATOM	33761	N7' GUA	707	174.236	120.422	-52.060	1.00	51.79	Al1	
ATOM	33709	C1' ADE	705	176.571	124.803	-52.670	1.00	82.41	Al6S	ATOM	33762	C8' GUA	707	173.846	121.666	-52.041	1.00	51.79	Al1	
ATOM	33710	N9' ADE	705	176.073	123.954	-53.749	1.00	42.76	Al6S	ATOM	33763	C2' GUA	707	170.871	123.105	-53.216	1.00	57.59	Al1	
ATOM	33711	C4' ADE	705	176.316	122.618	-53.941	1.00	42.76	Al6S	ATOM	33764	O2' GUA	707	170.244	124.093	-54.008	1.00	57.59	Al1	
ATOM	33712	N3' ADE	705	177.020	121.794	-53.151	1.00	42.76	Al6S	ATOM	33765	C3' GUA	707	170.686	123.343	-51.724	1.00	57.59	Al1	
ATOM	33713	C2' ADE	705	177.062	120.574	-53.678	1.00	42.76	Al6S	ATOM	33766	O3' GUA	707	169.326	123.647	-51.408	1.00	57.59	Al1	
ATOM	33714	N1' ADE	705	176.526	120.123	-54.820	1.00	42.76	Al6S	ATOM	33767	P' GUA	708	168.333	122.460	-50.945	1.00	48.82	Al1	
ATOM	33715	C6' ADE	705	175.828	120.989	-55.588	1.00	42.76	Al6S	ATOM	33768	O1P GUA	708	167.062	123.054	-50.492	1.00	37.96	Al1	
ATOM	33716	N6' ADE	705	175.302	120.562	-56.736	1.00	42.76	Al6S	ATOM	33769	O2P GUA	708	169.092	121.575	-50.022	1.00	37.96	Al1	
ATOM	33717	C5' ADE	705	175.701	122.294	-55.139	1.00	42.76	Al6S	ATOM	33770	O5' GUA	708	168.041	121.649	-52.284	1.00	48.82	Al1	
ATOM	33718	N7' ADE	705	175.057	123.392	-55.676	1.00	42.76	Al6S	ATOM	33771	C5' GUA	708	167.605	122.318	-53.462	1.00	48.82	Al1	
ATOM	33719	C8' ADE	705	175.297	124.348	-54.811	1.00	42.76	Al6S	ATOM	33772	C4' GUA	708	167.477	121.339	-54.601	1.00	48.82	Al1	
ATOM	33720	C2' ADE	705	176.311	124.374	-51.221	1.00	82.41	Al6S	ATOM	33773	O4' GUA	708	168.781	119.440	-54.937	1.00	48.82	Al1	
ATOM	33721	O2' ADE	705	175.903	125.506	-50.479	1.00	82.41	Al6S	ATOM	33774	C1' GUA	708	168.656	119.800	-55.315	1.00	48.82	Al1	
ATOM	33722	C3' ADE	705	177.669	123.807	-50.789	1.00	82.41	Al6S	ATOM	33775	N9' GUA	708	169.338	118.638	-54.353	1.00	37.96	Al1	
ATOM	33723	O3' ADE	705	177.970	124.131	-49.434	1.00	82.41	Al6S	ATOM	33776	C4' GUA	708	169.708	117.294	-54.451	1.00	37.96	Al1	
ATOM	33724	P' URI	706	178.483	122.994	-48.430	1.00	115.87	Al6S	ATOM	33777	N3' GUA	708	169.367	116.459	-55.464	1.00	37.96	Al1	
ATOM	33725	O1P URI	706	179.834	123.395	-47.970	1.00	160.47	Al6S	ATOM	33778	C2' GUA	708	169.806	115.222	-55.255	1.00	37.96	Al1	
ATOM	33726	O2P URI	706	178.288	121.676	-49.086	1.00	160.47	Al6S	ATOM	33779	N2' GUA	708	169.553	114.256	-56.141	1.00	37.96	Al1	

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ATOM	33780	N1	GUA	708	170.521	114.845	-54.160	1.00	37.96	Al6S	ATOM	33833	P	ADE	711	159.097	110.324	-51.834	1.00	50.33	/
ATOM	33781	C6	GUA	708	170.883	115.683	-53.115	1.00	37.96	Al6S	ATOM	33834	OlP	ADE	711	157.793	109.626	-52.036	1.00	42.33	/
ATOM	33782	O6	GUA	708	171.533	115.232	-52.166	1.00	37.96	Al6S	ATOM	33835	O2P	ADE	711	159.117	111.801	-51.605	1.00	42.33	/
ATOM	33783	C5	GUA	708	170.420	117.006	-53.315	1.00	37.96	Al6S	ATOM	33836	O5	ADE	711	159.681	109.640	-50.522	1.00	50.33	/
ATOM	33784	N7	GUA	708	170.557	118.136	-52.521	1.00	37.96	Al6S	ATOM	33837	C5	ADE	711	159.044	109.838	-49.273	1.00	50.33	/
ATOM	33785	C8	GUA	708	169.933	119.074	-53.173	1.00	37.96	Al6S	ATOM	33838	C4	ADE	711	159.425	108.739	-48.331	1.00	50.33	/
ATOM	33786	C2	GUA	708	167.169	119.112	-55.310	1.00	48.82	Al6S	ATOM	33839	O4	ADE	711	158.845	107.502	-48.787	1.00	50.33	/
ATOM	33787	O2	GUA	708	166.648	119.348	-56.598	1.00	48.82	Al6S	ATOM	33840	C1	ADE	711	159.745	106.436	-48.559	1.00	50.33	/
ATOM	33788	C3	GUA	708	166.657	120.107	-54.284	1.00	48.82	Al6S	ATOM	33841	N9	ADE	711	160.038	105.835	-49.852	1.00	42.33	/
ATOM	33789	O3	GUA	708	165.270	120.351	-53.427	1.00	48.82	Al6S	ATOM	33842	C4	ADE	711	160.398	104.537	-50.084	1.00	42.33	/
ATOM	33790	P	CYT	709	164.229	119.366	-53.714	1.00	43.87	Al6S	ATOM	33843	N3	ADE	711	160.598	103.578	-49.173	1.00	42.33	/
ATOM	33791	OlP	CYT	709	162.854	119.811	-54.054	1.00	46.75	Al6S	ATOM	33844	C2	ADE	711	161.915	102.438	-49.763	1.00	42.33	/
ATOM	33792	O2P	CYT	709	164.623	119.228	-52.288	1.00	46.75	Al6S	ATOM	33845	N1	ADE	711	161.030	102.167	-51.064	1.00	42.33	/
ATOM	33793	O5	CYT	709	164.476	117.977	-54.446	1.00	43.87	Al6S	ATOM	33846	C6	ADE	711	160.804	103.158	-51.949	1.00	42.33	/
ATOM	33794	C5	CYT	709	164.009	117.775	-55.767	1.00	43.87	Al6S	ATOM	33847	N6	ADE	711	160.880	102.889	-53.245	1.00	42.33	/
ATOM	33795	C4	CYT	709	164.238	116.351	-56.177	1.00	43.87	Al6S	ATOM	33848	C5	ADE	711	160.486	104.411	-51.452	1.00	42.33	/
ATOM	33796	O4	CYT	709	165.659	116.064	-56.090	1.00	43.87	Al6S	ATOM	33849	N7	ADE	711	160.214	105.616	-52.078	1.00	42.33	/
ATOM	33797	C1	CYT	709	165.852	114.704	-55.722	1.00	43.87	Al6S	ATOM	33850	C8	ADE	711	159.966	106.433	-51.086	1.00	42.33	/
ATOM	33798	N1	CYT	709	166.575	114.663	-54.444	1.00	46.75	Al6S	ATOM	33851	C2	ADE	711	160.957	107.012	-47.842	1.00	50.33	/
ATOM	33799	C6	CYT	709	166.848	115.806	-53.751	1.00	46.75	Al6S	ATOM	33852	O2	ADE	711	160.747	106.860	-46.462	1.00	50.33	/
ATOM	33800	C2	CYT	709	166.966	113.423	-53.941	1.00	46.75	Al6S	ATOM	33853	C3	ADE	711	161.550	109.369	-47.438	1.00	50.33	/
ATOM	33801	O2	CYT	709	166.732	112.407	-54.607	1.00	46.75	Al6S	ATOM	33854	O3	ADE	711	163.085	109.741	-47.706	1.00	35.09	/
ATOM	33802	N3	CYT	709	167.592	113.361	-52.745	1.00	46.75	Al6S	ATOM	33855	P	ADE	712	163.449	110.833	-46.774	1.00	38.26	/
ATOM	33803	C4	CYT	709	167.839	114.481	-52.066	1.00	46.75	Al6S	ATOM	33856	OlP	ADE	712	163.263	109.947	-49.167	1.00	38.26	/
ATOM	33804	N4	CYT	709	168.438	114.372	-50.886	1.00	46.75	Al6S	ATOM	33857	O2P	ADE	712	163.836	108.409	-47.255	1.00	35.09	/
ATOM	33805	C5	CYT	709	167.475	115.761	-52.567	1.00	46.75	Al6S	ATOM	33858	O5	ADE	712	163.753	108.001	-45.908	1.00	35.09	/
ATOM	33806	C2	CYT	709	164.460	114.092	-55.595	1.00	43.87	Al6S	ATOM	33859	C5	ADE	712	164.278	106.609	-45.733	1.00	35.09	/
ATOM	33807	O2	CYT	709	163.653	113.542	-56.838	1.00	43.87	Al6S	ATOM	33860	C4	ADE	712	164.194	104.523	-46.777	1.00	35.09	/
ATOM	33808	C3	CYT	709	162.261	115.159	-55.398	1.00	43.87	Al6S	ATOM	33861	OlP	ADE	712	164.136	104.371	-48.228	1.00	38.26	/
ATOM	33809	O3	CYT	709	161.380	114.783	-54.116	1.00	44.83	Al6S	ATOM	33862	C1	ADE	712	164.246	101.950	-48.407	1.00	38.26	/
ATOM	33810	P	GUA	710	159.947	114.840	-54.485	1.00	44.07	Al6S	ATOM	33863	N9	ADE	712	164.310	101.219	-50.697	1.00	38.26	/
ATOM	33811	OlP	GUA	710	161.429	112.298	-54.833	1.00	44.83	Al6S	ATOM	33864	C4	ADE	712	164.247	102.474	-51.184	1.00	38.26	/
ATOM	33812	O2P	GUA	710	161.776	113.269	-53.874	1.00	44.83	Al6S	ATOM	33865	N3	ADE	712	164.276	102.639	-52.508	1.00	38.26	/
ATOM	33813	O5	GUA	710	161.892	112.298	-54.833	1.00	44.83	Al6S	ATOM	33866	C2	ADE	712	164.165	103.529	-50.256	1.00	38.26	/
ATOM	33814	C5	GUA	710	163.338	110.974	-54.287	1.00	44.83	Al6S	ATOM	33867	N1	ADE	712	164.048	105.355	-49.177	1.00	38.26	/
ATOM	33815	O4	GUA	710	163.756	110.056	-53.295	1.00	44.83	Al6S	ATOM	33868	C6	ADE	712	165.618	104.783	-46.275	1.00	35.09	/
ATOM	33816	O4	GUA	710	164.468	110.806	-52.268	1.00	44.07	Al6S	ATOM	33869	N6	ADE	712	165.773	104.286	-44.962	1.00	35.09	/
ATOM	33817	C1	GUA	710	165.361	110.299	-51.342	1.00	44.07	Al6S	ATOM	33870	C5	ADE	712	166.711	106.824	-45.473	1.00	35.09	/
ATOM	33818	N9	GUA	710	166.537	108.826	-50.219	1.00	44.07	Al6S	ATOM	33871	N7	ADE	712	168.137	107.528	-45.117	1.00	40.71	/
ATOM	33819	C4	GUA	710	167.048	107.608	-49.978	1.00	44.07	Al6S	ATOM	33872	C8	ADE	712	166.902	108.027	-47.309	1.00	40.71	/
ATOM	33820	N3	GUA	710	166.868	109.803	-49.322	1.00	44.07	Al6S	ATOM	33873	O2	ADE	712	168.590	105.678	-46.655	1.00	39.38	/
ATOM	33821	C2	GUA	710	166.447	111.121	-49.386	1.00	44.07	Al6S	ATOM	33874	O2	ADE	712	169.214	104.762	-45.753	1.00	39.38	/
ATOM	33822	N2	GUA	710	165.632	111.349	-50.505	1.00	44.07	Al6S	ATOM	33875	C3	ADE	712	169.521	103.442	-46.437	1.00	39.38	/
ATOM	33823	C1	GUA	710	165.022	112.512	-50.943	1.00	44.07	Al6S	ATOM	33876	OlP	ADE	713	168.302	102.957	-47.042	1.00	39.38	/
ATOM	33824	N1	GUA	710	164.481	109.389	-52.757	1.00	44.83	Al6S	ATOM	33877	P	GUA	713	168.601	102.273	-48.250	1.00	39.38	/
ATOM	33825	O6	GUA	710	162.153	108.264	-53.549	1.00	44.83	Al6S	ATOM	33878	C1	ADE	713	168.125	103.083	-49.362	1.00	40.71	/
ATOM	33826	C5	GUA	710	160.136	109.934	-53.021	1.00	44.83	Al6S	ATOM	33879	O2P	GUA	713						/
ATOM	33827	N7	GUA	710							ATOM	33880	O5	GUA	713						/
ATOM	33828	C8	GUA	710							ATOM	33881	C5	GUA	713						/
ATOM	33829	C2	GUA	710							ATOM	33882	C4	GUA	713						/
ATOM	33830	O2	GUA	710							ATOM	33883	O4	GUA	713						/
ATOM	33831	C3	GUA	710							ATOM	33884	C1	ADE	713						/
ATOM	33832	O3	GUA	710							ATOM	33885	N9	GUA	713						/

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ATOM	33886	C4	GUA	713	168.192	102.749	-50.685	1.00	40.71	Al6s	ATOM	33939	C2' CYT	715	172.183	109.456	-57.175	1.00	49.67	Al
ATOM	33887	N3	GUA	713	168.673	101.597	-51.178	1.00	40.71	Al6s	ATOM	33940	O2' CYT	715	171.398	109.315	-58.339	1.00	49.67	Al
ATOM	33888	C2	GUA	713	168.657	101.582	-52.489	1.00	40.71	Al6s	ATOM	33941	C3' CYT	715	173.126	108.277	-56.959	1.00	49.67	Al
ATOM	33889	N2	GUA	713	169.128	100.508	-53.152	1.00	40.71	Al6s	ATOM	33942	O3' CYT	715	173.710	107.791	-58.158	1.00	49.67	Al
ATOM	33890	N1	GUA	713	168.185	102.619	-53.249	1.00	40.71	Al6s	ATOM	33943	P ADE	716	175.235	108.143	-58.514	1.00	77.23	Al
ATOM	33891	C6	GUA	713	167.678	103.807	-52.749	1.00	40.71	Al6s	ATOM	33944	O1P ADE	716	175.634	107.100	-59.487	1.00	46.87	Al
ATOM	33892	O6	GUA	713	167.280	104.671	-53.516	1.00	40.71	Al6s	ATOM	33945	O2P ADE	716	176.047	108.353	-57.294	1.00	46.87	Al
ATOM	33893	C5	GUA	713	167.705	103.834	-51.361	1.00	40.71	Al6s	ATOM	33946	O5' ADE	716	175.095	109.539	-59.250	1.00	77.23	Al
ATOM	33894	N7	GUA	713	167.306	104.824	-50.481	1.00	40.71	Al6s	ATOM	33947	C5' ADE	716	176.148	110.075	-60.029	1.00	77.23	Al
ATOM	33895	C8	GUA	713	167.565	104.330	-49.304	1.00	40.71	Al6s	ATOM	33948	C2' ADE	716	175.808	111.485	-60.376	1.00	77.23	Al
ATOM	33896	C2'	GUA	713	170.118	102.166	-48.324	1.00	39.38	Al6s	ATOM	33949	O4' ADE	716	175.544	112.174	-59.149	1.00	77.23	Al
ATOM	33897	O2'	GUA	713	170.533	100.981	-47.675	1.00	39.38	Al6s	ATOM	33950	C1' ADE	716	175.704	113.546	-59.366	1.00	77.23	Al
ATOM	33898	C3'	GUA	713	170.526	103.429	-47.585	1.00	39.38	Al6s	ATOM	33951	N9 ADE	716	176.308	114.155	-58.192	1.00	46.87	Al
ATOM	33899	O3'	GUA	713	171.862	103.264	-47.132	1.00	39.38	Al6s	ATOM	33952	C4 ADE	716	176.159	115.476	-57.880	1.00	46.87	Al
ATOM	33900	P	GUA	714	172.916	104.464	-47.284	1.00	50.39	Al6s	ATOM	33953	N3 ADE	716	175.533	116.406	-58.613	1.00	46.87	Al
ATOM	33901	O1P	GUA	714	174.179	103.865	-46.795	1.00	41.67	Al6s	ATOM	33954	C2 ADE	716	175.521	117.564	-57.972	1.00	46.87	Al
ATOM	33902	O2P	GUA	714	172.391	105.692	-46.638	1.00	41.67	Al6s	ATOM	33955	N1 ADE	716	176.022	117.872	-56.772	1.00	46.87	Al
ATOM	33903	O5'	GUA	714	173.020	104.802	-48.843	1.00	50.39	Al6s	ATOM	33956	C6 ADE	716	176.649	116.910	-56.068	1.00	46.87	Al
ATOM	33904	C5'	GUA	714	172.736	103.832	-49.837	1.00	50.39	Al6s	ATOM	33957	N6 ADE	716	177.145	117.216	-54.866	1.00	46.87	Al
ATOM	33905	C4'	GUA	714	171.960	104.452	-50.993	1.00	50.39	Al6s	ATOM	33958	C5 ADE	716	176.737	115.638	-56.643	1.00	46.87	Al
ATOM	33906	O4'	GUA	714	170.822	105.197	-50.474	1.00	50.39	Al6s	ATOM	33959	N7 ADE	716	177.300	114.447	-56.204	1.00	46.87	Al
ATOM	33907	C1'	GUA	714	170.420	106.170	-51.429	1.00	50.39	Al6s	ATOM	33960	C8 ADE	716	177.031	113.601	-57.170	1.00	46.87	Al
ATOM	33908	N9	GUA	714	170.380	107.476	-50.783	1.00	41.67	Al6s	ATOM	33961	C2' ADE	716	176.386	113.755	-60.713	1.00	77.23	Al
ATOM	33909	C4	GUA	714	169.819	108.621	-51.289	1.00	41.67	Al6s	ATOM	33962	O2' ADE	716	175.364	114.266	-61.555	1.00	77.23	Al
ATOM	33910	N3	GUA	714	169.173	108.734	-52.464	1.00	41.67	Al6s	ATOM	33963	C3' ADE	716	176.857	112.334	-61.060	1.00	77.23	Al
ATOM	33911	C2	GUA	714	168.753	109.965	-52.679	1.00	41.67	Al6s	ATOM	33964	O3' ADE	716	176.715	112.127	-62.461	1.00	77.23	Al
ATOM	33912	N2	GUA	714	168.092	110.256	-53.800	1.00	41.67	Al6s	ATOM	33965	P	717	177.795	111.264	-63.272	1.00	51.81	Al
ATOM	33913	N1	GUA	714	168.949	111.005	-51.809	1.00	41.67	Al6s	ATOM	33966	O1P	717	177.061	110.151	-63.927	1.00	49.13	Al
ATOM	33914	C6	GUA	714	169.608	110.911	-50.588	1.00	41.67	Al6s	ATOM	33967	O2P	717	178.955	110.962	-62.407	1.00	49.13	Al
ATOM	33915	O6	GUA	714	169.724	111.915	-49.863	1.00	41.67	Al6s	ATOM	33968	C5' GUA	717	178.827	112.273	-64.397	1.00	51.81	Al
ATOM	33916	C5	GUA	714	170.065	109.593	-50.350	1.00	41.67	Al6s	ATOM	33969	C5' GUA	717	178.272	113.531	-64.055	1.00	51.81	Al
ATOM	33917	N7	GUA	714	170.751	109.069	-49.269	1.00	41.67	Al6s	ATOM	33970	C4' GUA	717	179.388	114.183	-65.292	1.00	51.81	Al
ATOM	33918	C8	GUA	714	170.910	107.810	-49.568	1.00	41.67	Al6s	ATOM	33971	O4' GUA	717	180.455	113.359	-65.824	1.00	51.81	Al
ATOM	33919	C2'	GUA	714	171.432	106.115	-52.576	1.00	50.39	Al6s	ATOM	33972	C1' GUA	717	180.373	113.330	-67.231	1.00	51.81	Al
ATOM	33920	O2'	GUA	714	170.880	105.319	-53.609	1.00	50.39	Al6s	ATOM	33973	N9	717	180.107	111.958	-67.631	1.00	49.13	Al
ATOM	33921	C3'	GUA	714	172.638	105.474	-51.893	1.00	50.39	Al6s	ATOM	33974	C4	717	180.005	111.496	-68.917	1.00	49.13	Al
ATOM	33922	O3'	GUA	714	173.460	104.833	-52.860	1.00	50.39	Al6s	ATOM	33975	N3	717	180.155	112.235	-70.040	1.00	49.13	Al
ATOM	33923	P	CYT	715	174.507	105.698	-53.727	1.00	49.67	Al6s	ATOM	33976	C2	717	179.977	111.514	-71.129	1.00	49.13	Al
ATOM	33924	O1P	CYT	715	175.187	104.760	-54.642	1.00	35.25	Al6s	ATOM	33977	N2	717	180.096	112.089	-72.336	1.00	49.13	Al
ATOM	33925	O2P	CYT	715	175.312	106.572	-52.843	1.00	35.25	Al6s	ATOM	33978	N1	717	179.652	110.176	-71.119	1.00	49.13	Al
ATOM	33926	O5'	CYT	715	173.615	106.649	-54.631	1.00	49.67	Al6s	ATOM	33979	C6	717	179.516	109.396	-69.979	1.00	49.13	Al
ATOM	33927	C5'	CYT	715	172.849	106.117	-55.688	1.00	49.67	Al6s	ATOM	33980	O6	717	179.241	108.194	-70.085	1.00	49.13	Al
ATOM	33928	C4'	CYT	715	172.180	107.225	-56.432	1.00	49.67	Al6s	ATOM	33981	C5	717	179.710	110.155	-68.801	1.00	49.13	Al
ATOM	33929	O4'	CYT	715	171.350	107.977	-55.521	1.00	49.67	Al6s	ATOM	33982	N7	717	179.652	109.778	-67.467	1.00	49.13	Al
ATOM	33930	C1'	CYT	715	171.260	109.318	-55.966	1.00	49.67	Al6s	ATOM	33983	C8	717	179.897	110.879	-66.811	1.00	49.13	Al
ATOM	33931	N1	CYT	715	171.583	110.211	-54.849	1.00	35.25	Al6s	ATOM	33984	C2' GUA	717	179.266	114.297	-67.648	1.00	51.81	Al
ATOM	33932	C6	CYT	715	172.325	109.777	-53.793	1.00	35.25	Al6s	ATOM	33985	O3' GUA	717	179.801	115.585	-67.830	1.00	51.81	Al
ATOM	33933	C2	CYT	715	171.110	111.530	-54.885	1.00	35.25	Al6s	ATOM	33986	C3' GUA	717	178.379	114.281	-66.423	1.00	51.81	Al
ATOM	33934	O2	CYT	715	170.416	111.892	-55.834	1.00	35.25	Al6s	ATOM	33987	O3' GUA	717	177.670	115.509	-66.299	1.00	51.81	Al
ATOM	33935	N3	CYT	715	171.414	112.373	-53.879	1.00	35.25	Al6s	ATOM	33988	P	718	176.134	115.591	-66.756	1.00	53.44	Al
ATOM	33936	C4	CYT	715	172.137	111.943	-52.857	1.00	35.25	Al6s	ATOM	33989	O1P	718	175.693	116.981	-66.440	1.00	50.58	Al
ATOM	33937	N4	CYT	715	172.399	112.807	-51.893	1.00	35.25	Al6s	ATOM	33990	O2P	718	175.421	114.431	-66.157	1.00	50.58	Al
ATOM	33938	C5	CYT	715	172.620	110.600	-52.783	1.00	35.25	Al6s	ATOM	33991	O5' CYT	718	176.191	115.366	-68.338	1.00	53.44	Al

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ATOM	33992	C5' CYT	718	176.826	116.308	-69.210	1.00	53.44	Al6S	ATOM	34045	C8 ADE	720	168.991	110.082	-73.917	1.00	53.55	A
ATOM	33993	C4' CYT	718	176.815	115.782	-70.626	1.00	53.44	Al6S	ATOM	34046	C2' ADE	720	166.828	109.409	-76.493	1.00	50.48	A
ATOM	33994	O4' CYT	718	177.687	114.625	-70.730	1.00	53.44	Al6S	ATOM	34047	O2' ADE	720	166.509	108.897	-77.775	1.00	50.48	A
ATOM	33995	C1' CYT	718	177.122	113.666	-71.610	1.00	53.44	Al6S	ATOM	34048	C3' ADE	720	166.608	110.908	-76.361	1.00	50.48	A
ATOM	33996	N1 CYT	718	176.875	112.445	-70.840	1.00	50.58	Al6S	ATOM	34049	O3' ADE	720	165.394	111.317	-76.958	1.00	50.48	A
ATOM	33997	C6 CYT	718	176.811	112.445	-69.480	1.00	50.58	Al6S	ATOM	34050	P CYT	721	164.059	111.401	-76.062	1.00	55.93	A
ATOM	33998	C2 CYT	718	176.694	111.235	-71.517	1.00	50.58	Al6S	ATOM	34051	O1P CYT	721	163.009	111.984	-76.936	1.00	50.80	A
ATOM	33999	O2 CYT	718	176.763	111.218	-72.754	1.00	50.58	Al6S	ATOM	34052	O2P CYT	721	164.381	112.068	-74.775	1.00	50.80	A
ATOM	34000	N3 CYT	718	176.448	110.117	-70.810	1.00	50.58	Al6S	ATOM	34053	O5' CYT	721	163.702	109.872	-75.783	1.00	55.93	A
ATOM	34001	C4 CYT	718	176.377	110.175	-69.486	1.00	50.58	Al6S	ATOM	34054	C5' CYT	721	163.370	109.011	-76.862	1.00	55.93	A
ATOM	34002	N4 CYT	718	176.119	109.054	-68.833	1.00	50.58	Al6S	ATOM	34055	C4' CYT	721	163.280	107.586	-76.389	1.00	55.93	A
ATOM	34003	C5 CYT	718	176.566	111.389	-68.772	1.00	50.58	Al6S	ATOM	34056	O4' CYT	721	164.576	107.154	-75.904	1.00	55.93	A
ATOM	34004	C2' CYT	718	175.827	114.261	-72.160	1.00	53.44	Al6S	ATOM	34057	C1' CYT	721	164.404	106.259	-74.818	1.00	55.93	A
ATOM	34005	O2' CYT	718	175.466	115.252	-71.065	1.00	53.44	Al6S	ATOM	34058	N1 CYT	721	165.031	106.852	-73.626	1.00	50.80	A
ATOM	34006	C3' CYT	718	175.056	116.059	-71.574	1.00	53.44	Al6S	ATOM	34059	C6 CYT	721	165.258	106.039	-72.507	1.00	50.80	A
ATOM	34007	O3' CYT	719	173.458	117.344	-72.024	1.00	47.10	Al6S	ATOM	34060	C2 CYT	721	164.981	104.829	-72.581	1.00	50.80	A
ATOM	34008	P CYT	719	172.643	115.459	-70.284	1.00	47.10	Al6S	ATOM	34061	O2 CYT	721	165.779	106.589	-71.383	1.00	50.80	A
ATOM	34009	O1P CYT	719	172.870	114.956	-72.703	1.00	56.86	Al6S	ATOM	34062	N3 CYT	721	166.085	107.886	-71.362	1.00	50.80	A
ATOM	34010	O2P CYT	719	173.223	115.247	-74.045	1.00	56.86	Al6S	ATOM	34063	C4 CYT	721	166.582	108.330	-70.242	1.00	50.80	A
ATOM	34011	O5' CYT	719	172.816	114.119	-74.950	1.00	56.86	Al6S	ATOM	34064	N4 CYT	721	165.893	108.728	-72.498	1.00	50.80	A
ATOM	34012	C5' CYT	719	173.637	112.950	-74.698	1.00	56.86	Al6S	ATOM	34065	C5 CYT	721	162.898	106.062	-74.638	1.00	55.93	A
ATOM	34013	O4' CYT	719	172.887	111.784	-74.974	1.00	56.86	Al6S	ATOM	34066	C2' CYT	721	162.468	104.952	-75.384	1.00	55.93	A
ATOM	34014	C1' CYT	719	172.887	111.784	-74.974	1.00	56.86	Al6S	ATOM	34067	O2' CYT	721	162.354	107.356	-75.215	1.00	55.93	A
ATOM	34015	C1' CYT	719	173.159	111.524	-72.549	1.00	47.10	Al6S	ATOM	34068	C3' CYT	721	161.021	107.198	-75.661	1.00	55.93	A
ATOM	34016	N6 CYT	719	172.536	109.629	-73.862	1.00	47.10	Al6S	ATOM	34069	O3' CYT	721	159.812	107.593	-74.759	1.00	59.18	A
ATOM	34017	C6 CYT	719	172.259	109.169	-74.969	1.00	47.10	Al6S	ATOM	34070	P CYT	722	158.571	107.554	-74.571	1.00	50.84	A
ATOM	34018	C2 CYT	719	172.518	108.866	-72.750	1.00	47.10	Al6S	ATOM	34071	O1P CYT	722	159.733	106.677	-73.589	1.00	59.18	A
ATOM	34019	O2 CYT	719	172.803	109.413	-71.570	1.00	47.10	Al6S	ATOM	34072	O2P CYT	722	159.381	105.341	-73.903	1.00	59.18	A
ATOM	34020	N3 CYT	719	173.135	110.788	-71.437	1.00	47.10	Al6S	ATOM	34073	O5' CYT	722	159.697	104.422	-72.761	1.00	59.18	A
ATOM	34021	C4 CYT	719	171.489	112.235	-75.401	1.00	56.86	Al6S	ATOM	34074	C5' CYT	722	161.124	104.444	-72.496	1.00	59.18	A
ATOM	34022	N4 CYT	719	171.446	112.306	-76.811	1.00	56.86	Al6S	ATOM	34075	C4' CYT	722	161.350	104.237	-71.111	1.00	59.18	A
ATOM	34023	C5 CYT	719	171.408	113.611	-74.754	1.00	56.86	Al6S	ATOM	34076	O4' CYT	722	162.146	106.564	-70.561	1.00	50.84	A
ATOM	34024	C2' CYT	719	170.485	114.474	-75.399	1.00	56.86	Al6S	ATOM	34077	C1' CYT	722	162.401	105.439	-69.227	1.00	50.84	A
ATOM	34025	O2' CYT	719	168.948	114.485	-74.926	1.00	53.55	Al6S	ATOM	34078	N1 CYT	722	162.237	104.415	-68.556	1.00	50.84	A
ATOM	34026	C3' CYT	719	168.264	115.589	-75.663	1.00	53.55	Al6S	ATOM	34079	C6 CYT	722	162.971	106.546	-68.706	1.00	50.84	A
ATOM	34027	O3' CYT	719	168.944	114.495	-73.443	1.00	53.55	Al6S	ATOM	34080	C2 CYT	722	163.120	107.633	-69.462	1.00	50.84	A
ATOM	34028	P ADE	720	168.400	113.079	-75.442	1.00	50.48	Al6S	ATOM	34081	O2 CYT	722	162.708	107.669	-70.826	1.00	50.84	A
ATOM	34029	O1P ADE	720	168.196	112.874	-76.826	1.00	50.48	Al6S	ATOM	34082	N3 CYT	722	159.980	103.966	-70.492	1.00	59.18	A
ATOM	34030	O2P ADE	720	167.814	111.450	-77.099	1.00	50.48	Al6S	ATOM	34083	C4 CYT	722	159.092	104.775	-71.421	1.00	59.18	A
ATOM	34031	O5' ADE	720	168.882	110.581	-76.654	1.00	50.48	Al6S	ATOM	34084	N4 CYT	722	157.733	104.380	-71.344	1.00	59.18	A
ATOM	34032	C5' ADE	720	168.338	109.327	-76.256	1.00	50.48	Al6S	ATOM	34085	C5 CYT	722	156.650	105.404	-70.748	1.00	63.16	A
ATOM	34033	C4' ADE	720	168.657	109.126	-74.841	1.00	53.55	Al6S	ATOM	34086	C2' CYT	722	156.318	104.792	-71.279	1.00	43.82	A
ATOM	34034	O4' ADE	720	168.684	107.931	-74.170	1.00	53.55	Al6S	ATOM	34087	O2' CYT	722	156.931	106.762	-71.279	1.00	43.82	A
ATOM	34035	C1' ADE	720	168.549	105.783	-73.719	1.00	53.55	Al6S	ATOM	34088	C3' CYT	722	156.970	105.439	-69.186	1.00	63.16	A
ATOM	34036	N9 ADE	720	168.902	105.922	-72.436	1.00	53.55	Al6S	ATOM	34089	O3' CYT	722	156.886	104.258	-68.396	1.00	63.16	A
ATOM	34037	C4 ADE	720	169.163	107.165	-71.977	1.00	53.55	Al6S	ATOM	34090	P URI	723	157.472	104.488	-67.015	1.00	63.16	A
ATOM	34038	C2 ADE	720	169.511	107.317	-70.702	1.00	53.55	Al6S	ATOM	34091	O1P URI	723	158.919	104.673	-67.085	1.00	63.16	A
ATOM	34039	N1 ADE	720	169.051	108.234	-72.877	1.00	53.55	Al6S	ATOM	34092	O2P URI	723	159.346	105.451	-65.969	1.00	63.16	A
ATOM	34040	C6 ADE	720	169.236	109.599	-72.726	1.00	53.55	Al6S	ATOM	34093	O5' URI	723						A
ATOM	34041	N6 ADE	720						Al6S	ATOM	34094	C5' URI	723						A
ATOM	34042	C5 ADE	720						Al6S	ATOM	34095	O4' URI	723						A
ATOM	34043	C5 ADE	720						Al6S	ATOM	34096	C4' URI	723						A
ATOM	34044	N7 ADE	720						Al6S	ATOM	34097	C1' URI	723						A

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ATOM	34098	N1	URI	723	159.945	106.702	-66.453	1.00	43.82	Al6S	ATOM	34151	C8	GUA	725	156.758	111.693	-59.672	1.00	45.48	Al
ATOM	34099	C6	URI	723	159.710	107.157	-67.723	1.00	43.82	Al6S	ATOM	34152	C2'	GUA	725	156.241	111.806	-56.210	1.00	55.56	Al
ATOM	34100	C2	URI	723	160.738	107.436	-65.564	1.00	43.82	Al6S	ATOM	34153	O2'	GUA	725	156.730	111.535	-54.906	1.00	55.56	Al
ATOM	34101	O2	URI	723	161.029	107.050	-64.438	1.00	43.82	Al6S	ATOM	34154	C3'	GUA	725	154.906	111.145	-56.529	1.00	55.56	Al
ATOM	34102	N3	URI	723	161.184	108.637	-66.047	1.00	43.82	Al6S	ATOM	34155	O3'	GUA	725	154.004	111.207	-55.435	1.00	55.56	Al
ATOM	34103	C4	URI	723	160.943	109.166	-67.292	1.00	43.82	Al6S	ATOM	34156	P	URI	726	152.887	112.366	-55.391	1.00	55.57	Al
ATOM	34104	O4	URI	723	161.288	110.322	-67.523	1.00	43.82	Al6S	ATOM	34157	O1P	URI	726	152.228	112.288	-54.059	1.00	52.25	Al
ATOM	34105	C5	URI	723	160.169	108.329	-68.162	1.00	43.82	Al6S	ATOM	34158	O2P	URI	726	152.059	112.268	-56.627	1.00	55.57	Al
ATOM	34106	C2'	URI	723	158.089	105.753	-65.153	1.00	63.16	Al6S	ATOM	34159	O5'	URI	726	153.747	113.705	-55.427	1.00	55.57	Al
ATOM	34107	O2'	URI	723	157.891	104.713	-64.219	1.00	63.16	Al6S	ATOM	34160	C5'	URI	726	154.596	114.035	-54.339	1.00	55.57	Al
ATOM	34108	C3'	URI	723	157.023	105.713	-66.234	1.00	63.16	Al6S	ATOM	34161	C4'	URI	726	155.351	115.309	-54.626	1.00	55.57	Al
ATOM	34109	O3'	URI	723	155.739	105.563	-65.653	1.00	63.16	Al6S	ATOM	34162	O4'	URI	726	156.210	115.128	-55.776	1.00	55.57	Al
ATOM	34110	P	GUA	724	155.040	106.828	-64.943	1.00	51.41	Al6S	ATOM	34163	C1'	URI	726	156.286	116.337	-56.501	1.00	55.57	Al
ATOM	34111	O1P	GUA	724	153.586	106.548	-64.875	1.00	51.18	Al6S	ATOM	34164	N1	URI	726	155.699	116.095	-57.817	1.00	52.25	Al
ATOM	34112	O2P	GUA	724	155.505	108.083	-65.574	1.00	51.18	Al6S	ATOM	34165	C6	URI	726	155.971	116.999	-58.797	1.00	52.25	Al
ATOM	34113	O5'	GUA	724	155.611	106.801	-63.457	1.00	51.41	Al6S	ATOM	34166	C2	URI	726	155.652	117.988	-58.599	1.00	52.25	Al
ATOM	34114	C5'	GUA	724	155.368	105.690	-62.607	1.00	51.41	Al6S	ATOM	34167	O2	URI	726	155.413	116.711	-60.014	1.00	52.25	Al
ATOM	34115	C4'	GUA	724	155.920	105.954	-61.233	1.00	51.41	Al6S	ATOM	34168	N3	URI	726	154.618	115.631	-60.324	1.00	52.25	Al
ATOM	34116	O4'	GUA	724	157.373	106.025	-61.279	1.00	51.41	Al6S	ATOM	34169	C4	URI	726	154.240	115.476	-61.476	1.00	52.25	Al
ATOM	34117	C1'	GUA	724	157.833	106.940	-60.291	1.00	51.41	Al6S	ATOM	34170	O4	URI	726	154.366	114.745	-59.241	1.00	52.25	Al
ATOM	34118	N9	GUA	724	158.452	108.075	-60.965	1.00	51.18	Al6S	ATOM	34171	C5	URI	726	155.490	117.387	-55.729	1.00	55.57	Al
ATOM	34119	C4	GUA	724	159.145	109.107	-60.376	1.00	51.18	Al6S	ATOM	34172	C2'	URI	726	156.332	118.087	-54.841	1.00	55.57	Al
ATOM	34120	N3	GUA	724	159.445	109.220	-59.068	1.00	51.18	Al6S	ATOM	34173	O2'	URI	726	154.502	116.514	-54.979	1.00	55.57	Al
ATOM	34121	C2	GUA	724	160.109	110.340	-58.810	1.00	51.18	Al6S	ATOM	34174	C3'	URI	726	154.086	117.162	-53.794	1.00	55.57	Al
ATOM	34122	N2	GUA	724	160.523	110.607	-57.566	1.00	51.18	Al6S	ATOM	34175	O3'	URI	726	152.736	118.014	-53.788	1.00	55.81	Al
ATOM	34123	N1	GUA	724	160.425	111.280	-59.757	1.00	51.18	Al6S	ATOM	34176	P	CYT	727	152.277	117.992	-52.382	1.00	40.50	Al
ATOM	34124	C6	GUA	724	160.118	111.179	-61.108	1.00	51.18	Al6S	ATOM	34177	O1P	CYT	727	151.838	117.488	-54.855	1.00	40.50	Al
ATOM	34125	O6	GUA	724	160.432	112.086	-61.879	1.00	51.18	Al6S	ATOM	34178	O2P	CYT	727	153.220	119.479	-54.193	1.00	55.81	Al
ATOM	34126	C5	GUA	724	159.442	109.977	-61.402	1.00	51.18	Al6S	ATOM	34179	O5'	CYT	727	154.243	120.147	-53.464	1.00	55.81	Al
ATOM	34127	N7	GUA	724	158.995	109.481	-62.614	1.00	51.18	Al6S	ATOM	34180	C5'	CYT	727	155.718	121.363	-54.226	1.00	55.81	Al
ATOM	34128	C8	GUA	724	158.421	108.349	-62.309	1.00	51.18	Al6S	ATOM	34181	O4'	CYT	727	155.404	120.943	-55.434	1.00	55.81	Al
ATOM	34129	C2'	GUA	724	156.594	107.400	-59.523	1.00	51.41	Al6S	ATOM	34182	C4'	CYT	727	155.146	121.869	-56.479	1.00	55.81	Al
ATOM	34130	O2'	GUA	724	156.363	106.521	-58.436	1.00	51.41	Al6S	ATOM	34183	C1'	CYT	727	154.452	121.166	-57.565	1.00	40.50	Al
ATOM	34131	C3'	GUA	724	155.534	107.280	-60.608	1.00	51.41	Al6S	ATOM	34184	N1	CYT	727	153.867	119.949	-57.361	1.00	40.50	Al
ATOM	34132	O3'	GUA	724	154.212	107.262	-60.085	1.00	51.41	Al6S	ATOM	34185	C6	CYT	727	154.930	122.882	-58.951	1.00	40.50	Al
ATOM	34133	P	GUA	725	153.379	108.634	-59.984	1.00	55.56	Al6S	ATOM	34186	C2	CYT	727	153.817	121.116	-59.838	1.00	40.50	Al
ATOM	34134	O1P	GUA	725	152.017	108.268	-59.540	1.00	45.48	Al6S	ATOM	34187	O2	CYT	727	154.413	121.762	-58.815	1.00	40.50	Al
ATOM	34135	O2P	GUA	725	153.554	109.438	-61.211	1.00	45.48	Al6S	ATOM	34188	N3	CYT	727	153.817	121.116	-59.838	1.00	40.50	Al
ATOM	34136	O5'	GUA	725	154.118	109.452	-58.838	1.00	55.56	Al6S	ATOM	34189	C4	CYT	727	153.265	119.922	-59.633	1.00	40.50	Al
ATOM	34137	C5'	GUA	725	154.379	108.863	-57.578	1.00	55.56	Al6S	ATOM	34190	N4	CYT	727	152.706	119.300	-58.357	1.00	40.50	Al
ATOM	34138	C4'	GUA	725	155.338	109.718	-56.798	1.00	55.56	Al6S	ATOM	34191	C5	CYT	727	153.268	119.300	-58.357	1.00	40.50	Al
ATOM	34139	O4'	GUA	725	156.546	109.898	-57.578	1.00	55.56	Al6S	ATOM	34192	C2'	CYT	727	154.305	122.997	-55.895	1.00	55.81	Al
ATOM	34140	C1'	GUA	725	157.154	111.130	-57.230	1.00	55.56	Al6S	ATOM	34193	O2'	CYT	727	155.143	124.055	-55.484	1.00	55.81	Al
ATOM	34141	N9	GUA	725	157.286	111.939	-58.431	1.00	45.48	Al6S	ATOM	34194	C3'	CYT	727	153.623	122.282	-54.738	1.00	55.81	Al
ATOM	34142	C4	GUA	725	157.958	113.124	-58.523	1.00	45.48	Al6S	ATOM	34195	O3'	CYT	727	153.188	123.202	-53.751	1.00	55.81	Al
ATOM	34143	N3	GUA	725	158.628	113.729	-57.524	1.00	45.48	Al6S	ATOM	34196	P	CYT	728	151.699	123.792	-53.838	1.00	52.96	Al
ATOM	34144	C2	GUA	725	159.154	114.875	-57.910	1.00	45.48	Al6S	ATOM	34197	O1P	CYT	728	150.796	122.664	-52.579	1.00	46.04	Al
ATOM	34145	N2	GUA	725	159.853	115.614	-57.042	1.00	45.48	Al6S	ATOM	34198	O2P	CYT	728	151.466	124.550	-52.579	1.00	46.04	Al
ATOM	34146	C2	GUA	725	159.154	114.875	-57.910	1.00	45.48	Al6S	ATOM	34199	O5'	CYT	728	150.796	122.664	-52.579	1.00	46.04	Al
ATOM	34147	N1	GUA	725	159.031	115.378	-59.176	1.00	45.48	Al6S	ATOM	34200	C5'	CYT	728	151.757	124.801	-55.076	1.00	52.96	Al
ATOM	34148	C6	GUA	725	158.339	114.765	-60.213	1.00	45.48	Al6S	ATOM	34201	C4'	CYT	728	152.504	126.014	-54.990	1.00	52.96	Al
ATOM	34149	O6	GUA	725	158.275	115.308	-61.306	1.00	45.48	Al6S	ATOM	34202	O4'	CYT	728	152.458	126.907	-56.302	1.00	52.96	Al
ATOM	34150	C5	GUA	725	157.780	113.546	-59.817	1.00	45.48	Al6S	ATOM	34203	C1'	CYT	728	153.010	125.907	-57.327	1.00	52.96	Al
ATOM	34150	N7	GUA	725	157.026	112.634	-60.534	1.00	45.48	Al6S	ATOM	34203	C1'	CYT	728	152.334	126.133	-58.550	1.00	52.96	Al

ATOM	34204	N1	CYT	728	151.713	124.878	-58.950	1.00	46.04	Al6S	ATOM	34257	O3	CYT	730	140.740	131.155	-61.667	1.00	68.32	A.
ATOM	34205	C6	CYT	728	151.604	123.839	-58.073	1.00	46.04	Al6S	ATOM	34258	P	CYT	731	139.811	131.638	-60.456	1.00	109.20	A.
ATOM	34206	C2	CYT	728	151.270	124.751	-60.249	1.00	46.04	Al6S	ATOM	34259	O1P	CYT	731	139.771	133.120	-60.488	1.00	92.94	A.
ATOM	34207	O2	CYT	728	151.326	125.740	-60.984	1.00	46.04	Al6S	ATOM	34260	O2P	CYT	731	140.248	130.947	-59.225	1.00	92.94	A.
ATOM	34208	N3	CYT	728	150.783	123.565	-60.672	1.00	46.04	Al6S	ATOM	34261	O5	CYT	731	138.372	131.097	-60.857	1.00	109.20	A.
ATOM	34209	C4	CYT	728	150.711	122.542	-59.822	1.00	46.04	Al6S	ATOM	34262	C5	CYT	731	137.571	130.398	-59.919	1.00	109.20	A.
ATOM	34210	N4	CYT	728	150.219	121.363	-58.275	1.00	46.04	Al6S	ATOM	34263	C4	CYT	731	137.590	128.926	-60.232	1.00	109.20	A.
ATOM	34211	C5	CYT	728	151.116	122.662	-58.465	1.00	46.04	Al6S	ATOM	34264	O4	CYT	731	138.963	128.479	-60.266	1.00	109.20	A.
ATOM	34212	C2	CYT	728	151.333	127.251	-58.316	1.00	52.96	Al6S	ATOM	34265	C1	CYT	731	139.066	127.210	-59.660	1.00	109.20	A.
ATOM	34213	O2	CYT	728	151.962	128.482	-58.592	1.00	52.96	Al6S	ATOM	34266	N1	CYT	731	140.017	127.328	-58.550	1.00	92.94	A.
ATOM	34214	C3	CYT	728	151.076	127.085	-56.833	1.00	52.96	Al6S	ATOM	34267	C6	CYT	731	140.106	128.483	-57.831	1.00	92.94	A.
ATOM	34215	O3	CYT	728	150.608	128.294	-56.288	1.00	52.96	Al6S	ATOM	34268	O2	CYT	731	140.868	126.259	-58.272	1.00	92.94	A.
ATOM	34216	P	ADE	729	149.052	128.457	-55.998	1.00	61.94	Al6S	ATOM	34269	C2	CYT	731	140.711	125.195	-58.882	1.00	92.94	A.
ATOM	34217	O1P	ADE	729	148.927	129.501	-54.947	1.00	56.18	Al6S	ATOM	34270	N3	CYT	731	141.835	126.407	-57.344	1.00	92.94	A.
ATOM	34218	O2P	ADE	729	148.515	127.097	-55.759	1.00	56.18	Al6S	ATOM	34271	C4	CYT	731	141.950	127.559	-56.686	1.00	92.94	A.
ATOM	34219	O5	ADE	729	148.463	128.981	-57.377	1.00	61.94	Al6S	ATOM	34272	N4	CYT	731	142.947	127.681	-55.810	1.00	92.94	A.
ATOM	34220	C5	ADE	729	149.004	130.132	-58.004	1.00	61.94	Al6S	ATOM	34273	C5	CYT	731	141.053	128.643	-56.902	1.00	92.94	A.
ATOM	34221	C4	ADE	729	148.577	130.160	-59.438	1.00	61.94	Al6S	ATOM	34274	C5	CYT	731	137.651	126.719	-59.342	1.00	109.20	A.
ATOM	34222	O4	ADE	729	149.096	128.981	-60.097	1.00	61.94	Al6S	ATOM	34275	O2	CYT	731	137.248	125.933	-60.436	1.00	109.20	A.
ATOM	34223	C1	ADE	729	148.182	128.548	-61.082	1.00	61.94	Al6S	ATOM	34276	C3	CYT	731	136.880	128.032	-59.230	1.00	109.20	A.
ATOM	34224	N9	ADE	729	147.876	127.141	-60.844	1.00	56.18	Al6S	ATOM	34277	O3	CYT	731	135.487	128.016	-59.587	1.00	109.20	A.
ATOM	34225	C4	ADE	729	147.264	126.293	-61.735	1.00	56.18	Al6S	ATOM	34278	P	CYT	732	134.684	126.628	-59.777	1.00	61.73	A.
ATOM	34226	N3	ADE	729	146.814	126.591	-62.962	1.00	56.18	Al6S	ATOM	34279	O1P	CYT	732	133.288	127.027	-60.085	1.00	81.47	A.
ATOM	34227	C2	ADE	729	146.169	124.251	-63.541	1.00	56.18	Al6S	ATOM	34280	O2P	CYT	732	134.941	125.684	-58.646	1.00	81.47	A.
ATOM	34228	N1	ADE	729	146.633	124.017	-61.828	1.00	56.18	Al6S	ATOM	34281	O5	CYT	732	135.272	126.005	-61.121	1.00	61.73	A.
ATOM	34229	C6	ADE	729	146.518	122.780	-61.349	1.00	56.18	Al6S	ATOM	34282	C5	CYT	732	134.652	126.245	-62.366	1.00	61.73	A.
ATOM	34230	N6	ADE	729	147.211	125.066	-61.111	1.00	56.18	Al6S	ATOM	34283	C4	CYT	732	134.859	125.065	-63.267	1.00	61.73	A.
ATOM	34231	C5	ADE	729	147.768	125.134	-59.843	1.00	56.18	Al6S	ATOM	34284	O4	CYT	732	136.256	124.982	-63.634	1.00	61.73	A.
ATOM	34232	N7	ADE	729	148.143	126.386	-59.732	1.00	56.18	Al6S	ATOM	34285	C1	CYT	732	136.621	123.619	-63.812	1.00	61.73	A.
ATOM	34233	C8	ADE	729	146.972	129.477	-61.031	1.00	61.94	Al6S	ATOM	34286	N1	CYT	732	137.740	123.300	-62.905	1.00	81.47	A.
ATOM	34234	C2	ADE	729	147.132	130.466	-62.023	1.00	61.94	Al6S	ATOM	34287	C6	CYT	732	138.198	121.982	-62.849	1.00	81.47	A.
ATOM	34235	O3	ADE	729	146.080	130.039	-59.620	1.00	61.94	Al6S	ATOM	34288	C2	CYT	732	139.694	121.137	-63.607	1.00	81.47	A.
ATOM	34236	C3	ADE	729	145.079	130.594	-59.508	1.00	61.94	Al6S	ATOM	34289	O2	CYT	732	139.173	121.660	-61.979	1.00	81.47	A.
ATOM	34237	O3	ADE	729	145.089	131.497	-58.734	1.00	68.32	Al6S	ATOM	34290	N3	CYT	732	139.702	122.596	-61.198	1.00	81.47	A.
ATOM	34238	P	CYT	730	144.902	132.956	-58.542	1.00	70.28	Al6S	ATOM	34291	C4	CYT	732	140.647	122.221	-60.337	1.00	81.47	A.
ATOM	34239	O1P	CYT	730	144.014	130.949	-59.776	1.00	68.32	Al6S	ATOM	34292	N4	CYT	732	139.284	123.953	-61.259	1.00	81.47	A.
ATOM	34240	O2P	CYT	730	143.873	131.544	-61.057	1.00	68.32	Al6S	ATOM	34293	C5	CYT	732	135.384	122.775	-63.499	1.00	61.73	A.
ATOM	34241	O5	CYT	730	143.069	130.648	-61.965	1.00	68.32	Al6S	ATOM	34294	C2	CYT	732	134.711	122.412	-64.684	1.00	61.73	A.
ATOM	34242	C5	CYT	730	143.792	129.419	-62.191	1.00	68.32	Al6S	ATOM	34295	O2	CYT	732	134.595	123.724	-62.614	1.00	61.73	A.
ATOM	34243	O4	CYT	730	143.876	128.388	-62.512	1.00	68.32	Al6S	ATOM	34296	C3	CYT	732	132.643	122.452	-61.455	1.00	59.03	A.
ATOM	34244	C1	CYT	730	143.179	127.214	-61.681	1.00	70.28	Al6S	ATOM	34297	P	GU	733	131.158	122.450	-61.572	1.00	60.58	A.
ATOM	34245	N1	CYT	730	142.858	125.946	-62.454	1.00	70.28	Al6S	ATOM	34298	O1P	GU	733	133.286	122.905	-60.182	1.00	60.58	A.
ATOM	34246	C6	CYT	730	142.340	125.848	-63.289	1.00	70.28	Al6S	ATOM	34299	O2P	GU	733	132.611	120.999	-61.851	1.00	59.03	A.
ATOM	34247	C6	CYT	730	143.123	124.861	-61.413	1.00	70.28	Al6S	ATOM	34300	O5	GU	733	133.094	118.887	-62.962	1.00	59.03	A.
ATOM	34248	O2	CYT	730	143.687	125.008	-60.214	1.00	70.28	Al6S	ATOM	34301	C5	GU	733	134.545	118.920	-62.928	1.00	59.03	A.
ATOM	34249	C2	CYT	730	143.919	123.910	-59.497	1.00	70.28	Al6S	ATOM	34302	O4	GU	733	135.023	117.869	-62.100	1.00	59.03	A.
ATOM	34250	N3	CYT	730	144.033	126.286	-59.696	1.00	70.28	Al6S	ATOM	34303	C1	GU	733	135.676	118.467	-60.939	1.00	60.58	A.
ATOM	34251	C4	CYT	730	141.466	128.951	-62.322	1.00	68.32	Al6S	ATOM	34304	N9	GU	733	136.291	117.806	-59.897	1.00	60.58	A.
ATOM	34252	C5	CYT	730	140.938	129.312	-63.581	1.00	68.32	Al6S	ATOM	34305	C4	GU	733	136.378	116.469	-59.743	1.00	60.58	A.
ATOM	34253	O2	CYT	730	141.730	130.166	-61.442	1.00	68.32	Al6S	ATOM	34306	N3	GU	733	137.034	116.139	-58.642	1.00	60.58	A.
ATOM	34254	C2	CYT	730							ATOM	34307	C2	GU	733						A.
ATOM	34255	O2	CYT	730							ATOM	34308	N3	GU	733						A.
ATOM	34256	C3	CYT	730							ATOM	34309	C2	GU	733						A.

ATOM	34310	N2	GUA	733	137.196	114.851	-58.329	1.00	60.58	Al6S	ATOM	34363	O3' GUA	735	130.361	111.284	-51.952	1.00	60.97	Al
ATOM	34311	N1	GUA	733	137.574	117.048	-57.769	1.00	60.58	Al6S	ATOM	34364	P ADE	736	129.980	111.274	-50.376	1.00	42.55	Al
ATOM	34312	C6	GUA	733	137.508	118.427	-57.914	1.00	60.58	Al6S	ATOM	34365	O1P ADE	736	129.437	109.915	-50.121	1.00	49.05	Al
ATOM	34313	O6	GUA	733	138.046	119.160	-57.078	1.00	60.58	Al6S	ATOM	34366	O2P ADE	736	129.177	112.461	-50.003	1.00	49.05	Al
ATOM	34314	C5	GUA	733	136.791	118.796	-59.081	1.00	60.58	Al6S	ATOM	34367	O5' ADE	736	131.380	111.375	-49.613	1.00	42.55	Al
ATOM	34315	N7	GUA	733	136.482	120.051	-59.585	1.00	60.58	Al6S	ATOM	34368	C5' ADE	736	132.324	110.272	-49.560	1.00	42.55	Al
ATOM	34316	C8	GUA	733	135.818	119.807	-60.681	1.00	60.58	Al6S	ATOM	34369	C4' ADE	736	133.279	110.484	-48.397	1.00	42.55	Al
ATOM	34317	C2' GUA	733	133.817	116.998	-61.758	1.00	59.03	Al6S	ATOM	34370	O4' ADE	736	133.709	111.852	-48.443	1.00	42.55	Al	
ATOM	34318	O2' GUA	733	133.665	116.010	-62.763	1.00	59.03	Al6S	ATOM	34371	C1' ADE	736	133.792	112.340	-47.144	1.00	42.55	Al	
ATOM	34319	C3' GUA	733	132.706	118.040	-61.775	1.00	59.03	Al6S	ATOM	34372	N9 ADE	736	133.793	113.794	-47.160	1.00	49.05	Al	
ATOM	34320	O3' GUA	733	131.426	117.433	-61.923	1.00	59.03	Al6S	ATOM	34373	C4 ADE	736	134.567	114.570	-46.339	1.00	49.05	Al	
ATOM	34321	P URI	734	130.526	117.156	-60.618	1.00	65.72	Al6S	ATOM	34374	N3 ADE	736	135.380	114.150	-45.362	1.00	49.05	Al	
ATOM	34322	O1P URI	734	129.205	116.661	-61.081	1.00	49.56	Al6S	ATOM	34375	C2 ADE	736	136.001	115.179	-44.802	1.00	49.05	Al	
ATOM	34323	O2P URI	734	130.602	118.355	-59.747	1.00	49.56	Al6S	ATOM	34376	N1 ADE	736	135.912	116.478	-45.090	1.00	49.05	Al	
ATOM	34324	O5' URI	734	131.244	115.954	-59.856	1.00	65.72	Al6S	ATOM	34377	C6 ADE	736	135.086	116.858	-46.082	1.00	49.05	Al	
ATOM	34325	C5' URI	734	131.064	114.606	-60.279	1.00	65.72	Al6S	ATOM	34378	N6 ADE	736	135.008	118.148	-46.383	1.00	49.05	Al	
ATOM	34326	C4' URI	734	131.855	113.656	-59.398	1.00	65.72	Al6S	ATOM	34379	C5 ADE	736	134.363	115.868	-46.743	1.00	49.05	Al	
ATOM	34327	O4' URI	734	133.221	114.132	-59.270	1.00	65.72	Al6S	ATOM	34380	N7 ADE	736	133.440	115.918	-47.772	1.00	49.05	Al	
ATOM	34328	C1' URI	734	133.750	113.715	-58.026	1.00	65.72	Al6S	ATOM	34381	C8 ADE	736	133.125	114.661	-47.974	1.00	49.05	Al	
ATOM	34329	N1 URI	734	134.169	114.906	-57.280	1.00	49.56	Al6S	ATOM	34382	C2' ADE	736	132.806	111.581	-46.268	1.00	42.55	Al	
ATOM	34330	C6 URI	734	133.829	116.157	-57.701	1.00	49.56	Al6S	ATOM	34383	O2' ADE	736	133.341	111.440	-44.975	1.00	42.55	Al	
ATOM	34331	C2 URI	734	134.926	114.720	-56.138	1.00	49.56	Al6S	ATOM	34384	C3' ADE	736	132.618	110.269	-47.039	1.00	42.55	Al	
ATOM	34332	O2 URI	734	135.233	113.620	-55.715	1.00	49.56	Al6S	ATOM	34385	O3' ADE	736	133.370	109.301	-46.287	1.00	42.55	Al	
ATOM	34333	N3 URI	734	135.307	115.870	-55.503	1.00	49.56	Al6S	ATOM	34386	P CYT	737	133.333	107.729	-46.642	1.00	50.20	Al	
ATOM	34334	C4 URI	734	135.004	117.153	-55.875	1.00	49.56	Al6S	ATOM	34387	O1P CYT	737	131.917	107.268	-46.682	1.00	50.14	Al	
ATOM	34335	O4 URI	734	135.416	118.087	-55.195	1.00	49.56	Al6S	ATOM	34388	O2P CYT	737	134.287	107.109	-45.692	1.00	50.14	Al	
ATOM	34336	C5 URI	734	134.209	117.261	-57.054	1.00	49.56	Al6S	ATOM	34389	O5' CYT	737	133.993	107.589	-48.087	1.00	50.20	Al	
ATOM	34337	C2' URI	734	132.661	112.914	-57.313	1.00	65.72	Al6S	ATOM	34390	C5' CYT	737	135.392	107.751	-48.246	1.00	50.20	Al	
ATOM	34338	O2' URI	734	132.819	111.538	-57.611	1.00	65.72	Al6S	ATOM	34391	C4' CYT	737	135.815	107.406	-49.647	1.00	50.20	Al	
ATOM	34339	C3' URI	734	131.404	113.478	-57.956	1.00	65.72	Al6S	ATOM	34392	O4' CYT	737	134.983	108.102	-50.593	1.00	50.20	Al	
ATOM	34340	O3' URI	734	130.399	112.482	-57.884	1.00	60.97	Al6S	ATOM	34393	C1' CYT	737	135.763	108.510	-51.693	1.00	50.20	Al	
ATOM	34341	P GUA	735	128.984	112.828	-57.226	1.00	60.97	Al6S	ATOM	34394	N1 CYT	737	135.465	109.924	-51.958	1.00	50.14	Al	
ATOM	34342	O1P GUA	735	127.989	111.936	-57.877	1.00	60.49	Al6S	ATOM	34395	C6 CYT	737	134.776	110.297	-53.080	1.00	50.14	Al	
ATOM	34343	O2P GUA	735	128.806	114.301	-57.276	1.00	60.49	Al6S	ATOM	34396	C2 CYT	737	135.891	110.883	-51.044	1.00	50.14	Al	
ATOM	34344	O5' GUA	735	129.121	112.408	-55.694	1.00	60.97	Al6S	ATOM	34397	N3 CYT	737	136.517	112.187	-51.267	1.00	50.14	Al	
ATOM	34345	C5' GUA	735	130.147	111.524	-55.240	1.00	60.97	Al6S	ATOM	34398	O2 CYT	737	135.598	112.538	-52.349	1.00	50.14	Al	
ATOM	34346	C4' GUA	735	130.853	112.143	-54.065	1.00	60.97	Al6S	ATOM	34399	C4 CYT	737	134.618	113.821	-52.504	1.00	50.14	Al	
ATOM	34347	O4' GUA	735	131.332	113.414	-54.494	1.00	60.97	Al6S	ATOM	34400	N4 CYT	737	134.479	111.581	-53.312	1.00	50.14	Al	
ATOM	34348	C1' GUA	735	131.384	114.270	-53.401	1.00	60.97	Al6S	ATOM	34401	C5 CYT	737	137.219	108.108	-51.453	1.00	50.20	Al	
ATOM	34349	N9 GUA	735	131.301	115.630	-53.904	1.00	60.49	Al6S	ATOM	34402	C2' CYT	737	137.532	106.956	-52.204	1.00	50.20	Al	
ATOM	34350	C4 GUA	735	132.081	116.694	-53.525	1.00	60.49	Al6S	ATOM	34403	O2' CYT	737	137.238	107.831	-49.956	1.00	50.20	Al	
ATOM	34351	N3 GUA	735	133.036	116.682	-52.572	1.00	60.49	Al6S	ATOM	34404	C3' CYT	737	138.115	106.755	-49.654	1.00	50.20	Al	
ATOM	34352	C2 GUA	735	133.618	117.863	-52.443	1.00	60.49	Al6S	ATOM	34405	O3' CYT	737	139.679	107.035	-49.447	1.00	51.55	Al	
ATOM	34353	N2 GUA	735	134.599	118.035	-51.556	1.00	60.49	Al6S	ATOM	34406	P GUA	738	140.184	107.615	-50.712	1.00	44.99	Al	
ATOM	34354	N1 GUA	735	133.281	118.965	-53.180	1.00	60.49	Al6S	ATOM	34407	O1P GUA	738	140.308	105.801	-48.914	1.00	44.99	Al	
ATOM	34355	C6 GUA	735	132.302	118.994	-54.167	1.00	60.49	Al6S	ATOM	34408	O2P GUA	738	139.719	108.156	-48.315	1.00	51.55	Al	
ATOM	34356	O6 GUA	735	132.073	120.042	-54.780	1.00	60.49	Al6S	ATOM	34409	O5' GUA	738	140.021	109.503	-48.638	1.00	51.55	Al	
ATOM	34357	C5 GUA	735	131.683	117.738	-54.323	1.00	60.49	Al6S	ATOM	34410	C5' GUA	738	140.268	110.290	-47.378	1.00	51.55	Al	
ATOM	34358	N7 GUA	735	130.675	117.343	-55.184	1.00	60.49	Al6S	ATOM	34411	C4' GUA	738	139.062	110.277	-46.573	1.00	51.55	Al	
ATOM	34359	C8 GUA	735	130.474	116.089	-54.890	1.00	60.49	Al6S	ATOM	34412	O4' GUA	738	139.396	110.120	-45.208	1.00	51.55	Al	
ATOM	34360	O2' GUA	735	131.459	113.752	-52.291	1.00	60.97	Al6S	ATOM	34413	C1' GUA	738	138.973	108.783	-44.820	1.00	44.99	Al	
ATOM	34361	C2' GUA	735	131.193	113.631	-51.096	1.00	60.97	Al6S	ATOM	34414	N9 GUA	738	139.068	108.227	-43.572	1.00	44.99	Al	
ATOM	34362	C3' GUA	735	130.007	112.386	-52.821	1.00	60.97	Al6S	ATOM	34415	C4 GUA	738						Al	

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ATOM	34416	N3	GUA	738	139.581	108.823	-42.484	1.00	44.99	Al6S	ATOM	34469	P	GUA	741	151.046	104.076	-40.011	1.00	39.19	A
ATOM	34417	C2	GUA	738	139.557	108.033	-41.436	1.00	44.99	Al6S	ATOM	34470	OIP	GUA	741	152.253	104.144	-39.144	1.00	42.20	A
ATOM	34418	N2	GUA	738	140.054	108.460	-40.268	1.00	44.99	Al6S	ATOM	34471	O2P	GUA	741	151.177	104.338	-41.463	1.00	42.20	A
ATOM	34419	N1	GUA	738	139.054	106.768	-41.452	1.00	44.99	Al6S	ATOM	34472	O5'	GUA	741	150.436	102.616	-39.863	1.00	39.19	A
ATOM	34420	C6	GUA	738	138.515	106.135	-42.562	1.00	44.99	Al6S	ATOM	34473	C5'	GUA	741	150.374	101.980	-38.593	1.00	39.19	A
ATOM	34421	O6	GUA	738	138.548	106.964	-43.695	1.00	44.99	Al6S	ATOM	34474	C4'	GUA	741	149.501	100.765	-38.684	1.00	39.19	A
ATOM	34422	C5	GUA	738	138.131	106.725	-44.997	1.00	44.99	Al6S	ATOM	34475	O4'	GUA	741	148.249	101.174	-39.284	1.00	39.19	A
ATOM	34423	N7	GUA	738	138.404	107.829	-45.630	1.00	44.99	Al6S	ATOM	34476	C1'	GUA	741	147.732	100.128	-40.070	1.00	39.19	A
ATOM	34424	C2	GUA	738	140.908	110.280	-45.113	1.00	51.55	Al6S	ATOM	34477	N9	GUA	741	147.560	100.637	-41.418	1.00	42.20	A
ATOM	34425	O2'	GUA	738	141.217	111.648	-44.999	1.00	51.55	Al6S	ATOM	34478	C4	GUA	741	146.637	100.214	-42.338	1.00	42.20	A
ATOM	34426	C3'	GUA	738	141.332	109.725	-46.458	1.00	51.55	Al6S	ATOM	34479	N3	GUA	741	145.710	99.255	-42.146	1.00	42.20	A
ATOM	34427	O3'	GUA	738	142.610	110.196	-46.827	1.00	51.55	Al6S	ATOM	34480	C2	GUA	741	144.960	99.081	-43.219	1.00	42.20	A
ATOM	34428	C3'	GUA	738	143.886	109.261	-46.587	1.00	36.99	Al6S	ATOM	34481	N2	GUA	741	143.972	98.182	-43.199	1.00	42.20	A
ATOM	34429	P	CYT	739	143.028	109.869	-47.302	1.00	32.09	Al6S	ATOM	34482	N1	GUA	741	145.121	99.776	-44.387	1.00	42.20	A
ATOM	34430	OIP	CYT	739	143.506	107.866	-46.896	1.00	32.09	Al6S	ATOM	34483	C6	GUA	741	146.073	100.759	-44.603	1.00	42.20	A
ATOM	34431	O2P	CYT	739	144.106	109.340	-45.011	1.00	36.99	Al6S	ATOM	34484	O6	GUA	741	146.867	100.973	-43.463	1.00	42.20	A
ATOM	34432	C5'	CYT	739	144.708	110.474	-44.399	1.00	36.99	Al6S	ATOM	34485	C5	GUA	741	147.904	101.867	-43.248	1.00	42.20	A
ATOM	34433	O5'	CYT	739	144.887	110.217	-42.926	1.00	36.99	Al6S	ATOM	34486	N7	GUA	741	148.283	101.630	-42.020	1.00	42.20	A
ATOM	34434	C4'	CYT	739	143.591	109.850	-42.379	1.00	36.99	Al6S	ATOM	34487	C8	GUA	741	148.702	98.953	-39.961	1.00	39.19	A
ATOM	34435	O4'	CYT	739	143.753	108.889	-41.745	1.00	36.99	Al6S	ATOM	34488	C2'	GUA	741	148.230	98.109	-38.924	1.00	39.19	A
ATOM	34436	C1'	CYT	739	143.051	107.657	-41.745	1.00	32.09	Al6S	ATOM	34489	O2'	GUA	741	150.001	99.659	-39.589	1.00	39.19	A
ATOM	34437	N1	CYT	739	142.859	106.661	-40.795	1.00	32.09	Al6S	ATOM	34490	C3'	GUA	741	151.455	97.467	-39.456	1.00	41.27	A
ATOM	34438	C6	CYT	739	143.268	106.848	-39.649	1.00	32.09	Al6S	ATOM	34491	O3'	GUA	741	152.932	97.584	-39.346	1.00	39.00	A
ATOM	34439	C2	CYT	739	142.859	106.661	-40.795	1.00	32.09	Al6S	ATOM	34492	P	ADE	742	150.941	96.320	-38.476	1.00	41.27	A
ATOM	34440	O2	CYT	739	142.236	105.514	-41.143	1.00	32.09	Al6S	ATOM	34493	OIP	ADE	742	150.991	96.499	-37.064	1.00	41.27	A
ATOM	34441	N3	CYT	739	141.822	105.341	-42.390	1.00	32.09	Al6S	ATOM	34494	O2P	ADE	742	150.511	95.250	-36.360	1.00	41.27	A
ATOM	34442	C4	CYT	739	141.258	104.177	-42.697	1.00	32.09	Al6S	ATOM	34495	O5'	ADE	742	148.689	93.776	-36.394	1.00	41.27	A
ATOM	34443	N4	CYT	739	145.255	108.665	-41.172	1.00	36.99	Al6S	ATOM	34496	C5'	ADE	742	147.911	93.486	-37.595	1.00	39.00	A
ATOM	34444	C5	CYT	739	145.738	109.638	-40.245	1.00	36.99	Al6S	ATOM	34497	C4'	ADE	742	147.073	92.413	-37.758	1.00	39.00	A
ATOM	34445	C2'	CYT	739	145.748	109.020	-42.571	1.00	36.99	Al6S	ATOM	34498	O4'	ADE	742	146.792	91.460	-36.858	1.00	39.00	A
ATOM	34446	O2'	CYT	739	147.127	109.353	-42.970	1.00	36.99	Al6S	ATOM	34500	N9	ADE	742	145.963	90.560	-37.372	1.00	39.00	A
ATOM	34447	C3'	CYT	739	149.221	108.240	-42.970	1.00	37.72	Al6S	ATOM	34501	C4	ADE	742	145.421	90.512	-38.587	1.00	39.00	A
ATOM	34448	OIP	URI	740	147.850	107.556	-44.235	1.00	37.72	Al6S	ATOM	34502	N3	ADE	742	145.714	91.495	-39.462	1.00	39.00	A
ATOM	34449	O2P	URI	740	148.153	107.168	-41.790	1.00	36.93	Al6S	ATOM	34503	C2	ADE	742	145.159	91.457	-40.670	1.00	39.00	A
ATOM	34450	O5'	URI	740	148.399	107.553	-40.440	1.00	36.93	Al6S	ATOM	34504	N1	ADE	742	146.586	92.504	-39.044	1.00	39.00	A
ATOM	34451	C5'	URI	740	148.012	106.443	-39.497	1.00	36.93	Al6S	ATOM	34505	C6	ADE	742	147.085	93.629	-39.680	1.00	39.00	A
ATOM	34452	C4'	URI	740	146.587	106.188	-39.601	1.00	36.93	Al6S	ATOM	34506	N5	ADE	742	147.863	94.179	-38.777	1.00	39.00	A
ATOM	34453	O4'	URI	740	146.327	104.821	-39.302	1.00	36.93	Al6S	ATOM	34507	C5	ADE	742	150.317	92.711	-36.986	1.00	41.27	A
ATOM	34454	C1'	URI	740	145.644	104.204	-40.452	1.00	37.72	Al6S	ATOM	34508	N7	ADE	742	150.970	92.934	-36.955	1.00	41.27	A
ATOM	34455	N1	URI	740	145.728	104.738	-40.709	1.00	37.72	Al6S	ATOM	34509	C8	ADE	742	152.287	93.624	-36.547	1.00	41.27	A
ATOM	34456	C6	URI	740	144.918	103.047	-40.227	1.00	37.72	Al6S	ATOM	34510	O2'	ADE	742	153.388	93.272	-37.650	1.00	42.81	A
ATOM	34457	C2	URI	740	144.784	102.553	-39.142	1.00	37.72	Al6S	ATOM	34511	O2'	ADE	742	154.526	92.701	-36.896	1.00	58.45	A
ATOM	34458	O2	URI	740	144.344	102.494	-41.330	1.00	37.72	Al6S	ATOM	34512	C3'	ADE	742	152.706	92.135	-38.528	1.00	42.81	A
ATOM	34459	N3	URI	740	144.395	102.966	-42.608	1.00	37.72	Al6S	ATOM	34513	O3'	ADE	742	152.424	90.882	-37.950	1.00	42.81	A
ATOM	34460	C4	URI	740	145.141	104.173	-42.771	1.00	37.72	Al6S	ATOM	34514	P	GUA	743	151.529	90.056	-38.843	1.00	42.81	A
ATOM	34461	O4	URI	740	147.679	104.169	-39.008	1.00	36.93	Al6S	ATOM	34515	OIP	GUA	743	150.256	90.727	-39.070	1.00	42.81	A
ATOM	34462	C5	URI	740	147.903	104.202	-37.621	1.00	36.93	Al6S	ATOM	34516	O2P	GUA	743	149.638	90.152	-40.214	1.00	42.81	A
ATOM	34463	C2'	URI	740	149.903	105.084	-39.777	1.00	36.93	Al6S	ATOM	34517	O5'	GUA	743						
ATOM	34464	O2'	URI	740	149.958	105.026	-39.290	1.00	36.93	Al6S	ATOM	34518	C5'	GUA	743						
ATOM	34465	C3'	URI	740							ATOM	34519	O4'	GUA	743						
ATOM	34466	O3'	URI	740							ATOM	34520	C4'	GUA	743						
ATOM	34467	O3'	URI	740							ATOM	34521	C1'	GUA	743						
ATOM	34468	O3'	URI	740							ATOM										

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ATOM	34522	N9	GUA	743	149.387	91.183	-41.205	1.00	58.45	Al6S	ATOM	34575	C5	CYT	745	154.890	91.919	-46.334	1.00	35.97	Al1
ATOM	34523	C4	GUA	743	148.644	91.008	-42.335	1.00	58.45	Al6S	ATOM	34576	C2	CYT	745	154.906	91.591	-50.877	1.00	51.12	Al1
ATOM	34524	N3	GUA	743	147.956	89.895	-42.654	1.00	58.45	Al6S	ATOM	34577	O2	CYT	745	154.401	91.771	-52.182	1.00	51.12	Al1
ATOM	34525	C2	GUA	743	147.364	90.001	-43.823	1.00	58.45	Al6S	ATOM	34578	C3	CYT	745	155.265	90.148	-50.586	1.00	51.12	Al1
ATOM	34526	N2	GUA	743	146.611	88.987	-44.274	1.00	58.45	Al6S	ATOM	34579	O3	CYT	745	155.912	89.537	-51.683	1.00	51.12	Al1
ATOM	34527	N1	GUA	743	147.461	91.112	-44.631	1.00	58.45	Al6S	ATOM	34580	P	GUA	746	157.505	89.363	-51.683	1.00	52.86	Al1
ATOM	34528	C6	GUA	743	148.171	92.270	-44.319	1.00	58.45	Al6S	ATOM	34581	O1P	GUA	746	157.845	88.445	-52.778	1.00	37.14	Al1
ATOM	34529	O6	GUA	743	148.206	93.217	-45.123	1.00	58.45	Al6S	ATOM	34582	O2P	GUA	746	157.929	89.018	-50.274	1.00	37.14	Al1
ATOM	34530	C5	GUA	743	148.786	92.172	-43.053	1.00	58.45	Al6S	ATOM	34583	O5	GUA	746	158.028	90.818	-52.023	1.00	52.86	Al1
ATOM	34531	N7	GUA	743	149.560	93.087	-42.355	1.00	58.45	Al6S	ATOM	34584	C5	GUA	746	157.637	91.418	-53.244	1.00	52.86	Al1
ATOM	34532	C8	GUA	743	149.882	92.459	-41.256	1.00	58.45	Al6S	ATOM	34585	C4	GUA	746	157.854	92.906	-53.191	1.00	52.86	Al1
ATOM	34533	C2	GUA	743	150.658	89.182	-40.811	1.00	42.81	Al6S	ATOM	34586	O4	GUA	746	157.093	93.480	-52.100	1.00	52.86	Al1
ATOM	34534	O2	GUA	743	150.409	87.872	-40.336	1.00	42.81	Al6S	ATOM	34587	C1	GUA	746	157.693	94.699	-51.706	1.00	52.86	Al1
ATOM	34535	C3	GUA	743	151.956	89.760	-40.266	1.00	42.81	Al6S	ATOM	34588	N9	GUA	746	157.955	94.637	-50.277	1.00	37.14	Al1
ATOM	34536	O3	GUA	743	153.000	88.808	-40.363	1.00	42.81	Al6S	ATOM	34589	C4	GUA	746	158.467	95.653	-49.510	1.00	37.14	Al1
ATOM	34537	P	GUA	744	153.950	88.814	-41.668	1.00	55.30	Al6S	ATOM	34590	N3	GUA	746	158.807	96.877	-49.954	1.00	37.14	Al1
ATOM	34538	O1P	GUA	744	154.663	87.516	-41.708	1.00	43.03	Al6S	ATOM	34591	C2	GUA	746	159.261	97.645	-48.984	1.00	37.14	Al1
ATOM	34539	O2P	GUA	744	154.729	90.075	-41.704	1.00	43.03	Al6S	ATOM	34592	N2	GUA	746	159.628	98.899	-49.257	1.00	37.14	Al1
ATOM	34540	O5	GUA	744	152.943	88.847	-42.900	1.00	55.30	Al6S	ATOM	34593	N1	GUA	746	159.387	97.241	-47.677	1.00	37.14	Al1
ATOM	34541	C5	GUA	744	152.344	87.659	-43.386	1.00	55.30	Al6S	ATOM	34594	C6	GUA	746	159.055	95.977	-47.198	1.00	37.14	Al1
ATOM	34542	C4	GUA	744	151.688	87.935	-44.706	1.00	55.30	Al6S	ATOM	34595	O6	GUA	746	159.229	95.701	-45.993	1.00	37.14	Al1
ATOM	34543	O4	GUA	744	150.785	89.059	-44.539	1.00	55.30	Al6S	ATOM	34596	C5	GUA	746	158.548	95.146	-48.234	1.00	37.14	Al1
ATOM	34544	C1	GUA	744	150.830	89.887	-45.689	1.00	55.30	Al6S	ATOM	34597	N7	GUA	746	157.754	93.572	-49.432	1.00	37.14	Al1
ATOM	34545	N9	GUA	744	151.396	91.172	-45.297	1.00	43.03	Al6S	ATOM	34598	C8	GUA	746	158.988	94.829	-52.502	1.00	52.86	Al1
ATOM	34546	C4	GUA	744	151.472	92.291	-46.082	1.00	43.03	Al6S	ATOM	34599	C2	GUA	746	158.988	94.829	-52.502	1.00	52.86	Al1
ATOM	34547	N3	GUA	744	151.035	92.391	-47.353	1.00	43.03	Al6S	ATOM	34600	O3	GUA	746	158.781	95.654	-53.630	1.00	52.86	Al1
ATOM	34548	C2	GUA	744	150.868	93.864	-49.106	1.00	43.03	Al6S	ATOM	34601	C3	GUA	746	159.249	93.377	-52.865	1.00	52.86	Al1
ATOM	34549	N2	GUA	744	151.843	94.617	-47.157	1.00	43.03	Al6S	ATOM	34602	O3	GUA	746	160.099	93.268	-53.984	1.00	52.86	Al1
ATOM	34550	N1	GUA	744	152.299	94.538	-45.846	1.00	43.03	Al6S	ATOM	34603	P	CYT	747	161.675	93.077	-53.756	1.00	39.87	Al1
ATOM	34551	C6	GUA	744	152.077	93.248	-45.299	1.00	43.03	Al6S	ATOM	34604	O1P	CYT	747	162.274	92.851	-55.104	1.00	34.28	Al1
ATOM	34552	O6	GUA	744	152.821	95.533	-45.306	1.00	43.03	Al6S	ATOM	34605	O2P	CYT	747	161.849	92.049	-52.682	1.00	34.28	Al1
ATOM	34553	C5	GUA	744	152.077	93.248	-45.299	1.00	43.03	Al6S	ATOM	34606	O5	CYT	747	162.150	94.506	-53.230	1.00	39.87	Al1
ATOM	34554	N7	GUA	744	152.380	92.737	-44.045	1.00	43.03	Al6S	ATOM	34607	C5	CYT	747	162.053	95.631	-54.079	1.00	39.87	Al1
ATOM	34555	C8	GUA	744	151.958	91.504	-44.089	1.00	43.03	Al6S	ATOM	34608	C4	CYT	747	162.428	96.878	-53.344	1.00	39.87	Al1
ATOM	34556	C2	GUA	744	151.708	89.176	-46.713	1.00	55.30	Al6S	ATOM	34609	O4	CYT	747	161.535	97.063	-52.229	1.00	39.87	Al1
ATOM	34557	O2	GUA	744	150.909	88.342	-47.522	1.00	55.30	Al6S	ATOM	34610	C1	CYT	747	162.220	97.691	-51.169	1.00	39.87	Al1
ATOM	34558	C3	GUA	744	152.634	88.394	-45.797	1.00	55.30	Al6S	ATOM	34611	N1	CYT	747	162.183	96.780	-50.025	1.00	34.28	Al1
ATOM	34559	O3	GUA	744	153.181	87.278	-46.464	1.00	55.30	Al6S	ATOM	34612	C6	CYT	747	161.748	95.493	-50.170	1.00	34.28	Al1
ATOM	34560	P	CYT	745	154.610	87.406	-47.172	1.00	51.12	Al6S	ATOM	34613	C2	CYT	747	162.617	97.244	-48.783	1.00	34.28	Al1
ATOM	34561	O1P	CYT	745	154.801	86.160	-47.980	1.00	35.97	Al6S	ATOM	34614	O2	CYT	747	162.956	98.435	-48.675	1.00	34.28	Al1
ATOM	34562	O2P	CYT	745	155.607	87.787	-46.133	1.00	35.97	Al6S	ATOM	34615	N3	CYT	747	162.651	96.387	-47.734	1.00	34.28	Al1
ATOM	34563	O5	CYT	745	154.426	88.584	-48.226	1.00	51.12	Al6S	ATOM	34616	C4	CYT	747	162.261	95.123	-47.895	1.00	34.28	Al1
ATOM	34564	C5	CYT	745	153.905	88.296	-49.516	1.00	51.12	Al6S	ATOM	34617	N4	CYT	747	162.352	94.307	-46.858	1.00	34.28	Al1
ATOM	34565	C4	CYT	745	153.905	89.533	-50.359	1.00	51.12	Al6S	ATOM	34618	C5	CYT	747	161.765	94.640	-49.139	1.00	34.28	Al1
ATOM	34566	O4	CYT	745	153.181	90.558	-49.644	1.00	51.12	Al6S	ATOM	34619	C2	CYT	747	163.666	97.944	-51.654	1.00	39.87	Al1
ATOM	34567	C1	CYT	745	153.789	91.812	-49.863	1.00	51.12	Al6S	ATOM	34620	O2	CYT	747	163.753	99.226	-52.235	1.00	39.87	Al1
ATOM	34568	N1	CYT	745	154.304	92.298	-48.477	1.00	35.97	Al6S	ATOM	34621	C3	CYT	747	163.791	96.863	-49.707	1.00	39.87	Al1
ATOM	34569	C6	CYT	745	154.405	91.471	-48.495	1.00	35.97	Al6S	ATOM	34622	O3	CYT	747	164.762	97.228	-53.668	1.00	39.87	Al1
ATOM	34570	C2	CYT	745	154.702	93.625	-48.490	1.00	35.97	Al6S	ATOM	34623	P	GUA	748	166.235	96.618	-53.558	1.00	29.88	Al1
ATOM	34571	O2	CYT	745	154.593	94.349	-49.498	1.00	35.97	Al6S	ATOM	34624	O1P	GUA	748	167.091	97.314	-54.547	1.00	29.88	Al1
ATOM	34572	N3	CYT	745	155.195	94.091	-47.326	1.00	35.97	Al6S	ATOM	34625	O2P	GUA	748	166.068	95.153	-53.632	1.00	29.88	Al1
ATOM	34573	C4	CYT	745	155.288	93.286	-46.276	1.00	35.97	Al6S	ATOM	34626	O5	GUA	748	166.702	97.033	-52.093	1.00	39.52	Al1
ATOM	34574	N4	CYT	745	155.766	93.801	-45.143	1.00	35.97	Al6S	ATOM	34627	C5	GUA	748	167.154	98.352	-51.840	1.00	39.52	Al1

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ATOM	34628	C4' GUA	748	167.373	98.551	-50.367	1.00	39.52	Al6S	ATOM	34681	C6 ADE	750	175.531	94.299	-45.324	1.00	37.96	A
ATOM	34629	O4' GUA	748	166.166	98.166	-49.658	1.00	39.52	Al6S	ATOM	34682	N6 ADE	750	174.378	93.686	-45.544	1.00	37.96	A
ATOM	34630	C1' GUA	748	166.512	97.618	-48.397	1.00	39.52	Al6S	ATOM	34683	C5 ADE	750	176.028	95.303	-46.142	1.00	37.96	A
ATOM	34631	N9 GUA	748	166.054	96.242	-48.400	1.00	29.88	Al6S	ATOM	34684	N7 ADE	750	175.539	95.885	-47.299	1.00	37.96	A
ATOM	34632	C4 GUA	748	165.988	95.366	-47.326	1.00	29.88	Al6S	ATOM	34685	C8 ADE	750	176.448	96.778	-47.613	1.00	37.96	A
ATOM	34633	N3 GUA	748	166.333	95.698	-46.060	1.00	29.88	Al6S	ATOM	34686	C2' ADE	750	179.843	96.932	-47.512	1.00	52.20	A
ATOM	34634	C2 GUA	748	166.148	94.677	-45.241	1.00	29.88	Al6S	ATOM	34687	O2' ADE	750	181.090	97.474	-47.113	1.00	52.20	A
ATOM	34635	N2 GUA	748	166.402	94.821	-43.933	1.00	29.88	Al6S	ATOM	34688	C3' ADE	750	179.559	97.214	-48.975	1.00	52.20	A
ATOM	34636	N1 GUA	748	165.388	93.449	-45.645	1.00	29.88	Al6S	ATOM	34689	O3' ADE	750	180.745	97.103	-49.736	1.00	52.20	A
ATOM	34637	C6 GUA	748	165.308	92.003	-47.208	1.00	29.88	Al6S	ATOM	34690	P ADE	751	181.030	96.091	-50.582	1.00	33.60	A
ATOM	34638	O6 GUA	748	164.855	92.003	-47.208	1.00	29.88	Al6S	ATOM	34691	O1P ADE	751	182.281	95.771	-51.304	1.00	37.72	A
ATOM	34639	C5 GUA	748	165.498	94.214	-47.824	1.00	29.88	Al6S	ATOM	34692	O2P ADE	751	179.789	95.371	-51.349	1.00	37.72	A
ATOM	34640	N7 GUA	748	165.264	94.314	-49.188	1.00	29.88	Al6S	ATOM	34693	O5' ADE	751	181.351	94.672	-49.480	1.00	33.60	A
ATOM	34641	C8 GUA	748	165.608	95.535	-49.486	1.00	29.88	Al6S	ATOM	34694	C5' ADE	751	182.481	94.833	-48.629	1.00	33.60	A
ATOM	34642	C2' GUA	748	168.035	97.706	-48.263	1.00	39.52	Al6S	ATOM	34695	C4' ADE	751	182.373	93.924	-47.434	1.00	33.60	A
ATOM	34643	O2' GUA	748	168.409	98.909	-47.619	1.00	39.52	Al6S	ATOM	34696	O4' ADE	751	181.183	94.273	-46.703	1.00	33.60	A
ATOM	34644	C3' GUA	748	168.463	97.708	-49.724	1.00	39.52	Al6S	ATOM	34697	C1' ADE	751	180.591	93.105	-46.181	1.00	33.60	A
ATOM	34645	O3' GUA	748	169.709	98.368	-49.834	1.00	39.52	Al6S	ATOM	34698	N9 ADE	751	179.296	92.082	-46.825	1.00	37.72	A
ATOM	34646	P ADE	749	170.551	97.991	-52.085	1.00	31.92	Al6S	ATOM	34700	N3 ADE	751	178.310	91.222	-45.407	1.00	37.72	A
ATOM	34647	O1P ADE	749	171.068	96.272	-50.232	1.00	31.92	Al6S	ATOM	34701	C2 ADE	751	177.212	90.536	-45.338	1.00	37.72	A
ATOM	34648	O2P ADE	749	172.160	98.559	-50.259	1.00	40.92	Al6S	ATOM	34702	N1 ADE	751	176.128	90.606	-46.127	1.00	37.72	A
ATOM	34649	O5' ADE	749	172.169	99.967	-50.415	1.00	40.92	Al6S	ATOM	34703	C6 ADE	751	176.138	91.482	-47.157	1.00	37.72	A
ATOM	34650	C5' ADE	749	173.309	100.587	-49.629	1.00	40.92	Al6S	ATOM	34704	N6 ADE	751	175.081	91.544	-47.963	1.00	37.72	A
ATOM	34651	C4' ADE	749	173.010	100.659	-48.211	1.00	40.92	Al6S	ATOM	34705	C5 ADE	751	177.272	92.270	-47.327	1.00	37.72	A
ATOM	34652	O4' ADE	749	174.233	100.755	-47.490	1.00	40.92	Al6S	ATOM	34706	N7 ADE	751	177.595	93.240	-48.261	1.00	37.72	A
ATOM	34653	C1' ADE	749	174.283	99.722	-46.464	1.00	31.92	Al6S	ATOM	34707	C8 ADE	751	178.806	93.612	-47.921	1.00	37.72	A
ATOM	34654	N9 ADE	749	175.265	99.649	-45.508	1.00	31.92	Al6S	ATOM	34708	C2' ADE	751	181.520	91.937	-46.494	1.00	33.60	A
ATOM	34655	C4 ADE	749	176.296	100.496	-45.339	1.00	31.92	Al6S	ATOM	34709	O2' ADE	751	182.387	91.711	-45.401	1.00	33.60	A
ATOM	34656	N3 ADE	749	177.063	100.103	-44.327	1.00	31.92	Al6S	ATOM	34710	C3' ADE	751	182.212	92.448	-47.748	1.00	33.60	A
ATOM	34657	C2 ADE	749	176.926	99.044	-43.530	1.00	31.92	Al6S	ATOM	34711	O3' ADE	751	183.484	91.839	-47.948	1.00	35.80	A
ATOM	34658	N1 ADE	749	175.880	98.214	-43.728	1.00	31.92	Al6S	ATOM	34712	P GUA	752	183.658	90.710	-49.070	1.00	35.80	A
ATOM	34659	C6 ADE	749	175.760	97.147	-42.937	1.00	31.92	Al6S	ATOM	34713	O1P GUA	752	184.969	90.078	-48.846	1.00	31.49	A
ATOM	34660	N6 ADE	749	174.987	98.524	-44.763	1.00	31.92	Al6S	ATOM	34714	O2P GUA	752	183.352	91.307	-50.388	1.00	31.49	A
ATOM	34661	C5 ADE	749	173.834	97.907	-45.226	1.00	31.92	Al6S	ATOM	34715	O5' GUA	752	182.557	89.634	-48.688	1.00	35.80	A
ATOM	34662	C8 ADE	749	173.457	98.659	-46.236	1.00	31.92	Al6S	ATOM	34716	C5' GUA	752	182.722	88.870	-47.524	1.00	35.80	A
ATOM	34663	N7 ADE	749	175.366	100.541	-48.486	1.00	40.92	Al6S	ATOM	34717	C4' GUA	752	181.483	88.080	-47.238	1.00	35.80	A
ATOM	34664	C2' ADE	749	175.916	101.778	-48.868	1.00	40.92	Al6S	ATOM	34718	O4' GUA	752	180.344	88.974	-47.146	1.00	35.80	A
ATOM	34665	O2' ADE	749	174.630	99.847	-49.617	1.00	40.92	Al6S	ATOM	34719	C1' GUA	752	179.159	88.256	-47.454	1.00	35.80	A
ATOM	34666	C3' ADE	749	175.349	99.953	-49.824	1.00	40.92	Al6S	ATOM	34720	N9 GUA	752	178.495	88.951	-48.546	1.00	31.49	A
ATOM	34667	O3' ADE	749	176.070	98.647	-51.407	1.00	52.20	Al6S	ATOM	34721	C4 GUA	752	177.337	88.576	-49.172	1.00	31.49	A
ATOM	34668	P ADE	750	176.737	99.084	-52.661	1.00	37.96	Al6S	ATOM	34722	N3 GUA	752	176.585	87.495	-48.872	1.00	31.49	A
ATOM	34669	O1P ADE	750	175.054	97.564	-51.442	1.00	37.96	Al6S	ATOM	34723	C2 GUA	752	175.513	87.408	-49.642	1.00	31.49	A
ATOM	34670	O2P ADE	750	177.169	98.275	-50.307	1.00	52.20	Al6S	ATOM	34724	N2 GUA	752	174.656	86.397	-49.468	1.00	31.49	A
ATOM	34671	O5' ADE	750	178.287	99.133	-50.089	1.00	52.20	Al6S	ATOM	34725	N1 GUA	752	175.210	88.305	-50.635	1.00	31.49	A
ATOM	34672	C5' ADE	750	179.112	98.659	-48.922	1.00	52.20	Al6S	ATOM	34726	C6 GUA	752	175.987	89.417	-50.965	1.00	31.49	A
ATOM	34673	C4' ADE	750	178.343	98.754	-47.699	1.00	52.20	Al6S	ATOM	34727	O6 GUA	752	175.649	90.161	-51.895	1.00	31.49	A
ATOM	34674	O4' ADE	750	178.680	97.672	-46.846	1.00	52.20	Al6S	ATOM	34728	C5 GUA	752	177.122	89.528	-50.137	1.00	31.49	A
ATOM	34675	C1' ADE	750	177.505	96.813	-46.747	1.00	37.96	Al6S	ATOM	34729	N7 GUA	752	178.120	90.489	-49.113	1.00	31.49	A
ATOM	34676	N9 ADE	750	177.238	95.863	-45.788	1.00	37.96	Al6S	ATOM	34730	C8 GUA	752	178.912	90.105	-49.155	1.00	31.49	A
ATOM	34677	C4' ADE	750	177.994	95.528	-44.732	1.00	37.96	Al6S	ATOM	34731	C2' GUA	752	179.610	86.845	-47.836	1.00	35.80	A
ATOM	34678	N3 ADE	750	177.417	94.557	-44.035	1.00	37.96	Al6S	ATOM	34732	O2' GUA	752	179.634	86.044	-46.673	1.00	35.80	A
ATOM	34679	C2 ADE	750	176.262	93.938	-44.254	1.00	37.96	Al6S	ATOM	34733	C3' GUA	752	181.026	87.122	-48.308	1.00	35.80	A

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ATOM	34734	O3' GUA	752	181.819	85.958	-48.288	1.00	35.80	A16S	ATOM	34787	C6 URI	755	177.872	81.127	-59.605	1.00	54.40	A1
ATOM	34735	P CYT	753	182.355	85.352	-49.672	1.00	47.16	A16S	ATOM	34788	C2 URI	755	176.822	83.004	-61.327	1.00	54.40	A1
ATOM	34736	O1P CYT	753	183.556	84.542	-49.346	1.00	39.84	A16S	ATOM	34789	O2 URI	755	176.121	83.106	-62.308	1.00	54.40	A1
ATOM	34737	O2P CYT	753	182.450	86.435	-50.681	1.00	39.84	A16S	ATOM	34790	N3 URI	755	177.388	84.096	-60.728	1.00	54.40	A1
ATOM	34738	O5' CYT	753	181.169	84.395	-50.123	1.00	47.16	A16S	ATOM	34791	C4 URI	755	178.182	84.099	-59.618	1.00	54.40	A1
ATOM	34739	C5' CYT	753	180.654	83.427	-49.231	1.00	47.16	A16S	ATOM	34792	O4 URI	755	178.655	85.154	-59.230	1.00	54.40	A1
ATOM	34740	C4' CYT	753	179.310	82.944	-49.709	1.00	47.16	A16S	ATOM	34793	C5 URI	755	178.411	82.812	-59.039	1.00	54.40	A1
ATOM	34741	O4' CYT	753	178.384	84.054	-49.779	1.00	47.16	A16S	ATOM	34794	C2' URI	755	177.510	80.104	-62.475	1.00	55.90	A1
ATOM	34742	C1' CYT	753	177.336	83.707	-50.673	1.00	47.16	A16S	ATOM	34795	O3' URI	755	176.766	79.443	-63.480	1.00	55.90	A1
ATOM	34743	N1 CYT	753	177.105	84.809	-51.609	1.00	39.84	A16S	ATOM	34796	C2' URI	755	178.412	79.158	-61.698	1.00	55.90	A1
ATOM	34744	C6 CYT	753	177.958	85.868	-51.706	1.00	39.84	A16S	ATOM	34797	O3' URI	755	179.128	78.258	-62.531	1.00	55.90	A1
ATOM	34745	C2 CYT	753	175.969	84.755	-52.388	1.00	39.84	A16S	ATOM	34798	P GUA	756	180.661	78.580	-62.894	1.00	70.88	A1
ATOM	34746	O2 CYT	753	175.237	83.756	-52.285	1.00	39.84	A16S	ATOM	34799	O1P GUA	756	181.235	77.361	-63.511	1.00	62.79	A1
ATOM	34747	N3 CYT	753	175.689	85.778	-53.227	1.00	39.84	A16S	ATOM	34800	O2P GUA	756	181.329	79.183	-64.004	1.00	62.79	A1
ATOM	34748	C4 CYT	753	176.505	86.821	-53.289	1.00	39.84	A16S	ATOM	34801	O5' GUA	756	180.559	79.714	-64.004	1.00	70.88	A1
ATOM	34749	N4 CYT	753	176.169	87.817	-54.081	1.00	39.84	A16S	ATOM	34802	C5' GUA	756	179.754	79.509	-65.151	1.00	70.88	A1
ATOM	34750	C5' CYT	753	177.694	86.889	-52.528	1.00	39.84	A16S	ATOM	34803	C4' GUA	756	179.438	80.819	-65.818	1.00	70.88	A1
ATOM	34751	C2' CYT	753	177.738	82.413	-51.376	1.00	47.16	A16S	ATOM	34804	O4' GUA	756	178.604	81.643	-64.955	1.00	70.88	A1
ATOM	34752	O2' CYT	753	177.102	81.313	-50.760	1.00	47.16	A16S	ATOM	34805	C1' GUA	756	178.807	83.012	-65.291	1.00	70.88	A1
ATOM	34753	C3' CYT	753	179.236	82.413	-51.129	1.00	47.16	A16S	ATOM	34806	N9 GUA	756	179.281	83.739	-64.115	1.00	62.79	A1
ATOM	34754	O3' CYT	753	179.756	81.108	-51.249	1.00	47.16	A16S	ATOM	34807	C4 GUA	756	179.288	85.104	-63.970	1.00	62.79	A1
ATOM	34755	P GUA	754	180.446	80.679	-52.619	1.00	47.57	A16S	ATOM	34808	N3 GUA	756	178.808	85.991	-64.860	1.00	62.79	A1
ATOM	34756	O1P GUA	754	181.124	79.394	-52.342	1.00	43.74	A16S	ATOM	34809	C2 GUA	756	178.970	87.234	-64.454	1.00	62.79	A1
ATOM	34757	O2P GUA	754	181.221	81.841	-53.116	1.00	43.74	A16S	ATOM	34810	N2 GUA	756	178.532	88.238	-65.221	1.00	62.79	A1
ATOM	34758	O5' GUA	754	179.224	80.455	-53.612	1.00	47.57	A16S	ATOM	34811	N1 GUA	756	179.567	87.582	-63.271	1.00	62.79	A1
ATOM	34759	C5' GUA	754	178.341	79.354	-53.440	1.00	47.57	A16S	ATOM	34812	C6 GUA	756	180.077	86.685	-62.342	1.00	62.79	A1
ATOM	34760	C4' GUA	754	177.317	79.325	-54.551	1.00	47.57	A16S	ATOM	34813	O6 GUA	756	180.615	87.106	-61.313	1.00	62.79	A1
ATOM	34761	O4' GUA	754	176.438	80.475	-54.428	1.00	47.57	A16S	ATOM	34814	C5 GUA	756	179.894	85.343	-62.759	1.00	62.79	A1
ATOM	34762	C1' GUA	754	175.953	80.837	-55.711	1.00	47.57	A16S	ATOM	34815	N7 GUA	756	180.236	84.151	-62.136	1.00	62.79	A1
ATOM	34763	N9 GUA	754	176.247	82.247	-55.932	1.00	43.74	A16S	ATOM	34816	C8 GUA	756	179.845	83.226	-62.972	1.00	62.79	A1
ATOM	34764	C4 GUA	754	175.679	83.053	-56.880	1.00	43.74	A16S	ATOM	34817	C2' GUA	756	179.878	83.037	-66.388	1.00	70.88	A1
ATOM	34765	N3 GUA	754	174.753	82.679	-57.781	1.00	43.74	A16S	ATOM	34818	O2' GUA	756	179.270	83.038	-67.665	1.00	70.88	A1
ATOM	34766	C2 GUA	754	174.386	83.680	-58.554	1.00	43.74	A16S	ATOM	34819	C3' GUA	756	180.610	81.734	-66.107	1.00	70.88	A1
ATOM	34767	N2 GUA	754	173.472	83.481	-59.501	1.00	43.74	A16S	ATOM	34820	O3' GUA	756	181.372	81.305	-67.225	1.00	70.88	A1
ATOM	34768	N1 GUA	754	174.888	84.947	-58.455	1.00	43.74	A16S	ATOM	34821	P GUA	757	182.957	81.617	-67.281	1.00	71.60	A1
ATOM	34769	C6 GUA	754	175.855	85.352	-57.542	1.00	43.74	A16S	ATOM	34822	O1P GUA	757	183.391	80.992	-68.557	1.00	55.80	A1
ATOM	34770	O6 GUA	754	176.261	86.526	-57.545	1.00	43.74	A16S	ATOM	34823	O2P GUA	757	183.628	81.217	-66.011	1.00	55.80	A1
ATOM	34771	C5 GUA	754	176.252	84.288	-56.702	1.00	43.74	A16S	ATOM	34824	O5' GUA	757	183.043	83.204	-67.428	1.00	71.60	A1
ATOM	34772	N7 GUA	754	177.170	84.259	-55.665	1.00	43.74	A16S	ATOM	34825	C5' GUA	757	182.513	83.825	-68.586	1.00	71.60	A1
ATOM	34773	C8 GUA	754	177.134	83.027	-55.239	1.00	43.74	A16S	ATOM	34826	C4' GUA	757	182.472	85.328	-68.440	1.00	71.60	A1
ATOM	34774	C2' GUA	754	176.615	79.907	-56.729	1.00	47.57	A16S	ATOM	34827	O4' GUA	757	181.703	85.717	-67.274	1.00	71.60	A1
ATOM	34775	O2' GUA	754	175.758	78.825	-57.012	1.00	47.57	A16S	ATOM	34828	C1' GUA	757	182.029	87.062	-66.947	1.00	71.60	A1
ATOM	34776	C3' GUA	754	177.854	79.464	-55.965	1.00	47.57	A16S	ATOM	34829	N9 GUA	757	182.417	87.146	-65.543	1.00	55.80	A1
ATOM	34777	O3' GUA	754	178.385	78.249	-56.474	1.00	47.57	A16S	ATOM	34830	C4 GUA	757	182.519	88.305	-64.816	1.00	55.80	A1
ATOM	34778	P URI	755	179.581	78.306	-57.549	1.00	55.90	A16S	ATOM	34831	N3 GUA	757	182.248	89.548	-65.268	1.00	55.80	A1
ATOM	34779	O1P URI	755	180.106	76.921	-57.636	1.00	54.40	A16S	ATOM	34832	C2 GUA	757	182.458	90.469	-64.345	1.00	55.80	A1
ATOM	34780	O2P URI	755	180.498	79.417	-57.197	1.00	54.40	A16S	ATOM	34833	N2 GUA	757	182.240	91.756	-64.634	1.00	55.80	A1
ATOM	34781	O5' URI	755	178.865	78.719	-58.909	1.00	55.90	A16S	ATOM	34834	N1 GUA	757	182.898	90.193	-63.071	1.00	55.80	A1
ATOM	34782	C5' URI	755	177.992	77.819	-59.568	1.00	55.90	A16S	ATOM	34835	C6 GUA	757	183.177	88.918	-62.580	1.00	55.80	A1
ATOM	34783	C4' URI	755	177.410	78.468	-60.793	1.00	55.90	A16S	ATOM	34836	O6 GUA	757	183.559	88.776	-61.414	1.00	55.80	A1
ATOM	34784	O4' URI	755	176.537	79.555	-60.387	1.00	55.90	A16S	ATOM	34837	C5 GUA	757	182.960	87.918	-63.569	1.00	55.80	A1
ATOM	34785	C1' URI	755	176.575	80.584	-61.364	1.00	55.90	A16S	ATOM	34838	N7 GUA	757	183.121	86.539	-63.509	1.00	55.80	A1
ATOM	34786	N1 URI	755	177.105	81.794	-60.732	1.00	54.40	A16S	ATOM	34839	C8 GUA	757	182.780	86.123	-64.701	1.00	55.80	A1

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ATOM	34840	C2' GUA	757	183.206	87.450	-67.840	1.00	71.60	Al6S	ATOM	34893	O5' ADE	760	194.431	95.387	-64.856	1.00	51.57	Al
ATOM	34841	O2' GUA	757	182.740	88.116	-68.990	1.00	71.60	Al6S	ATOM	34894	C5' ADE	760	195.320	96.296	-65.474	1.00	51.57	Al
ATOM	34842	C3' GUA	757	183.759	86.085	-68.200	1.00	71.60	Al6S	ATOM	34895	C4' ADE	760	194.961	97.723	-65.131	1.00	51.57	Al
ATOM	34843	O3' GUA	757	184.537	86.215	-69.366	1.00	71.60	Al6S	ATOM	34896	O4' ADE	760	193.542	97.930	-65.330	1.00	51.57	Al
ATOM	34844	P GUA	758	186.083	86.625	-69.236	1.00	53.29	Al6S	ATOM	34897	C1' ADE	760	193.125	99.039	-64.556	1.00	51.57	Al
ATOM	34845	O1P GUA	758	186.552	86.820	-70.636	1.00	51.66	Al6S	ATOM	34898	N9 ADE	760	192.111	98.592	-63.613	1.00	45.36	Al
ATOM	34846	O2P GUA	758	186.803	85.678	-68.335	1.00	51.66	Al6S	ATOM	34899	C4 ADE	760	191.407	99.415	-62.773	1.00	45.36	Al
ATOM	34847	O5' GUA	758	186.065	88.044	-68.517	1.00	53.29	Al6S	ATOM	34900	N3 ADE	760	191.511	100.752	-62.671	1.00	45.36	Al
ATOM	34848	C5' GUA	758	185.620	89.196	-69.207	1.00	53.29	Al6S	ATOM	34901	C2 ADE	760	190.680	101.212	-61.746	1.00	45.36	Al
ATOM	34849	C4' GUA	758	185.713	90.396	-68.310	1.00	53.29	Al6S	ATOM	34902	N1 ADE	760	189.824	100.536	-60.966	1.00	45.36	Al
ATOM	34850	O4' GUA	758	184.915	90.150	-67.126	1.00	53.29	Al6S	ATOM	34903	C6 ADE	760	189.753	99.193	-61.090	1.00	45.36	Al
ATOM	34851	C1' GUA	758	185.507	90.795	-66.015	1.00	53.29	Al6S	ATOM	34904	N6 ADE	760	188.917	98.523	-60.303	1.00	45.36	Al
ATOM	34852	N9 GUA	758	185.848	89.784	-65.027	1.00	51.66	Al6S	ATOM	34905	C5 ADE	760	190.578	98.585	-62.042	1.00	45.36	Al
ATOM	34853	C4' GUA	758	186.189	90.025	-63.729	1.00	51.66	Al6S	ATOM	34906	N7 ADE	760	190.753	97.261	-62.417	1.00	45.36	Al
ATOM	34854	N3 GUA	758	186.254	91.236	-63.152	1.00	51.66	Al6S	ATOM	34907	C8 ADE	760	191.669	97.320	-63.352	1.00	45.36	Al
ATOM	34855	C2' GUA	758	186.603	91.161	-61.889	1.00	51.66	Al6S	ATOM	34908	C2' ADE	760	194.356	99.519	-63.799	1.00	51.57	Al
ATOM	34856	N2 GUA	758	186.701	92.291	-61.171	1.00	51.66	Al6S	ATOM	34909	O2' ADE	760	195.002	100.471	-64.607	1.00	51.57	Al
ATOM	34857	N1 GUA	758	186.878	89.981	-61.241	1.00	51.66	Al6S	ATOM	34910	C3' ADE	760	195.161	98.235	-63.716	1.00	51.57	Al
ATOM	34858	C6 GUA	758	186.820	88.718	-61.823	1.00	51.66	Al6S	ATOM	34911	O3' ADE	760	196.531	98.545	-63.469	1.00	51.57	Al
ATOM	34859	O6 GUA	758	187.096	87.712	-61.153	1.00	51.66	Al6S	ATOM	34912	P GUA	761	197.151	98.357	-61.991	1.00	48.47	Al
ATOM	34860	C5' GUA	758	186.434	88.793	-63.178	1.00	51.66	Al6S	ATOM	34913	O1P GUA	761	198.540	98.880	-62.022	1.00	41.40	Al
ATOM	34861	N7 GUA	758	186.244	87.791	-64.116	1.00	51.66	Al6S	ATOM	34914	O2P GUA	761	196.894	96.966	-61.519	1.00	41.40	Al
ATOM	34862	C8 GUA	758	185.899	88.427	-65.200	1.00	51.66	Al6S	ATOM	34915	O5' GUA	761	196.328	99.368	-61.084	1.00	48.47	Al
ATOM	34863	C2' GUA	758	186.743	91.525	-66.527	1.00	53.29	Al6S	ATOM	34916	C5' GUA	761	196.585	100.762	-61.125	1.00	48.47	Al
ATOM	34864	O2' GUA	758	186.369	92.830	-66.887	1.00	53.29	Al6S	ATOM	34917	C4' GUA	761	195.625	101.471	-60.212	1.00	48.47	Al
ATOM	34865	C3' GUA	758	187.089	90.684	-67.743	1.00	53.29	Al6S	ATOM	34918	O4' GUA	761	194.273	101.205	-60.681	1.00	48.47	Al
ATOM	34866	O3' GUA	758	187.888	91.406	-68.664	1.00	53.29	Al6S	ATOM	34919	C1' GUA	761	193.410	101.009	-59.579	1.00	48.47	Al
ATOM	34867	P GUA	759	189.484	91.364	-68.525	1.00	59.58	Al6S	ATOM	34920	N9 GUA	761	192.980	99.622	-59.606	1.00	41.40	Al
ATOM	34868	O1P GUA	759	189.912	89.947	-68.425	1.00	47.66	Al6S	ATOM	34921	C4' GUA	761	191.960	99.066	-58.884	1.00	41.40	Al
ATOM	34869	O2P GUA	759	190.035	92.233	-69.587	1.00	47.66	Al6S	ATOM	34922	N3 GUA	761	191.150	99.715	-58.034	1.00	41.40	Al
ATOM	34870	O5' GUA	759	189.786	92.012	-67.105	1.00	59.58	Al6S	ATOM	34923	C2' GUA	761	189.402	99.379	-57.475	1.00	41.40	Al
ATOM	34871	C5' GUA	759	189.557	93.396	-66.853	1.00	59.58	Al6S	ATOM	34924	N2 GUA	761	190.189	97.568	-57.729	1.00	41.40	Al
ATOM	34872	C4' GUA	759	189.948	93.730	-65.430	1.00	59.58	Al6S	ATOM	34925	N1 GUA	761	190.189	97.568	-57.729	1.00	41.40	Al
ATOM	34873	O4' GUA	759	189.140	92.955	-64.511	1.00	59.58	Al6S	ATOM	34926	C6 GUA	761	191.009	96.871	-58.599	1.00	41.40	Al
ATOM	34874	C1' GUA	759	189.894	92.648	-63.353	1.00	59.58	Al6S	ATOM	34927	O6 GUA	761	190.856	95.643	-58.745	1.00	41.40	Al
ATOM	34875	N9 GUA	759	189.921	91.204	-63.210	1.00	47.66	Al6S	ATOM	34928	C5 GUA	761	191.962	97.733	-59.214	1.00	41.40	Al
ATOM	34876	C4' GUA	759	190.110	90.492	-62.054	1.00	47.66	Al6S	ATOM	34929	N7 GUA	761	192.953	97.462	-60.146	1.00	41.40	Al
ATOM	34877	N3 GUA	759	190.325	91.009	-60.827	1.00	47.66	Al6S	ATOM	34930	C8 GUA	761	193.527	98.614	-60.346	1.00	41.40	Al
ATOM	34878	C2' GUA	759	190.462	90.051	-59.913	1.00	47.66	Al6S	ATOM	34931	C2' GUA	761	194.143	101.333	-58.327	1.00	48.47	Al
ATOM	34879	N2 GUA	759	190.691	90.357	-58.622	1.00	47.66	Al6S	ATOM	34932	O2' GUA	761	194.124	102.717	-58.040	1.00	48.47	Al
ATOM	34880	N1 GUA	759	190.385	88.714	-60.194	1.00	47.66	Al6S	ATOM	34933	C3' GUA	761	195.617	100.951	-58.787	1.00	48.47	Al
ATOM	34881	C6 GUA	759	190.157	88.177	-61.449	1.00	47.66	Al6S	ATOM	34934	P GUA	762	196.597	101.592	-57.997	1.00	48.47	Al
ATOM	34882	O6 GUA	759	190.092	86.961	-61.590	1.00	47.66	Al6S	ATOM	34935	C1' GUA	762	197.336	101.758	-56.844	1.00	45.74	Al
ATOM	34883	C5' GUA	759	190.019	89.171	-62.424	1.00	47.66	Al6S	ATOM	34936	O1P GUA	762	197.549	99.381	-57.365	1.00	48.55	Al
ATOM	34884	N7 GUA	759	189.785	89.055	-63.782	1.00	47.66	Al6S	ATOM	34937	O2P GUA	762	198.487	101.547	-56.346	1.00	48.55	Al
ATOM	34885	C8 GUA	759	189.266	90.286	-64.207	1.00	47.66	Al6S	ATOM	34938	O5' GUA	762	196.270	100.647	-55.666	1.00	45.74	Al
ATOM	34886	C2' GUA	759	191.266	93.285	-63.527	1.00	59.58	Al6S	ATOM	34939	C5' GUA	762	195.590	101.798	-55.145	1.00	45.74	Al
ATOM	34887	O2' GUA	759	191.194	94.560	-62.935	1.00	59.58	Al6S	ATOM	34940	C4' GUA	762	193.430	100.724	-55.202	1.00	45.74	Al
ATOM	34888	C3' GUA	759	191.370	93.373	-65.041	1.00	59.58	Al6S	ATOM	34941	O4' GUA	762	192.801	99.660	-54.517	1.00	45.74	Al
ATOM	34889	O3' GUA	759	192.206	94.449	-65.419	1.00	59.58	Al6S	ATOM	34942	C1' GUA	762	193.930	100.724	-55.202	1.00	45.74	Al
ATOM	34890	P ADE	760	193.769	94.204	-65.692	1.00	51.57	Al6S	ATOM	34943	N1 GUA	762	192.801	99.660	-54.517	1.00	45.74	Al
ATOM	34891	O1P ADE	760	194.133	92.911	-65.111	1.00	45.36	Al6S	ATOM	34944	C6 GUA	762	192.999	98.426	-55.278	1.00	48.55	Al
ATOM	34892	O2P ADE	760	193.980	94.459	-67.138	1.00	45.36	Al6S	ATOM	34945	C2 GUA	762	193.950	98.331	-56.251	1.00	48.55	Al

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ATOM	34946	O2	CYT	762	191.335	97.473	-54.108	1.00	48.55	Al6S	ATOM	34999	P	ADE	765	194.900	91.515	-42.966	1.00	39.92	Al
ATOM	34947	N3	CYT	762	192.389	96.171	-55.619	1.00	48.55	Al6S	ATOM	35000	O1P	ADE	765	194.649	91.447	-41.508	1.00	45.29	Al
ATOM	34948	C4	CYT	762	193.325	96.080	-56.555	1.00	48.55	Al6S	ATOM	35001	O2P	ADE	765	196.234	91.954	-43.448	1.00	45.29	Al
ATOM	34949	N4	CYT	762	193.472	94.916	-57.161	1.00	48.55	Al6S	ATOM	35002	O5	ADE	765	194.631	90.063	-43.543	1.00	39.92	Al
ATOM	34950	C5	CYT	762	194.146	97.184	-56.908	1.00	48.55	Al6S	ATOM	35003	C5	ADE	765	193.900	89.113	-42.798	1.00	39.92	Al
ATOM	34951	C2	CYT	762	193.399	99.569	-53.109	1.00	45.74	Al6S	ATOM	35004	C4	ADE	765	193.882	87.794	-43.528	1.00	39.92	Al
ATOM	34952	O2	CYT	762	192.544	100.183	-52.162	1.00	45.74	Al6S	ATOM	35005	O4	ADE	765	193.402	87.995	-44.886	1.00	39.92	Al
ATOM	34953	C3	CYT	762	191.720	100.301	-53.279	1.00	45.74	Al6S	ATOM	35006	C1	ADE	765	194.055	87.099	-45.762	1.00	39.92	Al
ATOM	34954	O3	CYT	762	195.099	100.944	-52.068	1.00	45.74	Al6S	ATOM	35007	N9	ADE	765	194.843	87.873	-46.720	1.00	45.29	Al
ATOM	34955	P	ADE	763	195.987	100.166	-50.986	1.00	40.78	Al6S	ATOM	35008	C4	ADE	765	195.356	87.395	-47.901	1.00	45.29	Al
ATOM	34956	O1P	ADE	763	196.039	101.040	-49.790	1.00	60.91	Al6S	ATOM	35009	N3	ADE	765	195.250	86.147	-48.389	1.00	45.29	Al
ATOM	34957	O2P	ADE	763	197.249	99.724	-51.622	1.00	60.91	Al6S	ATOM	35010	C2	ADE	765	195.841	86.056	-49.570	1.00	45.29	Al
ATOM	34958	O5	ADE	763	195.153	98.847	-50.653	1.00	40.78	Al6S	ATOM	35011	N1	ADE	765	196.480	86.994	-50.269	1.00	45.29	Al
ATOM	34959	C5	ADE	763	194.173	98.834	-49.619	1.00	40.78	Al6S	ATOM	35012	C6	ADE	765	196.580	88.234	-49.750	1.00	45.29	Al
ATOM	34960	C4	ADE	763	193.451	97.513	-49.615	1.00	40.78	Al6S	ATOM	35013	N6	ADE	765	197.229	89.168	-50.453	1.00	45.29	Al
ATOM	34961	O4	ADE	763	193.135	97.196	-50.989	1.00	40.78	Al6S	ATOM	35014	C5	ADE	765	195.990	88.465	-48.499	1.00	45.29	Al
ATOM	34962	C1	ADE	763	193.161	95.795	-51.173	1.00	40.78	Al6S	ATOM	35015	N7	ADE	765	195.896	89.598	-47.702	1.00	45.29	Al
ATOM	34963	N9	ADE	763	194.101	95.498	-52.241	1.00	60.91	Al6S	ATOM	35016	C8	ADE	765	195.212	89.193	-46.660	1.00	45.29	Al
ATOM	34964	C4	ADE	763	194.032	94.426	-53.087	1.00	60.91	Al6S	ATOM	35017	C2	ADE	765	194.909	86.205	-44.879	1.00	39.92	Al
ATOM	34965	N3	ADE	763	193.101	93.462	-53.100	1.00	60.91	Al6S	ATOM	35018	O2	ADE	765	194.071	85.186	-44.411	1.00	39.92	Al
ATOM	34966	C2	ADE	763	193.357	92.589	-54.058	1.00	60.91	Al6S	ATOM	35019	C3	ADE	765	195.229	87.149	-43.742	1.00	39.92	Al
ATOM	34967	N1	ADE	763	194.366	92.567	-54.932	1.00	60.91	Al6S	ATOM	35020	O3	ADE	765	195.595	86.422	-42.587	1.00	39.92	Al
ATOM	34968	C6	ADE	763	195.287	93.551	-54.880	1.00	60.91	Al6S	ATOM	35021	P	CYT	766	197.099	86.511	-42.052	1.00	54.43	Al
ATOM	34969	N6	ADE	763	196.306	93.529	-55.737	1.00	60.91	Al6S	ATOM	35022	O1P	CYT	766	197.241	85.521	-40.952	1.00	39.15	Al
ATOM	34970	C5	ADE	763	195.122	94.540	-53.922	1.00	60.91	Al6S	ATOM	35023	O2P	CYT	766	197.408	87.935	-41.814	1.00	39.15	Al
ATOM	34971	N7	ADE	763	195.865	95.665	-53.610	1.00	60.91	Al6S	ATOM	35024	C5	CYT	766	197.775	88.078	-43.295	1.00	54.43	Al
ATOM	34972	C8	ADE	763	195.215	96.199	-52.608	1.00	60.91	Al6S	ATOM	35025	O5	CYT	766	197.775	88.845	-43.952	1.00	54.43	Al
ATOM	34973	C2	ADE	763	193.549	95.154	-49.844	1.00	40.78	Al6S	ATOM	35026	C4	CYT	766	198.390	84.889	-45.323	1.00	54.43	Al
ATOM	34974	O2	ADE	763	192.373	94.756	-49.193	1.00	40.78	Al6S	ATOM	35027	O4	CYT	766	197.762	85.942	-46.093	1.00	54.43	Al
ATOM	34975	C3	ADE	763	194.235	96.307	-49.128	1.00	40.78	Al6S	ATOM	35028	C1	CYT	766	198.681	86.425	-47.053	1.00	54.43	Al
ATOM	34976	O3	ADE	763	194.033	96.150	-47.737	1.00	40.78	Al6S	ATOM	35029	N1	CYT	766	198.843	87.864	-46.875	1.00	39.15	Al
ATOM	34977	P	ADE	764	195.208	95.560	-46.825	1.00	40.85	Al6S	ATOM	35030	C6	CYT	766	198.372	88.513	-45.771	1.00	39.15	Al
ATOM	34978	O1P	ADE	764	195.400	96.514	-45.696	1.00	54.03	Al6S	ATOM	35031	C2	CYT	766	199.496	88.564	-47.876	1.00	39.15	Al
ATOM	34979	O2P	ADE	764	196.347	95.220	-47.712	1.00	54.03	Al6S	ATOM	35032	O2	CYT	766	199.925	87.926	-48.854	1.00	39.15	Al
ATOM	34980	O5	ADE	764	194.644	94.203	-46.218	1.00	40.85	Al6S	ATOM	35033	N3	CYT	766	199.650	89.904	-47.763	1.00	39.15	Al
ATOM	34981	C5	ADE	764	193.518	93.581	-46.768	1.00	40.85	Al6S	ATOM	35034	C4	CYT	766	199.173	90.533	-46.697	1.00	39.15	Al
ATOM	34982	C4	ADE	764	192.598	93.142	-45.667	1.00	40.85	Al6S	ATOM	35035	N4	CYT	766	199.317	91.843	-46.643	1.00	39.15	Al
ATOM	34983	O4	ADE	764	191.365	92.690	-46.276	1.00	40.85	Al6S	ATOM	35036	C5	CYT	766	198.518	89.839	-45.643	1.00	39.15	Al
ATOM	34984	C1	ADE	764	190.974	91.459	-45.705	1.00	40.85	Al6S	ATOM	35037	C2	CYT	766	199.997	85.692	-46.831	1.00	54.43	Al
ATOM	34985	N9	ADE	764	191.244	90.417	-46.683	1.00	54.03	Al6S	ATOM	35038	O2	CYT	766	200.051	84.588	-47.713	1.00	54.43	Al
ATOM	34986	C4	ADE	764	190.678	89.174	-46.701	1.00	54.03	Al6S	ATOM	35039	C3	CYT	766	199.851	85.285	-45.379	1.00	54.43	Al
ATOM	34987	N3	ADE	764	189.773	88.684	-45.839	1.00	54.03	Al6S	ATOM	35040	O3	CYT	766	200.685	84.189	-45.073	1.00	54.43	Al
ATOM	34988	C2	ADE	764	189.455	87.434	-46.162	1.00	54.03	Al6S	ATOM	35041	P	CYT	767	202.162	84.460	-44.517	1.00	47.06	Al
ATOM	34989	N1	ADE	764	189.912	86.684	-47.170	1.00	54.03	Al6S	ATOM	35042	O1P	CYT	767	202.746	83.131	-44.204	1.00	48.01	Al
ATOM	34990	C6	ADE	764	190.826	87.217	-48.013	1.00	54.03	Al6S	ATOM	35043	O2P	CYT	767	202.118	85.512	-43.463	1.00	48.01	Al
ATOM	34991	N6	ADE	764	191.295	86.470	-49.010	1.00	54.03	Al6S	ATOM	35044	O5	CYT	767	202.921	85.066	-45.772	1.00	47.06	Al
ATOM	34992	C5	ADE	764	191.234	88.527	-47.785	1.00	54.03	Al6S	ATOM	35045	C5	CYT	767	203.254	84.246	-46.873	1.00	47.06	Al
ATOM	34993	N7	ADE	764	192.128	89.355	-48.448	1.00	54.03	Al6S	ATOM	35046	C4	CYT	767	204.216	84.976	-47.755	1.00	47.06	Al
ATOM	34994	C8	ADE	764	192.097	90.462	-47.755	1.00	54.03	Al6S	ATOM	35047	O4	CYT	767	203.536	86.080	-48.405	1.00	47.06	Al
ATOM	34995	C2	ADE	764	191.782	91.300	-44.424	1.00	40.85	Al6S	ATOM	35048	C1	CYT	767	204.427	87.168	-48.540	1.00	47.06	Al
ATOM	34996	O2	ADE	764	191.077	92.006	-43.440	1.00	40.85	Al6S	ATOM	35049	N1	CYT	767	203.846	88.328	-47.858	1.00	48.01	Al
ATOM	34997	C3	ADE	764	193.089	91.982	-44.812	1.00	40.85	Al6S	ATOM	35050	C6	CYT	767	202.976	88.179	-46.820	1.00	48.01	Al
ATOM	34998	O3	ADE	764	193.792	92.451	-43.667	1.00	40.85	Al6S	ATOM	35051	C2	CYT	767	204.215	89.591	-48.286	1.00	48.01	Al

ATOM	35052	O2	CYT	767	205.018	89.682	-49.214	1.00	48.01	Al6S	ATOM	35105	C3' GUA	769	212.936	94.491	-44.337	1.00	36.94	A
ATOM	35053	N3	CYT	767	203.705	90.682	-47.669	1.00	48.01	Al6S	ATOM	35106	O3' GUA	769	214.311	94.723	-44.058	1.00	36.94	A
ATOM	35054	C4	CYT	767	202.887	90.530	-46.632	1.00	48.01	Al6S	ATOM	35107	P ADE	770	214.840	94.650	-42.543	1.00	60.08	A
ATOM	35055	N4	CYT	767	202.474	91.622	-46.000	1.00	48.01	Al6S	ATOM	35108	OLP ADE	770	216.303	94.845	-42.636	1.00	53.28	A
ATOM	35056	C5	CYT	767	202.478	89.247	-46.182	1.00	48.01	Al6S	ATOM	35109	O2P ADE	770	214.307	93.438	-41.877	1.00	53.28	A
ATOM	35057	C2' CYT	767	205.765	86.744	-47.926	1.00	47.06	Al6S	ATOM	35110	O5' ADE	770	214.197	95.922	-41.832	1.00	60.08	A	
ATOM	35058	O2' CYT	767	206.647	86.263	-48.919	1.00	47.06	Al6S	ATOM	35111	C5' ADE	770	214.584	97.229	-42.217	1.00	60.08	A	
ATOM	35059	C3' CYT	767	205.329	85.639	-46.978	1.00	47.06	Al6S	ATOM	35112	C4' ADE	770	213.576	98.253	-41.735	1.00	60.08	A	
ATOM	35060	O3' CYT	767	206.373	84.720	-46.714	1.00	47.06	Al6S	ATOM	35113	O4' ADE	770	212.239	97.845	-42.127	1.00	60.08	A	
ATOM	35061	P GUA	768	207.553	85.138	-45.711	1.00	48.98	Al6S	ATOM	35114	C1' ADE	770	211.302	98.441	-41.253	1.00	60.08	A	
ATOM	35062	OLP GUA	768	208.540	84.029	-45.709	1.00	53.29	Al6S	ATOM	35115	N9 ADE	770	210.489	97.397	-40.653	1.00	53.28	A	
ATOM	35063	O2P GUA	768	206.970	85.593	-44.416	1.00	53.29	Al6S	ATOM	35116	C4 ADE	770	209.358	97.617	-39.914	1.00	53.28	A	
ATOM	35064	O5' GUA	768	208.210	86.391	-46.435	1.00	48.98	Al6S	ATOM	35117	N3 ADE	770	208.815	98.804	-39.602	1.00	53.28	A	
ATOM	35065	C5' GUA	768	208.867	87.396	-45.692	1.00	48.98	Al6S	ATOM	35118	C2 ADE	770	207.698	98.625	-38.899	1.00	53.28	A	
ATOM	35066	C4' GUA	768	209.253	88.523	-46.600	1.00	48.98	Al6S	ATOM	35119	N1 ADE	770	207.112	97.481	-38.511	1.00	53.28	A	
ATOM	35067	O4' GUA	768	208.067	89.069	-47.226	1.00	48.98	Al6S	ATOM	35120	C6 ADE	770	207.693	96.313	-38.851	1.00	53.28	A	
ATOM	35068	C1' GUA	768	208.233	90.470	-47.424	1.00	48.98	Al6S	ATOM	35121	N6 ADE	770	207.109	95.176	-38.489	1.00	53.28	A	
ATOM	35069	N9 GUA	768	207.207	91.173	-46.663	1.00	53.29	Al6S	ATOM	35122	C5 ADE	770	208.879	96.367	-39.580	1.00	53.28	A	
ATOM	35070	C4 GUA	768	207.074	92.533	-46.545	1.00	53.29	Al6S	ATOM	35123	N7 ADE	770	209.708	95.376	-40.077	1.00	53.28	A	
ATOM	35071	N3 GUA	768	207.850	93.463	-47.140	1.00	53.29	Al6S	ATOM	35124	C8 ADE	770	210.649	96.040	-40.703	1.00	53.28	A	
ATOM	35072	C2 GUA	768	207.491	94.694	-46.807	1.00	53.29	Al6S	ATOM	35125	C2 ADE	770	212.088	99.216	-40.203	1.00	60.08	A	
ATOM	35073	N2 GUA	768	208.160	95.742	-47.289	1.00	53.29	Al6S	ATOM	35126	O2' ADE	770	212.183	98.549	-40.652	1.00	60.08	A	
ATOM	35074	N1 GUA	768	206.452	94.982	-45.969	1.00	53.29	Al6S	ATOM	35127	C3' ADE	770	213.428	98.497	-40.242	1.00	60.08	A	
ATOM	35075	C6 GUA	768	205.652	94.035	-45.340	1.00	53.29	Al6S	ATOM	35128	O3' ADE	770	214.437	99.374	-39.766	1.00	60.08	A	
ATOM	35076	O6 GUA	768	204.761	94.395	-44.575	1.00	53.29	Al6S	ATOM	35129	P URI	771	214.873	99.325	-38.221	1.00	63.59	A	
ATOM	35077	C5 GUA	768	206.022	92.722	-45.688	1.00	53.29	Al6S	ATOM	35130	OLP URI	771	215.884	100.390	-37.992	1.00	47.43	A	
ATOM	35078	N7 GUA	768	205.487	91.507	-45.290	1.00	53.29	Al6S	ATOM	35131	O2P URI	771	215.182	97.919	-37.880	1.00	47.43	A	
ATOM	35079	C8 GUA	768	206.217	90.829	-45.899	1.00	53.29	Al6S	ATOM	35132	O5' URI	771	213.570	99.746	-37.413	1.00	63.59	A	
ATOM	35080	O2' GUA	768	209.625	90.829	-46.900	1.00	48.98	Al6S	ATOM	35133	C5' URI	771	213.152	101.105	-37.369	1.00	63.59	A	
ATOM	35081	C2' GUA	768	210.547	90.841	-47.964	1.00	48.98	Al6S	ATOM	35134	C4' URI	771	211.912	101.236	-36.523	1.00	63.59	A	
ATOM	35082	O3' GUA	768	209.861	89.710	-45.899	1.00	48.98	Al6S	ATOM	35135	O4' URI	771	210.861	100.423	-37.102	1.00	63.59	A	
ATOM	35083	C3' GUA	768	211.225	89.481	-45.686	1.00	48.98	Al6S	ATOM	35136	C1' URI	771	210.005	99.959	-36.074	1.00	63.59	A	
ATOM	35084	P GUA	769	211.917	90.042	-44.362	1.00	36.94	Al6S	ATOM	35137	N1 URI	771	209.968	98.493	-36.128	1.00	47.43	A	
ATOM	35085	OLP GUA	769	213.305	89.514	-44.416	1.00	43.62	Al6S	ATOM	35138	C6 URI	771	210.875	97.772	-36.877	1.00	47.43	A	
ATOM	35086	O2P GUA	769	211.056	89.704	-43.200	1.00	43.62	Al6S	ATOM	35139	C2 URI	771	208.980	97.857	-35.401	1.00	47.43	A	
ATOM	35087	O5' GUA	769	211.954	91.624	-44.583	1.00	36.94	Al6S	ATOM	35140	O2 URI	771	208.173	98.471	-34.729	1.00	47.43	A	
ATOM	35088	C5' GUA	769	212.872	92.178	-45.508	1.00	36.94	Al6S	ATOM	35141	N3 URI	771	208.980	96.480	-35.495	1.00	47.43	A	
ATOM	35089	O4' GUA	769	212.723	93.669	-45.596	1.00	36.94	Al6S	ATOM	35142	C4 URI	771	209.860	95.639	-36.230	1.00	47.43	A	
ATOM	35090	C4' GUA	769	211.358	93.982	-45.956	1.00	36.94	Al6S	ATOM	35143	O4 URI	771	209.771	94.473	-36.182	1.00	47.43	A	
ATOM	35091	C1' GUA	769	211.016	95.263	-45.441	1.00	36.94	Al6S	ATOM	35144	C5 URI	771	210.852	96.433	-36.950	1.00	47.43	A	
ATOM	35092	N9 GUA	769	209.905	95.105	-44.509	1.00	43.62	Al6S	ATOM	35145	C2' URI	771	210.550	100.499	-34.752	1.00	63.59	A	
ATOM	35093	C4 GUA	769	209.174	96.116	-43.936	1.00	43.62	Al6S	ATOM	35146	O2' URI	771	209.914	101.726	-34.444	1.00	63.59	A	
ATOM	35094	N3 GUA	769	209.364	97.435	-44.131	1.00	43.62	Al6S	ATOM	35147	C3' URI	771	212.014	100.707	-35.103	1.00	63.59	A	
ATOM	35095	C2 GUA	769	208.496	98.159	-43.466	1.00	43.62	Al6S	ATOM	35148	O3' URI	771	212.604	101.660	-34.230	1.00	63.59	A	
ATOM	35096	N2 GUA	769	208.544	99.491	-43.560	1.00	43.62	Al6S	ATOM	35149	P URI	772	213.472	101.152	-32.978	1.00	59.72	A	
ATOM	35097	N1 GUA	769	207.518	97.631	-42.668	1.00	43.62	Al6S	ATOM	35150	OLP URI	772	213.831	102.363	-32.200	1.00	50.57	A	
ATOM	35098	C6 GUA	769	207.303	96.275	-42.460	1.00	43.62	Al6S	ATOM	35151	O2P URI	772	214.542	100.257	-33.476	1.00	50.57	A	
ATOM	35099	O6 GUA	769	206.379	95.903	-41.746	1.00	43.62	Al6S	ATOM	35152	O5' URI	772	212.469	100.236	-32.139	1.00	59.72	A	
ATOM	35100	C5 GUA	769	208.230	95.491	-43.158	1.00	43.62	Al6S	ATOM	35153	C5' URI	772	211.403	100.810	-31.389	1.00	59.72	A	
ATOM	35101	N7 GUA	769	208.371	94.113	-43.224	1.00	43.62	Al6S	ATOM	35154	C4' URI	772	210.606	99.737	-30.688	1.00	59.72	A	
ATOM	35102	C8 GUA	769	209.377	93.930	-44.035	1.00	43.62	Al6S	ATOM	35155	O4' URI	772	209.916	98.917	-31.660	1.00	59.72	A	
ATOM	35103	C2' GUA	769	212.262	95.792	-44.735	1.00	36.94	Al6S	ATOM	35156	C1' URI	772	209.810	97.593	-31.173	1.00	59.72	A	
ATOM	35104	O2' GUA	769	213.043	96.508	-45.665	1.00	36.94	Al6S	ATOM	35157	N1 URI	772	210.487	96.703	-32.125	1.00	50.57	A	

ATOM	35158	C6	URI	772	211.469	97.175	-32.962	1.00	50.57	Al6s	ATOM	35211	O2'	GUA	774	207.190	90.124	-29.703	1.00	55.30	Al
ATOM	35159	C2	URI	772	210.115	95.377	-32.141	1.00	50.57	Al6s	ATOM	35212	C3'	GUA	774	209.116	91.452	-30.433	1.00	55.30	Al
ATOM	35160	O2	URI	772	209.231	94.930	-31.444	1.00	50.57	Al6s	ATOM	35213	O3'	GUA	774	209.268	90.484	-31.441	1.00	55.30	Al
ATOM	35161	N3	URI	772	210.817	94.566	-33.012	1.00	50.57	Al6s	ATOM	35214	P	ADE	775	209.246	90.943	-32.957	1.00	70.42	Al
ATOM	35162	C4	URI	772	211.811	95.005	-33.869	1.00	50.57	Al6s	ATOM	35215	O1P	ADE	775	209.170	89.692	-33.736	1.00	50.11	Al
ATOM	35163	O4	URI	772	212.303	94.191	-34.647	1.00	50.57	Al6s	ATOM	35216	O2P	ADE	775	210.312	91.937	-33.229	1.00	50.11	Al
ATOM	35164	C5	URI	772	212.122	96.395	-33.809	1.00	50.57	Al6s	ATOM	35217	O5'	ADE	775	207.853	91.673	-33.064	1.00	70.42	Al
ATOM	35165	C2'	URI	772	210.448	97.561	-29.780	1.00	59.72	Al6s	ATOM	35218	C5'	ADE	775	206.665	90.923	-33.046	1.00	70.42	Al
ATOM	35166	O2'	URI	772	209.439	97.705	-28.811	1.00	59.72	Al6s	ATOM	35219	C4'	ADE	775	205.526	91.812	-33.401	1.00	70.42	Al
ATOM	35167	C3'	URI	772	211.599	99.325	-28.548	1.00	59.72	Al6s	ATOM	35220	O4'	ADE	775	205.298	92.726	-32.322	1.00	70.42	Al
ATOM	35169	P	ADE	773	212.940	98.992	-27.719	1.00	58.62	Al6s	ATOM	35221	C1'	ADE	775	204.615	93.828	-32.838	1.00	70.42	Al
ATOM	35170	O1P	ADE	773	212.852	99.759	-26.447	1.00	69.77	Al6s	ATOM	35222	N9	ADE	775	204.786	94.987	-31.961	1.00	50.11	Al
ATOM	35171	O2P	ADE	773	214.124	99.171	-28.597	1.00	69.77	Al6s	ATOM	35223	C4	ADE	775	203.718	95.698	-31.474	1.00	50.11	Al
ATOM	35172	O5'	ADE	773	212.794	97.447	-27.382	1.00	58.62	Al6s	ATOM	35224	N3	ADE	775	202.419	95.504	-31.763	1.00	50.11	Al
ATOM	35173	C5'	ADE	773	213.931	96.684	-27.037	1.00	58.62	Al6s	ATOM	35225	C2	ADE	775	201.665	96.350	-31.096	1.00	50.11	Al
ATOM	35174	C4'	ADE	773	213.499	95.392	-26.418	1.00	58.62	Al6s	ATOM	35226	N1	ADE	775	202.023	97.303	-30.232	1.00	50.11	Al
ATOM	35175	O4'	ADE	773	212.822	95.680	-25.172	1.00	58.62	Al6s	ATOM	35227	C6	ADE	775	203.335	97.480	-29.963	1.00	50.11	Al
ATOM	35176	C1'	ADE	773	211.689	94.841	-25.040	1.00	69.77	Al6s	ATOM	35228	N6	ADE	775	203.686	98.437	-29.096	1.00	50.11	Al
ATOM	35177	N9	ADE	773	210.500	95.694	-25.048	1.00	69.77	Al6s	ATOM	35229	C5	ADE	775	204.249	96.638	-30.617	1.00	50.11	Al
ATOM	35178	C4	ADE	773	209.295	95.428	-24.451	1.00	69.77	Al6s	ATOM	35230	N7	ADE	775	205.632	96.550	-30.588	1.00	50.11	Al
ATOM	35179	N3	ADE	773	208.961	94.342	-23.744	1.00	69.77	Al6s	ATOM	35231	C8	ADE	775	205.900	95.563	-31.411	1.00	50.11	Al
ATOM	35180	C2	ADE	773	207.698	94.429	-23.326	1.00	69.77	Al6s	ATOM	35232	O2'	ADE	775	204.862	93.879	-34.356	1.00	70.42	Al
ATOM	35181	N1	ADE	773	206.806	95.402	-23.518	1.00	69.77	Al6s	ATOM	35233	C2'	ADE	775	203.562	93.610	-34.924	1.00	70.42	Al
ATOM	35182	C6	ADE	773	207.181	96.481	-24.229	1.00	69.77	Al6s	ATOM	35234	C3'	ADE	775	205.784	92.717	-34.592	1.00	70.42	Al
ATOM	35183	N6	ADE	773	206.298	97.457	-24.414	1.00	69.77	Al6s	ATOM	35235	O3'	ADE	775	205.563	91.899	-35.750	1.00	70.42	Al
ATOM	35184	C5	ADE	773	208.487	96.511	-24.731	1.00	69.77	Al6s	ATOM	35236	P	URI	776	204.613	92.380	-36.964	1.00	57.38	Al
ATOM	35185	N7	ADE	773	209.171	97.449	-25.487	1.00	69.77	Al6s	ATOM	35237	O1P	URI	776	205.042	91.546	-38.118	1.00	69.15	Al
ATOM	35186	C8	ADE	773	210.357	96.918	-25.646	1.00	69.77	Al6s	ATOM	35238	O2P	URI	776	204.594	93.861	-37.108	1.00	69.15	Al
ATOM	35187	C2'	ADE	773	211.748	93.826	-26.185	1.00	58.62	Al6s	ATOM	35239	O5'	URI	776	203.166	91.841	-36.559	1.00	57.38	Al
ATOM	35188	O2'	ADE	773	212.473	92.693	-25.751	1.00	58.62	Al6s	ATOM	35240	C5'	URI	776	203.025	89.798	-35.930	1.00	57.38	Al
ATOM	35189	C3'	ADE	773	212.495	94.619	-27.251	1.00	58.62	Al6s	ATOM	35241	C4'	URI	776	202.007	89.798	-35.930	1.00	57.38	Al
ATOM	35190	O3'	ADE	773	213.205	93.776	-28.153	1.00	58.62	Al6s	ATOM	35242	O4'	URI	776	202.178	88.662	-35.072	1.00	57.38	Al
ATOM	35191	P	GUA	774	212.816	93.754	-29.714	1.00	55.30	Al6s	ATOM	35243	C1'	URI	776	200.970	87.967	-34.977	1.00	57.38	Al
ATOM	35192	O1P	GUA	774	213.793	92.870	-30.397	1.00	51.19	Al6s	ATOM	35244	N1	URI	776	200.925	87.324	-33.664	1.00	69.15	Al
ATOM	35193	O2P	GUA	774	212.642	95.148	-30.184	1.00	51.19	Al6s	ATOM	35245	C6	URI	776	201.139	88.015	-32.506	1.00	69.15	Al
ATOM	35194	O5'	GUA	774	211.443	92.954	-29.739	1.00	55.30	Al6s	ATOM	35246	C2	URI	776	200.694	85.976	-33.657	1.00	69.15	Al
ATOM	35195	C5'	GUA	774	211.425	91.576	-29.393	1.00	55.30	Al6s	ATOM	35247	O2	URI	776	200.454	85.352	-34.676	1.00	69.15	Al
ATOM	35196	C4'	GUA	774	210.009	91.089	-29.269	1.00	55.30	Al6s	ATOM	35248	N3	URI	776	200.750	86.004	-32.424	1.00	69.15	Al
ATOM	35197	O4'	GUA	774	209.377	91.715	-28.132	1.00	55.30	Al6s	ATOM	35249	O4	URI	776	201.002	85.337	-30.190	1.00	69.15	Al
ATOM	35198	C1'	GUA	774	208.011	91.955	-28.418	1.00	55.30	Al6s	ATOM	35250	C4	URI	776	201.180	87.418	-31.313	1.00	69.15	Al
ATOM	35199	N9	GUA	774	207.783	93.384	-28.309	1.00	51.19	Al6s	ATOM	35251	C5	URI	776	199.820	88.887	-35.398	1.00	57.38	Al
ATOM	35200	C4	GUA	774	206.668	93.981	-27.805	1.00	51.19	Al6s	ATOM	35252	C2'	URI	776	199.061	88.290	-36.431	1.00	57.38	Al
ATOM	35201	N3	GUA	774	205.585	93.342	-27.328	1.00	51.19	Al6s	ATOM	35253	O2'	URI	776	200.533	90.170	-35.845	1.00	57.38	Al
ATOM	35202	C2	GUA	774	204.664	94.178	-26.917	1.00	51.19	Al6s	ATOM	35254	O3'	URI	776	200.095	90.450	-37.171	1.00	57.38	Al
ATOM	35203	N2	GUA	774	203.525	93.693	-26.417	1.00	51.19	Al6s	ATOM	35255	P	ADE	777	199.061	91.634	-37.441	1.00	48.23	Al
ATOM	35204	N1	GUA	774	204.799	95.544	-26.970	1.00	51.19	Al6s	ATOM	35256	O1P	ADE	777	198.022	91.483	-36.387	1.00	57.02	Al
ATOM	35205	C6	GUA	774	205.914	96.218	-27.460	1.00	51.19	Al6s	ATOM	35257	O2P	ADE	777	198.651	91.667	-38.878	1.00	57.02	Al
ATOM	35206	O6	GUA	774	205.942	97.450	-27.470	1.00	51.19	Al6s	ATOM	35258	O5'	ADE	777	199.915	92.922	-37.082	1.00	48.23	Al
ATOM	35207	C5	GUA	774	206.901	95.328	-27.901	1.00	51.19	Al6s	ATOM	35259	C5'	ADE	777	199.929	94.052	-37.923	1.00	48.23	Al
ATOM	35208	N7	GUA	774	208.147	95.573	-28.458	1.00	51.19	Al6s	ATOM	35260	C4'	ADE	777	199.423	95.244	-37.167	1.00	48.23	Al
ATOM	35209	C8	GUA	774	208.633	94.388	-28.683	1.00	51.19	Al6s	ATOM	35261	O4'	ADE	777	199.939	95.218	-35.817	1.00	48.23	Al
ATOM	35210	C2'	GUA	774	207.726	91.420	-29.817	1.00	55.30	Al6s	ATOM	35262	C1'	ADE	777	200.088	96.546	-35.352	1.00	48.23	Al

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ATOM	35264	N9	ADE	777	201.467	96.732	-34.926	1.00	57.02	Al6S	ATOM	35317	O3' CYT	779	203.238	104.611	-44.304	1.00	42.58	Al
ATOM	35265	C4	ADE	777	201.935	97.727	-34.105	1.00	57.02	Al6S	ATOM	35318	P CYT	780	202.952	103.971	-45.751	1.00	49.14	Al
ATOM	35266	N3	ADE	777	201.225	98.701	-33.521	1.00	57.02	Al6S	ATOM	35319	O1P CYT	780	202.766	105.085	-46.708	1.00	40.09	Al
ATOM	35267	C2	ADE	777	202.019	99.501	-32.821	1.00	57.02	Al6S	ATOM	35320	O2P CYT	780	201.912	102.920	-45.631	1.00	40.09	Al
ATOM	35268	N1	ADE	777	203.339	99.442	-32.650	1.00	57.02	Al6S	ATOM	35321	O5' CYT	780	204.313	103.231	-46.118	1.00	49.14	Al
ATOM	35269	C6	ADE	777	204.019	98.447	-33.251	1.00	57.02	Al6S	ATOM	35322	C5' CYT	780	205.446	103.954	-46.582	1.00	49.14	Al
ATOM	35270	N6	ADE	777	205.335	98.380	-33.081	1.00	57.02	Al6S	ATOM	35323	C4' CYT	780	206.473	102.993	-47.122	1.00	49.14	Al
ATOM	35271	C5	ADE	777	203.293	97.536	-34.023	1.00	57.02	Al6S	ATOM	35324	O4' CYT	780	206.896	102.093	-46.058	1.00	49.14	Al
ATOM	35272	N7	ADE	777	203.673	96.434	-34.767	1.00	57.02	Al6S	ATOM	35325	C1' CYT	780	207.201	100.821	-46.604	1.00	49.14	Al
ATOM	35273	C8	ADE	777	202.549	95.994	-35.274	1.00	57.02	Al6S	ATOM	35326	N1 CYT	780	206.341	99.831	-45.961	1.00	40.09	Al
ATOM	35274	C2' ADE	777	199.732	97.486	-36.507	1.00	48.23	Al6S	ATOM	35327	C6 CYT	780	205.278	100.214	-45.202	1.00	40.09	Al	
ATOM	35275	O2' ADE	777	198.413	97.958	-36.365	1.00	48.23	Al6S	ATOM	35328	C2 CYT	780	206.635	98.483	-46.130	1.00	40.09	Al	
ATOM	35276	C3' ADE	777	199.906	96.570	-37.704	1.00	48.23	Al6S	ATOM	35329	O2 CYT	780	207.586	98.173	-46.845	1.00	40.09	Al	
ATOM	35277	O3' ADE	777	199.118	96.967	-38.798	1.00	48.23	Al6S	ATOM	35330	N3 CYT	780	205.873	97.547	-45.517	1.00	40.09	Al	
ATOM	35278	P CYT	778	199.836	97.560	-40.100	1.00	46.83	Al6S	ATOM	35331	C4 CYT	780	204.850	97.929	-44.761	1.00	40.09	Al	
ATOM	35279	O1P CYT	778	198.921	97.263	-41.240	1.00	58.37	Al6S	ATOM	35332	N4 CYT	780	204.145	96.988	-44.152	1.00	40.09	Al	
ATOM	35280	O2P CYT	778	201.247	97.082	-40.130	1.00	58.37	Al6S	ATOM	35333	C5 CYT	780	204.512	99.304	-44.589	1.00	40.09	Al	
ATOM	35281	O5' CYT	778	199.867	99.136	-39.843	1.00	46.83	Al6S	ATOM	35334	C2' CYT	780	206.974	100.911	-48.110	1.00	49.14	Al	
ATOM	35282	C5' CYT	778	199.867	99.136	-39.843	1.00	46.83	Al6S	ATOM	35335	O2' CYT	780	208.175	101.280	-48.747	1.00	49.14	Al	
ATOM	35283	C4' CYT	778	199.007	100.958	-38.547	1.00	46.83	Al6S	ATOM	35336	C3' CYT	780	205.962	102.038	-48.185	1.00	49.14	Al	
ATOM	35284	O4' CYT	778	199.600	100.416	-37.353	1.00	46.83	Al6S	ATOM	35337	O3' CYT	780	205.961	102.620	-49.473	1.00	49.14	Al	
ATOM	35285	C1' CYT	778	200.513	101.349	-36.818	1.00	46.83	Al6S	ATOM	35338	P GUA	781	205.078	101.944	-50.624	1.00	42.82	Al	
ATOM	35286	N1 CYT	778	201.806	100.689	-36.652	1.00	58.37	Al6S	ATOM	35339	O1P GUA	781	205.148	102.802	-51.832	1.00	47.40	Al	
ATOM	35287	C6 CYT	778	202.124	99.575	-37.370	1.00	58.37	Al6S	ATOM	35340	O2P GUA	781	203.753	101.639	-50.022	1.00	47.40	Al	
ATOM	35288	C2 CYT	778	202.714	101.233	-35.753	1.00	58.37	Al6S	ATOM	35341	O5' GUA	781	205.812	100.555	-50.917	1.00	42.82	Al	
ATOM	35289	O2 CYT	778	202.379	102.235	-35.098	1.00	58.37	Al6S	ATOM	35342	C5' GUA	781	207.142	100.519	-51.440	1.00	42.82	Al	
ATOM	35290	N3 CYT	778	203.929	100.659	-35.613	1.00	58.37	Al6S	ATOM	35343	O4' GUA	781	207.557	99.096	-51.748	1.00	42.82	Al	
ATOM	35291	C4 CYT	778	204.238	99.579	-36.332	1.00	58.37	Al6S	ATOM	35344	C4' GUA	781	207.726	99.332	-50.525	1.00	42.82	Al	
ATOM	35292	N4 CYT	778	205.453	99.054	-36.179	1.00	58.37	Al6S	ATOM	35345	C1' GUA	781	207.351	96.980	-50.751	1.00	42.82	Al	
ATOM	35293	C5 CYT	778	203.317	98.993	-37.242	1.00	58.37	Al6S	ATOM	35346	N9 GUA	781	206.260	96.651	-49.843	1.00	47.40	Al	
ATOM	35294	C2' CYT	778	200.601	102.524	-37.789	1.00	46.83	Al6S	ATOM	35347	C4 GUA	781	205.775	95.395	-49.553	1.00	47.40	Al	
ATOM	35295	O2' CYT	778	199.852	103.633	-37.327	1.00	46.83	Al6S	ATOM	35348	N3 GUA	781	206.232	94.231	-50.049	1.00	47.40	Al	
ATOM	35296	C3' CYT	778	200.052	101.910	-39.064	1.00	46.83	Al6S	ATOM	35349	C2 GUA	781	205.557	93.198	-49.571	1.00	47.40	Al	
ATOM	35297	O3' CYT	778	199.441	102.893	-39.870	1.00	46.83	Al6S	ATOM	35350	N2 GUA	781	205.878	91.965	-49.926	1.00	47.40	Al	
ATOM	35298	P CYT	779	199.699	102.871	-41.437	1.00	42.58	Al6S	ATOM	35351	N1 GUA	781	204.515	93.296	-48.696	1.00	47.40	Al	
ATOM	35299	O1P CYT	779	199.056	104.042	-42.055	1.00	35.52	Al6S	ATOM	35352	C6 GUA	781	204.022	94.483	-48.179	1.00	47.40	Al	
ATOM	35300	O2P CYT	779	199.334	101.513	-41.873	1.00	35.52	Al6S	ATOM	35353	O6 GUA	781	203.062	94.461	-47.397	1.00	47.40	Al	
ATOM	35301	O5' CYT	779	201.807	104.395	-41.402	1.00	42.58	Al6S	ATOM	35354	C5 GUA	781	204.741	95.600	-48.667	1.00	47.40	Al	
ATOM	35302	C5' CYT	779	203.237	104.429	-41.874	1.00	42.58	Al6S	ATOM	35355	N7 GUA	781	204.582	97.950	-48.403	1.00	47.40	Al	
ATOM	35303	C4' CYT	779	204.064	103.703	-40.932	1.00	42.58	Al6S	ATOM	35356	C8 GUA	781	205.504	97.534	-49.122	1.00	47.40	Al	
ATOM	35304	O4' CYT	779	205.069	102.999	-41.634	1.00	42.58	Al6S	ATOM	35357	C2' GUA	781	206.920	96.863	-52.211	1.00	42.82	Al	
ATOM	35305	C1' CYT	779	204.814	101.567	-41.468	1.00	35.52	Al6S	ATOM	35358	O2' GUA	781	207.975	96.333	-52.977	1.00	42.82	Al	
ATOM	35306	N1 CYT	779	203.610	101.115	-41.010	1.00	35.52	Al6S	ATOM	35359	C3' GUA	781	206.538	98.302	-52.531	1.00	42.82	Al	
ATOM	35307	C6 CYT	779	205.831	100.678	-41.766	1.00	35.52	Al6S	ATOM	35360	O3' GUA	781	206.599	98.611	-53.913	1.00	42.82	Al	
ATOM	35308	C2 CYT	779	206.892	101.124	-42.232	1.00	35.52	Al6S	ATOM	35361	P GUA	782	205.366	98.200	-54.866	1.00	43.84	Al	
ATOM	35309	O2 CYT	779	205.636	99.358	-41.553	1.00	35.52	Al6S	ATOM	35362	O1P GUA	782	205.821	98.381	-56.278	1.00	47.79	Al	
ATOM	35310	N3 CYT	779	204.465	98.925	-41.092	1.00	35.52	Al6S	ATOM	35363	O2P GUA	782	204.151	98.921	-54.398	1.00	47.79	Al	
ATOM	35311	C4 CYT	779	204.315	97.619	-40.898	1.00	35.52	Al6S	ATOM	35364	O5' GUA	782	205.229	96.638	-54.565	1.00	43.84	Al	
ATOM	35312	N4 CYT	779	203.394	99.813	-40.811	1.00	35.52	Al6S	ATOM	35365	C5' GUA	782	204.254	95.839	-55.195	1.00	43.84	Al	
ATOM	35313	C5 CYT	779	204.994	103.458	-43.082	1.00	42.58	Al6S	ATOM	35366	C4' GUA	782	204.507	94.386	-54.892	1.00	43.84	Al	
ATOM	35314	C2' CYT	779	205.744	104.643	-43.174	1.00	42.58	Al6S	ATOM	35367	O4' GUA	782	204.824	94.224	-53.490	1.00	43.84	Al	
ATOM	35315	O2' CYT	779	203.511	103.752	-43.205	1.00	42.58	Al6S	ATOM	35368	C1' GUA	782	204.211	93.048	-52.986	1.00	43.84	Al	
ATOM	35316	C3' CYT	779	203.511	103.752	-43.205	1.00	42.58	Al6S	ATOM	35369	N9 GUA	782	203.256	93.432	-51.949	1.00	47.79	Al	

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ATOM	35370	C4	GUA	782	202.492	92.584	-51.184	1.00	47.79	Al6S	ATOM	35423	C2' URI	784	193.266	86.513	-54.162	1.00	47.99	A
ATOM	35371	N3	GUA	782	202.502	91.241	-51.244	1.00	47.79	Al6S	ATOM	35424	O2' URI	784	193.004	85.132	-54.217	1.00	47.99	A
ATOM	35372	C2	GUA	782	201.669	90.704	-50.376	1.00	47.79	Al6S	ATOM	35425	C3' URI	784	193.665	87.087	-55.508	1.00	47.99	A
ATOM	35373	N2	GUA	782	201.552	89.376	-50.304	1.00	47.79	Al6S	ATOM	35426	O3' URI	784	192.840	86.605	-56.539	1.00	47.99	A
ATOM	35374	N1	GUA	782	200.887	91.431	-49.515	1.00	47.79	Al6S	ATOM	35427	P ADE	785	191.578	87.475	-56.991	1.00	49.37	A
ATOM	35375	C6	GUA	782	200.858	92.820	-49.443	1.00	47.79	Al6S	ATOM	35428	O1P ADE	785	191.072	86.859	-58.248	1.00	38.47	A
ATOM	35376	O6	GUA	782	200.117	93.380	-48.639	1.00	47.79	Al6S	ATOM	35429	O2P ADE	785	191.951	88.915	-56.980	1.00	38.47	A
ATOM	35377	C5	GUA	782	201.744	93.404	-50.367	1.00	47.79	Al6S	ATOM	35430	O5' ADE	785	190.526	87.193	-55.830	1.00	49.37	A
ATOM	35378	N7	GUA	782	202.027	94.737	-50.613	1.00	47.79	Al6S	ATOM	35431	C5' ADE	785	190.079	85.862	-55.564	1.00	49.37	A
ATOM	35379	C8	GUA	782	202.931	94.707	-51.554	1.00	47.79	Al6S	ATOM	35432	C4' ADE	785	189.248	85.819	-54.297	1.00	49.37	A
ATOM	35380	C2'	GUA	782	203.518	92.364	-54.161	1.00	43.84	Al6S	ATOM	35433	O4' ADE	785	190.069	86.167	-53.148	1.00	49.37	A
ATOM	35381	O2'	GUA	782	204.344	91.378	-54.714	1.00	43.84	Al6S	ATOM	35434	C1' ADE	785	189.326	86.967	-52.251	1.00	49.37	A
ATOM	35382	C3'	GUA	782	203.276	93.538	-55.088	1.00	43.84	Al6S	ATOM	35435	N9 ADE	785	189.929	88.299	-52.241	1.00	38.47	A
ATOM	35383	O3'	GUA	782	203.145	93.161	-56.433	1.00	43.84	Al6S	ATOM	35436	C4 ADE	785	189.769	89.284	-51.293	1.00	38.47	A
ATOM	35384	P	GUA	783	201.689	93.097	-57.088	1.00	45.84	Al6S	ATOM	35437	N3 ADE	785	189.029	89.229	-50.171	1.00	38.47	A
ATOM	35385	O1P	GUA	783	201.862	92.327	-58.344	1.00	42.54	Al6S	ATOM	35438	C2 ADE	785	189.124	90.367	-49.499	1.00	38.47	A
ATOM	35386	O2P	GUA	783	201.122	94.467	-57.135	1.00	42.54	Al6S	ATOM	35439	N1 ADE	785	189.814	91.478	-49.800	1.00	38.47	A
ATOM	35387	O5'	GUA	783	200.889	92.155	-56.091	1.00	45.84	Al6S	ATOM	35440	C6 ADE	785	190.535	91.505	-50.939	1.00	38.47	A
ATOM	35388	C5'	GUA	783	201.254	90.790	-55.983	1.00	45.84	Al6S	ATOM	35441	N6 ADE	785	191.203	92.618	-51.249	1.00	38.47	A
ATOM	35389	C4'	GUA	783	200.350	90.074	-55.018	1.00	45.84	Al6S	ATOM	35442	C5 ADE	785	190.532	90.355	-51.734	1.00	38.47	A
ATOM	35390	O4'	GUA	783	200.586	90.566	-53.675	1.00	45.84	Al6S	ATOM	35443	N7 ADE	785	191.166	90.050	-52.927	1.00	38.47	A
ATOM	35391	C1'	GUA	783	199.356	90.701	-53.001	1.00	45.84	Al6S	ATOM	35444	C8 ADE	785	190.778	88.825	-53.185	1.00	38.47	A
ATOM	35392	N9	GUA	783	199.154	92.129	-52.784	1.00	42.54	Al6S	ATOM	35445	C2' ADE	785	187.883	86.953	-52.750	1.00	49.37	A
ATOM	35393	C4	GUA	783	198.489	92.712	-51.740	1.00	42.54	Al6S	ATOM	35446	O2' ADE	785	187.229	85.837	-52.198	1.00	49.37	A
ATOM	35394	N3	GUA	783	197.886	92.059	-50.729	1.00	42.54	Al6S	ATOM	35447	C3' ADE	785	188.075	86.780	-54.249	1.00	49.37	A
ATOM	35395	C2	GUA	783	197.356	92.886	-49.858	1.00	42.54	Al6S	ATOM	35448	O3' ADE	785	186.931	86.163	-54.835	1.00	49.37	A
ATOM	35396	N2	GUA	783	196.720	92.395	-48.784	1.00	42.54	Al6S	ATOM	35449	P	786	186.001	86.993	-55.857	1.00	44.70	A
ATOM	35397	N1	GUA	783	197.409	94.250	-49.973	1.00	42.54	Al6S	ATOM	35450	O1P	786	184.758	86.198	-56.004	1.00	49.92	A
ATOM	35398	C6	GUA	783	198.020	94.946	-51.010	1.00	42.54	Al6S	ATOM	35451	O2P	786	186.788	87.370	-57.064	1.00	49.92	A
ATOM	35399	O6	GUA	783	198.014	96.198	-51.017	1.00	42.54	Al6S	ATOM	35452	O5' GUA	786	185.641	88.339	-55.086	1.00	44.70	A
ATOM	35400	C5	GUA	783	198.594	94.065	-51.950	1.00	42.54	Al6S	ATOM	35453	C5' GUA	786	184.926	88.309	-53.859	1.00	44.70	A
ATOM	35401	N7	GUA	783	199.299	94.330	-53.115	1.00	42.54	Al6S	ATOM	35454	C4' GUA	786	185.129	89.601	-53.120	1.00	44.70	A
ATOM	35402	C8	GUA	783	199.610	93.153	-53.576	1.00	42.54	Al6S	ATOM	35455	O4' GUA	786	186.548	89.761	-52.859	1.00	44.70	A
ATOM	35403	C2'	GUA	783	198.291	90.027	-53.875	1.00	45.84	Al6S	ATOM	35456	C1' GUA	786	186.898	91.126	-52.942	1.00	44.70	A
ATOM	35404	O2'	GUA	783	198.233	88.646	-53.584	1.00	45.84	Al6S	ATOM	35457	N9' GUA	786	187.843	91.282	-54.042	1.00	49.92	A
ATOM	35405	C3'	GUA	783	198.862	90.241	-55.267	1.00	45.84	Al6S	ATOM	35458	C4 GUA	786	188.709	92.379	-53.393	1.00	49.92	A
ATOM	35406	O3'	GUA	783	198.428	89.221	-56.159	1.00	45.84	Al6S	ATOM	35459	N3 GUA	786	188.864	93.379	-53.842	1.00	49.92	A
ATOM	35407	P	URI	784	197.163	89.475	-57.122	1.00	47.99	Al6S	ATOM	35460	C2 GUA	786	189.761	94.234	-53.842	1.00	49.92	A
ATOM	35408	O1P	URI	784	197.467	88.805	-58.420	1.00	46.58	Al6S	ATOM	35461	N2 GUA	786	190.068	95.315	-53.125	1.00	49.92	A
ATOM	35409	O2P	URI	784	196.804	90.915	-57.115	1.00	46.58	Al6S	ATOM	35462	N1 GUA	786	190.431	94.087	-55.025	1.00	49.92	A
ATOM	35410	O5' URI	784	196.004	88.630	-56.430	1.00	47.99	Al6S	ATOM	35463	C6 GUA	786	190.277	93.023	-55.895	1.00	49.92	A	
ATOM	35411	C5' URI	784	195.949	87.238	-56.649	1.00	47.99	Al6S	ATOM	35464	O6 GUA	786	190.911	93.006	-56.952	1.00	49.92	A	
ATOM	35412	C4' URI	784	195.077	86.570	-55.633	1.00	47.99	Al6S	ATOM	35465	C5 GUA	786	189.343	92.078	-55.413	1.00	49.92	A	
ATOM	35413	O4' URI	784	195.607	86.801	-54.311	1.00	47.99	Al6S	ATOM	35466	N7 GUA	786	188.906	90.881	-55.959	1.00	49.92	A	
ATOM	35414	C1' URI	784	194.546	86.748	-53.369	1.00	47.99	Al6S	ATOM	35467	C8 GUA	786	188.022	90.440	-55.107	1.00	49.92	A	
ATOM	35415	N1 URI	784	194.471	88.033	-52.669	1.00	46.58	Al6S	ATOM	35468	C2' GUA	786	185.598	91.901	-53.174	1.00	44.70	A	
ATOM	35416	C6 URI	784	194.950	89.192	-53.220	1.00	46.58	Al6S	ATOM	35469	O2' GUA	786	185.047	92.264	-51.924	1.00	44.70	A	
ATOM	35417	C2 URI	784	193.891	88.017	-51.436	1.00	46.58	Al6S	ATOM	35470	C3' GUA	786	184.755	90.856	-53.886	1.00	44.70	A	
ATOM	35418	O2 URI	784	193.474	86.994	-50.940	1.00	46.58	Al6S	ATOM	35471	O3' GUA	786	183.368	91.123	-53.739	1.00	44.70	A	
ATOM	35419	N3 URI	784	193.820	89.232	-50.807	1.00	46.58	Al6S	ATOM	35472	P	787	182.545	91.804	-54.944	1.00	36.83	A	
ATOM	35420	C4 URI	784	194.274	90.434	-51.299	1.00	46.58	Al6S	ATOM	35473	O1P URI	787	181.164	91.970	-54.430	1.00	52.54	A	
ATOM	35421	O4 URI	784	194.092	91.462	-50.646	1.00	46.58	Al6S	ATOM	35474	O2P URI	787	182.768	91.070	-56.220	1.00	52.54	A	
ATOM	35422	C5 URI	784	194.878	90.361	-52.596	1.00	46.58	Al6S	ATOM	35475	O5' URI	787	183.146	93.273	-55.041	1.00	36.83	A	

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ATOM	35476	C5' URI	787	182.840	94.230	-54.038	1.00	36.83	Al6S	ATOM	35529	O2' CYT	789	176.931	93.551	-65.987	1.00	46.30	A
ATOM	35477	C4' URI	787	183.713	95.443	-54.187	1.00	36.83	Al6S	ATOM	35530	C3' CYT	789	177.116	94.864	-63.946	1.00	46.30	A
ATOM	35478	O4' URI	787	185.092	95.026	-54.138	1.00	36.83	Al6S	ATOM	35531	O3' CYT	789	175.972	95.551	-64.407	1.00	46.30	A
ATOM	35479	C1' URI	787	185.875	95.875	-54.956	1.00	36.83	Al6S	ATOM	35532	P ADE	790	174.540	95.199	-63.780	1.00	52.48	A
ATOM	35480	N1 URI	787	186.531	95.055	-55.972	1.00	52.54	Al6S	ATOM	35533	O1P ADE	790	173.571	96.123	-64.446	1.00	41.24	A
ATOM	35481	C6 URI	787	186.196	93.744	-56.163	1.00	52.54	Al6S	ATOM	35534	O2P ADE	790	174.623	95.151	-62.297	1.00	41.24	A
ATOM	35482	C2 URI	787	187.839	95.664	-56.738	1.00	52.54	Al6S	ATOM	35535	O5' ADE	790	174.282	93.717	-64.291	1.00	52.48	A
ATOM	35483	O2 URI	787	187.895	96.814	-56.571	1.00	52.54	Al6S	ATOM	35536	C5' ADE	790	174.043	93.470	-65.664	1.00	52.48	A
ATOM	35484	N3 URI	787	188.048	94.875	-57.707	1.00	52.54	Al6S	ATOM	35537	C4' ADE	790	173.749	92.021	-65.871	1.00	52.48	A
ATOM	35485	C4 URI	787	187.749	93.565	-57.970	1.00	52.54	Al6S	ATOM	35538	O4' ADE	790	174.954	91.254	-65.669	1.00	52.48	A
ATOM	35486	O5 URI	787	186.757	92.994	-57.111	1.00	52.54	Al6S	ATOM	35539	C1' ADE	790	174.612	89.980	-65.159	1.00	52.48	A
ATOM	35487	C5 URI	787	184.923	96.893	-55.579	1.00	36.83	Al6S	ATOM	35540	N9 ADE	790	175.389	89.744	-63.943	1.00	41.24	A
ATOM	35488	C2' URI	787	184.890	98.068	-54.805	1.00	36.83	Al6S	ATOM	35541	C4 ADE	790	175.677	88.508	-63.429	1.00	41.24	A
ATOM	35489	O2' URI	787	183.609	96.147	-55.518	1.00	36.83	Al6S	ATOM	35542	N3 ADE	790	175.316	87.325	-63.936	1.00	41.24	A
ATOM	35490	C3' URI	787	182.546	97.063	-55.487	1.00	36.83	Al6S	ATOM	35543	C2 ADE	790	175.756	86.337	-63.171	1.00	41.24	A
ATOM	35491	O3' URI	787	181.218	96.746	-56.305	1.00	48.58	Al6S	ATOM	35544	N1 ADE	790	176.460	86.394	-62.041	1.00	41.24	A
ATOM	35492	P CYT	788	180.347	97.940	-56.192	1.00	42.89	Al6S	ATOM	35545	C6 ADE	790	176.811	87.659	-60.434	1.00	41.24	A
ATOM	35493	O1P CYT	788	181.702	96.623	-57.810	1.00	42.89	Al6S	ATOM	35546	N6 ADE	790	176.515	87.659	-60.434	1.00	41.24	A
ATOM	35494	O5' CYT	788	182.188	97.760	-58.508	1.00	48.58	Al6S	ATOM	35547	C5 ADE	790	176.409	88.734	-62.282	1.00	41.24	A
ATOM	35496	C5' CYT	788	182.409	97.407	-59.949	1.00	48.58	Al6S	ATOM	35548	N7 ADE	790	176.595	90.094	-62.074	1.00	41.24	A
ATOM	35497	C4' CYT	788	183.522	96.485	-60.066	1.00	48.58	Al6S	ATOM	35549	C8 ADE	790	173.095	89.956	-64.953	1.00	52.48	A
ATOM	35498	O4' CYT	788	183.522	95.595	-61.139	1.00	48.58	Al6S	ATOM	35550	O2' ADE	790	172.475	89.361	-66.071	1.00	52.48	A
ATOM	35499	C1' CYT	788	183.351	94.231	-60.625	1.00	42.89	Al6S	ATOM	35551	O2' ADE	790	172.781	91.440	-64.866	1.00	52.48	A
ATOM	35500	N1 CYT	788	183.612	93.985	-59.309	1.00	42.89	Al6S	ATOM	35552	C3' ADE	790	171.452	91.734	-65.255	1.00	52.48	A
ATOM	35501	C6 CYT	788	183.153	93.192	-61.505	1.00	42.89	Al6S	ATOM	35553	O3' ADE	791	170.300	91.827	-64.141	1.00	50.22	A
ATOM	35502	C2 CYT	788	182.929	93.464	-62.691	1.00	42.89	Al6S	ATOM	35554	O1P CYT	791	169.059	92.212	-64.868	1.00	49.95	A
ATOM	35503	O2 CYT	788	183.212	91.919	-61.056	1.00	42.89	Al6S	ATOM	35555	O2P CYT	791	170.777	92.676	-63.017	1.00	49.95	A
ATOM	35504	N3 CYT	788	183.465	91.685	-59.774	1.00	42.89	Al6S	ATOM	35556	O5' CYT	791	169.483	89.367	-64.472	1.00	50.22	A
ATOM	35505	C4 CYT	788	183.512	90.426	-59.372	1.00	42.89	Al6S	ATOM	35557	C5' CYT	791	169.630	87.975	-63.919	1.00	50.22	A
ATOM	35506	N4 CYT	788	181.920	95.948	-61.733	1.00	48.58	Al6S	ATOM	35558	C4' CYT	791	171.026	87.594	-63.909	1.00	50.22	A
ATOM	35507	C5 CYT	788	181.920	95.948	-61.733	1.00	48.58	Al6S	ATOM	35559	O4' CYT	791	171.257	86.664	-62.859	1.00	50.22	A
ATOM	35508	C2' CYT	788	182.121	96.846	-62.800	1.00	48.58	Al6S	ATOM	35560	C4' CYT	791	172.236	87.233	-61.925	1.00	49.95	A
ATOM	35509	O2' CYT	788	181.256	96.643	-60.559	1.00	48.58	Al6S	ATOM	35561	C1' CYT	791	172.401	86.362	-61.141	1.00	49.95	A
ATOM	35510	C3' CYT	788	178.731	97.194	-60.800	1.00	46.30	Al6S	ATOM	35562	N1 CYT	791	172.825	85.146	-61.309	1.00	49.95	A
ATOM	35511	O3' CYT	789	177.989	98.464	-60.938	1.00	34.37	Al6S	ATOM	35563	C6 CYT	791	173.831	86.860	-60.225	1.00	49.95	A
ATOM	35512	P CYT	789	178.569	96.373	-59.582	1.00	34.37	Al6S	ATOM	35564	O2 CYT	791	173.959	88.177	-60.085	1.00	49.95	A
ATOM	35513	O1P CYT	789	178.439	96.258	-62.041	1.00	46.30	Al6S	ATOM	35565	N3 CYT	791	174.785	88.622	-59.145	1.00	49.95	A
ATOM	35514	O5' CYT	789	178.674	96.719	-63.358	1.00	46.30	Al6S	ATOM	35566	C4 CYT	791	173.240	89.094	-60.899	1.00	49.95	A
ATOM	35515	C5' CYT	789	178.368	95.621	-64.325	1.00	46.30	Al6S	ATOM	35567	C5 CYT	791	169.926	86.465	-62.143	1.00	50.22	A
ATOM	35516	C4' CYT	789	179.403	94.613	-64.258	1.00	46.30	Al6S	ATOM	35568	C2' CYT	791	169.257	85.378	-62.648	1.00	50.22	A
ATOM	35517	O4' CYT	789	178.833	93.344	-64.517	1.00	46.30	Al6S	ATOM	35569	C3' CYT	791	167.834	87.697	-62.300	1.00	50.22	A
ATOM	35518	C1' CYT	789	179.238	92.420	-63.459	1.00	34.37	Al6S	ATOM	35570	O3' CYT	791	167.184	88.335	-60.984	1.00	49.18	A
ATOM	35519	N1 CYT	789	179.618	92.864	-62.228	1.00	34.37	Al6S	ATOM	35571	O2' CYT	791	165.727	88.488	-61.253	1.00	42.83	A
ATOM	35520	C6 CYT	789	179.228	91.074	-63.744	1.00	34.37	Al6S	ATOM	35572	C3' CYT	791	168.001	89.533	-60.644	1.00	42.83	A
ATOM	35521	C2 CYT	789	178.891	90.723	-64.880	1.00	34.37	Al6S	ATOM	35573	O5' GUA	792	167.424	87.216	-59.880	1.00	49.18	A
ATOM	35522	O2 CYT	789	179.592	90.185	-62.794	1.00	34.37	Al6S	ATOM	35574	C5' GUA	792	167.086	84.878	-60.155	1.00	49.18	A
ATOM	35523	N3 CYT	789	179.975	90.619	-61.599	1.00	34.37	Al6S	ATOM	35575	O4' GUA	792	167.790	85.953	-59.201	1.00	49.18	A
ATOM	35524	C4 CYT	789	180.352	89.714	-60.697	1.00	34.37	Al6S	ATOM	35576	C4' GUA	792	169.231	85.057	-59.365	1.00	49.18	A
ATOM	35525	N4 CYT	789	179.996	92.006	-61.275	1.00	34.37	Al6S	ATOM	35577	O4' GUA	792	169.865	84.650	-58.160	1.00	49.18	A
ATOM	35526	C5 CYT	789	177.317	93.522	-64.631	1.00	46.30	Al6S	ATOM	35578	C1' GUA	792						A
ATOM	35527	C2' CYT	789							ATOM	35579								A
ATOM	35528									ATOM	35580								A
ATOM	35529									ATOM	35581								A

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ATOM	35582	N9	GUU	792	170.808	85.687	-57.755	1.00	42.83	Al6S	ATOM	35635	C3' CYT	794	170.004	86.502	-46.222	1.00	43.49	Al
ATOM	35583	C4	GUU	792	171.779	85.571	-56.792	1.00	42.83	Al6S	ATOM	35636	O3' CYT	794	169.925	85.964	-44.915	1.00	43.49	Al
ATOM	35584	N3	GUU	792	172.026	84.476	-56.051	1.00	42.83	Al6S	ATOM	35637	P' CYT	795	168.765	86.438	-43.928	1.00	47.17	Al
ATOM	35585	C2	GUU	792	173.034	84.662	-55.219	1.00	42.83	Al6S	ATOM	35638	O1P CYT	795	169.150	85.917	-42.601	1.00	41.36	Al
ATOM	35586	N2	GUU	792	173.435	83.659	-54.440	1.00	42.83	Al6S	ATOM	35639	O2P CYT	795	167.473	86.040	-44.521	1.00	41.36	Al
ATOM	35587	N1	GUU	792	173.726	85.838	-55.098	1.00	42.83	Al6S	ATOM	35640	O5' CYT	795	168.854	88.027	-43.912	1.00	47.17	Al
ATOM	35588	C6	GUU	792	173.482	86.983	-55.839	1.00	42.83	Al6S	ATOM	35641	C5' CYT	795	169.263	88.704	-42.731	1.00	47.17	Al
ATOM	35589	O6	GUU	792	174.157	87.997	-55.642	1.00	42.83	Al6S	ATOM	35642	C4' CYT	795	168.992	90.181	-42.844	1.00	47.17	Al
ATOM	35590	C5	GUU	792	172.417	86.789	-56.762	1.00	42.83	Al6S	ATOM	35643	O4' CYT	795	169.474	90.589	-44.135	1.00	47.17	Al
ATOM	35591	N7	GUU	792	171.857	87.658	-57.687	1.00	42.83	Al6S	ATOM	35644	C1' CYT	795	168.725	91.453	-45.985	1.00	47.17	Al
ATOM	35592	C8	GUU	792	170.907	86.961	-58.251	1.00	42.83	Al6S	ATOM	35645	N1	795	168.336	91.453	-45.985	1.00	41.36	Al
ATOM	35593	C2'	GUU	792	168.752	84.397	-57.143	1.00	49.18	Al6S	ATOM	35646	C6	795	167.764	90.280	-46.387	1.00	41.36	Al
ATOM	35594	O2'	GUU	792	168.434	83.023	-57.154	1.00	49.18	Al6S	ATOM	35647	C2	795	168.602	92.453	-46.905	1.00	41.36	Al
ATOM	35595	C3'	GUU	792	167.622	85.238	-57.726	1.00	49.18	Al6S	ATOM	35648	O2	795	169.112	93.510	-46.498	1.00	41.36	Al
ATOM	35596	O3'	GUU	792	166.339	84.842	-57.260	1.00	49.18	Al6S	ATOM	35649	N3	795	168.320	92.247	-48.214	1.00	41.36	Al
ATOM	35597	P	CYT	793	165.818	85.367	-55.831	1.00	54.45	Al6S	ATOM	35650	C4	795	167.818	91.082	-48.606	1.00	41.36	Al
ATOM	35598	O1P	CYT	793	164.505	84.723	-55.607	1.00	40.27	Al6S	ATOM	35651	N4	795	167.636	90.899	-49.907	1.00	41.36	Al
ATOM	35599	O2P	CYT	793	165.943	86.842	-55.711	1.00	40.27	Al6S	ATOM	35652	C5	795	167.502	90.050	-47.680	1.00	41.36	Al
ATOM	35600	O5'	CYT	793	166.858	84.705	-54.825	1.00	54.45	Al6S	ATOM	35653	C2'	795	167.614	91.968	-43.584	1.00	47.17	Al
ATOM	35601	C5'	CYT	793	167.090	85.246	-53.530	1.00	54.45	Al6S	ATOM	35654	O2'	795	168.085	93.014	-42.755	1.00	47.17	Al
ATOM	35602	C4'	CYT	793	168.229	84.511	-52.873	1.00	54.45	Al6S	ATOM	35655	C3'	795	167.543	90.650	-42.832	1.00	47.17	Al
ATOM	35603	O4'	CYT	793	169.448	84.796	-53.603	1.00	54.45	Al6S	ATOM	35656	O3'	795	167.064	90.762	-41.480	1.00	47.17	Al
ATOM	35604	C1'	CYT	793	170.548	84.761	-52.715	1.00	54.45	Al6S	ATOM	35657	P	796	167.066	92.185	-40.695	1.00	42.03	Al
ATOM	35605	N1	CYT	793	171.193	86.070	-52.754	1.00	40.27	Al6S	ATOM	35658	O1P	796	166.646	91.810	-39.319	1.00	43.34	Al
ATOM	35606	C6	CYT	793	170.749	87.030	-53.609	1.00	40.27	Al6S	ATOM	35659	O2P	796	166.337	93.271	-41.402	1.00	43.34	Al
ATOM	35607	C2	CYT	793	172.286	86.313	-51.926	1.00	40.27	Al6S	ATOM	35660	O5'	796	168.597	92.607	-40.619	1.00	42.03	Al
ATOM	35608	O2	CYT	793	172.625	85.440	-51.114	1.00	40.27	Al6S	ATOM	35661	C5'	796	169.514	91.847	-39.847	1.00	42.03	Al
ATOM	35609	N3	CYT	793	172.935	87.493	-52.021	1.00	40.27	Al6S	ATOM	35662	O4'	796	170.882	92.572	-41.288	1.00	42.03	Al
ATOM	35610	C4	CYT	793	172.506	88.413	-52.884	1.00	40.27	Al6S	ATOM	35663	O4'	796	171.293	92.572	-41.288	1.00	42.03	Al
ATOM	35611	N4	CYT	793	173.172	89.550	-52.968	1.00	40.27	Al6S	ATOM	35664	C1'	796	172.182	93.662	-41.435	1.00	42.03	Al
ATOM	35612	C5	CYT	793	171.370	88.204	-53.705	1.00	40.27	Al6S	ATOM	35665	N1	796	171.730	94.389	-43.059	1.00	43.34	Al
ATOM	35613	C2'	CYT	793	169.998	84.387	-51.345	1.00	54.45	Al6S	ATOM	35666	C6	796	170.463	94.389	-43.059	1.00	43.34	Al
ATOM	35614	O2'	CYT	793	170.011	82.979	-51.246	1.00	54.45	Al6S	ATOM	35667	C2	796	172.636	95.341	-43.113	1.00	43.34	Al
ATOM	35615	C3'	CYT	793	168.581	84.919	-51.458	1.00	54.45	Al6S	ATOM	35668	O2	796	173.766	95.446	-42.693	1.00	43.34	Al
ATOM	35616	O3'	CYT	793	167.720	84.291	-50.526	1.00	54.45	Al6S	ATOM	35669	N3	796	172.179	96.076	-44.173	1.00	43.34	Al
ATOM	35617	P	CYT	794	167.121	85.151	-49.312	1.00	43.49	Al6S	ATOM	35670	O4	796	170.928	96.031	-44.720	1.00	43.34	Al
ATOM	35618	O1P	CYT	794	166.356	84.230	-48.440	1.00	29.74	Al6S	ATOM	35671	C4	796	170.661	96.760	-45.666	1.00	43.34	Al
ATOM	35619	O2P	CYT	794	166.457	86.357	-49.877	1.00	29.74	Al6S	ATOM	35672	C5	796	170.040	95.114	-44.095	1.00	43.34	Al
ATOM	35620	O5'	CYT	794	168.399	85.613	-48.486	1.00	43.49	Al6S	ATOM	35673	O2'	796	172.247	94.383	-40.090	1.00	42.03	Al
ATOM	35621	C5'	CYT	794	169.180	84.673	-47.761	1.00	43.49	Al6S	ATOM	35674	C2'	796	173.381	93.942	-39.363	1.00	42.03	Al
ATOM	35622	C4'	CYT	794	170.373	85.370	-47.160	1.00	43.49	Al6S	ATOM	35675	O3'	796	170.959	93.904	-39.437	1.00	42.03	Al
ATOM	35623	O4'	CYT	794	171.141	85.988	-48.217	1.00	43.49	Al6S	ATOM	35676	O3'	796	171.049	93.954	-38.022	1.00	42.03	Al
ATOM	35624	C1'	CYT	794	171.680	87.204	-47.755	1.00	43.49	Al6S	ATOM	35677	P	797	170.520	95.254	-37.252	1.00	36.96	Al
ATOM	35625	N1	CYT	794	171.346	88.254	-48.707	1.00	29.74	Al6S	ATOM	35678	O1P	797	169.154	95.510	-37.792	1.00	35.25	Al
ATOM	35626	C6	CYT	794	170.369	88.077	-49.640	1.00	29.74	Al6S	ATOM	35679	O2P	797	170.708	95.004	-35.804	1.00	35.25	Al
ATOM	35627	C2	CYT	794	172.056	89.429	-48.650	1.00	29.74	Al6S	ATOM	35680	O5'	797	171.491	96.417	-37.746	1.00	36.96	Al
ATOM	35628	O3	CYT	794	172.943	89.535	-47.804	1.00	29.74	Al6S	ATOM	35681	C5'	797	172.738	96.596	-37.120	1.00	36.96	Al
ATOM	35629	N3	CYT	794	171.778	90.414	-49.522	1.00	29.74	Al6S	ATOM	35682	C4'	797	173.407	97.841	-37.616	1.00	36.96	Al
ATOM	35630	C4	CYT	794	170.840	90.230	-50.447	1.00	29.74	Al6S	ATOM	35683	O4'	797	173.740	97.656	-38.995	1.00	36.96	Al
ATOM	35631	N4	CYT	794	170.624	91.207	-51.313	1.00	29.74	Al6S	ATOM	35684	C1'	797	173.828	98.909	-39.624	1.00	36.96	Al
ATOM	35632	C5	CYT	794	170.090	89.031	-50.528	1.00	29.74	Al6S	ATOM	35685	N9	797	173.005	98.864	-40.820	1.00	35.25	Al
ATOM	35633	C2'	CYT	794	171.171	87.478	-46.344	1.00	43.49	Al6S	ATOM	35686	C4	797	173.108	99.725	-41.877	1.00	35.25	Al
ATOM	35634	O2'	CYT	794	172.228	87.261	-45.442	1.00	43.49	Al6S	ATOM	35687	N3	797	173.995	100.721	-42.021	1.00	35.25	Al

ATOM	35688	C2	ADE	797	173.784	101.354	-43.159	1.00	35.25	Al6S	ATOM	35741	C3	ADE	799	169.142	103.355	-40.212	1.00	35.63	A
ATOM	35689	N1	ADE	797	172.852	101.126	-44.097	1.00	35.25	Al6S	ATOM	35742	O3	ADE	799	168.736	104.728	-40.191	1.00	35.63	A
ATOM	35690	C6	ADE	797	171.984	100.114	-43.910	1.00	35.25	Al6S	ATOM	35743	P	CYT	800	167.710	105.250	-39.073	1.00	43.46	A
ATOM	35691	N6	ADE	797	171.054	99.887	-44.835	1.00	35.25	Al6S	ATOM	35744	O1P	CYT	800	166.444	105.540	-39.771	1.00	34.39	A
ATOM	35692	C5	ADE	797	172.109	99.362	-42.754	1.00	35.25	Al6S	ATOM	35745	O2P	CYT	800	167.722	104.290	-37.949	1.00	34.39	A
ATOM	35693	N7	ADE	797	171.408	98.267	-42.276	1.00	35.25	Al6S	ATOM	35746	O5	CYT	800	168.349	106.607	-38.547	1.00	43.46	A
ATOM	35694	C8	ADE	797	171.984	98.005	-41.129	1.00	35.25	Al6S	ATOM	35747	C5	CYT	800	167.894	107.880	-38.992	1.00	43.46	A
ATOM	35695	C2	ADE	797	173.377	99.960	-38.616	1.00	36.96	Al6S	ATOM	35748	C4	CYT	800	168.942	108.906	-38.673	1.00	43.46	A
ATOM	35696	O2	ADE	797	174.533	100.528	-38.045	1.00	36.96	Al6S	ATOM	35749	O4	CYT	800	169.277	108.731	-37.291	1.00	43.46	A
ATOM	35697	C3	ADE	797	172.591	99.109	-37.631	1.00	36.96	Al6S	ATOM	35750	C1	CYT	800	170.666	108.811	-37.113	1.00	43.46	A
ATOM	35698	O3	ADE	797	172.608	99.677	-35.335	1.00	36.96	Al6S	ATOM	35751	N1	CYT	800	171.056	107.770	-36.171	1.00	34.39	A
ATOM	35700	O1P	ADE	798	170.326	100.596	-36.844	1.00	35.80	Al6S	ATOM	35752	C6	CYT	800	170.355	106.606	-36.070	1.00	34.39	A
ATOM	35701	O2P	ADE	798	171.198	100.386	-34.454	1.00	35.80	Al6S	ATOM	35753	C2	CYT	800	172.132	108.022	-35.331	1.00	34.39	A
ATOM	35702	O5	ADE	798	172.112	102.113	-36.039	1.00	35.57	Al6S	ATOM	35754	O2	CYT	800	172.774	109.074	-35.488	1.00	34.39	A
ATOM	35703	C5	ADE	798	173.134	102.520	-35.148	1.00	35.57	Al6S	ATOM	35755	N3	CYT	800	172.439	107.129	-34.365	1.00	34.39	A
ATOM	35704	C4	ADE	798	173.781	103.799	-35.618	1.00	35.57	Al6S	ATOM	35756	C4	CYT	800	171.704	106.028	-34.227	1.00	34.39	A
ATOM	35705	O4	ADE	798	174.671	104.289	-34.617	1.00	35.57	Al6S	ATOM	35757	N4	CYT	800	171.988	105.220	-33.213	1.00	34.39	A
ATOM	35706	C1	ADE	798	175.761	104.899	-35.229	1.00	35.57	Al6S	ATOM	35758	C5	CYT	800	170.634	105.721	-35.114	1.00	34.39	A
ATOM	35707	N9	ADE	798	176.894	104.824	-34.315	1.00	35.80	Al6S	ATOM	35759	C2	CYT	800	171.378	108.890	-38.460	1.00	43.46	A
ATOM	35708	C4	ADE	798	177.602	105.919	-33.905	1.00	35.80	Al6S	ATOM	35760	O2	CYT	800	172.112	110.106	-38.584	1.00	43.46	A
ATOM	35709	N3	ADE	798	177.443	107.179	-34.326	1.00	35.80	Al6S	ATOM	35761	C3	CYT	800	170.228	108.683	-39.444	1.00	43.46	A
ATOM	35710	C2	ADE	798	178.268	107.994	-33.672	1.00	35.80	Al6S	ATOM	35762	O3	CYT	800	170.249	109.513	-40.617	1.00	43.46	A
ATOM	35711	N1	ADE	798	179.157	107.707	-32.717	1.00	35.80	Al6S	ATOM	35763	P	GUA	801	169.751	111.071	-40.576	1.00	40.46	A
ATOM	35712	C6	ADE	798	179.282	106.423	-32.323	1.00	35.80	Al6S	ATOM	35764	O1P	GUA	801	168.298	111.088	-40.895	1.00	50.15	A
ATOM	35713	N6	ADE	798	180.153	106.141	-31.362	1.00	35.80	Al6S	ATOM	35765	O2P	GUA	801	170.692	111.894	-41.381	1.00	50.15	A
ATOM	35714	C5	ADE	798	178.478	105.466	-32.946	1.00	35.80	Al6S	ATOM	35766	O5	GUA	801	169.927	111.609	-39.109	1.00	40.46	A
ATOM	35715	N7	ADE	798	178.367	104.093	-32.791	1.00	35.80	Al6S	ATOM	35767	C5	GUA	801	170.375	112.933	-38.925	1.00	40.46	A
ATOM	35716	C8	ADE	798	177.424	103.757	-33.635	1.00	35.80	Al6S	ATOM	35768	C4	GUA	801	168.308	113.956	-38.337	1.00	40.46	A
ATOM	35717	C2	ADE	798	175.872	104.432	-36.683	1.00	35.57	Al6S	ATOM	35769	O4	GUA	801	167.419	113.995	-37.266	1.00	40.46	A
ATOM	35718	O2	ADE	798	176.017	105.563	-37.501	1.00	35.57	Al6S	ATOM	35770	C1	GUA	801	166.069	113.803	-37.764	1.00	50.15	A
ATOM	35719	C3	ADE	798	174.543	103.699	-36.920	1.00	35.57	Al6S	ATOM	35771	N9	GUA	801	164.950	114.441	-37.296	1.00	50.15	A
ATOM	35720	O3	ADE	798	173.696	104.497	-37.734	1.00	35.57	Al6S	ATOM	35772	C4	GUA	801	164.892	115.264	-36.220	1.00	50.15	A
ATOM	35721	P	ADE	799	173.911	104.600	-39.315	1.00	35.63	Al6S	ATOM	35773	N3	GUA	801	163.679	115.752	-36.038	1.00	50.15	A
ATOM	35722	O1P	ADE	799	173.399	105.936	-39.718	1.00	33.91	Al6S	ATOM	35774	C2	GUA	801	163.426	116.559	-34.996	1.00	50.15	A
ATOM	35723	O2P	ADE	799	175.292	104.209	-39.691	1.00	33.91	Al6S	ATOM	35775	N2	GUA	801	163.944	114.091	-38.163	1.00	50.15	A
ATOM	35724	O5	ADE	799	172.891	103.490	-39.817	1.00	35.63	Al6S	ATOM	35776	N1	GUA	801	162.622	115.476	-36.862	1.00	50.15	A
ATOM	35725	C5	ADE	799	171.562	103.459	-39.330	1.00	35.63	Al6S	ATOM	35777	C6	GUA	801	162.666	114.646	-37.976	1.00	50.15	A
ATOM	35726	C4	ADE	799	170.629	103.277	-40.482	1.00	35.63	Al6S	ATOM	35778	O6	GUA	801	161.661	114.492	-38.664	1.00	50.15	A
ATOM	35727	O4	ADE	799	170.809	101.944	-41.019	1.00	35.63	Al6S	ATOM	35779	C5	GUA	801	163.944	114.091	-38.163	1.00	50.15	A
ATOM	35728	C1	ADE	799	169.620	101.531	-41.650	1.00	35.63	Al6S	ATOM	35780	N7	GUA	801	164.409	113.201	-39.124	1.00	50.15	A
ATOM	35729	N9	ADE	799	168.235	100.254	-41.073	1.00	33.91	Al6S	ATOM	35781	C8	GUA	801	165.671	113.045	-38.833	1.00	50.15	A
ATOM	35730	C4	ADE	799	168.666	99.203	-41.740	1.00	33.91	Al6S	ATOM	35782	C2	GUA	801	167.995	113.235	-36.070	1.00	40.46	A
ATOM	35731	N3	ADE	799	168.331	99.157	-43.037	1.00	33.91	Al6S	ATOM	35783	O2	GUA	801	169.317	114.708	-36.623	1.00	40.46	A
ATOM	35732	C2	ADE	799	167.819	97.973	-43.340	1.00	33.91	Al6S	ATOM	35784	C3	GUA	801	168.208	114.224	-35.114	1.00	40.46	A
ATOM	35733	N1	ADE	799	167.626	96.902	-42.555	1.00	33.91	Al6S	ATOM	35785	O3	GUA	801	169.317	114.708	-36.623	1.00	40.46	A
ATOM	35734	C6	ADE	799	167.986	96.974	-41.262	1.00	33.91	Al6S	ATOM	35786	P	ADE	802	170.488	112.956	-34.228	1.00	47.24	A
ATOM	35735	N6	ADE	799	167.823	95.885	-40.496	1.00	33.91	Al6S	ATOM	35787	O1P	ADE	802	169.827	114.195	-34.228	1.00	47.24	A
ATOM	35736	C5	ADE	799	168.525	98.191	-40.809	1.00	33.91	Al6S	ATOM	35788	O2P	ADE	802	171.919	112.798	-33.802	1.00	36.13	A
ATOM	35737	N7	ADE	799	168.975	98.608	-39.565	1.00	33.91	Al6S	ATOM	35789	O5	ADE	802	169.685	111.669	-33.715	1.00	47.24	A
ATOM	35738	C8	ADE	799	169.382	99.839	-39.779	1.00	33.91	Al6S	ATOM	35790	C5	ADE	802	169.162	110.706	-34.639	1.00	47.24	A
ATOM	35739	C2	ADE	799	168.601	102.654	-41.454	1.00	35.63	Al6S	ATOM	35791	C4	ADE	802	168.930	109.371	-33.965	1.00	47.24	A
ATOM	35740	O2	ADE	799	168.711	103.511	-42.567	1.00	35.63	Al6S	ATOM	35792	O4	ADE	802	170.175	108.964	-33.385	1.00	47.24	A
ATOM	35741	C1	ADE	799	168.711	103.511	-42.567	1.00	35.63	Al6S	ATOM	35793	C1	ADE	802	169.924	108.136	-32.287	1.00	47.24	A

ATOM	35794	N9	ADE	802	170.989	108.348	-31.318	1.00	36.13	Al6S	ATOM	35847	C2' GUA	804	156.355	107.473	-37.636	1.00	37.14	Al1
ATOM	35795	C4	ADE	802	171.451	107.456	-30.386	1.00	36.13	Al6S	ATOM	35848	O2' GUA	804	156.571	106.635	-38.741	1.00	37.14	Al1
ATOM	35796	N3	ADE	802	171.008	106.214	-30.162	1.00	36.13	Al6S	ATOM	35849	C3' GUA	804	157.484	108.467	-37.478	1.00	37.14	Al1
ATOM	35797	C2	ADE	802	171.698	105.649	-29.174	1.00	36.13	Al6S	ATOM	35850	O3' GUA	804	157.952	108.930	-38.720	1.00	37.14	Al1
ATOM	35798	N1	ADE	802	172.712	106.146	-28.453	1.00	36.13	Al6S	ATOM	35851	P	805	157.644	110.433	-39.149	1.00	33.04	Al1
ATOM	35799	C6	ADE	802	173.138	107.393	-28.727	1.00	36.13	Al6S	ATOM	35852	O1P CYT	805	158.605	110.869	-40.198	1.00	52.13	Al1
ATOM	35800	N6	ADE	802	174.176	107.883	-28.049	1.00	36.13	Al6S	ATOM	35853	O2P CYT	805	157.531	111.214	-37.891	1.00	52.13	Al1
ATOM	35801	C5	ADE	802	172.475	108.101	-29.727	1.00	36.13	Al6S	ATOM	35854	O5' CYT	805	156.210	110.289	-39.806	1.00	33.04	Al1
ATOM	35802	N7	ADE	802	172.652	109.380	-30.228	1.00	36.13	Al6S	ATOM	35855	C5' CYT	805	155.968	109.258	-40.733	1.00	33.04	Al1
ATOM	35803	C8	ADE	802	171.749	109.475	-31.168	1.00	36.13	Al6S	ATOM	35856	C4' CYT	805	154.491	109.020	-40.863	1.00	33.04	Al1
ATOM	35804	C2' ADE	802	168.483	108.359	-31.822	1.00	47.24	Al6S	ATOM	35857	O4' CYT	805	153.983	108.285	-39.721	1.00	33.04	Al1	
ATOM	35805	O2' ADE	802	167.823	107.125	-31.862	1.00	47.24	Al6S	ATOM	35858	C1' CYT	805	152.622	108.632	-39.522	1.00	33.04	Al1	
ATOM	35806	C3' ADE	802	167.935	109.389	-32.822	1.00	47.24	Al6S	ATOM	35859	N1 CYT	805	152.483	109.194	-38.179	1.00	52.13	Al1	
ATOM	35807	O3' ADE	802	166.600	108.971	-33.208	1.00	47.24	Al6S	ATOM	35860	C6 CYT	805	153.575	109.616	-37.480	1.00	52.13	Al1	
ATOM	35808	P	803	166.165	108.787	-34.769	1.00	37.00	Al6S	ATOM	35861	C2 CYT	805	151.208	109.302	-37.633	1.00	52.13	Al1	
ATOM	35809	O1P URI	803	166.376	107.374	-35.129	1.00	39.41	Al6S	ATOM	35862	O2 CYT	805	150.245	108.887	-38.280	1.00	52.13	Al1	
ATOM	35810	O2P URI	803	166.679	109.849	-35.655	1.00	39.41	Al6S	ATOM	35863	N3 CYT	805	151.058	109.850	-36.418	1.00	52.13	Al1	
ATOM	35811	O5' URI	803	164.585	108.997	-34.747	1.00	37.00	Al6S	ATOM	35864	C4 CYT	805	152.124	110.275	-35.748	1.00	52.13	Al1	
ATOM	35812	C5' URI	803	163.788	108.781	-33.560	1.00	37.00	Al6S	ATOM	35865	N4 CYT	805	151.926	110.824	-34.564	1.00	52.13	Al1	
ATOM	35813	C4' URI	803	162.921	110.000	-33.276	1.00	37.00	Al6S	ATOM	35866	C5 CYT	805	153.441	110.158	-36.271	1.00	52.13	Al1	
ATOM	35814	O4' URI	803	163.687	110.955	-32.538	1.00	37.00	Al6S	ATOM	35867	C2' CYT	805	152.259	109.653	-40.603	1.00	33.04	Al1	
ATOM	35815	C1' URI	803	163.206	112.238	-32.846	1.00	37.00	Al6S	ATOM	35868	O2' CYT	805	151.763	108.976	-41.738	1.00	33.04	Al1	
ATOM	35816	N1 URI	803	164.277	113.222	-32.717	1.00	39.41	Al6S	ATOM	35869	C3' CYT	805	153.615	110.255	-40.901	1.00	33.04	Al1	
ATOM	35817	C6 URI	803	165.518	113.045	-33.265	1.00	39.41	Al6S	ATOM	35870	O3' CYT	805	153.623	110.835	-42.185	1.00	33.04	Al1	
ATOM	35818	C2 URI	803	163.974	114.324	-32.009	1.00	39.41	Al6S	ATOM	35871	P	806	153.349	112.401	-42.336	1.00	53.80	Al1	
ATOM	35819	O2 URI	803	162.882	114.498	-31.549	1.00	39.41	Al6S	ATOM	35872	O1P GUA	806	153.589	112.749	-43.768	1.00	53.80	Al1	
ATOM	35820	N3 URI	803	164.995	115.220	-31.860	1.00	39.41	Al6S	ATOM	35873	O5' GUA	806	154.075	113.119	-41.269	1.00	33.68	Al1	
ATOM	35821	C4 URI	803	166.262	115.114	-32.368	1.00	39.41	Al6S	ATOM	35874	C5' GUA	806	150.858	111.957	-42.906	1.00	53.80	Al1	
ATOM	35822	O4 URI	803	167.050	116.044	-32.226	1.00	39.41	Al6S	ATOM	35875	C5' GUA	806	149.471	112.247	-42.427	1.00	53.80	Al1	
ATOM	35823	C5 URI	803	166.496	113.930	-33.112	1.00	39.41	Al6S	ATOM	35876	C4' GUA	806	148.269	112.199	-40.431	1.00	53.80	Al1	
ATOM	35824	C2' URI	803	162.532	112.213	-34.213	1.00	37.00	Al6S	ATOM	35877	O4' GUA	806	149.195	111.484	-41.227	1.00	53.80	Al1	
ATOM	35825	O2' URI	803	161.292	112.889	-34.164	1.00	37.00	Al6S	ATOM	35878	C1' GUA	806	148.269	112.199	-40.431	1.00	53.80	Al1	
ATOM	35826	C3' URI	803	162.463	110.720	-34.540	1.00	37.00	Al6S	ATOM	35879	N9 GUA	806	148.879	112.464	-39.139	1.00	33.68	Al1	
ATOM	35827	O3' URI	803	161.125	110.432	-34.980	1.00	37.00	Al6S	ATOM	35880	C4 GUA	806	148.204	112.687	-37.974	1.00	33.68	Al1	
ATOM	35828	P	804	160.011	109.775	-33.981	1.00	37.14	Al6S	ATOM	35881	C3 GUA	806	146.868	112.627	-37.816	1.00	33.68	Al1	
ATOM	35829	O1P GUA	804	159.041	109.116	-35.053	1.00	37.14	Al6S	ATOM	35882	N2 GUA	806	146.509	112.928	-36.586	1.00	33.68	Al1	
ATOM	35830	O2P GUA	804	160.596	108.664	-33.184	1.00	37.59	Al6S	ATOM	35883	C2 GUA	806	145.217	112.904	-36.256	1.00	33.68	Al1	
ATOM	35831	O5' GUA	804	159.041	109.116	-35.053	1.00	37.14	Al6S	ATOM	35884	N1 GUA	806	147.389	113.272	-35.593	1.00	33.68	Al1	
ATOM	35832	C5' GUA	804	159.608	108.408	-36.148	1.00	37.14	Al6S	ATOM	35885	C6 GUA	806	148.762	113.342	-35.736	1.00	33.68	Al1	
ATOM	35833	C4' GUA	804	158.560	107.618	-35.929	1.00	37.14	Al6S	ATOM	35886	O6 GUA	806	149.452	113.686	-34.786	1.00	33.68	Al1	
ATOM	35834	O4' GUA	804	157.836	106.782	-35.929	1.00	37.14	Al6S	ATOM	35887	C5 GUA	806	149.166	112.999	-37.044	1.00	33.68	Al1	
ATOM	35835	C1' GUA	804	156.500	106.650	-36.361	1.00	37.14	Al6S	ATOM	35888	N7 GUA	806	150.430	112.916	-37.604	1.00	33.68	Al1	
ATOM	35836	N9 GUA	804	155.620	107.124	-35.306	1.00	37.59	Al6S	ATOM	35889	C8 GUA	806	150.208	112.586	-38.848	1.00	33.68	Al1	
ATOM	35837	C4 GUA	804	154.262	106.971	-35.275	1.00	37.59	Al6S	ATOM	35890	O2' GUA	806	147.964	113.505	-41.168	1.00	53.80	Al1	
ATOM	35838	N3 GUA	804	153.518	106.359	-36.212	1.00	37.59	Al6S	ATOM	35891	C2' GUA	806	146.848	113.333	-42.021	1.00	53.80	Al1	
ATOM	35839	C2 GUA	804	152.235	106.383	-35.919	1.00	37.59	Al6S	ATOM	35892	C3' GUA	806	149.229	113.673	-41.982	1.00	53.80	Al1	
ATOM	35840	N2 GUA	804	151.345	105.834	-36.755	1.00	37.59	Al6S	ATOM	35893	P	807	149.016	114.521	-43.089	1.00	53.80	Al1	
ATOM	35841	N1 GUA	804	151.723	106.950	-34.790	1.00	37.59	Al6S	ATOM	35894	O1P CYT	807	149.290	116.091	-42.941	1.00	48.30	Al1	
ATOM	35842	C6 GUA	804	152.465	107.584	-33.808	1.00	37.59	Al6S	ATOM	35895	O2P CYT	807	149.110	116.643	-44.303	1.00	47.42	Al1	
ATOM	35843	O6 GUA	804	151.894	108.063	-32.829	1.00	37.59	Al6S	ATOM	35896	C5' CYT	807	150.542	116.335	-42.214	1.00	48.30	Al1	
ATOM	35844	C5 GUA	804	153.851	107.577	-34.113	1.00	37.59	Al6S	ATOM	35897	O5' CYT	807	148.089	116.596	-42.039	1.00	48.30	Al1	
ATOM	35845	N7 GUA	804	154.936	108.100	-33.418	1.00	37.59	Al6S	ATOM	35898	C5' CYT	807	146.764	116.499	-42.517	1.00	48.30	Al1	
ATOM	35846	C8 GUA	804	155.964	107.806	-34.165	1.00	37.59	Al6S	ATOM	35899	C4' CYT	807	145.802	116.895	-41.443	1.00	48.30	Al1	

ATOM	35900	O4' CYT	807	145.883	115.969	-40.331	1.00	48.30	Al6s	ATOM	35953	C2' CYT	809	146.546	126.834	-33.159	1.00	38.38	Al1
ATOM	35901	C1' CYT	807	145.552	116.649	-39.135	1.00	48.30	Al6s	ATOM	35954	O2' CYT	809	145.852	127.297	-32.018	1.00	38.38	Al1
ATOM	35902	N1 CYT	807	146.687	116.576	-38.215	1.00	47.42	Al6s	ATOM	35955	C3' CYT	809	145.950	127.357	-34.458	1.00	38.38	Al1
ATOM	35903	C6 CYT	807	147.954	116.328	-38.660	1.00	47.42	Al6s	ATOM	35956	O3' CYT	809	145.548	128.701	-34.322	1.00	38.38	Al1
ATOM	35904	C2 CYT	807	146.444	116.787	-36.870	1.00	47.42	Al6s	ATOM	35957	P' URI	810	146.548	129.869	-34.729	1.00	35.86	Al1
ATOM	35905	O2 CYT	807	145.277	116.981	-36.505	1.00	47.42	Al6s	ATOM	35958	O1P URI	810	145.842	131.162	-34.523	1.00	48.76	Al1
ATOM	35906	N3 CYT	807	147.474	116.772	-35.996	1.00	47.42	Al6s	ATOM	35959	O2P URI	810	147.146	129.549	-36.050	1.00	48.76	Al1
ATOM	35907	C4 CYT	807	148.712	116.546	-36.435	1.00	47.42	Al6s	ATOM	35960	O5' URI	810	147.476	129.816	-33.618	1.00	35.86	Al1
ATOM	35908	N4 CYT	807	149.702	116.548	-35.538	1.00	47.42	Al6s	ATOM	35961	C5' URI	810	147.695	130.524	-32.407	1.00	35.86	Al1
ATOM	35909	C5 CYT	807	148.990	116.308	-37.814	1.00	47.42	Al6s	ATOM	35962	C4' URI	810	148.736	130.430	-31.562	1.00	35.86	Al1
ATOM	35910	C2' CYT	807	145.257	118.093	-39.528	1.00	48.30	Al6s	ATOM	35963	O4' URI	810	149.105	129.038	-31.421	1.00	35.86	Al1
ATOM	35911	O2' CYT	807	143.888	118.176	-39.851	1.00	48.30	Al6s	ATOM	35964	N1' URI	810	150.500	128.930	-31.282	1.00	35.86	Al1
ATOM	35912	C3' CYT	807	146.092	118.219	-40.786	1.00	48.30	Al6s	ATOM	35965	C1' URI	810	150.974	128.039	-32.348	1.00	48.76	Al1
ATOM	35913	O3' CYT	807	145.609	119.252	-41.604	1.00	48.30	Al6s	ATOM	35966	C6 URI	810	150.153	127.713	-33.396	1.00	48.76	Al1
ATOM	35914	P' GUA	808	146.235	120.713	-41.473	1.00	43.32	Al6s	ATOM	35967	C2 URI	810	152.254	127.532	-32.260	1.00	48.76	Al1
ATOM	35915	O1P GUA	808	145.700	121.507	-42.627	1.00	39.93	Al6s	ATOM	35968	O2 URI	810	153.027	127.830	-31.369	1.00	48.76	Al1
ATOM	35916	O2P GUA	808	147.701	120.541	-41.315	1.00	39.93	Al6s	ATOM	35969	N3 URI	810	152.600	126.672	-33.267	1.00	48.76	Al1
ATOM	35917	O5' GUA	808	145.619	121.267	-40.112	1.00	43.32	Al6s	ATOM	35970	C4 URI	810	151.817	126.293	-34.339	1.00	48.76	Al1
ATOM	35918	C5' GUA	808	143.239	121.576	-40.028	1.00	43.32	Al6s	ATOM	35971	O4 URI	810	152.256	125.483	-35.153	1.00	48.76	Al1
ATOM	35919	C4' GUA	808	143.868	121.898	-38.610	1.00	43.32	Al6s	ATOM	35972	C5' URI	810	150.521	126.884	-34.371	1.00	48.76	Al1
ATOM	35920	O4' GUA	808	144.228	120.774	-37.762	1.00	43.32	Al6s	ATOM	35973	C2' URI	810	151.058	130.354	-31.321	1.00	35.86	Al1
ATOM	35921	C1' GUA	808	144.577	121.252	-36.474	1.00	43.32	Al6s	ATOM	35974	O2' URI	810	151.117	130.873	-30.007	1.00	35.86	Al1
ATOM	35922	N9 GUA	808	145.937	120.825	-36.165	1.00	39.93	Al6s	ATOM	35975	C3' URI	810	149.984	131.076	-32.113	1.00	35.86	Al1
ATOM	35923	C4 GUA	808	146.553	120.920	-34.942	1.00	39.93	Al6s	ATOM	35976	C3' URI	810	149.984	132.449	-31.756	1.00	35.86	Al1
ATOM	35924	N3 GUA	808	146.010	121.443	-33.825	1.00	39.93	Al6s	ATOM	35977	P' ADE	811	150.307	133.563	-32.867	1.00	44.78	Al1
ATOM	35925	C2 GUA	808	146.841	121.401	-32.811	1.00	39.93	Al6s	ATOM	35978	O1P ADE	811	150.524	134.821	-32.105	1.00	43.76	Al1
ATOM	35926	N2 GUA	808	146.478	121.915	-31.642	1.00	39.93	Al6s	ATOM	35979	O2P ADE	811	149.282	133.506	-33.940	1.00	43.76	Al1
ATOM	35927	N1 GUA	808	148.095	120.863	-32.877	1.00	39.93	Al6s	ATOM	35980	O5' ADE	811	151.700	133.135	-33.501	1.00	44.78	Al1
ATOM	35928	C6 GUA	808	148.672	120.309	-34.014	1.00	39.93	Al6s	ATOM	35981	C5' ADE	811	152.901	133.356	-32.791	1.00	44.78	Al1
ATOM	35929	O6 GUA	808	149.815	119.836	-33.958	1.00	39.93	Al6s	ATOM	35982	C4' ADE	811	153.335	134.789	-32.946	1.00	44.78	Al1
ATOM	35930	C5 GUA	808	147.801	120.372	-35.117	1.00	39.93	Al6s	ATOM	35983	O4' ADE	811	154.327	135.053	-31.932	1.00	44.78	Al1
ATOM	35931	N7 GUA	808	147.975	119.951	-36.425	1.00	39.93	Al6s	ATOM	35984	C1' ADE	811	155.259	136.003	-32.412	1.00	44.78	Al1
ATOM	35932	C8 GUA	808	146.846	120.241	-37.012	1.00	39.93	Al6s	ATOM	35985	N9 ADE	811	156.574	135.380	-32.442	1.00	43.76	Al1
ATOM	35933	C2' GUA	808	144.428	122.770	-36.501	1.00	43.32	Al6s	ATOM	35986	C4 ADE	811	157.710	135.983	-31.990	1.00	43.76	Al1
ATOM	35934	O2' GUA	808	143.120	123.087	-36.100	1.00	43.32	Al6s	ATOM	35987	N3 ADE	811	159.070	137.462	-31.105	1.00	43.76	Al1
ATOM	35935	C3' GUA	808	144.616	123.058	-37.980	1.00	43.32	Al6s	ATOM	35988	C2 ADE	811	160.168	136.716	-31.283	1.00	43.76	Al1
ATOM	35936	O3' GUA	808	144.035	124.306	-38.328	1.00	43.32	Al6s	ATOM	35989	N1 ADE	811	160.038	135.502	-31.858	1.00	43.76	Al1
ATOM	35937	P' GUA	809	144.973	125.606	-38.463	1.00	38.38	Al6s	ATOM	35990	C6 ADE	811	161.140	134.771	-32.039	1.00	43.76	Al1
ATOM	35938	O1P CYT	809	144.169	126.643	-39.165	1.00	40.64	Al6s	ATOM	35991	N6 ADE	811	158.735	135.091	-32.233	1.00	43.76	Al1
ATOM	35939	O2P CYT	809	146.271	125.181	-39.041	1.00	40.64	Al6s	ATOM	35992	C5 ADE	811	158.735	135.091	-32.233	1.00	43.76	Al1
ATOM	35940	O5' CYT	809	145.264	126.059	-36.961	1.00	38.38	Al6s	ATOM	35993	C8 ADE	811	158.241	133.928	-32.812	1.00	43.76	Al1
ATOM	35941	C5' CYT	809	144.208	126.349	-36.053	1.00	38.38	Al6s	ATOM	35994	N7 ADE	811	156.956	134.151	-32.911	1.00	43.76	Al1
ATOM	35942	C4' CYT	809	144.745	126.455	-34.644	1.00	38.38	Al6s	ATOM	35995	C2' ADE	811	154.786	136.429	-33.794	1.00	44.78	Al1
ATOM	35943	O4' CYT	809	145.223	125.160	-33.196	1.00	38.38	Al6s	ATOM	35996	O2' ADE	811	153.952	137.554	-33.633	1.00	44.78	Al1
ATOM	35944	C1' CYT	809	146.324	125.332	-33.314	1.00	38.38	Al6s	ATOM	35997	C3' ADE	811	154.034	135.186	-34.235	1.00	44.78	Al1
ATOM	35945	N1 CYT	809	147.488	124.658	-33.895	1.00	40.64	Al6s	ATOM	35998	O3' ADE	811	153.125	135.486	-35.277	1.00	44.78	Al1
ATOM	35946	C6 CYT	809	147.512	124.321	-35.217	1.00	40.64	Al6s	ATOM	35999	P' GUA	812	153.684	135.859	-36.742	1.00	51.22	Al1
ATOM	35947	C2' CYT	809	148.575	124.368	-33.073	1.00	40.64	Al6s	ATOM	36000	O1P GUA	812	152.545	136.415	-37.513	1.00	45.54	Al1
ATOM	35948	O2' CYT	809	148.519	124.671	-31.877	1.00	40.64	Al6s	ATOM	36001	O2P GUA	812	154.426	134.699	-37.286	1.00	45.54	Al1
ATOM	35949	N3 CYT	809	149.657	123.760	-33.602	1.00	40.64	Al6s	ATOM	36002	O5' GUA	812	154.717	137.039	-36.464	1.00	51.22	Al1
ATOM	35950	C4 CYT	809	149.671	123.437	-33.893	1.00	40.64	Al6s	ATOM	36003	C5' GUA	812	155.756	137.336	-37.379	1.00	51.22	Al1
ATOM	35951	N4 CYT	809	150.754	122.839	-35.370	1.00	40.64	Al6s	ATOM	36004	C4' GUA	812	156.827	138.138	-36.690	1.00	51.22	Al1
ATOM	35952	C5 CYT	809	148.572	123.715	-35.751	1.00	40.64	Al6s	ATOM	36005	O4' GUA	812	157.188	137.488	-35.443	1.00	51.22	Al1

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ATOM	36006	C1' GUA	812	158.596	137.381	-35.347	1.00	51.22	A16S	ATOM	36059	C4 URI	814	162.581	133.549	-42.211	1.00	53.09	A16
ATOM	36007	N9 GUA	812	158.937	136.000	-35.650	1.00	45.54	A16S	ATOM	36060	O5 URI	814	163.630	135.642	-41.887	1.00	53.09	A16
ATOM	36008	C4 GUA	812	160.164	135.400	-35.527	1.00	45.54	A16S	ATOM	36061	C2' URI	814	167.860	136.609	-42.893	1.00	57.62	A16
ATOM	36009	N3 GUA	812	161.292	135.988	-35.091	1.00	45.54	A16S	ATOM	36062	O2' URI	814	169.265	136.678	-42.804	1.00	57.62	A16
ATOM	36010	C2 GUA	812	162.308	135.155	-35.089	1.00	45.54	A16S	ATOM	36063	C3' URI	814	167.239	137.971	-43.147	1.00	57.62	A16
ATOM	36011	N2 GUA	812	163.502	135.578	-34.688	1.00	45.54	A16S	ATOM	36064	C3' URI	814	167.960	138.708	-44.118	1.00	57.62	A16
ATOM	36012	N1 GUA	812	162.224	133.847	-35.478	1.00	45.54	A16S	ATOM	36065	P CYT	815	167.694	138.424	-45.673	1.00	64.85	A16
ATOM	36013	C6 GUA	812	161.069	133.221	-35.925	1.00	45.54	A16S	ATOM	36066	O1P CYT	815	168.374	139.503	-46.430	1.00	68.28	A16
ATOM	36014	O6 GUA	812	161.092	132.025	-36.241	1.00	45.54	A16S	ATOM	36067	O2P CYT	815	166.242	138.185	-45.881	1.00	68.28	A16
ATOM	36015	C5 GUA	812	159.978	134.105	-35.940	1.00	45.54	A16S	ATOM	36068	O5' CYT	815	168.470	137.057	-45.938	1.00	64.85	A16
ATOM	36016	N7 GUA	812	158.659	133.892	-36.317	1.00	45.54	A16S	ATOM	36069	C5' CYT	815	169.886	136.988	-45.794	1.00	64.85	A16
ATOM	36017	C8 GUA	812	158.080	135.041	-36.127	1.00	45.54	A16S	ATOM	36070	C4' CYT	815	170.372	135.578	-46.022	1.00	64.85	A16
ATOM	36018	C2' GUA	812	159.166	138.350	-36.379	1.00	51.22	A16S	ATOM	36071	O4' CYT	815	169.904	134.715	-44.949	1.00	64.85	A16
ATOM	36019	O2' GUA	812	159.228	139.629	-35.797	1.00	51.22	A16S	ATOM	36072	C1' CYT	815	169.723	133.399	-45.449	1.00	64.85	A16
ATOM	36020	C3' GUA	812	158.117	138.265	-37.477	1.00	51.22	A16S	ATOM	36073	N1 CYT	815	168.318	133.037	-45.307	1.00	68.28	A16
ATOM	36021	O3' GUA	812	158.084	139.443	-38.268	1.00	51.22	A16S	ATOM	36074	C6 CYT	815	167.344	133.989	-45.269	1.00	68.28	A16
ATOM	36022	P GUA	813	158.797	139.448	-39.704	1.00	53.63	A16S	ATOM	36075	C2 CYT	815	167.988	131.689	-45.252	1.00	68.28	A16
ATOM	36023	O1P GUA	813	158.599	140.782	-40.314	1.00	55.92	A16S	ATOM	36076	O2 CYT	815	168.900	130.855	-45.225	1.00	68.28	A16
ATOM	36024	O2P GUA	813	158.362	138.228	-40.443	1.00	55.92	A16S	ATOM	36077	N3 CYT	815	166.692	131.323	-45.223	1.00	68.28	A16
ATOM	36025	O5' GUA	813	160.337	139.311	-39.343	1.00	53.63	A16S	ATOM	36078	C4' CYT	815	165.743	132.255	-45.230	1.00	68.28	A16
ATOM	36026	C5' GUA	813	160.986	140.311	-38.582	1.00	53.63	A16S	ATOM	36079	N4 CYT	815	164.473	131.847	-45.243	1.00	68.28	A16
ATOM	36027	C4' GUA	813	162.424	139.935	-38.364	1.00	53.63	A16S	ATOM	36080	C5 CYT	815	166.054	133.646	-45.234	1.00	68.28	A16
ATOM	36028	O4' GUA	813	162.499	138.756	-37.523	1.00	53.63	A16S	ATOM	36081	C2' CYT	815	170.082	133.422	-46.934	1.00	64.85	A16
ATOM	36029	C1' GUA	813	163.669	138.026	-37.842	1.00	53.63	A16S	ATOM	36082	O2' CYT	815	171.411	132.990	-47.113	1.00	64.85	A16
ATOM	36030	N9 GUA	813	163.269	136.679	-38.219	1.00	55.92	A16S	ATOM	36083	C3' CYT	815	169.852	134.888	-47.269	1.00	64.85	A16
ATOM	36031	C4 GUA	813	164.071	135.566	-38.271	1.00	55.92	A16S	ATOM	36084	O3' CYT	815	170.553	135.282	-48.434	1.00	64.85	A16
ATOM	36032	N3 GUA	813	165.377	135.513	-37.943	1.00	55.92	A16S	ATOM	36085	P URI	816	169.852	135.109	-49.870	1.00	52.39	A16
ATOM	36033	C2 GUA	813	165.870	134.293	-38.093	1.00	55.92	A16S	ATOM	36086	O1P URI	816	170.843	135.480	-50.917	1.00	55.40	A16
ATOM	36034	N2 GUA	813	167.144	134.038	-37.783	1.00	55.92	A16S	ATOM	36087	O2P URI	816	168.526	135.786	-49.843	1.00	55.40	A16
ATOM	36035	N1 GUA	813	165.147	133.228	-38.550	1.00	55.92	A16S	ATOM	36088	O5' URI	816	169.605	133.536	-49.976	1.00	52.39	A16
ATOM	36036	C6 GUA	813	163.809	133.266	-38.909	1.00	55.92	A16S	ATOM	36089	C5' URI	816	170.694	132.653	-50.182	1.00	52.39	A16
ATOM	36037	O6 GUA	813	163.260	132.250	-39.340	1.00	55.92	A16S	ATOM	36090	C4' URI	816	170.215	131.229	-50.220	1.00	52.39	A16
ATOM	36038	C5 GUA	813	163.259	134.551	-38.724	1.00	55.92	A16S	ATOM	36091	O4' URI	816	169.451	130.961	-49.018	1.00	52.39	A16
ATOM	36039	N7 GUA	813	161.967	135.009	-38.928	1.00	55.92	A16S	ATOM	36092	C1' URI	816	168.492	129.950	-49.283	1.00	52.39	A16
ATOM	36040	C8 GUA	813	162.020	136.275	-38.614	1.00	55.92	A16S	ATOM	36093	N1 URI	816	167.164	130.475	-48.960	1.00	55.40	A16
ATOM	36041	C2' GUA	813	164.347	138.769	-38.994	1.00	53.63	A16S	ATOM	36094	C6 URI	816	166.947	131.821	-48.824	1.00	55.40	A16
ATOM	36042	O2' GUA	813	165.273	139.704	-38.492	1.00	53.63	A16S	ATOM	36095	C2' URI	816	166.133	129.566	-48.825	1.00	55.40	A16
ATOM	36043	C3' GUA	813	163.171	139.498	-39.603	1.00	53.63	A16S	ATOM	36096	O2' URI	816	166.297	128.362	-48.876	1.00	55.40	A16
ATOM	36044	O3' GUA	813	163.609	140.609	-40.360	1.00	53.63	A16S	ATOM	36097	N3 URI	816	164.903	130.123	-48.610	1.00	55.40	A16
ATOM	36045	P URI	814	163.859	140.438	-41.938	1.00	57.62	A16S	ATOM	36098	O4 URI	816	164.614	131.461	-48.486	1.00	55.40	A16
ATOM	36046	O1P URI	814	164.388	141.750	-42.379	1.00	53.09	A16S	ATOM	36099	C4 URI	816	163.451	131.807	-48.307	1.00	55.40	A16
ATOM	36047	O2P URI	814	162.669	139.868	-42.628	1.00	53.09	A16S	ATOM	36100	C5 URI	816	165.741	132.333	-48.595	1.00	55.40	A16
ATOM	36048	O5' URI	814	165.047	139.375	-41.988	1.00	57.62	A16S	ATOM	36101	C2' URI	816	168.606	129.598	-50.769	1.00	52.39	A16
ATOM	36049	C5' URI	814	166.348	139.729	-41.525	1.00	57.62	A16S	ATOM	36102	O2' URI	816	169.398	128.430	-50.898	1.00	52.39	A16
ATOM	36050	C4' URI	814	167.317	138.604	-41.772	1.00	57.62	A16S	ATOM	36103	C3' URI	816	169.250	130.865	-51.328	1.00	52.39	A16
ATOM	36051	O4' URI	814	167.025	137.507	-40.870	1.00	57.62	A16S	ATOM	36104	O3' URI	816	169.952	130.625	-52.536	1.00	52.39	A16
ATOM	36052	C1' URI	814	167.267	136.271	-41.524	1.00	57.62	A16S	ATOM	36105	P CYT	817	169.205	130.830	-53.943	1.00	51.72	A16
ATOM	36053	N1 URI	814	165.986	135.562	-41.650	1.00	53.09	A16S	ATOM	36106	O1P CYT	817	170.256	130.970	-54.980	1.00	54.42	A16
ATOM	36054	C6 URI	814	164.800	136.250	-41.722	1.00	53.09	A16S	ATOM	36107	O2P CYT	817	168.165	131.886	-53.804	1.00	54.42	A16
ATOM	36055	C2 URI	814	166.015	134.189	-41.716	1.00	53.09	A16S	ATOM	36108	O5' CYT	817	168.450	129.449	-54.192	1.00	51.72	A16
ATOM	36056	O2 URI	814	167.032	133.546	-41.624	1.00	53.09	A16S	ATOM	36109	C5' CYT	817	169.175	128.244	-54.377	1.00	51.72	A16
ATOM	36057	N3 URI	814	164.800	133.598	-41.889	1.00	53.09	A16S	ATOM	36110	C4' CYT	817	168.223	127.083	-54.485	1.00	51.72	A16
ATOM	36058	C4 URI	814	163.584	134.223	-41.992	1.00	53.09	A16S	ATOM	36111	O4' CYT	817	167.570	126.865	-53.209	1.00	51.72	A16

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ATOM	36112	C1' CYT	817	166.222	126.465	-53.422	1.00	51.72	Al6s	ATOM	36165	O2' GUA	819	154.951	128.027	-60.144	1.00	73.25	Al
ATOM	36113	N1 CYT	817	165.335	127.466	-52.810	1.00	54.42	Al6s	ATOM	36166	C3' GUA	819	157.092	129.043	-60.641	1.00	73.25	Al
ATOM	36114	C6 CYT	817	165.788	128.721	-52.521	1.00	54.42	Al6s	ATOM	36167	O3' GUA	819	156.547	129.176	-61.947	1.00	73.25	Al
ATOM	36115	C2 CYT	817	164.016	127.116	-52.538	1.00	54.42	Al6s	ATOM	36168	P GUA	820	156.277	130.645	-62.559	1.00	67.86	Al
ATOM	36116	O2 CYT	817	163.652	125.956	-52.753	1.00	54.42	Al6s	ATOM	36169	O1P GUA	820	155.862	130.400	-63.964	1.00	61.74	Al
ATOM	36117	N3 CYT	817	163.173	128.041	-52.034	1.00	54.42	Al6s	ATOM	36170	O2P GUA	820	157.439	131.523	-62.276	1.00	61.74	Al
ATOM	36118	C4 CYT	817	163.616	129.271	-51.781	1.00	54.42	Al6s	ATOM	36171	O5' GUA	820	155.040	131.230	-61.735	1.00	67.86	Al
ATOM	36119	N4 CYT	817	162.744	130.168	-51.318	1.00	54.42	Al6s	ATOM	36172	C5' GUA	820	153.693	130.879	-62.066	1.00	67.86	Al
ATOM	36120	C5 CYT	817	164.973	129.643	-52.005	1.00	54.42	Al6s	ATOM	36173	C4' GUA	820	152.711	131.645	-61.200	1.00	67.86	Al
ATOM	36121	C2' CYT	817	166.014	126.348	-54.932	1.00	51.72	Al6s	ATOM	36174	O4' GUA	820	153.011	131.398	-59.796	1.00	67.86	Al
ATOM	36122	O3' CYT	817	166.188	125.002	-55.324	1.00	51.72	Al6s	ATOM	36175	C1' GUA	820	152.702	132.551	-59.027	1.00	67.86	Al
ATOM	36123	C3' CYT	817	167.083	127.304	-55.455	1.00	51.72	Al6s	ATOM	36176	N9 GUA	820	153.931	133.055	-58.424	1.00	61.74	Al
ATOM	36124	O3' CYT	817	167.488	127.017	-56.782	1.00	51.72	Al6s	ATOM	36177	C4 GUA	820	154.022	133.980	-57.411	1.00	61.74	Al
ATOM	36125	P URI	818	166.763	127.753	-58.005	1.00	51.15	Al6s	ATOM	36178	N3 GUA	820	152.986	134.570	-56.775	1.00	61.74	Al
ATOM	36126	O1P URI	818	167.303	127.161	-59.251	1.00	59.60	Al6s	ATOM	36179	C2 GUA	820	153.397	135.437	-55.858	1.00	61.74	Al
ATOM	36127	O2P URI	818	166.832	129.221	-57.802	1.00	59.60	Al6s	ATOM	36180	N2 GUA	820	152.509	136.122	-55.141	1.00	61.74	Al
ATOM	36128	O5' URI	818	165.247	127.287	-57.878	1.00	51.15	Al6s	ATOM	36181	N1 GUA	820	154.711	135.698	-55.581	1.00	61.74	Al
ATOM	36129	C5' URI	818	164.849	126.027	-58.399	1.00	51.15	Al6s	ATOM	36182	C6 GUA	820	155.794	135.102	-56.216	1.00	61.74	Al
ATOM	36130	C4' URI	818	163.364	125.813	-58.222	1.00	51.15	Al6s	ATOM	36183	O6 GUA	820	155.373	134.171	-57.210	1.00	61.74	Al
ATOM	36131	O4' URI	818	163.049	125.791	-56.805	1.00	51.15	Al6s	ATOM	36184	C5 GUA	820	156.943	135.414	-55.885	1.00	61.74	Al
ATOM	36132	C1' URI	818	161.721	126.251	-56.612	1.00	51.15	Al6s	ATOM	36185	N7 GUA	820	155.115	133.372	-58.068	1.00	61.74	Al
ATOM	36133	N1 URI	818	161.787	127.499	-55.859	1.00	59.60	Al6s	ATOM	36186	C8 GUA	820	155.219	132.726	-58.765	1.00	61.74	Al
ATOM	36134	C6 URI	818	162.961	128.180	-55.639	1.00	59.60	Al6s	ATOM	36187	C2' GUA	820	152.090	133.567	-59.988	1.00	67.86	Al
ATOM	36135	C2 URI	818	160.613	127.969	-55.351	1.00	59.60	Al6s	ATOM	36188	O2' GUA	820	150.688	133.400	-59.999	1.00	67.86	Al
ATOM	36136	O2 URI	818	159.573	127.345	-55.446	1.00	59.60	Al6s	ATOM	36189	O3' GUA	820	152.735	133.161	-61.305	1.00	67.86	Al
ATOM	36137	N3 URI	818	160.696	129.186	-54.727	1.00	59.60	Al6s	ATOM	36190	C3' GUA	820	151.966	133.627	-62.408	1.00	67.86	Al
ATOM	36138	C4 URI	818	161.832	129.943	-54.554	1.00	59.60	Al6s	ATOM	36191	P GUA	821	152.213	135.111	-62.985	1.00	85.49	Al
ATOM	36139	O4 URI	818	161.753	131.035	-53.997	1.00	59.60	Al6s	ATOM	36192	O1P GUA	821	151.349	135.255	-64.183	1.00	82.30	Al
ATOM	36140	C5 URI	818	163.025	129.357	-55.080	1.00	59.60	Al6s	ATOM	36193	O2P GUA	821	153.672	135.329	-63.103	1.00	82.30	Al
ATOM	36141	C2' URI	818	161.151	126.562	-57.995	1.00	51.15	Al6s	ATOM	36194	O5' GUA	821	151.664	136.085	-61.851	1.00	85.49	Al
ATOM	36142	O2' URI	818	160.457	125.451	-58.532	1.00	51.15	Al6s	ATOM	36195	C5' GUA	821	150.266	136.177	-61.577	1.00	85.49	Al
ATOM	36143	C3' URI	818	162.424	126.879	-58.758	1.00	51.15	Al6s	ATOM	36196	C4' GUA	821	150.015	137.164	-60.460	1.00	85.49	Al
ATOM	36144	O3' URI	818	162.200	126.789	-60.154	1.00	51.15	Al6s	ATOM	36197	O1' GUA	821	150.614	136.667	-59.236	1.00	85.49	Al
ATOM	36145	P GUA	819	161.674	128.085	-60.939	1.00	73.25	Al6s	ATOM	36198	C4' GUA	821	151.293	137.719	-58.570	1.00	85.49	Al
ATOM	36146	O1P GUA	819	161.711	127.740	-62.381	1.00	57.02	Al6s	ATOM	36199	N9 GUA	821	152.718	137.483	-58.744	1.00	82.30	Al
ATOM	36147	O2P GUA	819	162.450	129.246	-60.438	1.00	57.02	Al6s	ATOM	36200	C4 GUA	821	153.748	138.056	-58.042	1.00	82.30	Al
ATOM	36148	O5' GUA	819	160.152	128.256	-60.468	1.00	73.25	Al6s	ATOM	36201	N3 GUA	821	153.627	138.951	-57.043	1.00	82.30	Al
ATOM	36149	C5' GUA	819	159.144	127.385	-60.969	1.00	73.25	Al6s	ATOM	36202	C2 GUA	821	154.805	139.325	-56.575	1.00	82.30	Al
ATOM	36150	C4' GUA	819	157.774	127.705	-60.391	1.00	73.25	Al6s	ATOM	36203	N2 GUA	821	154.876	140.215	-55.580	1.00	82.30	Al
ATOM	36151	O4' GUA	819	157.802	127.679	-58.940	1.00	73.25	Al6s	ATOM	36204	N1 GUA	821	156.005	138.856	-57.049	1.00	82.30	Al
ATOM	36152	C1' GUA	819	156.625	128.314	-58.454	1.00	73.25	Al6s	ATOM	36205	C6 GUA	821	157.286	137.566	-58.437	1.00	82.30	Al
ATOM	36153	N9 GUA	819	156.970	129.360	-57.499	1.00	57.02	Al6s	ATOM	36206	O6 GUA	821	154.898	137.525	-58.588	1.00	82.30	Al
ATOM	36154	C4 GUA	819	156.074	130.008	-56.695	1.00	57.02	Al6s	ATOM	36207	C5 GUA	821	154.595	136.632	-59.605	1.00	82.30	Al
ATOM	36155	N3 GUA	819	154.753	129.756	-56.632	1.00	57.02	Al6s	ATOM	36208	N7 GUA	821	153.293	136.640	-59.661	1.00	82.30	Al
ATOM	36156	C2 GUA	819	154.144	130.582	-55.761	1.00	57.02	Al6s	ATOM	36209	C8 GUA	821	150.849	139.018	-59.240	1.00	85.49	Al
ATOM	36157	N2 GUA	819	152.830	130.382	-55.555	1.00	57.02	Al6s	ATOM	36210	C2' GUA	821	149.670	139.510	-58.634	1.00	85.49	Al
ATOM	36158	N1 GUA	819	154.780	131.501	-55.026	1.00	57.02	Al6s	ATOM	36211	O2' GUA	821	150.627	138.541	-60.667	1.00	85.49	Al
ATOM	36159	C6 GUA	819	156.140	131.782	-55.083	1.00	57.02	Al6s	ATOM	36212	C3' GUA	821	149.728	139.388	-61.366	1.00	85.49	Al
ATOM	36160	O6 GUA	819	156.613	132.680	-54.378	1.00	57.02	Al6s	ATOM	36213	O3' GUA	822	150.295	140.395	-62.473	1.00	133.18	Al
ATOM	36161	C5 GUA	819	156.807	130.938	-55.999	1.00	57.02	Al6s	ATOM	36214	P URI	822	149.257	140.511	-63.528	1.00	135.49	Al
ATOM	36162	N7 GUA	819	158.148	130.866	-56.345	1.00	57.02	Al6s	ATOM	36215	O1P URI	822	151.669	139.964	-62.832	1.00	133.18	Al
ATOM	36163	C8 GUA	819	158.199	129.913	-57.236	1.00	57.02	Al6s	ATOM	36216	O2P URI	822	150.387	141.787	-61.715	1.00	133.18	Al
ATOM	36164	C2' GUA	819	155.930	128.928	-59.666	1.00	73.25	Al6s	ATOM	36217	O5' URI	822						Al

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ATOM	36218	C5' URI	822	151.310	141.978	-60.658	1.00133.18	A16S	ATOM	36271	O2' URI	824	163.129	144.995	-53.762	1.00200.05	A16
ATOM	36219	C4' URI	822	151.135	143.353	-60.083	1.00133.18	A16S	ATOM	36272	C3' URI	824	161.086	144.530	-52.724	1.00200.05	A16
ATOM	36220	O4' URI	822	149.737	143.552	-59.772	1.00133.18	A16S	ATOM	36273	O3' URI	824	161.085	144.573	-52.724	1.00200.05	A16
ATOM	36221	C1' URI	822	149.624	144.341	-58.606	1.00133.18	A16S	ATOM	36274	P	825	161.462	144.489	-50.488	1.00164.74	A16
ATOM	36222	N1 URI	822	148.759	143.630	-57.652	1.00135.49	A16S	ATOM	36275	O1P CYT	825	161.661	145.898	-50.061	1.00121.14	A16
ATOM	36223	C6 URI	822	147.843	142.701	-58.098	1.00135.49	A16S	ATOM	36276	O2P CYT	825	162.556	143.501	-50.299	1.00121.14	A16
ATOM	36224	C2 URI	822	148.868	143.932	-56.302	1.00135.49	A16S	ATOM	36277	O5' CYT	825	160.132	143.946	-49.796	1.00164.74	A16
ATOM	36225	O2 URI	822	149.678	144.730	-55.858	1.00135.49	A16S	ATOM	36278	C5' CYT	825	159.136	144.852	-49.330	1.00164.74	A16
ATOM	36226	N3 URI	822	147.990	143.259	-55.487	1.00135.49	A16S	ATOM	36279	C4' CYT	825	157.789	144.513	-49.928	1.00164.74	A16
ATOM	36227	C4 URI	822	147.039	142.334	-55.871	1.00135.49	A16S	ATOM	36280	O4' CYT	825	157.894	144.529	-51.377	1.00164.74	A16
ATOM	36228	O4 URI	822	146.295	141.841	-55.018	1.00135.49	A16S	ATOM	36281	C1' CYT	825	156.967	143.607	-51.929	1.00164.74	A16
ATOM	36229	C5 URI	822	147.002	142.063	-57.279	1.00135.49	A16S	ATOM	36282	N1 CYT	825	157.700	142.631	-52.752	1.00121.14	A16
ATOM	36230	C2' URI	822	151.036	144.714	-58.136	1.00133.18	A16S	ATOM	36283	C6 CYT	825	159.042	142.432	-52.588	1.00121.14	A16
ATOM	36231	O2' URI	822	151.362	146.015	-58.583	1.00133.18	A16S	ATOM	36284	C2 CYT	825	155.772	142.102	-53.838	1.00121.14	A16
ATOM	36232	C3' URI	822	151.889	143.633	-58.792	1.00133.18	A16S	ATOM	36285	O2' CYT	825	157.644	140.988	-54.468	1.00121.14	A16
ATOM	36233	O3' URI	822	153.199	144.098	-59.123	1.00133.18	A16S	ATOM	36286	N3 CYT	825	158.953	140.798	-54.297	1.00121.14	A16
ATOM	36234	P	823	154.137	144.769	-58.000	1.00200.66	A16S	ATOM	36287	C4 CYT	825	159.554	139.887	-55.063	1.00121.14	A16
ATOM	36235	O1P CYT	823	153.294	145.537	-57.050	1.00114.32	A16S	ATOM	36288	N4 CYT	825	156.225	142.956	-50.761	1.00164.74	A16
ATOM	36236	O2P CYT	823	155.222	145.451	-57.217	1.00200.66	A16S	ATOM	36289	C5 CYT	825	155.016	143.650	-50.523	1.00164.74	A16
ATOM	36237	O5' CYT	823	154.782	143.541	-57.217	1.00200.66	A16S	ATOM	36290	C2' CYT	825	157.231	143.131	-49.631	1.00164.74	A16
ATOM	36238	C5' CYT	823	155.756	143.751	-56.190	1.00200.66	A16S	ATOM	36291	O2' CYT	825	156.580	143.100	-48.367	1.00164.74	A16
ATOM	36239	C4' CYT	823	157.123	143.312	-56.669	1.00200.66	A16S	ATOM	36292	C3' CYT	825	157.465	140.808	-47.793	1.00119.52	A16
ATOM	36240	O4' CYT	823	157.038	141.923	-57.071	1.00200.66	A16S	ATOM	36293	O3' CYT	825	155.084	141.059	-48.531	1.00119.52	A16
ATOM	36241	C1' CYT	823	157.750	141.723	-58.275	1.00200.66	A16S	ATOM	36294	P	826	156.270	141.686	-47.664	1.00119.52	A16
ATOM	36242	N1 CYT	823	156.789	141.255	-59.285	1.00114.32	A16S	ATOM	36295	O1P CYT	826	157.465	140.808	-47.793	1.00119.52	A16
ATOM	36243	C6 CYT	823	155.519	141.757	-59.326	1.00114.32	A16S	ATOM	36296	O2P CYT	826	153.773	141.621	-48.482	1.00119.52	A16
ATOM	36244	C2 CYT	823	157.188	140.271	-60.195	1.00114.32	A16S	ATOM	36297	O5' CYT	826	152.912	139.918	-51.550	1.00119.52	A16
ATOM	36245	N3 CYT	823	158.357	139.853	-60.157	1.00114.32	A16S	ATOM	36298	C4' CYT	826	155.341	139.471	-51.466	1.00119.52	A16
ATOM	36246	O2' CYT	823	156.291	139.799	-61.092	1.00114.32	A16S	ATOM	36299	C5' CYT	826	152.936	138.451	-53.796	1.00119.52	A16
ATOM	36247	C4 CYT	823	155.046	140.281	-61.107	1.00114.32	A16S	ATOM	36300	O4' CYT	826	152.936	138.451	-53.796	1.00119.52	A16
ATOM	36248	N4 CYT	823	154.187	139.771	-61.994	1.00114.32	A16S	ATOM	36301	C1' CYT	826	152.912	139.918	-51.550	1.00119.52	A16
ATOM	36249	C5 CYT	823	154.623	141.303	-60.210	1.00114.32	A16S	ATOM	36302	N1 CYT	826	155.341	139.471	-51.466	1.00119.52	A16
ATOM	36250	C2' CYT	823	158.482	143.026	-58.612	1.00200.66	A16S	ATOM	36303	C6 CYT	826	152.936	138.451	-53.796	1.00119.52	A16
ATOM	36251	O2' CYT	823	153.809	142.972	-58.126	1.00200.66	A16S	ATOM	36304	C2 CYT	826	152.936	138.451	-53.796	1.00119.52	A16
ATOM	36252	C3' CYT	823	157.635	144.070	-57.887	1.00200.66	A16S	ATOM	36305	O2 CYT	826	155.149	137.975	-53.757	1.00119.52	A16
ATOM	36253	O3' CYT	823	158.466	145.167	-57.492	1.00200.66	A16S	ATOM	36306	N3 CYT	826	156.323	138.128	-53.140	1.00119.52	A16
ATOM	36254	P	824	157.966	146.202	-56.362	1.00200.66	A16S	ATOM	36307	C4 CYT	826	157.393	137.530	-53.672	1.00119.52	A16
ATOM	36255	O1P URI	824	156.525	146.479	-56.591	1.00200.66	A16S	ATOM	36308	N4 CYT	826	156.451	138.900	-51.951	1.00119.52	A16
ATOM	36256	O2P URI	824	158.928	147.331	-56.307	1.00200.66	A16S	ATOM	36309	C5 CYT	826	150.775	139.161	-50.727	1.00119.52	A16
ATOM	36257	O5' URI	824	158.101	145.372	-55.009	1.00200.66	A16S	ATOM	36310	C2' CYT	826	150.775	139.161	-50.727	1.00119.52	A16
ATOM	36258	C5' URI	824	158.786	145.901	-55.877	1.00200.66	A16S	ATOM	36311	O2' CYT	826	150.775	139.161	-50.727	1.00119.52	A16
ATOM	36259	C4' URI	824	160.273	145.671	-54.015	1.00200.66	A16S	ATOM	36312	C3' CYT	826	151.818	139.050	-48.210	1.00119.52	A16
ATOM	36260	O4' URI	824	160.836	146.724	-54.847	1.00200.66	A16S	ATOM	36313	O3' CYT	826	151.920	137.608	-47.506	1.00119.52	A16
ATOM	36261	C1' URI	824	162.029	148.485	-53.864	1.00200.66	A16S	ATOM	36314	P	827	150.799	137.506	-46.536	1.00119.52	A16
ATOM	36262	N1 URI	824	160.858	149.204	-53.947	1.00200.66	A16S	ATOM	36315	O1P URI	827	153.317	137.415	-47.029	1.00119.52	A16
ATOM	36263	C6 URI	824	163.172	149.047	-53.317	1.00200.66	A16S	ATOM	36316	O2P URI	827	150.313	136.440	-49.233	1.00119.52	A16
ATOM	36264	C2 URI	824	163.032	150.344	-52.887	1.00200.66	A16S	ATOM	36317	O5' URI	827	151.009	135.681	-51.411	1.00119.52	A16
ATOM	36265	O2 URI	824	161.891	151.121	-52.944	1.00200.66	A16S	ATOM	36318	C5' URI	827	150.799	137.506	-46.536	1.00119.52	A16
ATOM	36266	N3 URI	824	161.891	151.121	-52.944	1.00200.66	A16S	ATOM	36319	C5' URI	827	150.799	137.506	-46.536	1.00119.52	A16
ATOM	36267	C4 URI	824	161.891	151.121	-52.944	1.00200.66	A16S	ATOM	36320	O4' URI	827	150.799	137.506	-46.536	1.00119.52	A16
ATOM	36268	O4 URI	824	161.891	151.121	-52.944	1.00200.66	A16S	ATOM	36321	C1' URI	827	150.799	137.506	-46.536	1.00119.52	A16
ATOM	36269	C5 URI	824	161.891	151.121	-52.944	1.00200.66	A16S	ATOM	36322	N1 URI	827	150.799	137.506	-46.536	1.00119.52	A16
ATOM	36270	C2' URI	824	162.454	146.119	-53.231	1.00200.66	A16S	ATOM	36323	C6 URI	827	150.799	137.506	-46.536	1.00119.52	A16

ATOM	36324	C2	URI	827	153.759	133.794	-52.828	1.00	93.82	Al6S	ATOM	36377	O2	GUA	829	156.419	121.991	-51.426	1.00	58.44	Al
ATOM	36325	O2	URI	827	153.225	133.000	-53.583	1.00	93.82	Al6S	ATOM	36378	C3	GUA	829	155.510	123.395	-49.664	1.00	58.44	Al
ATOM	36326	N3	URI	827	155.119	133.961	-52.783	1.00	93.82	Al6S	ATOM	36379	O3	GUA	829	155.364	122.209	-48.903	1.00	58.44	Al
ATOM	36327	C4	URI	827	155.822	134.825	-51.971	1.00	93.82	Al6S	ATOM	36380	P	GUA	830	156.123	122.077	-47.493	1.00	50.54	Al
ATOM	36328	O4	URI	827	157.052	134.844	-52.033	1.00	93.82	Al6S	ATOM	36381	O1P	GUA	830	155.721	120.763	-46.921	1.00	51.31	Al
ATOM	36329	C5	URI	827	155.008	135.623	-51.101	1.00	93.82	Al6S	ATOM	36382	O2P	GUA	830	155.911	123.324	-46.713	1.00	51.31	Al
ATOM	36330	C2	URI	827	151.178	133.269	-51.041	1.00	83.26	Al6S	ATOM	36383	O5	GUA	830	157.680	122.071	-47.846	1.00	50.54	Al
ATOM	36331	O2	URI	827	150.029	132.629	-51.550	1.00	83.26	Al6S	ATOM	36384	C5	GUA	830	158.254	121.037	-48.627	1.00	50.54	Al
ATOM	36332	C3	URI	827	150.908	133.991	-49.733	1.00	83.26	Al6S	ATOM	36385	C4	GUA	830	159.712	122.333	-48.928	1.00	50.54	Al
ATOM	36333	O3	URI	827	150.041	133.228	-48.920	1.00	83.26	Al6S	ATOM	36386	O4	GUA	830	159.857	122.494	-49.790	1.00	50.54	Al
ATOM	36334	P	GUA	828	150.664	132.150	-47.913	1.00	76.64	Al6S	ATOM	36387	C1	GUA	830	161.179	122.993	-49.662	1.00	50.54	Al
ATOM	36335	O1P	GUA	828	149.529	131.569	-47.144	1.00	58.12	Al6S	ATOM	36388	N9	GUA	830	161.139	124.406	-49.329	1.00	51.31	Al
ATOM	36336	O2P	GUA	828	151.795	132.781	-47.191	1.00	58.12	Al6S	ATOM	36389	C4	GUA	830	162.218	125.250	-49.313	1.00	51.31	Al
ATOM	36337	O5	GUA	828	151.276	131.020	-48.861	1.00	76.64	Al6S	ATOM	36390	N3	GUA	830	163.488	124.916	-49.626	1.00	51.31	Al
ATOM	36338	C5	GUA	828	150.418	130.073	-49.470	1.00	76.64	Al6S	ATOM	36391	C2	GUA	830	164.309	125.949	-49.528	1.00	51.31	Al
ATOM	36339	C4	GUA	828	151.185	129.094	-50.332	1.00	76.64	Al6S	ATOM	36392	N2	GUA	830	165.605	125.797	-49.823	1.00	51.31	Al
ATOM	36340	O4	GUA	828	151.892	129.767	-51.403	1.00	76.64	Al6S	ATOM	36393	N1	GUA	830	163.918	127.208	-49.141	1.00	51.31	Al
ATOM	36341	C1	GUA	828	152.809	128.850	-51.972	1.00	76.64	Al6S	ATOM	36394	C6	GUA	830	162.617	127.571	-48.807	1.00	51.31	Al
ATOM	36342	N9	GUA	828	154.121	129.472	-52.099	1.00	58.12	Al6S	ATOM	36395	O6	GUA	830	162.368	128.738	-48.462	1.00	51.31	Al
ATOM	36343	C4	GUA	828	155.172	128.979	-52.838	1.00	58.12	Al6S	ATOM	36396	C5	GUA	830	161.722	126.470	-48.921	1.00	51.31	Al
ATOM	36344	N3	GUA	828	155.144	127.881	-53.619	1.00	58.12	Al6S	ATOM	36397	N7	GUA	830	160.054	125.151	-48.956	1.00	51.31	Al
ATOM	36345	C2	GUA	828	156.313	127.638	-54.168	1.00	58.12	Al6S	ATOM	36398	C8	GUA	830	161.847	122.219	-49.528	1.00	50.54	Al
ATOM	36346	N2	GUA	828	156.464	126.581	-54.980	1.00	58.12	Al6S	ATOM	36399	C2	GUA	830	162.650	121.201	-49.081	1.00	50.54	Al
ATOM	36347	N1	GUA	828	157.423	128.410	-53.967	1.00	58.12	Al6S	ATOM	36400	O2	GUA	830	160.638	121.679	-47.775	1.00	50.54	Al
ATOM	36348	C6	GUA	828	157.475	129.544	-53.170	1.00	58.12	Al6S	ATOM	36401	C3	GUA	830	161.014	120.532	-47.030	1.00	50.54	Al
ATOM	36349	O6	GUA	828	158.534	130.171	-53.056	1.00	58.12	Al6S	ATOM	36402	O3	GUA	831	161.884	120.708	-45.689	1.00	45.25	Al
ATOM	36350	C5	GUA	828	156.227	129.819	-52.577	1.00	58.12	Al6S	ATOM	36403	P	GUA	831	162.249	119.333	-45.244	1.00	46.41	Al
ATOM	36351	N7	GUA	828	155.842	130.847	-51.727	1.00	58.12	Al6S	ATOM	36404	O1P	GUA	831	161.178	121.620	-44.760	1.00	46.41	Al
ATOM	36352	C8	GUA	828	154.582	130.608	-51.481	1.00	58.12	Al6S	ATOM	36405	O2P	GUA	831	163.208	121.438	-46.173	1.00	45.25	Al
ATOM	36353	C2	GUA	828	152.863	127.645	-51.026	1.00	76.64	Al6S	ATOM	36406	O5	GUA	831	164.228	120.684	-46.794	1.00	45.25	Al
ATOM	36354	O2	GUA	828	152.035	126.630	-51.547	1.00	76.64	Al6S	ATOM	36407	C5	GUA	831	165.523	121.432	-46.762	1.00	45.25	Al
ATOM	36355	C3	GUA	828	152.280	128.228	-49.746	1.00	76.64	Al6S	ATOM	36408	C4	GUA	831	165.405	122.638	-47.561	1.00	45.25	Al
ATOM	36356	O3	GUA	828	151.745	127.170	-48.962	1.00	76.64	Al6S	ATOM	36409	C1	GUA	831	165.261	123.632	-47.030	1.00	45.25	Al
ATOM	36357	P	GUA	829	152.710	126.321	-47.992	1.00	58.44	Al6S	ATOM	36410	C1	GUA	831	165.444	124.777	-46.651	1.00	46.41	Al
ATOM	36358	O1P	GUA	829	153.573	127.251	-47.226	1.00	52.00	Al6S	ATOM	36411	N9	GUA	831	167.184	126.432	-46.404	1.00	46.41	Al
ATOM	36359	O2P	GUA	829	153.650	125.493	-48.979	1.00	58.44	Al6S	ATOM	36412	C4	GUA	831	165.901	126.036	-46.373	1.00	46.41	Al
ATOM	36360	O5	GUA	829	153.149	124.372	-49.710	1.00	58.44	Al6S	ATOM	36413	N3	GUA	831	168.512	128.280	-46.104	1.00	46.41	Al
ATOM	36361	C5	GUA	829	154.265	123.697	-50.473	1.00	58.44	Al6S	ATOM	36414	N2	GUA	831	164.940	128.155	-45.748	1.00	46.41	Al
ATOM	36362	C4	GUA	829	154.756	124.560	-51.541	1.00	58.44	Al6S	ATOM	36415	N2	GUA	831	164.078	128.986	-45.438	1.00	46.41	Al
ATOM	36363	O4	GUA	829	156.158	124.376	-51.698	1.00	58.44	Al6S	ATOM	36416	N1	GUA	831	164.700	126.777	-46.076	1.00	46.41	Al
ATOM	36364	C1	GUA	829	156.821	125.614	-51.303	1.00	52.00	Al6S	ATOM	36417	C6	GUA	831	163.636	125.994	-46.165	1.00	46.41	Al
ATOM	36365	N9	GUA	829	158.128	125.985	-51.565	1.00	52.00	Al6S	ATOM	36418	O5	GUA	831	164.081	124.815	-46.507	1.00	46.41	Al
ATOM	36366	C4	GUA	829	159.036	125.273	-52.268	1.00	52.00	Al6S	ATOM	36419	C6	GUA	831	166.169	122.417	-45.388	1.00	45.25	Al
ATOM	36367	N3	GUA	829	160.204	125.902	-52.346	1.00	52.00	Al6S	ATOM	36420	N7	GUA	831	165.971	121.951	-45.411	1.00	45.25	Al
ATOM	36368	C2	GUA	829	161.219	125.350	-53.027	1.00	52.00	Al6S	ATOM	36421	C8	GUA	831	166.388	120.851	-44.592	1.00	45.25	Al
ATOM	36369	N2	GUA	829	160.463	127.118	-51.766	1.00	52.00	Al6S	ATOM	36422	O2	GUA	831	167.612	120.994	-43.556	1.00	46.89	Al
ATOM	36370	N1	GUA	829	159.551	127.857	-51.027	1.00	52.00	Al6S	ATOM	36423	C2	GUA	831	168.732	121.663	-44.225	1.00	49.95	Al
ATOM	36371	C6	GUA	829	158.288	128.926	-50.516	1.00	52.00	Al6S	ATOM	36424	C3	GUA	831	167.820	119.657	-42.968	1.00	49.95	Al
ATOM	36372	O6	GUA	829	157.109	127.614	-50.345	1.00	52.00	Al6S	ATOM	36425	O3	GUA	832	167.175	121.989	-42.403	1.00	46.89	Al
ATOM	36373	C5	GUA	829	156.271	126.638	-50.576	1.00	52.00	Al6S	ATOM	36426	P	GUA	832						
ATOM	36374	N7	GUA	829	156.548	123.233	-50.762	1.00	58.44	Al6S	ATOM	36427	O1P	GUA	832						
ATOM	36375	C8	GUA	829						Al6S	ATOM	36428	O2P	GUA	832						
ATOM	36376	C2	GUA	829						Al6S	ATOM	36429	O5	GUA	832						

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ATOM	36430	C5' GUA	832	167.142	123.389	-42.641	1.00	46.89	A16S	ATOM	36483	N4	CYT	834	163.891	130.472	-36.205	1.00	55.20	A16
ATOM	36431	C4' GUA	832	168.492	124.039	-42.402	1.00	46.89	A16S	ATOM	36484	C5	CYT	834	166.241	130.493	-35.781	1.00	55.20	A16
ATOM	36432	O4' GUA	832	168.614	125.044	-43.438	1.00	46.89	A16S	ATOM	36485	C2' CYT	834	168.389	133.436	-33.000	1.00	47.77	A16	
ATOM	36433	C1' GUA	832	169.055	126.266	-42.888	1.00	46.89	A16S	ATOM	36486	O2' CYT	834	168.996	134.665	-32.688	1.00	47.77	A16	
ATOM	36434	N9 GUA	832	167.922	127.172	-42.871	1.00	49.95	A16S	ATOM	36487	C3' CYT	834	169.301	132.272	-32.656	1.00	47.77	A16	
ATOM	36435	C4 GUA	832	167.974	128.505	-42.606	1.00	49.95	A16S	ATOM	36488	O3' CYT	834	169.951	132.493	-31.412	1.00	47.77	A16	
ATOM	36436	N3 GUA	832	169.095	129.213	-42.374	1.00	49.95	A16S	ATOM	36489	P	835	169.169	132.178	-30.051	1.00	53.69	A16	
ATOM	36437	C2 GUA	832	168.833	130.474	-42.108	1.00	49.95	A16S	ATOM	36490	O1P GUA	835	169.954	132.708	-28.911	1.00	48.31	A16	
ATOM	36438	N2 GUA	832	169.840	131.322	-41.860	1.00	49.95	A16S	ATOM	36491	O2P GUA	835	168.767	130.752	-30.060	1.00	48.31	A16	
ATOM	36439	N1 GUA	832	167.565	130.994	-42.067	1.00	49.95	A16S	ATOM	36492	O5' GUA	835	167.870	133.079	-30.192	1.00	53.69	A16	
ATOM	36440	C6 GUA	832	166.396	130.279	-42.305	1.00	49.95	A16S	ATOM	36493	C5' GUA	835	166.778	132.963	-29.294	1.00	53.69	A16	
ATOM	36441	O6 GUA	832	165.301	130.845	-42.235	1.00	49.95	A16S	ATOM	36494	C4' GUA	835	165.654	133.849	-29.760	1.00	53.69	A16	
ATOM	36442	C5 GUA	832	166.667	128.930	-42.603	1.00	49.95	A16S	ATOM	36495	O4' GUA	835	165.545	133.737	-31.204	1.00	53.69	A16	
ATOM	36443	N7 GUA	832	165.809	127.885	-42.905	1.00	49.95	A16S	ATOM	36496	C1' GUA	835	164.203	133.517	-31.564	1.00	53.69	A16	
ATOM	36444	C8 GUA	832	166.601	126.863	-43.067	1.00	49.95	A16S	ATOM	36497	N9 GUA	835	164.101	132.114	-31.953	1.00	48.31	A16	
ATOM	36445	C2' GUA	832	169.546	125.969	-41.476	1.00	46.89	A16S	ATOM	36498	C4 GUA	835	163.019	131.492	-32.516	1.00	48.31	A16	
ATOM	36446	O2' GUA	832	170.905	125.614	-41.490	1.00	46.89	A16S	ATOM	36499	N3 GUA	835	161.838	132.067	-32.791	1.00	48.31	A16	
ATOM	36447	C3' GUA	832	168.653	124.805	-41.088	1.00	46.89	A16S	ATOM	36500	C2 GUA	835	160.996	131.222	-33.329	1.00	48.31	A16	
ATOM	36448	O3' GUA	832	169.281	124.059	-40.056	1.00	46.89	A16S	ATOM	36501	N2 GUA	835	159.768	131.628	-33.641	1.00	48.31	A16	
ATOM	36449	P	833	169.093	124.515	-38.517	1.00	42.42	A16S	ATOM	36502	N1 GUA	835	161.290	129.915	-33.594	1.00	48.31	A16	
ATOM	36450	O1P CYT	833	170.028	123.713	-37.680	1.00	45.00	A16S	ATOM	36503	C6 GUA	835	162.501	129.296	-33.320	1.00	48.31	A16	
ATOM	36451	O2P CYT	833	167.629	124.503	-38.215	1.00	45.00	A16S	ATOM	36504	O6 GUA	835	162.663	128.100	-33.605	1.00	48.31	A16	
ATOM	36452	O5' CYT	833	169.578	126.036	-38.463	1.00	42.42	A16S	ATOM	36505	C5 GUA	835	163.412	130.190	-32.726	1.00	48.31	A16	
ATOM	36453	C5' CYT	833	170.952	126.363	-38.362	1.00	42.42	A16S	ATOM	36506	N7 GUA	835	164.712	129.990	-32.288	1.00	48.31	A16	
ATOM	36454	C4' CYT	833	171.123	127.855	-38.201	1.00	42.42	A16S	ATOM	36507	C8 GUA	835	165.080	131.158	-31.835	1.00	48.31	A16	
ATOM	36455	O4' CYT	833	170.471	128.540	-39.303	1.00	42.42	A16S	ATOM	36508	C2' GUA	835	163.371	133.918	-30.343	1.00	53.69	A16	
ATOM	36456	C1' CYT	833	169.958	129.789	-38.861	1.00	42.42	A16S	ATOM	36509	O2' GUA	835	163.200	135.311	-30.368	1.00	53.69	A16	
ATOM	36457	N1 CYT	833	168.498	129.754	-38.983	1.00	45.00	A16S	ATOM	36510	C3' GUA	835	164.064	134.231	-28.007	1.00	53.69	A16	
ATOM	36458	C6 CYT	833	167.838	128.578	-39.184	1.00	45.00	A16S	ATOM	36511	O3' GUA	836	162.918	133.759	-26.980	1.00	46.58	A16	
ATOM	36459	C2 CYT	833	167.797	130.934	-38.864	1.00	45.00	A16S	ATOM	36512	P	836	162.918	133.759	-26.980	1.00	46.58	A16	
ATOM	36460	O2 CYT	833	166.424	131.980	-38.717	1.00	45.00	A16S	ATOM	36513	O1P ADE	836	162.943	134.702	-25.836	1.00	54.13	A16	
ATOM	36461	N3 CYT	833	166.456	130.916	-38.907	1.00	45.00	A16S	ATOM	36514	O2P ADE	836	163.030	132.301	-26.726	1.00	54.13	A16	
ATOM	36462	C4 CYT	833	165.815	129.764	-39.058	1.00	45.00	A16S	ATOM	36515	O5' ADE	836	161.571	134.016	-27.786	1.00	46.58	A16	
ATOM	36463	N4 CYT	833	166.488	129.785	-39.033	1.00	45.00	A16S	ATOM	36516	C5' ADE	836	161.198	135.338	-28.136	1.00	46.58	A16	
ATOM	36464	C5 CYT	833	166.506	128.539	-39.224	1.00	45.00	A16S	ATOM	36517	C4' ADE	836	159.713	135.524	-27.986	1.00	46.58	A16	
ATOM	36465	C2' CYT	833	170.351	129.932	-37.396	1.00	42.42	A16S	ATOM	36518	O4' ADE	836	159.006	135.099	-29.173	1.00	46.58	A16	
ATOM	36466	O2' CYT	833	171.569	130.626	-37.276	1.00	42.42	A16S	ATOM	36519	C1' ADE	836	157.669	134.798	-28.822	1.00	46.58	A16	
ATOM	36467	C3' CYT	833	170.472	128.474	-36.984	1.00	42.42	A16S	ATOM	36520	N9 ADE	836	157.316	133.494	-29.371	1.00	54.13	A16	
ATOM	36468	O3' CYT	833	171.288	128.358	-35.839	1.00	42.42	A16S	ATOM	36521	C4 ADE	836	156.036	133.019	-29.499	1.00	54.13	A16	
ATOM	36469	P	834	170.611	128.456	-34.392	1.00	47.77	A16S	ATOM	36522	N3 ADE	836	154.899	133.657	-29.178	1.00	54.13	A16	
ATOM	36470	O1P CYT	834	171.684	128.261	-33.390	1.00	55.20	A16S	ATOM	36523	C2 ADE	836	153.893	132.879	-29.410	1.00	54.13	A16	
ATOM	36471	O2P CYT	834	169.425	127.564	-34.399	1.00	55.20	A16S	ATOM	36524	N1 ADE	836	153.794	131.630	-29.886	1.00	54.13	A16	
ATOM	36472	O5' CYT	834	170.102	129.958	-34.112	1.00	47.77	A16S	ATOM	36525	C6 ADE	836	154.961	131.013	-30.195	1.00	54.13	A16	
ATOM	36473	C5' CYT	834	171.018	131.015	-34.112	1.00	47.77	A16S	ATOM	36526	N6 ADE	836	154.917	129.757	-30.656	1.00	54.13	A16	
ATOM	36474	C4' CYT	834	169.464	132.650	-34.961	1.00	47.77	A16S	ATOM	36527	C5 ADE	836	156.156	131.739	-30.002	1.00	54.13	A16	
ATOM	36475	O4' CYT	834	169.464	132.650	-34.961	1.00	47.77	A16S	ATOM	36528	N7 ADE	836	157.489	131.421	-30.209	1.00	54.13	A16	
ATOM	36476	C1' CYT	834	168.288	133.301	-34.519	1.00	47.77	A16S	ATOM	36529	C8 ADE	836	158.134	132.498	-29.825	1.00	54.13	A16	
ATOM	36477	N1 CYT	834	167.136	132.503	-34.955	1.00	55.20	A16S	ATOM	36530	C2' ADE	836	157.589	134.824	-27.291	1.00	46.58	A16	
ATOM	36478	C6 CYT	834	167.288	131.210	-35.368	1.00	55.20	A16S	ATOM	36531	O2' ADE	836	157.022	136.040	-26.864	1.00	46.58	A16	
ATOM	36479	C2 CYT	834	165.884	133.094	-34.944	1.00	55.20	A16S	ATOM	36532	C3' ADE	836	159.054	134.712	-26.900	1.00	46.58	A16	
ATOM	36480	O2 CYT	834	165.785	134.262	-34.534	1.00	55.20	A16S	ATOM	36533	O3' ADE	836	159.299	135.270	-25.627	1.00	46.58	A16	
ATOM	36481	N3 CYT	834	164.813	132.387	-35.370	1.00	55.20	A16S	ATOM	36534	P	837	159.163	134.344	-24.327	1.00	41.07	A16	
ATOM	36482	C4 CYT	834	164.969	131.130	-35.781	1.00	55.20	A16S	ATOM	36535	O1P ADE	837	159.148	135.274	-23.171	1.00	41.07	A16	

ATOM	36536	O2P ADE	837	160.155	133.219	-24.341	1.00	55.19	Al6s	ATOM	36589	C2	CYT	839	160.399	123.636	-23.621	1.00	43.80	Al
ATOM	36537	O5' ADE	837	157.705	133.716	-24.488	1.00	41.07	Al6s	ATOM	36590	O2	CYT	839	160.641	122.638	-24.306	1.00	43.80	Al
ATOM	36538	C5' ADE	837	156.544	134.424	-24.068	1.00	41.07	Al6s	ATOM	36591	N3	CYT	839	161.306	124.618	-23.459	1.00	43.80	Al
ATOM	36539	C4' ADE	837	155.320	133.578	-24.283	1.00	41.07	Al6s	ATOM	36592	C4	CYT	839	161.001	125.650	-22.728	1.00	43.80	Al
ATOM	36540	O4' ADE	837	155.262	133.231	-25.688	1.00	41.07	Al6s	ATOM	36593	N4	CYT	839	161.912	126.655	-22.620	1.00	43.80	Al
ATOM	36541	C1' ADE	837	154.752	131.910	-25.837	1.00	41.07	Al6s	ATOM	36594	C5	CYT	839	159.741	125.826	-22.082	1.00	43.80	Al
ATOM	36542	N9 ADE	837	155.762	131.087	-26.508	1.00	55.19	Al6s	ATOM	36595	C2' CYT	839	158.330	121.532	-22.205	1.00	45.52	Al	
ATOM	36543	C4 ADE	837	155.555	129.873	-27.115	1.00	55.19	Al6s	ATOM	36596	O2' CYT	839	157.895	120.342	-22.818	1.00	45.52	Al	
ATOM	36544	N3 ADE	837	154.393	129.228	-27.272	1.00	55.19	Al6s	ATOM	36597	C3' CYT	839	157.393	121.972	-21.093	1.00	45.52	Al	
ATOM	36545	C2 ADE	837	154.580	128.069	-27.882	1.00	55.19	Al6s	ATOM	36598	O3' CYT	839	156.970	120.874	-20.297	1.00	45.52	Al	
ATOM	36546	N1 ADE	837	155.709	127.514	-28.309	1.00	55.19	Al6s	ATOM	36599	P	URI	840	157.738	120.554	-18.927	1.00	35.68	Al
ATOM	36547	C6 ADE	837	156.862	128.182	-28.124	1.00	55.19	Al6s	ATOM	36600	O1P URI	840	157.174	119.318	-18.336	1.00	51.50	Al	
ATOM	36548	N6 ADE	837	157.998	127.608	-28.515	1.00	55.19	Al6s	ATOM	36601	O2P URI	840	157.795	121.796	-18.127	1.00	51.50	Al	
ATOM	36549	C5 ADE	837	156.795	129.438	-27.514	1.00	55.19	Al6s	ATOM	36602	O5' URI	840	159.213	120.224	-19.411	1.00	35.68	Al	
ATOM	36550	N7 ADE	837	157.765	130.377	-27.209	1.00	55.19	Al6s	ATOM	36603	C5' URI	840	159.472	119.078	-20.205	1.00	35.68	Al	
ATOM	36551	C8 ADE	837	157.100	131.336	-26.622	1.00	55.19	Al6s	ATOM	36604	C4' URI	840	160.937	118.980	-20.500	1.00	35.68	Al	
ATOM	36552	C2' ADE	837	154.427	131.387	-24.433	1.00	41.07	Al6s	ATOM	36605	C5' URI	840	162.702	120.374	-21.100	1.00	35.68	Al	
ATOM	36553	O2' ADE	837	153.074	131.620	-24.127	1.00	41.07	Al6s	ATOM	36606	C1' URI	840	162.810	121.811	-20.836	1.00	51.50	Al	
ATOM	36554	C3' ADE	837	155.337	132.238	-23.570	1.00	41.07	Al6s	ATOM	36607	N1 URI	840	161.783	122.499	-20.258	1.00	51.50	Al	
ATOM	36555	O3' ADE	837	154.790	132.354	-22.275	1.00	41.07	Al6s	ATOM	36608	C6 URI	840	163.982	122.437	-21.178	1.00	51.50	Al	
ATOM	36556	P	838	155.456	131.534	-21.065	1.00	38.86	Al6s	ATOM	36609	C2 URI	840	164.901	121.858	-21.723	1.00	51.50	Al	
ATOM	36557	O1P GUA	838	154.632	131.761	-19.841	1.00	46.02	Al6s	ATOM	36610	O2 URI	840	164.034	123.769	-20.867	1.00	51.50	Al	
ATOM	36558	O2P GUA	838	156.915	131.874	-21.047	1.00	46.02	Al6s	ATOM	36611	N3 URI	840	163.045	124.512	-20.271	1.00	51.50	Al	
ATOM	36559	O5' GUA	838	155.302	130.014	-21.528	1.00	38.86	Al6s	ATOM	36612	C4 URI	840	163.247	125.693	-20.021	1.00	51.50	Al	
ATOM	36560	C5' GUA	838	154.027	129.448	-21.769	1.00	38.86	Al6s	ATOM	36613	O4 URI	840	161.858	123.793	-19.972	1.00	51.50	Al	
ATOM	36561	C4' GUA	838	154.164	128.115	-22.465	1.00	38.86	Al6s	ATOM	36614	C5 URI	840	163.156	119.486	-19.934	1.00	35.68	Al	
ATOM	36562	O4' GUA	838	154.608	128.304	-23.835	1.00	38.86	Al6s	ATOM	36615	C2' URI	840	163.800	118.337	-20.435	1.00	35.68	Al	
ATOM	36563	C1' GUA	838	155.459	127.235	-24.209	1.00	38.86	Al6s	ATOM	36616	O2' URI	840	161.832	119.109	-19.296	1.00	35.68	Al	
ATOM	36564	N9 GUA	838	156.802	127.770	-24.409	1.00	46.02	Al6s	ATOM	36617	O3' URI	840	161.904	117.846	-18.676	1.00	35.68	Al	
ATOM	36565	C4 GUA	838	157.836	127.173	-25.088	1.00	46.02	Al6s	ATOM	36618	P	ADE	841	161.827	117.736	-17.076	1.00	37.11	Al
ATOM	36566	N3 GUA	838	157.792	125.982	-25.711	1.00	46.02	Al6s	ATOM	36619	O1P ADE	841	161.710	116.282	-16.773	1.00	42.77	Al	
ATOM	36567	C2 GUA	838	158.934	125.688	-26.292	1.00	46.02	Al6s	ATOM	36620	O2P ADE	841	160.798	118.683	-16.561	1.00	42.77	Al	
ATOM	36568	N2 GUA	838	159.054	124.543	-26.957	1.00	46.02	Al6s	ATOM	36621	O5' ADE	841	163.240	118.265	-16.583	1.00	37.11	Al	
ATOM	36569	N1 GUA	838	160.038	126.495	-26.266	1.00	46.02	Al6s	ATOM	36622	C5' ADE	841	163.481	118.462	-15.205	1.00	37.11	Al	
ATOM	36570	C6 GUA	838	160.108	127.724	-25.631	1.00	46.02	Al6s	ATOM	36623	C4' ADE	841	164.953	118.370	-14.925	1.00	37.11	Al	
ATOM	36571	O6 GUA	838	161.149	128.384	-25.678	1.00	46.02	Al6s	ATOM	36624	O4' ADE	841	165.384	116.986	-15.020	1.00	37.11	Al	
ATOM	36572	C5 GUA	838	158.885	128.049	-24.996	1.00	46.02	Al6s	ATOM	36625	O1' ADE	841	166.633	116.923	-15.683	1.00	37.11	Al	
ATOM	36573	N7 GUA	838	158.526	129.171	-24.265	1.00	46.02	Al6s	ATOM	36626	C1' ADE	841	166.437	116.213	-16.954	1.00	42.77	Al	
ATOM	36574	C8 GUA	838	157.283	128.963	-23.943	1.00	46.02	Al6s	ATOM	36627	N9 ADE	841	167.373	115.497	-17.655	1.00	42.77	Al	
ATOM	36575	C2' GUA	838	155.451	126.239	-23.051	1.00	38.86	Al6s	ATOM	36628	C4 ADE	841	168.664	115.322	-17.343	1.00	42.77	Al	
ATOM	36576	O2' GUA	838	154.422	125.305	-23.252	1.00	38.86	Al6s	ATOM	36629	N3 ADE	841	169.261	114.549	-18.240	1.00	42.77	Al	
ATOM	36577	C3' GUA	838	155.177	127.152	-21.873	1.00	38.86	Al6s	ATOM	36630	C2 ADE	841	168.752	113.967	-19.327	1.00	42.77	Al	
ATOM	36578	O3' GUA	838	154.629	126.413	-20.800	1.00	38.86	Al6s	ATOM	36631	N1 ADE	841	169.261	114.549	-18.240	1.00	42.77	Al	
ATOM	36579	P	839	155.607	125.751	-19.724	1.00	45.52	Al6s	ATOM	36632	C6 ADE	841	167.454	114.153	-19.607	1.00	42.77	Al	
ATOM	36580	O1P CYT	839	154.830	125.206	-18.587	1.00	43.80	Al6s	ATOM	36633	N6 ADE	841	166.950	113.542	-20.668	1.00	42.77	Al	
ATOM	36581	O2P CYT	839	156.674	126.744	-19.470	1.00	43.80	Al6s	ATOM	36634	C5 ADE	841	166.711	114.971	-18.747	1.00	42.77	Al	
ATOM	36582	O5' CYT	839	156.228	124.517	-20.511	1.00	45.52	Al6s	ATOM	36635	N7 ADE	841	165.385	115.371	-18.756	1.00	42.77	Al	
ATOM	36583	C5' CYT	839	155.394	123.538	-21.113	1.00	45.52	Al6s	ATOM	36636	C8 ADE	841	165.275	115.6105	-17.676	1.00	42.77	Al	
ATOM	36584	C4' CYT	839	156.233	122.550	-21.879	1.00	45.52	Al6s	ATOM	36637	C2' ADE	841	167.119	118.374	-15.802	1.00	37.11	Al	
ATOM	36585	O4' CYT	839	156.866	123.212	-23.004	1.00	45.52	Al6s	ATOM	36638	O2' ADE	841	167.734	118.766	-14.593	1.00	37.11	Al	
ATOM	36586	C1' CYT	839	158.163	122.676	-23.201	1.00	45.52	Al6s	ATOM	36639	C3' ADE	841	165.807	119.115	-15.929	1.00	37.11	Al	
ATOM	36587	N1 CYT	839	159.150	123.749	-23.007	1.00	43.80	Al6s	ATOM	36640	O3' ADE	841	165.959	120.458	-15.512	1.00	37.11	Al	
ATOM	36588	C6 CYT	839	158.854	124.840	-22.245	1.00	43.80	Al6s	ATOM	36641	P	ADE	842	165.646	121.652	-16.535	1.00	38.95	Al

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ATOM	36642	O1P ADE	842	165.354	122.832	-15.696	1.00	42.87	Al6s	ATOM	36695	N2 GUA	844	163.154	122.128	-25.122	1.00	44.19	Al6
ATOM	36643	O2P ADE	842	164.679	121.217	-17.575	1.00	42.87	Al6s	ATOM	36696	N1 GUA	844	163.982	124.063	-24.207	1.00	44.19	Al6
ATOM	36644	O5' ADE	842	167.039	121.938	-17.233	1.00	38.95	Al6s	ATOM	36697	C6 GUA	844	164.968	124.977	-23.849	1.00	44.19	Al6
ATOM	36645	C5' ADE	842	168.189	122.197	-16.450	1.00	38.95	Al6s	ATOM	36698	O6 GUA	844	164.647	126.021	-23.285	1.00	44.19	Al6
ATOM	36646	C4' ADE	842	169.381	121.566	-17.094	1.00	38.95	Al6s	ATOM	36699	C5 GUA	844	166.242	124.538	-24.214	1.00	44.19	Al6
ATOM	36647	O4' ADE	842	169.110	120.147	-17.215	1.00	38.95	Al6s	ATOM	36700	C7 GUA	844	167.478	125.139	-24.035	1.00	44.19	Al6
ATOM	36648	C1' ADE	842	169.654	119.668	-18.426	1.00	38.95	Al6s	ATOM	36701	N8 GUA	844	168.326	124.295	-24.557	1.00	44.19	Al6
ATOM	36649	N9 ADE	842	168.562	119.191	-19.270	1.00	42.87	Al6s	ATOM	36702	C2' GUA	844	167.957	121.886	-27.202	1.00	36.89	Al6
ATOM	36650	C4 ADE	842	168.641	118.145	-20.153	1.00	42.87	Al6s	ATOM	36703	O2' GUA	844	168.175	120.534	-27.533	1.00	36.89	Al6
ATOM	36651	N3 ADE	842	169.715	117.378	-20.407	1.00	42.87	Al6s	ATOM	36704	C3' GUA	844	168.943	122.804	-27.916	1.00	36.89	Al6
ATOM	36652	C2 ADE	842	169.411	116.439	-21.307	1.00	42.87	Al6s	ATOM	36705	O3' GUA	844	169.108	122.479	-29.294	1.00	36.89	Al6
ATOM	36653	N1 ADE	842	168.244	116.207	-21.937	1.00	42.87	Al6s	ATOM	36706	P CYT	845	168.573	123.493	-30.419	1.00	41.30	Al6
ATOM	36654	C6 ADE	842	167.195	117.010	-21.662	1.00	42.87	Al6s	ATOM	36707	O1P CYT	845	169.206	123.185	-31.739	1.00	46.72	Al6
ATOM	36655	N6 ADE	842	166.051	116.794	-22.296	1.00	42.87	Al6s	ATOM	36708	O2P CYT	845	168.678	124.861	-29.864	1.00	46.72	Al6
ATOM	36656	C5 ADE	842	167.385	118.034	-20.720	1.00	42.87	Al6s	ATOM	36709	O5' CYT	845	167.040	123.108	-30.551	1.00	41.30	Al6
ATOM	36657	N7 ADE	842	166.536	119.002	-20.214	1.00	42.87	Al6s	ATOM	36710	C5' CYT	845	166.669	121.763	-30.805	1.00	41.30	Al6
ATOM	36658	C8 ADE	842	167.281	119.659	-19.359	1.00	42.87	Al6s	ATOM	36711	C4' CYT	845	165.208	121.552	-30.515	1.00	41.30	Al6
ATOM	36659	C2' ADE	842	170.434	120.827	-19.044	1.00	38.95	Al6s	ATOM	36712	O4' CYT	845	164.960	121.706	-29.092	1.00	41.30	Al6
ATOM	36660	O2' ADE	842	171.730	120.810	-18.491	1.00	38.95	Al6s	ATOM	36713	C1' CYT	845	163.628	122.163	-28.900	1.00	41.30	Al6
ATOM	36661	C3' ADE	842	169.646	122.011	-18.522	1.00	38.95	Al6s	ATOM	36714	N1 CYT	845	163.662	123.475	-28.237	1.00	46.72	Al6
ATOM	36662	O3' ADE	842	170.427	123.203	-18.550	1.00	38.95	Al6s	ATOM	36715	C6 CYT	845	164.834	124.138	-28.035	1.00	46.72	Al6
ATOM	36663	P CYT	843	170.469	124.098	-19.889	1.00	40.42	Al6s	ATOM	36716	C2 CYT	845	162.456	124.046	-27.842	1.00	46.72	Al6
ATOM	36664	O1P CYT	843	171.417	125.220	-19.661	1.00	38.78	Al6s	ATOM	36717	N3 CYT	845	161.417	123.388	-27.975	1.00	46.72	Al6
ATOM	36665	O2P CYT	843	169.068	124.394	-20.301	1.00	38.78	Al6s	ATOM	36718	O2 CYT	845	162.445	125.289	-27.320	1.00	46.72	Al6
ATOM	36666	O5' CYT	843	171.087	123.128	-20.993	1.00	40.42	Al6s	ATOM	36719	C4 CYT	845	163.584	125.951	-27.171	1.00	46.72	Al6
ATOM	36667	C5' CYT	843	172.459	122.762	-20.968	1.00	40.42	Al6s	ATOM	36720	N4 CYT	845	163.523	127.198	-26.713	1.00	46.72	Al6
ATOM	36668	O4' CYT	843	172.764	121.827	-22.108	1.00	40.42	Al6s	ATOM	36721	C5 CYT	845	164.842	125.369	-27.507	1.00	46.72	Al6
ATOM	36669	C4' CYT	843	172.048	120.579	-21.921	1.00	40.42	Al6s	ATOM	36722	C2' CYT	845	163.004	122.278	-30.295	1.00	41.30	Al6
ATOM	36670	C1' CYT	843	171.657	120.064	-23.182	1.00	40.42	Al6s	ATOM	36723	O2' CYT	845	162.381	121.055	-30.641	1.00	41.30	Al6
ATOM	36671	N1 CYT	843	170.191	119.958	-23.220	1.00	38.78	Al6s	ATOM	36724	C3' CYT	845	164.241	122.542	-31.133	1.00	41.30	Al6
ATOM	36672	C6 CYT	843	169.404	120.907	-22.640	1.00	38.78	Al6s	ATOM	36725	C3' CYT	845	164.103	123.526	-33.546	1.00	38.58	Al6
ATOM	36673	C2 CYT	843	169.609	118.874	-23.880	1.00	38.78	Al6s	ATOM	36726	P GUA	846	163.926	122.999	-33.917	1.00	51.52	Al6
ATOM	36674	O2 CYT	843	170.338	118.006	-24.372	1.00	38.78	Al6s	ATOM	36727	O1P GUA	846	165.295	124.344	-33.224	1.00	51.52	Al6
ATOM	36675	N3 CYT	843	168.267	118.792	-23.961	1.00	38.78	Al6s	ATOM	36728	O2P GUA	846	162.806	124.393	-33.241	1.00	38.58	Al6
ATOM	36676	C4 CYT	843	167.510	119.726	-23.401	1.00	38.78	Al6s	ATOM	36729	O5' GUA	846	161.513	123.796	-33.165	1.00	38.58	Al6
ATOM	36677	N4 CYT	843	166.201	119.592	-23.500	1.00	38.78	Al6s	ATOM	36730	C5' GUA	846	160.560	124.731	-32.465	1.00	38.58	Al6
ATOM	36678	C5 CYT	843	168.070	120.832	-22.710	1.00	38.78	Al6s	ATOM	36731	C4' GUA	846	161.045	124.972	-31.119	1.00	38.58	Al6
ATOM	36679	C2' CYT	843	172.197	121.020	-24.246	1.00	40.42	Al6s	ATOM	36732	O4' GUA	846	160.736	126.295	-30.736	1.00	38.58	Al6
ATOM	36680	O2' CYT	843	173.460	120.559	-24.650	1.00	40.42	Al6s	ATOM	36733	C1' GUA	846	161.973	126.955	-30.373	1.00	51.52	Al6
ATOM	36681	C3' CYT	843	172.302	122.320	-23.466	1.00	40.42	Al6s	ATOM	36734	N9 GUA	846	162.084	128.086	-29.630	1.00	51.52	Al6
ATOM	36682	O3' CYT	843	173.269	123.199	-24.026	1.00	40.42	Al6s	ATOM	36735	C4 GUA	846	161.063	128.771	-29.087	1.00	51.52	Al6
ATOM	36683	P GUA	844	172.853	124.188	-25.225	1.00	36.89	Al6s	ATOM	36736	N3 GUA	846	161.482	129.837	-28.433	1.00	51.52	Al6
ATOM	36684	O1P GUA	844	174.079	124.831	-23.747	1.00	44.19	Al6s	ATOM	36737	C2 GUA	846	160.599	130.303	-27.816	1.00	51.52	Al6
ATOM	36685	O2P GUA	844	171.708	125.038	-24.810	1.00	44.19	Al6s	ATOM	36738	N2 GUA	846	162.802	130.203	-28.331	1.00	51.52	Al6
ATOM	36686	O5' GUA	844	172.340	123.199	-26.356	1.00	36.89	Al6s	ATOM	36739	N1 GUA	846	163.867	129.509	-28.886	1.00	51.52	Al6
ATOM	36687	C5' GUA	844	171.263	123.565	-27.202	1.00	36.89	Al6s	ATOM	36740	C6 GUA	846	165.020	129.929	-28.742	1.00	51.52	Al6
ATOM	36688	O4' GUA	844	170.211	122.502	-27.153	1.00	36.89	Al6s	ATOM	36741	O6 GUA	846	164.150	127.397	-30.270	1.00	51.52	Al6
ATOM	36689	C4' GUA	844	169.776	122.327	-25.777	1.00	36.89	Al6s	ATOM	36742	C5 GUA	846	163.429	128.358	-29.580	1.00	51.52	Al6
ATOM	36690	C1' GUA	844	168.386	122.062	-25.747	1.00	36.89	Al6s	ATOM	36743	N7 GUA	846	163.241	126.582	-30.718	1.00	51.52	Al6
ATOM	36691	N9 GUA	844	167.725	123.179	-25.077	1.00	44.19	Al6s	ATOM	36744	C8 GUA	846	160.038	126.988	-31.904	1.00	38.58	Al6
ATOM	36692	C4 GUA	844	166.375	123.327	-24.848	1.00	44.19	Al6s	ATOM	36745	C2' GUA	846	158.645	127.030	-31.680	1.00	38.58	Al6
ATOM	36693	N3 GUA	844	165.415	122.452	-25.187	1.00	44.19	Al6s	ATOM	36746	O2' GUA	846	160.456	126.116	-33.084	1.00	38.58	Al6
ATOM	36694	C2 GUA	844	164.221	122.877	-24.842	1.00	44.19	Al6s	ATOM	36747	C3' GUA	846						Al6

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ATOM	36748	O3' GUA	846	159.456	126.109	-34.092	1.00	38.58	Al6s	ATOM	36801	N1 ADE	849	154.949	125.318	-32.851	1.00	36.78	Al
ATOM	36749	P URI	847	159.711	126.872	-35.474	1.00	45.15	Al6s	ATOM	36802	C6 ADE	849	155.629	125.496	-31.699	1.00	36.78	Al
ATOM	36750	O1P URI	847	160.796	126.141	-36.162	1.00	49.04	Al6s	ATOM	36803	N6 ADE	849	155.301	126.514	-30.902	1.00	36.78	Al
ATOM	36751	O2P URI	847	159.875	128.314	-35.188	1.00	49.04	Al6s	ATOM	36804	C5 ADE	849	156.640	124.584	-31.392	1.00	36.78	Al
ATOM	36752	O5' URI	847	158.351	126.649	-36.278	1.00	45.15	Al6s	ATOM	36805	N7 ADE	849	157.521	124.502	-30.323	1.00	36.78	Al
ATOM	36753	C5' URI	847	158.142	125.536	-37.154	1.00	45.15	Al6s	ATOM	36806	C8 ADE	849	158.206	123.418	-30.570	1.00	36.78	Al
ATOM	36754	C4' URI	847	156.880	125.773	-37.954	1.00	45.15	Al6s	ATOM	36807	C2' ADE	849	157.316	120.328	-32.314	1.00	51.07	Al
ATOM	36755	O4' URI	847	155.877	126.132	-36.997	1.00	45.15	Al6s	ATOM	36808	C3' ADE	849	157.013	119.693	-31.098	1.00	51.07	Al
ATOM	36756	C1' URI	847	155.008	127.069	-37.563	1.00	45.15	Al6s	ATOM	36809	O2' ADE	849	158.000	118.445	-33.365	1.00	51.07	Al
ATOM	36757	N1 URI	847	154.471	127.922	-36.502	1.00	49.04	Al6s	ATOM	36810	O3' ADE	849	158.140	118.119	-32.802	1.00	51.07	Al
ATOM	36758	C6 URI	847	155.192	128.205	-35.379	1.00	49.04	Al6s	ATOM	36811	P ADE	850	159.553	117.332	-32.806	1.00	39.39	Al
ATOM	36759	C2 URI	847	153.202	128.412	-36.677	1.00	49.04	Al6s	ATOM	36812	O1P ADE	850	160.664	118.208	-33.200	1.00	45.85	Al
ATOM	36760	O2 URI	847	152.548	128.182	-37.669	1.00	49.04	Al6s	ATOM	36813	O2P ADE	850	159.327	116.083	-33.549	1.00	45.85	Al
ATOM	36761	N3 URI	847	152.726	129.178	-35.648	1.00	49.04	Al6s	ATOM	36814	O5' ADE	850	159.824	116.971	-31.271	1.00	39.39	Al
ATOM	36762	C4 URI	847	153.390	129.498	-34.488	1.00	49.04	Al6s	ATOM	36815	C5' ADE	850	158.760	116.783	-30.325	1.00	39.39	Al
ATOM	36763	O4 URI	847	152.841	130.213	-33.651	1.00	49.04	Al6s	ATOM	36816	C4' ADE	850	159.070	117.539	-29.056	1.00	39.39	Al
ATOM	36764	C5 URI	847	154.709	128.953	-34.389	1.00	49.04	Al6s	ATOM	36817	O4' ADE	850	160.391	117.163	-28.662	1.00	39.39	Al
ATOM	36765	C2' URI	847	155.699	127.763	-38.736	1.00	45.15	Al6s	ATOM	36818	C1' ADE	850	161.163	118.309	-28.416	1.00	39.39	Al
ATOM	36766	O2' URI	847	154.844	127.774	-39.863	1.00	45.15	Al6s	ATOM	36819	N9 ADE	850	162.478	118.102	-29.005	1.00	45.85	Al
ATOM	36767	C3' URI	847	156.975	126.938	-38.943	1.00	45.15	Al6s	ATOM	36820	C4 ADE	850	163.654	118.539	-28.465	1.00	45.85	Al
ATOM	36768	O3' URI	847	156.886	126.491	-40.314	1.00	45.15	Al6s	ATOM	36821	N3 ADE	850	163.803	119.315	-27.382	1.00	45.85	Al
ATOM	36769	P URI	848	157.937	125.439	-40.927	1.00	44.83	Al6s	ATOM	36822	C2 ADE	850	165.084	119.484	-27.110	1.00	45.85	Al
ATOM	36770	O1P URI	848	159.274	126.065	-40.860	1.00	49.87	Al6s	ATOM	36823	N1 ADE	850	166.159	118.992	-27.745	1.00	45.85	Al
ATOM	36771	O2P URI	848	157.391	125.011	-42.231	1.00	49.87	Al6s	ATOM	36824	C6 ADE	850	165.972	118.208	-28.826	1.00	45.85	Al
ATOM	36772	O5' URI	848	157.950	124.221	-39.894	1.00	44.83	Al6s	ATOM	36825	N6 ADE	850	167.042	117.691	-29.430	1.00	45.85	Al
ATOM	36773	C5' URI	848	157.595	122.880	-40.252	1.00	44.83	Al6s	ATOM	36826	C5 ADE	850	164.652	117.973	-29.233	1.00	45.85	Al
ATOM	36774	C4' URI	848	158.778	121.972	-40.035	1.00	44.83	Al6s	ATOM	36827	N7 ADE	850	164.110	117.250	-30.286	1.00	45.85	Al
ATOM	36775	O4' URI	848	159.654	122.172	-41.150	1.00	44.83	Al6s	ATOM	36828	C8 ADE	850	162.820	117.377	-30.118	1.00	45.85	Al
ATOM	36776	C1' URI	848	160.954	121.827	-40.759	1.00	49.87	Al6s	ATOM	36829	C2' ADE	850	160.380	119.580	-28.746	1.00	39.39	Al
ATOM	36777	N1 URI	848	161.933	122.575	-41.546	1.00	49.87	Al6s	ATOM	36830	O2' ADE	850	160.222	120.408	-27.600	1.00	39.39	Al
ATOM	36778	C6 URI	848	161.831	123.916	-41.747	1.00	49.87	Al6s	ATOM	36831	C3' ADE	850	159.060	119.040	-29.293	1.00	39.39	Al
ATOM	36779	C2 URI	848	162.974	121.851	-42.066	1.00	49.87	Al6s	ATOM	36832	O3' ADE	850	157.982	119.706	-28.589	1.00	39.39	Al
ATOM	36780	O2 URI	848	163.090	120.649	-41.900	1.00	49.87	Al6s	ATOM	36833	P GUA	851	157.018	118.913	-27.531	1.00	40.66	Al
ATOM	36781	N3 URI	848	163.876	122.576	-42.786	1.00	49.87	Al6s	ATOM	36834	O1P GUA	851	157.804	118.095	-28.293	1.00	32.23	Al
ATOM	36782	C4 URI	848	163.842	123.920	-43.025	1.00	49.87	Al6s	ATOM	36835	O2P GUA	851	156.053	118.095	-28.293	1.00	32.23	Al
ATOM	36783	O4 URI	848	164.724	124.429	-43.714	1.00	49.87	Al6s	ATOM	36836	O5' GUA	851	156.182	120.101	-26.883	1.00	40.66	Al
ATOM	36784	C5 URI	848	162.728	124.600	-42.446	1.00	49.87	Al6s	ATOM	36837	C5' GUA	851	156.823	121.150	-26.162	1.00	40.66	Al
ATOM	36785	C2' URI	848	161.065	122.009	-39.248	1.00	44.83	Al6s	ATOM	36838	C4' GUA	851	155.966	122.393	-26.197	1.00	40.66	Al
ATOM	36786	O2' URI	848	161.560	120.825	-38.658	1.00	44.83	Al6s	ATOM	36839	O4' GUA	851	156.092	123.052	-27.482	1.00	40.66	Al
ATOM	36787	C3' URI	848	159.635	122.358	-38.836	1.00	44.83	Al6s	ATOM	36840	C1' GUA	851	154.844	123.618	-27.859	1.00	40.66	Al
ATOM	36788	O3' URI	848	159.433	121.617	-37.628	1.00	44.83	Al6s	ATOM	36841	N9 GUA	851	154.465	123.032	-29.139	1.00	32.23	Al
ATOM	36789	P URI	849	158.193	120.601	-37.443	1.00	51.07	Al6s	ATOM	36842	C3 GUA	851	153.390	123.368	-29.933	1.00	32.23	Al
ATOM	36790	O1P ADE	849	158.482	119.296	-38.070	1.00	36.78	Al6s	ATOM	36843	N4 GUA	851	152.434	124.279	-29.646	1.00	32.23	Al
ATOM	36791	O2P ADE	849	156.901	121.274	-37.729	1.00	36.78	Al6s	ATOM	36844	C2 GUA	851	151.534	124.366	-30.621	1.00	32.23	Al
ATOM	36792	O5' ADE	849	158.270	120.347	-35.876	1.00	51.07	Al6s	ATOM	36845	N2 GUA	851	150.490	125.189	-30.513	1.00	32.23	Al
ATOM	36793	C5' ADE	849	159.519	120.161	-35.210	1.00	51.07	Al6s	ATOM	36846	C6 GUA	851	151.591	123.644	-31.774	1.00	32.23	Al
ATOM	36794	C4' ADE	849	159.293	120.174	-33.724	1.00	51.07	Al6s	ATOM	36847	N1 GUA	851	152.569	122.715	-32.085	1.00	32.23	Al
ATOM	36795	O4' ADE	849	159.123	121.527	-33.260	1.00	51.07	Al6s	ATOM	36848	O6 GUA	851	152.534	122.140	-33.162	1.00	32.23	Al
ATOM	36796	C1' ADE	849	158.323	121.458	-32.118	1.00	51.07	Al6s	ATOM	36849	C5 GUA	851	153.510	122.582	-31.056	1.00	32.23	Al
ATOM	36797	N9 ADE	849	157.818	122.764	-31.714	1.00	36.78	Al6s	ATOM	36850	N7 GUA	851	154.609	121.745	-30.957	1.00	32.23	Al
ATOM	36798	C4 ADE	849	156.842	123.542	-32.278	1.00	36.78	Al6s	ATOM	36851	C8 GUA	851	155.143	122.042	-29.805	1.00	32.23	Al
ATOM	36799	N3 ADE	849	156.183	123.326	-33.424	1.00	36.78	Al6s	ATOM	36852	C2' GUA	851	153.857	123.339	-26.728	1.00	40.66	Al
ATOM	36800	C2 ADE	849	155.265	124.272	-33.619	1.00	36.78	Al6s	ATOM	36853	O2' GUA	851	153.818	124.449	-25.855	1.00	40.66	Al

ATOM	36854	C3' GUA	851	154.482	122.108	-26.086	1.00	40.66	Al6s	ATOM	36907	N1 CYT	854	144.230	114.424	-31.616	1.00	41.27	Al6s
ATOM	36855	O3' GUA	851	154.101	121.931	-24.737	1.00	40.66	Al6s	ATOM	36908	C6 CYT	854	145.017	114.716	-30.538	1.00	41.27	Al6s
ATOM	36856	P CYT	852	152.958	120.875	-24.392	1.00	40.61	Al6s	ATOM	36909	C2 CYT	854	144.802	114.127	-32.848	1.00	41.27	Al6s
ATOM	36857	O1P CYT	852	152.795	120.760	-22.925	1.00	35.54	Al6s	ATOM	36910	O2 CYT	854	144.062	113.923	-33.813	1.00	41.27	Al6s
ATOM	36858	O2P CYT	852	153.168	119.673	-25.215	1.00	35.54	Al6s	ATOM	36911	N3 CYT	854	146.142	114.070	-32.955	1.00	41.27	Al6s
ATOM	36859	O5' CYT	852	151.651	121.540	-24.983	1.00	40.61	Al6s	ATOM	36912	C4 CYT	854	146.904	114.309	-31.889	1.00	41.27	Al6s
ATOM	36860	C5' CYT	852	151.055	122.662	-24.370	1.00	40.61	Al6s	ATOM	36913	N4 CYT	854	148.225	114.193	-32.025	1.00	41.27	Al6s
ATOM	36861	C4' CYT	852	149.862	123.055	-25.171	1.00	40.61	Al6s	ATOM	36914	C5' CYT	854	146.345	114.669	-30.628	1.00	41.27	Al6s
ATOM	36862	O4' CYT	852	150.315	123.289	-26.524	1.00	40.61	Al6s	ATOM	36915	C2' CYT	854	142.321	112.934	-31.234	1.00	37.75	Al6s
ATOM	36863	C1' CYT	852	149.271	123.002	-27.425	1.00	40.61	Al6s	ATOM	36916	O2' CYT	854	141.023	112.748	-31.726	1.00	37.75	Al6s
ATOM	36864	N1 CYT	852	149.780	122.129	-28.479	1.00	35.54	Al6s	ATOM	36917	C3' CYT	854	142.334	112.889	-29.721	1.00	37.75	Al6s
ATOM	36865	C6 CYT	852	150.954	121.444	-28.344	1.00	35.54	Al6s	ATOM	36918	O3' CYT	854	141.513	111.837	-29.270	1.00	37.75	Al6s
ATOM	36866	C2 CYT	852	149.030	122.012	-29.630	1.00	35.54	Al6s	ATOM	36919	P GUA	855	142.141	110.382	-29.119	1.00	36.58	Al6s
ATOM	36867	O2 CYT	852	147.969	122.648	-29.703	1.00	35.54	Al6s	ATOM	36920	O1P GUA	855	141.123	109.482	-28.514	1.00	44.07	Al6s
ATOM	36868	N3 CYT	852	149.464	121.210	-30.631	1.00	35.54	Al6s	ATOM	36921	O2P GUA	855	143.466	110.550	-28.459	1.00	44.07	Al6s
ATOM	36869	C4 CYT	852	150.605	120.536	-30.494	1.00	35.54	Al6s	ATOM	36922	O5' GUA	855	142.359	109.950	-30.624	1.00	36.58	Al6s
ATOM	36870	N4 CYT	852	150.987	119.743	-31.496	1.00	35.54	Al6s	ATOM	36923	C5' GUA	855	141.253	109.798	-31.468	1.00	36.58	Al6s
ATOM	36871	C5 CYT	852	151.400	120.642	-29.322	1.00	35.54	Al6s	ATOM	36924	C4' GUA	855	141.653	109.177	-32.750	1.00	36.58	Al6s
ATOM	36872	C2' CYT	852	148.130	122.393	-26.619	1.00	40.61	Al6s	ATOM	36925	O4' GUA	855	142.551	110.119	-33.447	1.00	36.58	Al6s
ATOM	36873	O2' CYT	852	147.176	123.406	-26.389	1.00	40.61	Al6s	ATOM	36926	C1' GUA	855	143.517	109.404	-34.196	1.00	36.58	Al6s
ATOM	36874	C3' CYT	852	148.867	121.937	-25.368	1.00	40.61	Al6s	ATOM	36927	N9 GUA	855	144.848	109.833	-33.764	1.00	44.07	Al6s
ATOM	36875	O3' CYT	852	148.029	121.792	-24.233	1.00	40.61	Al6s	ATOM	36928	C4 GUA	855	145.993	109.850	-34.532	1.00	44.07	Al6s
ATOM	36876	P GUA	853	147.440	120.341	-23.872	1.00	36.50	Al6s	ATOM	36929	N3 GUA	855	146.087	109.487	-35.826	1.00	44.07	Al6s
ATOM	36877	O1P GUA	853	146.608	120.495	-22.652	1.00	45.16	Al6s	ATOM	36930	C2 GUA	855	147.315	109.600	-36.283	1.00	44.07	Al6s
ATOM	36878	O2P GUA	853	148.549	119.353	-23.877	1.00	45.16	Al6s	ATOM	36931	N1 GUA	855	147.589	109.267	-37.547	1.00	44.07	Al6s
ATOM	36879	O5' GUA	853	146.472	120.032	-25.108	1.00	36.50	Al6s	ATOM	36932	N2 GUA	855	148.367	110.038	-35.540	1.00	44.07	Al6s
ATOM	36880	C5' GUA	853	146.270	118.712	-25.547	1.00	36.50	Al6s	ATOM	36933	C6 GUA	855	148.302	110.408	-34.211	1.00	44.07	Al6s
ATOM	36881	C4' GUA	853	145.358	118.734	-26.729	1.00	36.50	Al6s	ATOM	36934	O6 GUA	855	149.323	110.767	-33.634	1.00	44.07	Al6s
ATOM	36882	O4' GUA	853	145.992	119.462	-27.799	1.00	36.50	Al6s	ATOM	36935	C7 GUA	855	146.986	110.297	-33.699	1.00	44.07	Al6s
ATOM	36883	C1' GUA	853	145.593	118.929	-29.046	1.00	36.50	Al6s	ATOM	36936	N5 GUA	855	146.481	110.574	-32.435	1.00	44.07	Al6s
ATOM	36884	N9 GUA	853	146.787	118.483	-29.750	1.00	45.16	Al6s	ATOM	36937	C8 GUA	855	145.212	110.284	-32.522	1.00	44.07	Al6s
ATOM	36885	C4 GUA	853	146.865	118.136	-31.072	1.00	45.16	Al6s	ATOM	36938	C2' GUA	855	143.241	107.912	-33.954	1.00	36.58	Al6s
ATOM	36886	N3 GUA	853	145.860	118.191	-31.962	1.00	45.16	Al6s	ATOM	36939	O3' GUA	855	142.515	107.955	-32.596	1.00	36.58	Al6s
ATOM	36887	C2 GUA	853	146.240	117.791	-33.156	1.00	45.16	Al6s	ATOM	36940	C3' GUA	855	142.829	107.408	-34.909	1.00	36.58	Al6s
ATOM	36888	N2 GUA	853	145.385	117.826	-34.172	1.00	45.16	Al6s	ATOM	36941	O3' GUA	855	141.829	106.772	-32.382	1.00	36.58	Al6s
ATOM	36889	N1 GUA	853	147.491	117.338	-33.447	1.00	45.16	Al6s	ATOM	36942	P CYT	856	142.432	105.628	-31.433	1.00	35.91	Al6s
ATOM	36890	C6 GUA	853	148.541	117.260	-32.544	1.00	45.16	Al6s	ATOM	36943	O1P CYT	856	143.327	104.685	-31.096	1.00	32.72	Al6s
ATOM	36891	O6 GUA	853	149.629	116.816	-32.908	1.00	45.16	Al6s	ATOM	36944	O2P CYT	856	143.171	106.309	-30.346	1.00	32.72	Al6s
ATOM	36892	C5 GUA	853	148.162	117.723	-31.267	1.00	45.16	Al6s	ATOM	36945	O5' CYT	856	143.503	104.879	-32.345	1.00	35.91	Al6s
ATOM	36893	N7 GUA	853	148.897	117.842	-30.098	1.00	45.16	Al6s	ATOM	36946	C5' CYT	856	143.073	104.120	-33.469	1.00	35.91	Al6s
ATOM	36894	C8 GUA	853	148.041	118.299	-29.226	1.00	45.16	Al6s	ATOM	36947	C4' CYT	856	144.230	103.822	-34.399	1.00	35.91	Al6s
ATOM	36895	C2' GUA	853	144.649	117.767	-28.752	1.00	36.50	Al6s	ATOM	36948	O4' CYT	856	144.730	105.045	-35.000	1.00	35.91	Al6s
ATOM	36896	O2' GUA	853	143.310	118.197	-28.868	1.00	36.50	Al6s	ATOM	36949	C1' CYT	856	146.100	104.887	-35.315	1.00	35.91	Al6s
ATOM	36897	C3' GUA	853	145.067	117.393	-27.336	1.00	36.50	Al6s	ATOM	36950	N1 CYT	856	146.857	105.813	-34.476	1.00	32.72	Al6s
ATOM	36898	O3' GUA	854	144.032	116.768	-26.609	1.00	36.50	Al6s	ATOM	36951	C6 CYT	856	146.339	106.244	-33.291	1.00	32.72	Al6s
ATOM	36899	P CYT	854	144.093	115.190	-26.381	1.00	37.75	Al6s	ATOM	36952	C2 CYT	856	148.141	105.203	-34.871	1.00	32.72	Al6s
ATOM	36900	O1P CYT	854	143.239	114.864	-25.206	1.00	41.27	Al6s	ATOM	36953	O2 CYT	856	148.550	105.881	-35.997	1.00	32.72	Al6s
ATOM	36901	O2P CYT	854	145.533	114.812	-26.372	1.00	41.27	Al6s	ATOM	36954	N3 CYT	856	148.895	106.926	-34.014	1.00	32.72	Al6s
ATOM	36902	O5' CYT	854	143.452	114.602	-27.715	1.00	37.75	Al6s	ATOM	36955	C4 CYT	856	148.403	107.274	-32.826	1.00	32.72	Al6s
ATOM	36903	C5' CYT	854	142.076	114.754	-27.984	1.00	37.75	Al6s	ATOM	36956	N4 CYT	856	149.197	107.902	-31.985	1.00	32.72	Al6s
ATOM	36904	C4' CYT	854	141.767	114.253	-29.369	1.00	37.75	Al6s	ATOM	36957	C5 CYT	856	147.075	106.967	-32.441	1.00	32.72	Al6s
ATOM	36905	O4' CYT	854	142.387	115.131	-30.346	1.00	37.75	Al6s	ATOM	36958	C2' CYT	856	146.464	103.451	-34.931	1.00	35.91	Al6s
ATOM	36906	C1' CYT	854	142.768	114.373	-31.491	1.00	37.75	Al6s	ATOM	36959	O2' CYT	856	146.225	102.599	-36.025	1.00	35.91	Al6s

ATOM	36960	C3	CYT	856	145.478	103.197	-33.807	1.00	35.91	Al6S	ATOM	37013	N1	CYT	859	156.969	100.207	-28.100	1.00	32.48	Al
ATOM	36961	O3	CYT	856	145.295	101.808	-33.599	1.00	35.91	Al6S	ATOM	37014	C6	CYT	859	155.884	99.510	-28.543	1.00	32.48	Al
ATOM	36962	P	CYT	857	146.217	101.033	-32.542	1.00	39.20	Al6S	ATOM	37015	C2	CYT	859	156.824	101.194	-27.149	1.00	32.48	Al
ATOM	36963	O1P	CYT	857	145.674	99.658	-32.436	1.00	41.32	Al6S	ATOM	37016	O2	CYT	859	157.819	101.819	-26.792	1.00	32.48	Al
ATOM	36964	O2P	CYT	857	146.408	101.855	-31.319	1.00	41.32	Al6S	ATOM	37017	N3	CYT	859	155.612	101.448	-26.645	1.00	32.48	Al
ATOM	36965	O5	CYT	857	147.607	100.894	-33.300	1.00	39.20	Al6S	ATOM	37018	C4	CYT	859	154.559	100.759	-27.073	1.00	32.48	Al
ATOM	36966	C5	CYT	857	147.670	100.221	-34.546	1.00	39.20	Al6S	ATOM	37019	N4	CYT	859	153.370	101.036	-26.542	1.00	32.48	Al
ATOM	36967	C4	CYT	857	149.068	100.270	-35.100	1.00	39.20	Al6S	ATOM	37020	C5	CYT	859	154.673	99.754	-28.060	1.00	32.48	Al
ATOM	36968	O4	CYT	857	149.426	101.637	-35.410	1.00	39.20	Al6S	ATOM	37021	C2	CYT	859	159.151	99.126	-27.617	1.00	37.54	Al
ATOM	36969	C1	CYT	857	150.815	101.812	-35.220	1.00	39.20	Al6S	ATOM	37022	O2	CYT	859	160.505	99.413	-27.878	1.00	37.54	Al
ATOM	36970	N1	CYT	857	151.010	102.780	-34.142	1.00	41.32	Al6S	ATOM	37023	O3	CYT	859	158.799	97.707	-28.012	1.00	37.54	Al
ATOM	36971	C6	CYT	857	150.072	102.954	-33.167	1.00	41.32	Al6S	ATOM	37024	C3	CYT	859	159.808	96.811	-27.616	1.00	37.54	Al
ATOM	36972	C2	CYT	857	152.188	103.501	-34.118	1.00	41.32	Al6S	ATOM	37025	P	CYT	860	159.737	96.132	-26.172	1.00	41.42	Al
ATOM	36973	O2	CYT	857	152.999	103.336	-35.040	1.00	41.32	Al6S	ATOM	37026	O1P	CYT	860	160.766	95.059	-26.145	1.00	47.40	Al
ATOM	36974	N3	CYT	857	152.426	104.354	-33.102	1.00	41.32	Al6S	ATOM	37027	O2P	CYT	860	158.319	95.785	-25.913	1.00	47.40	Al
ATOM	36975	C4	CYT	857	151.531	104.485	-32.131	1.00	41.32	Al6S	ATOM	37028	O5	CYT	860	160.156	97.318	-25.186	1.00	41.42	Al
ATOM	36976	N4	CYT	857	151.833	105.286	-31.115	1.00	41.32	Al6S	ATOM	37029	C5	CYT	860	161.412	97.970	-25.325	1.00	41.42	Al
ATOM	36977	C5	CYT	857	150.292	103.785	-32.150	1.00	41.32	Al6S	ATOM	37030	C4	CYT	860	161.655	98.889	-24.157	1.00	41.42	Al
ATOM	36978	O2	CYT	857	151.389	100.449	-34.835	1.00	39.20	Al6S	ATOM	37031	O4	CYT	860	160.808	100.054	-24.251	1.00	41.42	Al
ATOM	36979	O2	CYT	857	151.751	99.748	-36.003	1.00	39.20	Al6S	ATOM	37032	C1	CYT	860	158.919	100.378	-22.911	1.00	47.40	Al
ATOM	36980	C3	CYT	857	150.183	99.800	-34.185	1.00	39.20	Al6S	ATOM	37033	N1	CYT	860	158.206	99.660	-23.822	1.00	47.40	Al
ATOM	36981	O3	CYT	857	150.303	98.392	-34.242	1.00	39.20	Al6S	ATOM	37034	C6	CYT	860	158.277	101.094	-21.934	1.00	47.40	Al
ATOM	36982	P	CYT	858	150.753	97.590	-32.936	1.00	35.98	Al6S	ATOM	37035	C2	CYT	860	158.964	101.702	-21.113	1.00	47.40	Al
ATOM	36983	O1P	CYT	858	150.481	96.157	-33.231	1.00	34.69	Al6S	ATOM	37036	O2	CYT	860	156.935	101.115	-21.898	1.00	47.40	Al
ATOM	36984	O2P	CYT	858	150.139	98.211	-31.743	1.00	34.69	Al6S	ATOM	37037	N3	CYT	860	156.242	100.441	-22.797	1.00	47.40	Al
ATOM	36985	O5	CYT	858	152.314	97.905	-32.842	1.00	35.98	Al6S	ATOM	37038	C4	CYT	860	154.921	100.510	-22.738	1.00	47.40	Al
ATOM	36986	C5	CYT	858	153.176	97.700	-33.956	1.00	35.98	Al6S	ATOM	37039	N4	CYT	860	156.874	99.667	-23.802	1.00	47.40	Al
ATOM	36987	O4	CYT	858	154.528	98.314	-33.698	1.00	35.98	Al6S	ATOM	37040	C5	CYT	860	161.048	99.497	-21.948	1.00	41.42	Al
ATOM	36988	C4	CYT	858	154.423	99.761	-33.747	1.00	35.98	Al6S	ATOM	37041	C2	CYT	860	162.220	100.108	-21.473	1.00	41.42	Al
ATOM	36989	C1	CYT	858	155.430	100.332	-32.926	1.00	35.98	Al6S	ATOM	37042	O2	CYT	860	161.354	98.281	-22.804	1.00	41.42	Al
ATOM	36990	N9	CYT	858	154.795	101.140	-31.899	1.00	34.69	Al6S	ATOM	37043	C3	CYT	860	162.535	97.683	-22.338	1.00	41.42	Al
ATOM	36991	C4	CYT	858	155.445	101.934	-30.998	1.00	34.69	Al6S	ATOM	37044	O3	CYT	861	162.453	96.413	-21.380	1.00	37.53	Al
ATOM	36992	N3	CYT	858	156.780	102.108	-30.918	1.00	34.69	Al6S	ATOM	37045	P	CYT	861	163.850	95.983	-21.159	1.00	50.27	Al
ATOM	36993	C2	CYT	858	157.106	102.941	-29.952	1.00	34.69	Al6S	ATOM	37046	O1P	CYT	861	161.474	95.467	-21.952	1.00	50.27	Al
ATOM	36994	N2	CYT	858	158.390	103.252	-29.733	1.00	34.69	Al6S	ATOM	37047	O2P	CYT	861	161.891	96.972	-20.006	1.00	37.53	Al
ATOM	36995	N1	CYT	858	156.193	103.542	-29.126	1.00	34.69	Al6S	ATOM	37048	O5	CYT	861	162.615	97.924	-19.234	1.00	37.53	Al
ATOM	36996	C6	CYT	858	154.818	103.371	-29.195	1.00	34.69	Al6S	ATOM	37049	C5	CYT	861	161.773	98.318	-18.067	1.00	37.53	Al
ATOM	36997	O6	CYT	858	154.087	103.961	-28.408	1.00	34.69	Al6S	ATOM	37050	C4	CYT	861	160.535	98.826	-18.566	1.00	37.53	Al
ATOM	36998	N7	CYT	858	154.457	102.489	-30.223	1.00	34.69	Al6S	ATOM	37051	O4	CYT	861	159.518	98.459	-17.686	1.00	37.53	Al
ATOM	36999	C5	CYT	858	153.207	102.041	-30.623	1.00	34.69	Al6S	ATOM	37052	C1	CYT	861	158.221	98.616	-18.356	1.00	50.27	Al
ATOM	37000	C8	CYT	858	153.457	101.248	-31.625	1.00	34.69	Al6S	ATOM	37053	N1	CYT	861	157.819	97.824	-19.390	1.00	50.27	Al
ATOM	37001	C2	CYT	858	156.189	99.180	-32.274	1.00	35.98	Al6S	ATOM	37054	C6	CYT	861	157.418	99.626	-17.889	1.00	50.27	Al
ATOM	37002	O2	CYT	858	157.360	98.958	-33.026	1.00	35.98	Al6S	ATOM	37055	C2	CYT	861	157.752	100.354	-16.976	1.00	50.27	Al
ATOM	37003	C3	CYT	858	155.149	98.065	-32.337	1.00	35.98	Al6S	ATOM	37056	O2	CYT	861	156.219	99.761	-18.530	1.00	50.27	Al
ATOM	37004	O3	CYT	858	155.729	96.773	-32.254	1.00	35.98	Al6S	ATOM	37057	N3	CYT	861	155.755	99.704	-19.568	1.00	50.27	Al
ATOM	37005	P	CYT	859	155.689	95.957	-30.857	1.00	37.54	Al6S	ATOM	37058	C4	CYT	861	154.628	99.210	-20.005	1.00	50.27	Al
ATOM	37006	O1P	CYT	859	156.341	94.640	-31.106	1.00	32.48	Al6S	ATOM	37059	O4	CYT	861	156.644	97.982	-20.000	1.00	50.27	Al
ATOM	37007	O2P	CYT	859	154.335	95.988	-30.240	1.00	32.48	Al6S	ATOM	37060	C5	CYT	861	159.920	97.119	-15.645	1.00	37.53	Al
ATOM	37008	O5	CYT	859	156.709	96.766	-29.946	1.00	37.54	Al6S	ATOM	37061	C2	CYT	861	161.446	97.131	-17.175	1.00	37.53	Al
ATOM	37009	C5	CYT	859	158.088	96.743	-30.260	1.00	37.54	Al6S	ATOM	37062	O2	CYT	861	162.047	97.503	-15.936	1.00	37.53	Al
ATOM	37010	C4	CYT	859	158.814	97.819	-29.513	1.00	37.54	Al6S	ATOM	37063	C3	CYT	861	162.949	96.481	-15.097	1.00	38.37	Al
ATOM	37011	O4	CYT	859	158.177	99.091	-29.760	1.00	37.54	Al6S	ATOM	37064	O3	CYT	861						
ATOM	37012	C1	CYT	859	158.311	99.915	-28.616	1.00	37.54	Al6S	ATOM	37065	P	CYT	862						

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ATOM	37066	O1P	GUA	862	162.840	95.111	-15.672	1.00	37.65	A16S	ATOM	37119	N9	GUA	864	173.981	91.089	-15.334	1.00	40.38	A16
ATOM	37067	O2P	GUA	862	162.580	96.716	-13.670	1.00	37.65	A16S	ATOM	37120	C4	GUA	864	173.595	89.926	-14.730	1.00	40.38	A16
ATOM	37068	O5'	GUA	862	164.424	97.049	-15.284	1.00	38.37	A16S	ATOM	37121	N3	GUA	864	174.411	89.056	-14.103	1.00	40.38	A16
ATOM	37069	C5'	GUA	862	164.426	98.421	-15.581	1.00	38.37	A16S	ATOM	37122	C2	GUA	864	173.744	88.024	-13.619	1.00	40.38	A16
ATOM	37070	C4'	GUA	862	165.939	98.895	-15.025	1.00	38.37	A16S	ATOM	37123	N2	GUA	864	174.385	87.070	-12.935	1.00	40.38	A16
ATOM	37071	O4'	GUA	862	165.930	98.764	-13.579	1.00	38.37	A16S	ATOM	37124	N1	GUA	864	172.398	87.852	-13.759	1.00	40.38	A16
ATOM	37072	C1'	GUA	862	167.248	98.467	-13.122	1.00	38.37	A16S	ATOM	37125	O6	GUA	864	171.542	88.728	-14.406	1.00	40.38	A16
ATOM	37073	N9	GUA	862	167.232	97.133	-12.528	1.00	37.65	A16S	ATOM	37126	C6	GUA	864	170.337	88.464	-14.480	1.00	40.38	A16
ATOM	37074	C4	GUA	862	168.274	96.498	-11.879	1.00	37.65	A16S	ATOM	37127	C5	GUA	864	172.234	89.850	-14.914	1.00	40.38	A16
ATOM	37075	N3	GUA	862	169.493	97.012	-11.638	1.00	37.65	A16S	ATOM	37128	N7	GUA	864	171.771	90.950	-15.619	1.00	40.38	A16
ATOM	37076	C2	GUA	862	170.272	96.155	-11.009	1.00	37.65	A16S	ATOM	37129	C8	GUA	864	172.840	91.661	-15.842	1.00	40.38	A16
ATOM	37077	N2	GUA	862	171.525	96.500	-10.682	1.00	37.65	A16S	ATOM	37130	O2'	GUA	864	176.111	90.820	-16.505	1.00	55.63	A16
ATOM	37078	N1	GUA	862	169.888	94.901	-10.657	1.00	37.65	A16S	ATOM	37131	C2'	GUA	864	177.491	90.833	-16.195	1.00	55.63	A16
ATOM	37079	C6	GUA	862	168.650	94.346	-10.910	1.00	37.65	A16S	ATOM	37132	C3'	GUA	864	175.809	91.675	-17.722	1.00	55.63	A16
ATOM	37080	O6	GUA	862	168.428	93.182	-10.588	1.00	37.65	A16S	ATOM	37133	O3'	GUA	864	176.757	91.432	-18.740	1.00	55.63	A16
ATOM	37081	C5	GUA	862	167.797	95.252	-11.559	1.00	37.65	A16S	ATOM	37134	P	GUA	865	176.338	90.548	-20.007	1.00	42.72	A16
ATOM	37082	N7	GUA	862	166.477	95.109	-11.966	1.00	37.65	A16S	ATOM	37135	O1P	GUA	865	177.587	90.380	-20.803	1.00	46.35	A16
ATOM	37083	C8	GUA	862	166.183	96.249	-12.531	1.00	37.65	A16S	ATOM	37136	O2P	GUA	865	175.150	91.175	-20.640	1.00	46.35	A16
ATOM	37084	C2'	GUA	862	168.148	98.504	-14.358	1.00	38.37	A16S	ATOM	37137	O5'	GUA	865	175.860	89.150	-19.387	1.00	42.72	A16
ATOM	37085	O2'	GUA	862	168.622	99.815	-14.585	1.00	38.37	A16S	ATOM	37138	C5'	GUA	865	176.800	88.239	-18.828	1.00	42.72	A16
ATOM	37086	C3'	GUA	862	167.158	98.092	-15.431	1.00	38.37	A16S	ATOM	37139	C4'	GUA	865	176.106	87.009	-18.291	1.00	42.72	A16
ATOM	37087	O3'	GUA	862	167.614	98.432	-16.728	1.00	38.37	A16S	ATOM	37140	O4'	GUA	865	175.211	87.392	-17.218	1.00	42.72	A16
ATOM	37088	P	GUA	863	168.272	97.295	-17.652	1.00	37.27	A16S	ATOM	37141	C1'	GUA	865	174.034	86.608	-17.275	1.00	46.35	A16
ATOM	37089	O1P	GUA	863	168.453	97.928	-18.985	1.00	43.52	A16S	ATOM	37142	N9	GUA	865	172.935	87.474	-17.682	1.00	46.35	A16
ATOM	37090	O2P	GUA	863	169.702	97.037	-17.000	1.00	37.27	A16S	ATOM	37143	C4	GUA	865	171.602	87.247	-17.470	1.00	46.35	A16
ATOM	37091	O5'	GUA	863	170.669	98.077	-16.962	1.00	37.27	A16S	ATOM	37144	N3	GUA	865	171.073	86.197	-16.809	1.00	46.35	A16
ATOM	37092	C5'	GUA	863	171.948	97.600	-16.311	1.00	37.27	A16S	ATOM	37145	C2	GUA	865	169.754	86.237	-16.786	1.00	46.35	A16
ATOM	37093	C4'	GUA	863	171.734	97.323	-14.898	1.00	37.27	A16S	ATOM	37146	N2	GUA	865	169.010	87.228	-17.380	1.00	46.35	A16
ATOM	37094	C1'	GUA	863	172.660	96.343	-14.467	1.00	37.27	A16S	ATOM	37147	C6	GUA	865	168.783	89.149	-18.593	1.00	46.35	A16
ATOM	37095	N9	GUA	863	171.927	95.169	-14.006	1.00	43.52	A16S	ATOM	37148	O6	GUA	865	173.024	88.293	-18.084	1.00	46.35	A16
ATOM	37096	C4	GUA	863	172.421	94.115	-13.310	1.00	43.52	A16S	ATOM	37149	C5	GUA	865	171.861	89.177	-18.647	1.00	46.35	A16
ATOM	37097	N3	GUA	863	173.729	93.992	-12.917	1.00	43.52	A16S	ATOM	37150	C8	GUA	865	173.024	88.652	-18.380	1.00	46.35	A16
ATOM	37098	C2	GUA	863	175.153	92.598	-11.770	1.00	43.52	A16S	ATOM	37151	N7	GUA	865	174.275	85.525	-18.324	1.00	42.72	A16
ATOM	37099	N2	GUA	863	172.968	91.933	-12.017	1.00	43.52	A16S	ATOM	37152	C8	GUA	865	174.854	84.388	-17.726	1.00	42.72	A16
ATOM	37100	N1	GUA	863	171.648	92.027	-12.416	1.00	43.52	A16S	ATOM	37153	C2'	GUA	865	176.008	85.257	-19.952	1.00	42.72	A16
ATOM	37101	C6	GUA	863	170.861	91.109	-12.147	1.00	43.52	A16S	ATOM	37154	O2'	GUA	865	175.858	85.081	-21.538	1.00	59.01	A16
ATOM	37102	C6	GUA	863	171.404	93.241	-13.115	1.00	43.52	A16S	ATOM	37155	C3'	GUA	865	174.762	84.109	-21.733	1.00	39.50	A16
ATOM	37103	O6	GUA	863	170.238	93.740	-13.674	1.00	43.52	A16S	ATOM	37156	O1P	GUA	866	177.208	86.798	-22.086	1.00	39.50	A16
ATOM	37104	C5	GUA	863	170.597	94.887	-14.189	1.00	43.52	A16S	ATOM	37157	P	GUA	866	175.403	86.506	-22.079	1.00	59.01	A16
ATOM	37105	N7	GUA	863	173.522	96.021	-15.685	1.00	37.27	A16S	ATOM	37158	O2P	GUA	866	175.579	86.873	-23.449	1.00	59.01	A16
ATOM	37106	C8	GUA	863	174.580	96.952	-15.798	1.00	37.27	A16S	ATOM	37159	O5'	GUA	866	174.468	87.794	-23.852	1.00	59.01	A16
ATOM	37107	C2'	GUA	863	172.529	96.293	-16.799	1.00	37.27	A16S	ATOM	37160	C5'	GUA	866	173.258	87.884	-23.664	1.00	59.01	A16
ATOM	37108	O2'	GUA	863	173.229	96.402	-18.033	1.00	37.27	A16S	ATOM	37161	C3'	GUA	866	172.465	87.154	-22.196	1.00	39.50	A16
ATOM	37109	C3'	GUA	863	173.228	95.148	-19.047	1.00	55.63	A16S	ATOM	37162	C4'	GUA	866	171.465	87.372	-21.952	1.00	39.50	A16
ATOM	37110	O3'	GUA	864	174.010	95.580	-20.236	1.00	40.38	A16S	ATOM	37163	C1'	GUA	866	170.136	87.372	-21.952	1.00	39.50	A16
ATOM	37111	P	GUA	864	171.820	94.687	-19.213	1.00	40.38	A16S	ATOM	37164	C4	GUA	866	169.348	88.286	-22.534	1.00	39.50	A16
ATOM	37112	O1P	GUA	864	175.404	94.012	-18.270	1.00	55.63	A16S	ATOM	37165	N9	GUA	866	168.114	88.193	-22.072	1.00	39.50	A16
ATOM	37113	O2P	GUA	864	175.969	93.062	-17.135	1.00	55.63	A16S	ATOM	37166	C4	GUA	866	167.611	87.354	-21.165	1.00	39.50	A16
ATOM	37114	O5'	GUA	864	175.325	92.945	-15.839	1.00	55.63	A16S	ATOM	37167	N3	GUA	866	167.924	85.606	-19.697	1.00	39.50	A16
ATOM	37115	C5'	GUA	864	175.350	91.585	-15.426	1.00	55.63	A16S	ATOM	37168	C2	GUA	866						
ATOM	37116	C4'	GUA	864							ATOM	37169	N1	GUA	866						
ATOM	37117	O4'	GUA	864							ATOM	37170	C6	GUA	866						
ATOM	37118	C1'	GUA	864							ATOM	37171	N6	GUA	866						

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ATOM	37172	C5	ADE	866	169.769	86.445	-20.999	1.00	39.50	Al6S	ATOM	37225	O5' ADE	869	172.697	79.858	-26.903	1.00	46.52	Al1
ATOM	37173	N7	ADE	866	170.854	85.662	-20.634	1.00	39.50	Al6S	ATOM	37226	C5' ADE	869	173.382	79.013	-26.013	1.00	46.52	Al1
ATOM	37174	C8	ADE	866	171.835	86.127	-21.369	1.00	39.50	Al6S	ATOM	37227	C4' ADE	869	172.395	78.328	-25.122	1.00	46.52	Al1
ATOM	37175	C2' ADE	866	172.870	89.218	-22.740	1.00	59.01	Al6S	ATOM	37228	O4' ADE	869	171.730	79.325	-24.312	1.00	46.52	Al1	
ATOM	37176	O2' ADE	866	172.389	90.282	-23.534	1.00	59.01	Al6S	ATOM	37229	C1' ADE	869	170.374	78.965	-24.128	1.00	46.52	Al1	
ATOM	37177	C3' ADE	866	174.365	88.993	-22.922	1.00	59.01	Al6S	ATOM	37230	N9 ADE	869	169.558	80.005	-24.747	1.00	44.24	Al1	
ATOM	37178	O3' ADE	866	174.895	90.206	-23.479	1.00	59.01	Al6S	ATOM	37231	C4 ADE	869	168.222	80.218	-24.547	1.00	44.24	Al1	
ATOM	37179	P	GUA	867	175.354	90.287	-25.033	1.00	65.49	Al6S	ATOM	37232	N3 ADE	869	167.402	79.514	-23.758	1.00	44.24	Al1
ATOM	37180	O1P GUA	867	176.269	89.167	-25.346	1.00	59.34	Al6S	ATOM	37233	C2 ADE	869	166.174	79.999	-23.817	1.00	44.24	Al1	
ATOM	37181	O2P GUA	867	175.774	91.677	-25.316	1.00	59.34	Al6S	ATOM	37234	N1 ADE	869	165.705	81.037	-24.516	1.00	44.24	Al1	
ATOM	37182	O5' GUA	867	174.024	90.087	-25.861	1.00	65.49	Al6S	ATOM	37235	C6 ADE	869	166.562	81.725	-25.298	1.00	44.24	Al1	
ATOM	37183	C5' GUA	867	174.056	89.854	-27.258	1.00	65.49	Al6S	ATOM	37236	N6 ADE	869	166.101	82.764	-25.997	1.00	44.24	Al1	
ATOM	37184	C4' GUA	867	172.881	89.002	-27.610	1.00	65.49	Al6S	ATOM	37237	C5 ADE	869	167.893	81.303	-25.329	1.00	44.24	Al1	
ATOM	37185	O4' GUA	867	171.711	89.675	-27.134	1.00	65.49	Al6S	ATOM	37238	N7 ADE	869	169.001	81.765	-26.022	1.00	44.24	Al1	
ATOM	37186	C1' GUA	867	170.605	89.078	-27.735	1.00	65.49	Al6S	ATOM	37239	C8 ADE	869	169.961	80.965	-25.641	1.00	44.24	Al1	
ATOM	37187	N9 GUA	867	169.532	90.048	-27.864	1.00	59.34	Al6S	ATOM	37240	C2' ADE	869	170.193	77.590	-24.772	1.00	46.52	Al1	
ATOM	37188	C4 GUA	867	168.325	89.919	-27.252	1.00	59.34	Al6S	ATOM	37241	O2' ADE	869	170.466	76.570	-23.832	1.00	46.52	Al1	
ATOM	37189	N3 GUA	867	167.946	88.870	-26.500	1.00	59.34	Al6S	ATOM	37242	C3' ADE	869	171.262	77.636	-25.847	1.00	46.52	Al1	
ATOM	37190	C2 GUA	867	166.742	89.029	-26.005	1.00	59.34	Al6S	ATOM	37243	O3' ADE	869	171.661	76.333	-26.207	1.00	46.52	Al1	
ATOM	37191	N2 GUA	867	166.210	88.066	-25.243	1.00	59.34	Al6S	ATOM	37244	P	870	171.290	75.768	-27.653	1.00	46.43	Al1	
ATOM	37192	N1 GUA	867	165.968	90.138	-26.227	1.00	59.34	Al6S	ATOM	37245	O1P CYT	870	172.162	74.585	-27.841	1.00	53.62	Al1	
ATOM	37193	C6 GUA	867	166.334	91.226	-27.017	1.00	59.34	Al6S	ATOM	37246	O2P CYT	870	171.345	76.899	-28.617	1.00	53.62	Al1	
ATOM	37194	O6 GUA	867	165.539	92.170	-27.182	1.00	59.34	Al6S	ATOM	37247	O5' CYT	870	169.785	75.283	-27.501	1.00	46.43	Al1	
ATOM	37195	C5 GUA	867	167.635	91.062	-27.551	1.00	59.34	Al6S	ATOM	37248	C5' CYT	870	169.413	74.458	-26.408	1.00	46.43	Al1	
ATOM	37196	N7 GUA	867	168.389	91.889	-28.372	1.00	59.34	Al6S	ATOM	37249	C4' CYT	870	167.949	74.625	-26.106	1.00	46.43	Al1	
ATOM	37197	C8 GUA	867	169.508	91.239	-28.538	1.00	59.34	Al6S	ATOM	37250	O4' CYT	870	167.674	75.946	-25.564	1.00	46.43	Al1	
ATOM	37198	C2' GUA	867	171.077	88.245	-28.930	1.00	65.49	Al6S	ATOM	37251	C1' CYT	870	166.344	76.319	-25.893	1.00	46.43	Al1	
ATOM	37199	O2' GUA	867	170.969	86.905	-28.493	1.00	65.49	Al6S	ATOM	37252	N1 CYT	870	166.379	77.602	-26.605	1.00	53.62	Al1	
ATOM	37200	C3' GUA	867	172.539	88.663	-29.050	1.00	65.49	Al6S	ATOM	37253	C6 CYT	870	167.508	78.025	-27.249	1.00	53.62	Al1	
ATOM	37201	O3' GUA	867	173.433	87.615	-29.458	1.00	65.49	Al6S	ATOM	37254	C2 CYT	870	165.226	78.388	-26.616	1.00	53.62	Al1	
ATOM	37202	P	URI	868	172.892	86.174	-29.970	1.00	52.37	Al6S	ATOM	37255	O2 CYT	870	164.215	79.972	-26.024	1.00	53.62	Al1
ATOM	37203	O1P URI	868	173.931	85.748	-30.948	1.00	58.74	Al6S	ATOM	37256	N3 CYT	870	165.237	79.577	-27.268	1.00	53.62	Al1	
ATOM	37204	O2P URI	868	171.463	86.178	-30.404	1.00	58.74	Al6S	ATOM	37257	C4 CYT	870	166.343	79.985	-27.889	1.00	53.62	Al1	
ATOM	37205	O5' URI	868	173.075	85.233	-28.692	1.00	52.37	Al6S	ATOM	37258	N4 CYT	870	166.313	81.171	-28.502	1.00	53.62	Al1	
ATOM	37206	C5' URI	868	174.390	84.867	-28.273	1.00	52.37	Al6S	ATOM	37259	C5 CYT	870	167.533	79.198	-27.901	1.00	53.62	Al1	
ATOM	37207	C4' URI	868	174.359	84.049	-27.002	1.00	52.37	Al6S	ATOM	37260	C2' CYT	870	165.766	75.191	-26.748	1.00	46.43	Al1	
ATOM	37208	O4' URI	868	173.902	84.850	-25.886	1.00	52.37	Al6S	ATOM	37261	O2' CYT	870	165.063	74.308	-25.904	1.00	46.43	Al1	
ATOM	37209	C1' URI	868	173.165	84.045	-24.993	1.00	52.37	Al6S	ATOM	37262	C3' CYT	870	167.037	74.567	-27.311	1.00	46.43	Al1	
ATOM	37210	N1 URI	868	171.806	84.534	-24.905	1.00	58.74	Al6S	ATOM	37263	O3' CYT	870	166.873	73.222	-27.729	1.00	46.43	Al1	
ATOM	37211	C6 URI	868	171.381	85.531	-25.745	1.00	58.74	Al6S	ATOM	37264	P	871	166.561	72.895	-29.272	1.00	54.86	Al1	
ATOM	37212	C2 URI	868	170.969	84.066	-23.949	1.00	58.74	Al6S	ATOM	37265	O1P GUA	871	166.469	71.412	-29.328	1.00	51.99	Al1	
ATOM	37213	O2 URI	868	171.321	83.190	-23.177	1.00	58.74	Al6S	ATOM	37266	O2P GUA	871	167.495	73.605	-30.186	1.00	51.99	Al1	
ATOM	37214	N3 URI	868	169.709	84.539	-23.928	1.00	58.74	Al6S	ATOM	37267	O5' GUA	871	165.113	73.517	-29.482	1.00	54.86	Al1	
ATOM	37215	C4 URI	868	169.218	85.569	-24.740	1.00	58.74	Al6S	ATOM	37268	C5' GUA	871	163.980	72.975	-28.819	1.00	54.86	Al1	
ATOM	37216	O4 URI	868	168.056	85.972	-24.592	1.00	58.74	Al6S	ATOM	37269	C4' GUA	871	162.751	73.739	-29.220	1.00	54.86	Al1	
ATOM	37217	C5 URI	868	170.151	86.033	-25.696	1.00	58.74	Al6S	ATOM	37270	O4' GUA	871	162.806	75.069	-28.646	1.00	54.86	Al1	
ATOM	37218	C2' URI	868	173.201	82.607	-25.523	1.00	52.37	Al6S	ATOM	37271	C1' GUA	871	162.164	75.987	-29.522	1.00	54.86	Al1	
ATOM	37219	O2' URI	868	174.216	81.906	-24.850	1.00	52.37	Al6S	ATOM	37272	N9 GUA	871	163.108	77.044	-29.869	1.00	51.99	Al1	
ATOM	37220	C3' URI	868	173.474	82.820	-27.013	1.00	52.37	Al6S	ATOM	37273	C4 GUA	871	162.789	78.287	-30.348	1.00	51.99	Al1	
ATOM	37221	O3' URI	868	174.206	81.743	-27.597	1.00	52.37	Al6S	ATOM	37274	N3 GUA	871	161.545	78.759	-30.557	1.00	51.99	Al1	
ATOM	37222	P	ADE	869	173.432	80.455	-28.179	1.00	46.52	Al6S	ATOM	37275	C2 GUA	871	161.563	79.984	-31.044	1.00	51.99	Al1
ATOM	37223	O1P ADE	869	174.469	79.478	-28.590	1.00	44.24	Al6S	ATOM	37276	N2 GUA	871	160.421	80.610	-31.316	1.00	51.99	Al1	
ATOM	37224	O2P ADE	869	172.402	80.882	-29.166	1.00	44.24	Al6S	ATOM	37277	N1 GUA	871	162.702	80.688	-31.305	1.00	51.99	Al1	

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ATOM	37218	C6	GUIA	871	163.989	80.224	-31.099	1.00	51.99	Al6S	ATOM	37331	O1P	CYT	874	159.515	77.456	-44.019	1.00	42.30	Al6
ATOM	37219	O6	GUIA	871	161.953	80.944	-31.380	1.00	51.99	Al6S	ATOM	37332	O2P	CYT	874	161.168	76.490	-42.306	1.00	42.30	Al6
ATOM	37280	C5	GUIA	871	163.991	78.912	-30.572	1.00	51.99	Al6S	ATOM	37333	O5	CYT	874	161.466	78.788	-43.232	1.00	51.46	Al6
ATOM	37281	N7	GUIA	871	165.048	78.087	-30.218	1.00	51.99	Al6S	ATOM	37334	C5	CYT	874	161.011	79.997	-43.792	1.00	51.46	Al6
ATOM	37282	C8	GUIA	871	164.476	76.992	-29.803	1.00	51.99	Al6S	ATOM	37335	C4	CYT	874	162.143	80.979	-43.905	1.00	51.46	Al6
ATOM	37283	C2	GUIA	871	161.716	75.202	-30.753	1.00	54.86	Al6S	ATOM	37336	C4	CYT	874	162.639	81.306	-42.582	1.00	51.46	Al6
ATOM	37284	O2	GUIA	871	160.380	74.790	-30.607	1.00	54.86	Al6S	ATOM	37337	C1	CYT	874	163.981	81.740	-42.685	1.00	51.46	Al6
ATOM	37285	C3	GUIA	871	162.662	74.019	-30.706	1.00	54.86	Al6S	ATOM	37338	N1	CYT	874	164.821	80.877	-41.847	1.00	42.30	Al6
ATOM	37286	O3	GUIA	871	162.148	72.924	-31.431	1.00	54.86	Al6S	ATOM	37339	C6	CYT	874	164.362	79.679	-41.390	1.00	42.30	Al6
ATOM	37287	P	GUIA	872	162.433	72.835	-33.005	1.00	43.24	Al6S	ATOM	37340	C2	CYT	874	166.107	81.291	-41.554	1.00	42.30	Al6
ATOM	37288	O1P	GUIA	872	161.881	71.542	-33.511	1.00	47.67	Al6S	ATOM	37341	O2	CYT	874	166.475	82.396	-41.953	1.00	42.30	Al6
ATOM	37289	O2P	GUIA	872	161.873	73.146	-33.198	1.00	47.67	Al6S	ATOM	37342	N3	CYT	874	166.920	80.481	-40.848	1.00	42.30	Al6
ATOM	37290	O5	GUIA	872	161.583	74.043	-33.612	1.00	43.24	Al6S	ATOM	37343	C4	CYT	874	166.479	79.294	-40.440	1.00	42.30	Al6
ATOM	37291	C5	GUIA	872	160.165	74.072	-33.491	1.00	43.24	Al6S	ATOM	37344	N4	CYT	874	167.325	78.506	-39.788	1.00	42.30	Al6
ATOM	37292	C4	GUIA	872	159.618	75.365	-34.044	1.00	43.24	Al6S	ATOM	37345	C5	CYT	874	165.153	78.860	-40.694	1.00	42.30	Al6
ATOM	37293	O4	GUIA	872	160.109	76.480	-33.257	1.00	43.24	Al6S	ATOM	37346	C2	CYT	874	164.376	81.600	-44.160	1.00	51.46	Al6
ATOM	37294	C1	GUIA	872	160.289	77.614	-34.091	1.00	47.67	Al6S	ATOM	37347	O2	CYT	874	164.155	82.815	-44.858	1.00	51.46	Al6
ATOM	37295	N9	GUIA	872	161.697	77.994	-34.043	1.00	47.67	Al6S	ATOM	37348	C3	CYT	874	163.404	80.526	-44.611	1.00	51.46	Al6
ATOM	37296	C4	GUIA	872	162.230	79.217	-34.367	1.00	47.67	Al6S	ATOM	37349	O3	CYT	874	163.281	80.528	-46.021	1.00	51.46	Al6
ATOM	37297	N3	GUIA	872	161.542	80.300	-34.776	1.00	47.67	Al6S	ATOM	37350	P	GUIA	875	164.018	79.381	-46.873	1.00	50.03	Al6
ATOM	37298	C2	GUIA	872	162.343	81.324	-35.024	1.00	47.67	Al6S	ATOM	37351	O1P	GUIA	875	163.544	79.489	-48.275	1.00	51.20	Al6
ATOM	37299	N2	GUIA	872	161.835	82.483	-35.435	1.00	47.67	Al6S	ATOM	37352	O2P	GUIA	875	163.875	78.103	-46.134	1.00	51.20	Al6
ATOM	37300	N1	GUIA	872	163.701	81.289	-34.886	1.00	47.67	Al6S	ATOM	37353	O5	GUIA	875	165.562	79.758	-46.829	1.00	50.03	Al6
ATOM	37301	C6	GUIA	872	164.427	80.189	-34.345	1.00	47.67	Al6S	ATOM	37354	C5	GUIA	875	166.019	80.966	-47.402	1.00	50.03	Al6
ATOM	37302	O6	GUIA	872	165.652	80.266	-34.375	1.00	47.67	Al6S	ATOM	37355	C4	GUIA	875	167.474	81.158	-47.100	1.00	50.03	Al6
ATOM	37303	C5	GUIA	872	163.588	79.082	-34.190	1.00	47.67	Al6S	ATOM	37356	O4	GUIA	875	167.661	81.362	-45.675	1.00	50.03	Al6
ATOM	37304	N7	GUIA	872	163.903	77.806	-33.752	1.00	47.67	Al6S	ATOM	37357	C1	GUIA	875	168.944	80.894	-45.296	1.00	50.03	Al6
ATOM	37305	C8	GUIA	872	162.752	77.197	-33.676	1.00	47.67	Al6S	ATOM	37358	N9	GUIA	875	168.767	79.862	-44.290	1.00	51.20	Al6
ATOM	37306	C2	GUIA	872	159.834	77.215	-35.497	1.00	43.24	Al6S	ATOM	37359	C3	GUIA	875	169.747	79.338	-43.446	1.00	51.20	Al6
ATOM	37307	O2	GUIA	872	158.475	77.556	-35.695	1.00	43.24	Al6S	ATOM	37360	N3	GUIA	875	171.026	79.022	-42.630	1.00	51.20	Al6
ATOM	37308	C3	GUIA	872	160.036	75.708	-35.461	1.00	43.24	Al6S	ATOM	37361	C2	GUIA	875	171.750	79.022	-42.630	1.00	51.20	Al6
ATOM	37309	O3	GUIA	872	159.195	75.069	-36.410	1.00	43.24	Al6S	ATOM	37362	N2	GUIA	875	173.037	79.321	-42.430	1.00	51.20	Al6
ATOM	37310	P	CYT	873	159.719	74.853	-37.912	1.00	46.35	Al6S	ATOM	37363	N1	GUIA	875	171.267	77.946	-41.945	1.00	51.20	Al6
ATOM	37311	O1P	CYT	873	158.632	74.149	-38.636	1.00	48.62	Al6S	ATOM	37364	C6	GUIA	875	169.951	77.493	-41.986	1.00	51.20	Al6
ATOM	37312	O2P	CYT	873	161.079	74.240	-37.859	1.00	48.62	Al6S	ATOM	37365	O6	GUIA	875	169.616	76.487	-41.330	1.00	51.20	Al6
ATOM	37313	O5	CYT	873	159.864	76.327	-38.507	1.00	46.35	Al6S	ATOM	37366	C5	GUIA	875	169.157	78.294	-42.830	1.00	51.20	Al6
ATOM	37314	C5	CYT	873	158.724	77.112	-38.799	1.00	46.35	Al6S	ATOM	37367	N7	GUIA	875	167.811	78.209	-43.143	1.00	51.20	Al6
ATOM	37315	C4	CYT	873	159.135	78.481	-39.295	1.00	46.35	Al6S	ATOM	37368	C8	GUIA	875	167.622	79.171	-44.002	1.00	50.03	Al6
ATOM	37316	O4	CYT	873	159.798	79.217	-38.237	1.00	46.35	Al6S	ATOM	37369	C2	GUIA	875	169.583	80.296	-46.556	1.00	50.03	Al6
ATOM	37317	C1	CYT	873	160.736	80.121	-38.796	1.00	46.35	Al6S	ATOM	37370	O2	GUIA	875	170.397	81.257	-47.195	1.00	50.03	Al6
ATOM	37318	N1	CYT	873	162.066	79.773	-38.287	1.00	48.62	Al6S	ATOM	37371	C3	GUIA	875	168.344	79.953	-47.373	1.00	50.03	Al6
ATOM	37319	C6	CYT	873	162.319	78.518	-37.826	1.00	48.62	Al6S	ATOM	37372	O3	GUIA	875	168.595	79.807	-48.765	1.00	50.03	Al6
ATOM	37320	C2	CYT	873	163.083	80.744	-38.296	1.00	48.62	Al6S	ATOM	37373	C3	CYT	876	168.532	78.346	-49.429	1.00	47.97	Al6
ATOM	37321	O2	CYT	873	162.820	81.901	-38.688	1.00	48.62	Al6S	ATOM	37374	O1P	CYT	876	167.353	77.631	-48.877	1.00	49.51	Al6
ATOM	37322	N3	CYT	873	164.319	80.398	-37.872	1.00	48.62	Al6S	ATOM	37375	O2P	CYT	876	168.671	78.530	-50.892	1.00	49.51	Al6
ATOM	37323	C4	CYT	873	164.551	79.160	-37.447	1.00	48.62	Al6S	ATOM	37376	O5	CYT	876	169.826	77.611	-48.866	1.00	47.97	Al6
ATOM	37324	N4	CYT	873	165.770	78.858	-37.062	1.00	48.62	Al6S	ATOM	37377	C5	CYT	876	170.096	76.246	-49.169	1.00	47.97	Al6
ATOM	37325	C5	CYT	873	163.534	78.174	-37.402	1.00	48.62	Al6S	ATOM	37378	C4	CYT	876	171.589	76.022	-49.222	1.00	47.97	Al6
ATOM	37326	C2	CYT	873	160.665	79.946	-40.310	1.00	46.35	Al6S	ATOM	37379	O1	CYT	876	172.128	76.777	-50.334	1.00	47.97	Al6
ATOM	37327	O2	CYT	873	159.771	80.887	-40.845	1.00	46.35	Al6S	ATOM	37380	C1	CYT	876	173.387	77.309	-49.986	1.00	47.97	Al6
ATOM	37328	C3	CYT	873	160.148	78.522	-40.418	1.00	46.35	Al6S	ATOM	37381	N1	CYT	876	173.329	78.756	-50.173	1.00	49.51	Al6
ATOM	37329	O3	CYT	873	159.552	78.299	-41.681	1.00	46.35	Al6S	ATOM	37382	C6	CYT	876	172.148	79.429	-50.094	1.00	49.51	Al6
ATOM	37330	P	CYT	874	160.426	77.647	-42.859	1.00	51.46	Al6S	ATOM	37383	C2	CYT	876	174.504	79.432	-50.470	1.00	49.51	Al6

ATOM	37384	O2	CYT	876	175.574	78.798	-50.460	1.00	49.51	Al6S	ATOM	37437	P	GUA	879	178.341	81.987	-38.379	1.00	52.59	Al
ATOM	37385	N3	CYT	876	174.457	80.755	-50.749	1.00	49.51	Al6S	ATOM	37438	OlP	GUA	879	179.395	82.372	-37.409	1.00	37.20	Al
ATOM	37386	C4	CYT	876	173.296	81.395	-50.709	1.00	49.51	Al6S	ATOM	37439	O2P	GUA	879	177.905	80.551	-38.505	1.00	37.20	Al
ATOM	37387	N4	CYT	876	173.287	82.684	-51.027	1.00	49.51	Al6S	ATOM	37440	O5'	GUA	879	177.005	82.816	-38.101	1.00	52.59	Al
ATOM	37388	C5	CYT	876	172.087	80.737	-50.350	1.00	49.51	Al6S	ATOM	37441	C5'	GUA	879	176.980	84.225	-38.235	1.00	52.59	Al
ATOM	37389	C2'	CYT	876	173.721	76.862	-48.566	1.00	47.97	Al6S	ATOM	37442	C4'	GUA	879	175.792	84.660	-39.073	1.00	52.59	Al
ATOM	37390	O2'	CYT	876	174.572	75.747	-48.618	1.00	47.97	Al6S	ATOM	37443	C1'	GUA	879	175.436	83.594	-39.991	1.00	52.59	Al
ATOM	37391	C3'	CYT	876	172.342	76.539	-48.010	1.00	47.97	Al6S	ATOM	37444	OlP	GUA	879	174.084	82.751	-40.378	1.00	52.59	Al
ATOM	37392	O3'	CYT	876	172.406	75.549	-47.001	1.00	47.97	Al6S	ATOM	37445	N9	GUA	879	173.332	82.556	-40.037	1.00	37.20	Al
ATOM	37393	P	ADE	877	172.381	75.990	-45.460	1.00	49.86	Al6S	ATOM	37446	C4	GUA	879	172.012	82.363	-40.329	1.00	37.20	Al
ATOM	37394	OlP	ADE	877	172.362	74.747	-44.644	1.00	42.79	Al6S	ATOM	37447	C3	GUA	879	171.223	83.229	-40.994	1.00	37.20	Al
ATOM	37395	O2P	ADE	877	171.299	76.976	-45.292	1.00	42.79	Al6S	ATOM	37448	N2	GUA	879	169.992	82.772	-41.122	1.00	37.20	Al
ATOM	37396	O5'	ADE	877	173.763	76.756	-45.255	1.00	49.86	Al6S	ATOM	37449	N2	GUA	879	169.080	83.491	-41.787	1.00	37.20	Al
ATOM	37397	C5'	ADE	877	174.994	76.045	-45.204	1.00	49.86	Al6S	ATOM	37450	N1	GUA	879	169.568	81.573	-40.616	1.00	37.20	Al
ATOM	37398	C4'	ADE	877	176.148	77.009	-45.267	1.00	49.86	Al6S	ATOM	37451	C6	GUA	879	170.367	80.674	-39.918	1.00	37.20	Al
ATOM	37399	O4'	ADE	877	176.007	77.809	-46.464	1.00	49.86	Al6S	ATOM	37452	O6	GUA	879	169.881	79.633	-39.491	1.00	37.20	Al
ATOM	37400	C1'	ADE	877	176.365	79.145	-46.197	1.00	49.86	Al6S	ATOM	37453	C5	GUA	879	171.691	81.137	-39.795	1.00	37.20	Al
ATOM	37401	N9	ADE	877	175.198	79.984	-46.473	1.00	42.79	Al6S	ATOM	37454	N7	GUA	879	172.796	80.558	-39.191	1.00	37.20	Al
ATOM	37402	C4	ADE	877	175.207	81.293	-46.896	1.00	42.79	Al6S	ATOM	37455	C8	GUA	879	173.751	81.435	-39.363	1.00	37.20	Al
ATOM	37403	N3	ADE	877	176.278	82.083	-47.086	1.00	42.79	Al6S	ATOM	37456	C2'	GUA	879	173.531	84.935	-39.599	1.00	52.59	Al
ATOM	37404	C2	ADE	877	175.901	83.267	-47.546	1.00	42.79	Al6S	ATOM	37457	O2'	GUA	879	173.688	86.071	-40.417	1.00	52.59	Al
ATOM	37405	N1	ADE	877	174.671	83.713	-47.829	1.00	42.79	Al6S	ATOM	37458	C3'	GUA	879	174.457	84.945	-38.395	1.00	52.59	Al
ATOM	37406	C6	ADE	877	173.627	82.886	-47.638	1.00	42.79	Al6S	ATOM	37459	O3'	GUA	879	174.431	86.227	-37.766	1.00	52.59	Al
ATOM	37407	N6	ADE	877	172.415	83.310	-47.129	1.00	42.79	Al6S	ATOM	37460	P	GUA	880	173.288	86.558	-36.687	1.00	43.42	Al
ATOM	37408	C5	ADE	877	173.886	81.621	-47.193	1.00	42.79	Al6S	ATOM	37461	OlP	GUA	880	173.600	87.854	-36.013	1.00	38.77	Al
ATOM	37409	N7	ADE	877	173.054	80.563	-46.809	1.00	42.79	Al6S	ATOM	37462	O2P	GUA	880	173.065	85.341	-35.865	1.00	38.77	Al
ATOM	37410	C8	ADE	877	173.879	79.620	-46.418	1.00	42.79	Al6S	ATOM	37463	O5'	GUA	880	171.999	86.795	-37.581	1.00	43.42	Al
ATOM	37411	C2'	ADE	877	176.907	79.198	-44.771	1.00	49.86	Al6S	ATOM	37464	C5'	GUA	880	171.939	87.891	-38.485	1.00	43.42	Al
ATOM	37412	O2'	ADE	877	178.304	79.014	-44.811	1.00	49.86	Al6S	ATOM	37465	C4'	GUA	880	170.573	87.960	-39.124	1.00	43.42	Al
ATOM	37413	C3'	ADE	877	176.206	78.010	-44.132	1.00	49.86	Al6S	ATOM	37466	O4'	GUA	880	170.310	86.716	-39.824	1.00	43.42	Al
ATOM	37414	O3'	ADE	877	176.992	77.489	-43.069	1.00	49.86	Al6S	ATOM	37467	Cl'	GUA	880	168.938	86.383	-39.705	1.00	43.42	Al
ATOM	37415	P	ADE	878	176.823	78.094	-41.595	1.00	47.89	Al6S	ATOM	37468	N9	GUA	880	168.857	85.130	-38.978	1.00	38.77	Al
ATOM	37416	OlP	ADE	878	177.815	77.491	-40.678	1.00	39.33	Al6S	ATOM	37469	C4	GUA	880	167.762	84.316	-38.877	1.00	38.77	Al
ATOM	37417	O2P	ADE	878	175.375	77.979	-41.281	1.00	39.33	Al6S	ATOM	37470	N3	GUA	880	166.548	84.549	-39.418	1.00	38.77	Al
ATOM	37418	O5'	ADE	878	177.255	79.617	-41.749	1.00	47.89	Al6S	ATOM	37471	C2	GUA	880	165.700	83.565	-39.156	1.00	38.77	Al
ATOM	37419	C5'	ADE	878	178.630	79.962	-41.760	1.00	47.89	Al6S	ATOM	37472	N2	GUA	880	164.432	83.623	-39.600	1.00	38.77	Al
ATOM	37420	C4'	ADE	878	178.804	81.449	-41.938	1.00	47.89	Al6S	ATOM	37473	N1	GUA	880	166.029	82.452	-38.433	1.00	38.77	Al
ATOM	37421	O4'	ADE	878	178.280	81.841	-43.227	1.00	47.89	Al6S	ATOM	37474	C6	GUA	880	167.269	82.206	-37.868	1.00	38.77	Al
ATOM	37422	Cl'	ADE	878	177.693	83.127	-43.129	1.00	47.89	Al6S	ATOM	37475	O6	GUA	880	167.450	81.182	-37.230	1.00	38.77	Al
ATOM	37423	N9	ADE	878	176.260	82.994	-43.351	1.00	39.33	Al6S	ATOM	37476	C5	GUA	880	168.178	83.241	-38.132	1.00	38.77	Al
ATOM	37424	C4	ADE	878	175.455	83.881	-44.015	1.00	39.33	Al6S	ATOM	37477	N7	GUA	880	169.503	83.385	-37.758	1.00	38.77	Al
ATOM	37425	N3	ADE	878	175.821	85.036	-44.594	1.00	39.33	Al6S	ATOM	37478	C8	GUA	880	169.863	84.523	-38.279	1.00	38.77	Al
ATOM	37426	C2	ADE	878	174.769	85.630	-45.150	1.00	39.33	Al6S	ATOM	37479	C2'	GUA	880	168.256	87.529	-38.970	1.00	43.42	Al
ATOM	37427	N1	ADE	878	173.492	85.230	-45.184	1.00	39.33	Al6S	ATOM	37480	O2'	GUA	880	167.779	88.466	-39.910	1.00	43.42	Al
ATOM	37428	C6	ADE	878	173.162	84.067	-44.584	1.00	39.33	Al6S	ATOM	37481	C3'	GUA	880	169.414	88.075	-38.154	1.00	43.42	Al
ATOM	37429	N6	ADE	878	171.887	83.675	-44.594	1.00	39.33	Al6S	ATOM	37482	O3'	GUA	880	169.200	89.425	-37.806	1.00	43.42	Al
ATOM	37430	C5	ADE	878	174.186	83.340	-43.971	1.00	39.33	Al6S	ATOM	37483	P	CYT	881	168.662	89.779	-36.343	1.00	45.49	Al
ATOM	37431	N7	ADE	878	174.191	82.128	-43.295	1.00	39.33	Al6S	ATOM	37484	OlP	CYT	881	168.633	91.261	-36.307	1.00	41.87	Al
ATOM	37432	C8	ADE	878	175.442	81.970	-42.948	1.00	39.33	Al6S	ATOM	37485	O2P	CYT	881	169.442	89.034	-35.326	1.00	41.87	Al
ATOM	37433	C2'	ADE	878	177.992	83.641	-41.729	1.00	47.89	Al6S	ATOM	37486	O5'	CYT	881	167.169	89.226	-36.351	1.00	45.49	Al
ATOM	37434	O2'	ADE	878	179.232	84.313	-41.790	1.00	47.89	Al6S	ATOM	37487	C5'	CYT	881	166.176	89.843	-37.162	1.00	45.49	Al
ATOM	37435	C3'	ADE	878	178.075	82.339	-40.951	1.00	47.89	Al6S	ATOM	37488	C4'	CYT	881	164.891	89.065	-37.089	1.00	45.49	Al
ATOM	37436	O3'	ADE	878	178.865	82.523	-39.794	1.00	47.89	Al6S	ATOM	37489	O4'	CYT	881	165.131	87.727	-37.575	1.00	45.49	Al

ATOM	37490	C1' CYT	881	164.274	86.824	-36.910	1.00	45.49	Al6s	ATOM	37543	O2' GUA	883	163.604	84.658	-25.007	1.00	48.23	Al6
ATOM	37491	N1 CYT	881	165.094	85.816	-36.243	1.00	41.87	Al6s	ATOM	37544	C3' GUA	883	162.850	86.755	-25.952	1.00	48.23	Al6
ATOM	37492	C6 CYT	881	166.425	86.015	-36.043	1.00	41.87	Al6s	ATOM	37545	O3' GUA	883	162.293	87.017	-24.686	1.00	48.23	Al6
ATOM	37493	C2 CYT	881	164.484	84.643	-35.814	1.00	41.87	Al6s	ATOM	37546	P ADE	884	163.020	88.057	-23.720	1.00	50.56	Al6
ATOM	37494	O2 CYT	881	163.271	84.503	-35.995	1.00	41.87	Al6s	ATOM	37547	O1P ADE	884	162.158	88.255	-22.534	1.00	45.14	Al6
ATOM	37495	N3 CYT	881	165.223	83.695	-35.214	1.00	41.87	Al6s	ATOM	37548	O2P ADE	884	163.444	87.229	-24.529	1.00	45.14	Al6
ATOM	37496	C4 CYT	881	166.522	83.886	-35.038	1.00	41.87	Al6s	ATOM	37549	O5' ADE	884	164.334	87.280	-23.275	1.00	50.56	Al6
ATOM	37497	N4 CYT	881	167.218	82.910	-34.470	1.00	41.87	Al6s	ATOM	37550	C5' ADE	884	164.546	86.915	-21.924	1.00	50.56	Al6
ATOM	37498	C5 CYT	881	167.170	85.083	-35.447	1.00	41.87	Al6s	ATOM	37551	C4' ADE	884	163.831	85.628	-21.630	1.00	50.56	Al6
ATOM	37499	C2' CYT	881	163.449	87.626	-35.906	1.00	45.49	Al6s	ATOM	37552	O1' ADE	884	164.192	84.632	-22.620	1.00	50.56	Al6
ATOM	37500	O2' CYT	881	162.189	87.934	-36.465	1.00	45.49	Al6s	ATOM	37553	C1' ADE	884	164.415	83.384	-21.982	1.00	50.56	Al6
ATOM	37501	C3' CYT	881	164.337	88.840	-35.696	1.00	45.49	Al6s	ATOM	37554	N9 ADE	884	165.847	83.111	-22.016	1.00	45.14	Al6
ATOM	37502	O3' CYT	881	163.571	89.952	-35.269	1.00	45.49	Al6s	ATOM	37555	C4 ADE	884	166.476	82.049	-21.419	1.00	45.14	Al6
ATOM	37503	P URI	882	163.646	90.420	-33.738	1.00	41.92	Al6s	ATOM	37556	N3 ADE	884	165.911	81.076	-20.691	1.00	45.14	Al6
ATOM	37504	O1P URI	882	162.914	91.708	-33.647	1.00	53.77	Al6s	ATOM	37557	C2 ADE	884	166.824	80.210	-20.279	1.00	45.14	Al6
ATOM	37505	O2P URI	882	165.061	90.358	-33.300	1.00	53.77	Al6s	ATOM	37558	N1 ADE	884	168.135	80.201	-20.496	1.00	45.14	Al6
ATOM	37506	O5' URI	882	162.834	89.297	-32.954	1.00	41.92	Al6s	ATOM	37559	C6 ADE	884	168.675	81.191	-21.233	1.00	45.14	Al6
ATOM	37507	C5' URI	882	161.446	89.151	-33.158	1.00	41.92	Al6s	ATOM	37560	N6 ADE	884	169.989	81.176	-21.451	1.00	45.14	Al6
ATOM	37508	C4' URI	882	160.988	87.812	-32.662	1.00	41.92	Al6s	ATOM	37561	C5 ADE	884	167.813	82.179	-21.728	1.00	45.14	Al6
ATOM	37509	O4' URI	882	161.697	86.761	-33.368	1.00	41.92	Al6s	ATOM	37562	N7 ADE	884	168.030	83.315	-22.498	1.00	45.14	Al6
ATOM	37510	C1' URI	882	161.802	85.626	-32.526	1.00	41.92	Al6s	ATOM	37563	C8 ADE	884	166.835	83.834	-22.637	1.00	45.14	Al6
ATOM	37511	N1 URI	882	163.219	85.310	-32.337	1.00	53.77	Al6s	ATOM	37564	C2' ADE	884	163.924	83.536	-20.548	1.00	50.56	Al6
ATOM	37512	C6 URI	882	164.194	86.268	-32.433	1.00	53.77	Al6s	ATOM	37565	O2' ADE	884	162.553	85.008	-20.503	1.00	50.56	Al6
ATOM	37513	C2 URI	882	163.528	84.010	-32.035	1.00	53.77	Al6s	ATOM	37566	C3' ADE	884	164.213	85.557	-19.264	1.00	50.56	Al6
ATOM	37514	O2 URI	882	162.692	83.133	-31.988	1.00	53.77	Al6s	ATOM	37567	O3' ADE	884	163.425	85.008	-20.303	1.00	50.56	Al6
ATOM	37515	N3 URI	882	164.852	83.768	-31.798	1.00	53.77	Al6s	ATOM	37568	P ADE	885	164.093	85.832	-17.838	1.00	53.52	Al6
ATOM	37516	C4 URI	882	165.880	84.675	-31.851	1.00	53.77	Al6s	ATOM	37569	O1P ADE	885	163.035	86.290	-16.907	1.00	53.51	Al6
ATOM	37517	O4 URI	882	167.007	84.317	-31.526	1.00	53.77	Al6s	ATOM	37570	O2P ADE	885	165.304	86.672	-17.335	1.00	53.52	Al6
ATOM	37518	C5 URI	882	165.485	86.003	-32.211	1.00	53.77	Al6s	ATOM	37571	O5' ADE	885	164.499	84.379	-18.048	1.00	53.52	Al6
ATOM	37519	C2' URI	882	161.153	85.998	-31.190	1.00	41.92	Al6s	ATOM	37572	C5' ADE	885	163.504	83.482	-16.879	1.00	53.52	Al6
ATOM	37520	O2' URI	882	159.799	85.590	-31.185	1.00	41.92	Al6s	ATOM	37573	C4' ADE	885	164.135	82.206	-16.397	1.00	53.52	Al6
ATOM	37521	C3' URI	882	161.292	87.510	-31.211	1.00	41.92	Al6s	ATOM	37574	O1' ADE	885	164.970	81.635	-17.479	1.00	53.52	Al6
ATOM	37522	O3' URI	882	160.332	88.119	-30.373	1.00	41.92	Al6s	ATOM	37575	C1' ADE	885	166.070	81.001	-16.957	1.00	53.52	Al6
ATOM	37523	P URI	883	160.817	89.055	-29.164	1.00	48.23	Al6s	ATOM	37576	N9 ADE	885	167.239	81.723	-17.452	1.00	53.51	Al6
ATOM	37524	O1P GUA	883	159.612	89.503	-28.426	1.00	46.66	Al6s	ATOM	37577	C4 ADE	885	168.550	81.313	-17.410	1.00	53.51	Al6
ATOM	37525	O2P GUA	883	161.746	90.070	-29.736	1.00	46.66	Al6s	ATOM	37578	N3 ADE	885	169.040	80.183	-16.872	1.00	53.51	Al6
ATOM	37526	O5' GUA	883	161.593	88.041	-28.213	1.00	48.23	Al6s	ATOM	37579	C2 ADE	885	170.356	80.107	-17.055	1.00	53.51	Al6
ATOM	37527	C5' GUA	883	160.897	86.960	-27.596	1.00	48.23	Al6s	ATOM	37580	N1 ADE	885	171.171	80.963	-17.670	1.00	53.51	Al6
ATOM	37528	C4' GUA	883	161.862	86.054	-26.865	1.00	48.23	Al6s	ATOM	37581	C6 ADE	885	170.644	82.088	-18.197	1.00	53.51	Al6
ATOM	37529	O4' GUA	883	162.704	85.353	-27.820	1.00	48.23	Al6s	ATOM	37582	N5 ADE	885	171.450	82.938	-18.829	1.00	53.51	Al6
ATOM	37530	C1' GUA	883	164.019	85.240	-27.298	1.00	48.23	Al6s	ATOM	37583	C6 ADE	885	169.269	82.293	-18.057	1.00	53.51	Al6
ATOM	37531	N9 GUA	883	164.896	86.087	-28.093	1.00	46.66	Al6s	ATOM	37584	N7 ADE	885	168.437	83.324	-18.463	1.00	53.51	Al6
ATOM	37532	C4 GUA	883	166.214	85.859	-28.361	1.00	46.66	Al6s	ATOM	37585	C8 ADE	885	167.248	82.940	-18.077	1.00	53.51	Al6
ATOM	37533	N3 GUA	883	166.923	84.788	-27.965	1.00	46.66	Al6s	ATOM	37586	C2' ADE	885	165.936	81.055	-15.439	1.00	53.52	Al6
ATOM	37534	C2 GUA	883	168.181	84.868	-28.350	1.00	46.66	Al6s	ATOM	37587	O2' ADE	885	165.164	79.954	-15.013	1.00	53.52	Al6
ATOM	37535	N2 GUA	883	169.042	83.890	-28.029	1.00	46.66	Al6s	ATOM	37588	C3' ADE	885	165.147	82.337	-15.274	1.00	53.52	Al6
ATOM	37536	N1 GUA	883	168.695	85.910	-29.072	1.00	46.66	Al6s	ATOM	37589	O3' ADE	885	164.513	82.328	-14.018	1.00	53.52	Al6
ATOM	37537	C6 GUA	883	167.981	87.020	-29.488	1.00	46.66	Al6s	ATOM	37590	P ADE	886	165.235	83.015	-12.768	1.00	50.79	Al6
ATOM	37538	O6 GUA	883	168.548	87.914	-30.126	1.00	46.66	Al6s	ATOM	37591	O1P ADE	886	164.207	83.005	-11.695	1.00	41.21	Al6
ATOM	37539	C5 GUA	883	166.635	86.950	-29.084	1.00	46.66	Al6s	ATOM	37592	O2P ADE	886	165.867	84.307	-13.188	1.00	41.21	Al6
ATOM	37540	N7 GUA	883	165.589	87.834	-29.292	1.00	46.66	Al6s	ATOM	37593	O5' ADE	886	166.367	81.982	-12.341	1.00	50.79	Al6
ATOM	37541	C8 GUA	883	164.578	87.278	-28.691	1.00	46.66	Al6s	ATOM	37594	C5' ADE	886	166.031	80.789	-11.648	1.00	50.79	Al6
ATOM	37542	C2' GUA	883	163.959	85.728	-25.853	1.00	48.23	Al6s	ATOM	37595	C4' ADE	886	167.238	79.895	-11.547	1.00	50.79	Al6

ATOM	37596	04' ADE	886	167.787	79.763	-12.879	1.00	50.79	Al65	ATOM	37649	02' URI	888	176.330	89.001	-8.506	1.00	44.19	Al
ATOM	37597	C1' ADE	886	169.200	79.748	-12.815	1.00	50.79	Al65	ATOM	37650	C3' URI	888	174.980	87.614	-7.032	1.00	44.19	Al
ATOM	37598	N9 ADE	886	169.695	80.921	-13.527	1.00	41.21	Al65	ATOM	37651	03' URI	888	175.818	88.058	-6.013	1.00	44.19	Al
ATOM	37599	C4 ADE	886	170.994	81.128	-13.894	1.00	41.21	Al65	ATOM	37652	P' CYT	889	175.205	89.058	-4.911	1.00	44.91	Al
ATOM	37600	N3 ADE	886	172.033	80.312	-13.672	1.00	41.21	Al65	ATOM	37653	01P CYT	889	176.034	88.932	-4.921	1.00	44.77	Al
ATOM	37601	C2 ADE	886	173.142	80.828	-14.183	1.00	41.21	Al65	ATOM	37654	02P CYT	889	173.743	88.790	-4.832	1.00	44.77	Al
ATOM	37602	N1 ADE	886	173.315	81.984	-14.837	1.00	41.21	Al65	ATOM	37655	05' CYT	889	175.422	90.507	-5.526	1.00	44.91	Al
ATOM	37603	C6 ADE	886	172.250	82.781	-15.034	1.00	41.21	Al65	ATOM	37656	C5' CYT	889	176.727	91.001	-5.752	1.00	44.91	Al
ATOM	37604	N6 ADE	886	172.429	83.928	-15.673	1.00	41.21	Al65	ATOM	37657	C4' CYT	889	176.664	92.303	-6.509	1.00	44.91	Al
ATOM	37605	C5 ADE	886	171.013	82.345	-14.586	1.00	41.21	Al65	ATOM	37658	04' CYT	889	176.056	92.060	-7.801	1.00	44.91	Al
ATOM	37606	N7 ADE	886	169.742	82.901	-14.546	1.00	41.21	Al65	ATOM	37659	C1' CYT	889	175.263	93.176	-8.175	1.00	44.91	Al
ATOM	37607	C8 ADE	886	168.999	82.019	-13.967	1.00	41.21	Al65	ATOM	37660	N1 CYT	889	173.866	92.739	-8.297	1.00	44.77	Al
ATOM	37608	C2' ADE	886	169.589	79.736	-11.336	1.00	50.79	Al65	ATOM	37661	C6 CYT	889	173.436	91.591	-7.697	1.00	44.77	Al
ATOM	37609	02' ADE	886	169.731	78.402	-10.892	1.00	50.79	Al65	ATOM	37662	C2 CYT	889	172.982	93.517	-9.048	1.00	44.77	Al
ATOM	37610	C3' ADE	886	168.391	80.433	-10.713	1.00	50.79	Al65	ATOM	37663	02 CYT	889	173.398	94.566	-9.556	1.00	44.77	Al
ATOM	37611	03' ADE	886	168.250	80.050	-9.354	1.00	50.79	Al65	ATOM	37664	N3 CYT	889	171.702	93.112	-9.199	1.00	44.77	Al
ATOM	37612	P' CYT	887	168.417	81.151	-8.198	1.00	42.44	Al65	ATOM	37665	C4 CYT	889	171.292	91.985	-8.618	1.00	44.77	Al
ATOM	37613	01P CYT	887	168.242	80.431	-6.909	1.00	47.34	Al65	ATOM	37666	N4 CYT	889	170.024	91.614	-8.796	1.00	44.77	Al
ATOM	37614	02P CYT	887	167.568	82.327	-8.512	1.00	47.34	Al65	ATOM	37667	C5 CYT	889	172.171	91.180	-7.827	1.00	44.77	Al
ATOM	37615	05' CYT	887	169.920	81.654	-8.319	1.00	42.44	Al65	ATOM	37668	C2' CYT	889	175.464	94.240	-7.104	1.00	44.91	Al
ATOM	37616	C5' CYT	887	171.013	80.765	-8.183	1.00	42.44	Al65	ATOM	37669	02' CYT	889	176.545	95.036	-5.895	1.00	44.91	Al
ATOM	37617	C4' CYT	887	172.228	81.374	-8.820	1.00	42.44	Al65	ATOM	37670	C3' CYT	889	175.794	93.385	-5.895	1.00	44.91	Al
ATOM	37618	04' CYT	887	171.948	81.588	-10.225	1.00	42.44	Al65	ATOM	37671	03' CYT	889	176.503	94.126	-4.917	1.00	44.91	Al
ATOM	37619	C1' CYT	887	172.684	82.704	-10.686	1.00	42.44	Al65	ATOM	37672	P' ADE	890	175.745	94.626	-3.598	1.00	48.80	Al
ATOM	37620	N1 CYT	887	171.753	83.632	-11.303	1.00	47.34	Al65	ATOM	37673	01P ADE	890	176.756	94.824	-2.562	1.00	36.71	Al
ATOM	37621	C6 CYT	887	170.402	83.469	-11.170	1.00	47.34	Al65	ATOM	37674	02P ADE	890	174.623	93.713	-3.331	1.00	36.71	Al
ATOM	37622	C2 CYT	887	172.268	84.706	-12.006	1.00	47.34	Al65	ATOM	37675	05' ADE	890	175.207	96.073	-3.990	1.00	48.80	Al
ATOM	37623	02 CYT	887	173.490	84.785	-12.152	1.00	47.34	Al65	ATOM	37676	C5' ADE	890	176.115	97.171	-4.165	1.00	48.80	Al
ATOM	37624	N3 CYT	887	171.424	85.636	-12.510	1.00	47.34	Al65	ATOM	37677	C4' ADE	890	175.410	98.357	-4.794	1.00	48.80	Al
ATOM	37625	C4 CYT	887	170.108	85.496	-12.343	1.00	47.34	Al65	ATOM	37678	04' ADE	890	174.710	97.864	-5.945	1.00	48.80	Al
ATOM	37626	N4 CYT	887	169.318	86.444	-12.816	1.00	47.34	Al65	ATOM	37679	C1' ADE	890	173.424	98.413	-5.990	1.00	48.80	Al
ATOM	37627	C5 CYT	887	169.549	84.373	-11.670	1.00	47.34	Al65	ATOM	37680	N9 ADE	890	172.459	97.328	-6.068	1.00	36.71	Al
ATOM	37628	C2' CYT	887	173.371	83.341	-9.477	1.00	42.44	Al65	ATOM	37681	C4 ADE	890	171.371	97.339	-6.896	1.00	36.71	Al
ATOM	37629	02' CYT	887	174.729	82.973	-9.414	1.00	42.44	Al65	ATOM	37682	N3 ADE	890	170.987	98.339	-7.705	1.00	36.71	Al
ATOM	37630	C3' CYT	887	172.564	82.766	-8.329	1.00	42.44	Al65	ATOM	37683	C2 ADE	890	169.911	97.991	-8.382	1.00	36.71	Al
ATOM	37631	03' CYT	887	173.335	82.722	-7.151	1.00	42.44	Al65	ATOM	37684	N1 ADE	890	169.223	96.843	-8.342	1.00	36.71	Al
ATOM	37632	P' URI	888	173.042	83.786	-5.993	1.00	44.19	Al65	ATOM	37685	C6 ADE	890	169.640	95.866	-7.507	1.00	36.71	Al
ATOM	37633	01P URI	888	173.684	83.305	-4.736	1.00	56.36	Al65	ATOM	37686	N6 ADE	890	168.948	94.730	-7.450	1.00	36.71	Al
ATOM	37634	02P URI	888	171.577	84.070	-6.021	1.00	56.36	Al65	ATOM	37687	C5 ADE	890	170.773	96.107	-6.746	1.00	36.71	Al
ATOM	37635	05' URI	888	173.771	85.109	-6.486	1.00	44.19	Al65	ATOM	37688	N7 ADE	890	171.460	95.333	-5.823	1.00	36.71	Al
ATOM	37636	C5' URI	888	175.138	85.094	-6.820	1.00	44.19	Al65	ATOM	37689	C8 ADE	890	172.449	99.428	-4.868	1.00	48.80	Al
ATOM	37637	C4' URI	888	175.476	86.316	-7.620	1.00	44.19	Al65	ATOM	37690	C2' ADE	890	173.249	99.413	-5.432	1.00	36.71	Al
ATOM	37638	04' URI	888	174.775	86.274	-8.886	1.00	44.19	Al65	ATOM	37691	02' ADE	890	173.352	100.705	-5.444	1.00	48.80	Al
ATOM	37639	C1' URI	888	174.560	87.599	-9.343	1.00	44.19	Al65	ATOM	37692	C3' ADE	890	174.380	99.067	-3.923	1.00	48.80	Al
ATOM	37640	N1 URI	888	173.132	87.774	-9.609	1.00	56.36	Al65	ATOM	37693	03' ADE	890	174.974	100.199	-3.260	1.00	48.80	Al
ATOM	37641	C6 URI	888	172.196	86.956	-9.047	1.00	56.36	Al65	ATOM	37694	P' ADE	891	175.254	101.594	-4.059	1.00	35.44	Al
ATOM	37642	C2 URI	888	172.775	88.798	-10.441	1.00	56.36	Al65	ATOM	37695	01P ADE	891	176.397	102.206	-3.328	1.00	45.31	Al
ATOM	37643	02 URI	888	173.591	89.533	-10.962	1.00	56.36	Al65	ATOM	37696	02P ADE	891	174.038	102.414	-4.288	1.00	45.31	Al
ATOM	37644	N3 URI	888	171.430	88.934	-10.642	1.00	56.36	Al65	ATOM	37697	C5' ADE	891	175.786	101.126	-5.475	1.00	35.44	Al
ATOM	37645	C4 URI	888	170.434	88.156	-10.102	1.00	56.36	Al65	ATOM	37698	05' ADE	891	175.582	101.883	-6.659	1.00	35.44	Al
ATOM	37646	04 URI	888	169.261	88.434	-10.329	1.00	56.36	Al65	ATOM	37699	C4' ADE	891	175.524	100.926	-7.825	1.00	35.44	Al
ATOM	37647	C5 URI	888	170.892	87.106	-9.261	1.00	56.36	Al65	ATOM	37700	04' ADE	891	174.247	100.251	-7.807	1.00	35.44	Al
ATOM	37648	C2' URI	888	175.028	88.537	-8.233	1.00	44.19	Al65	ATOM	37701	C1' ADE	891	173.856	99.941	-9.128	1.00	35.44	Al

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ATOM	37702	N9	ADE	891	172.594	100.625	-9.407	1.00	45.31	Al6s	ATOM	37755	N7	GUA	893	173.324	106.344	-13.256	1.00	43.80	Al6
ATOM	37703	C4	ADE	891	171.772	100.333	-10.462	1.00	45.31	Al6s	ATOM	37756	C8	GUA	893	173.498	105.581	-14.310	1.00	43.80	Al6
ATOM	37704	N3	ADE	891	171.960	99.390	-11.398	1.00	45.31	Al6s	ATOM	37757	C2'	GUA	893	173.037	106.331	-17.801	1.00	44.21	Al6
ATOM	37705	C2	ADE	891	170.965	99.398	-12.272	1.00	45.31	Al6s	ATOM	37758	O2'	GUA	893	172.351	106.065	-18.965	1.00	44.21	Al6
ATOM	37706	N1	ADE	891	169.887	100.177	-12.316	1.00	45.31	Al6s	ATOM	37759	C3'	GUA	893	174.531	105.846	-17.978	1.00	44.21	Al6
ATOM	37707	C6	ADE	891	169.887	101.117	-11.364	1.00	45.31	Al6s	ATOM	37760	O3'	GUA	893	175.017	106.178	-19.271	1.00	44.21	Al6
ATOM	37708	N6	ADE	891	168.654	101.899	-11.420	1.00	45.31	Al6s	ATOM	37761	P	GUA	894	175.548	107.671	-19.568	1.00	36.88	Al6
ATOM	37709	C5	ADE	891	170.716	101.213	-10.372	1.00	45.31	Al6s	ATOM	37762	O1P	GUA	894	176.075	107.720	-20.961	1.00	36.53	Al6
ATOM	37710	N7	ADE	891	170.863	102.046	-9.273	1.00	45.31	Al6s	ATOM	37763	O2P	GUA	894	176.403	108.128	-18.448	1.00	36.53	Al6
ATOM	37711	C8	ADE	891	174.998	101.655	-8.733	1.00	45.31	Al6s	ATOM	37764	O5'	GUA	894	174.230	108.573	-19.539	1.00	36.88	Al6
ATOM	37712	C2'	ADE	891	174.998	100.371	-10.054	1.00	35.44	Al6s	ATOM	37765	C5'	GUA	894	173.252	108.504	-20.589	1.00	36.88	Al6
ATOM	37713	O2'	ADE	891	175.882	99.282	-10.252	1.00	35.44	Al6s	ATOM	37766	C4'	GUA	894	172.319	109.691	-20.506	1.00	36.88	Al6
ATOM	37714	C3'	ADE	891	175.651	101.474	-9.233	1.00	35.44	Al6s	ATOM	37767	O4'	GUA	894	171.533	109.591	-19.295	1.00	36.88	Al6
ATOM	37715	O3'	ADE	891	177.026	101.554	-9.575	1.00	35.44	Al6s	ATOM	37768	C1'	GUA	894	171.393	110.869	-18.710	1.00	36.88	Al6
ATOM	37716	P	ADE	892	177.467	102.318	-10.909	1.00	38.25	Al6s	ATOM	37769	N9	GUA	894	172.099	110.745	-16.414	1.00	36.53	Al6
ATOM	37717	O1P	ADE	892	178.895	101.969	-11.127	1.00	45.85	Al6s	ATOM	37770	C4	GUA	894	171.971	111.745	-16.414	1.00	36.53	Al6
ATOM	37718	O2P	ADE	892	177.068	103.746	-10.780	1.00	45.85	Al6s	ATOM	37771	N3	GUA	894	171.160	112.827	-16.399	1.00	36.53	Al6
ATOM	37719	O5'	ADE	892	176.595	101.643	-12.064	1.00	38.25	Al6s	ATOM	37772	C2	GUA	894	171.259	113.496	-15.267	1.00	36.53	Al6
ATOM	37720	C5'	ADE	892	177.095	100.535	-12.808	1.00	38.25	Al6s	ATOM	37773	N2	GUA	894	170.552	114.603	-15.087	1.00	36.53	Al6
ATOM	37721	C4'	ADE	892	176.211	100.246	-13.541	1.00	38.25	Al6s	ATOM	37774	N1	GUA	894	172.072	113.130	-14.229	1.00	36.53	Al6
ATOM	37722	O4'	ADE	892	174.869	99.934	-13.541	1.00	38.25	Al6s	ATOM	37775	C6	GUA	894	172.918	112.023	-14.228	1.00	36.53	Al6
ATOM	37723	C1'	ADE	892	173.922	100.324	-14.525	1.00	38.25	Al6s	ATOM	37776	O6	GUA	894	173.639	111.784	-13.238	1.00	36.53	Al6
ATOM	37724	N9	ADE	892	173.065	101.362	-13.964	1.00	45.85	Al6s	ATOM	37777	C5	GUA	894	172.826	111.300	-15.438	1.00	36.53	Al6
ATOM	37725	C4	ADE	892	171.897	101.828	-14.516	1.00	45.85	Al6s	ATOM	37778	N7	GUA	894	173.475	110.145	-15.842	1.00	36.53	Al6
ATOM	37726	N3	ADE	892	171.287	101.387	-15.628	1.00	45.85	Al6s	ATOM	37779	C8	GUA	894	173.014	109.916	-17.035	1.00	36.53	Al6
ATOM	37727	C2	ADE	892	170.198	102.094	-15.871	1.00	45.85	Al6s	ATOM	37780	C2'	GUA	894	171.985	111.884	-19.678	1.00	36.88	Al6
ATOM	37728	N1	ADE	892	169.688	103.122	-15.192	1.00	45.85	Al6s	ATOM	37781	O2'	GUA	894	170.978	112.314	-20.551	1.00	36.88	Al6
ATOM	37729	C6	ADE	892	170.328	103.547	-14.088	1.00	45.85	Al6s	ATOM	37782	C3'	GUA	894	173.012	111.036	-20.400	1.00	36.88	Al6
ATOM	37730	N6	ADE	892	169.836	104.594	-13.426	1.00	45.85	Al6s	ATOM	37783	O3'	GUA	894	173.260	111.573	-21.679	1.00	36.88	Al6
ATOM	37731	C5	ADE	892	171.488	102.865	-13.707	1.00	45.85	Al6s	ATOM	37784	P	ADE	895	174.524	112.513	-21.887	1.00	35.43	Al6
ATOM	37732	N7	ADE	892	172.358	103.024	-12.636	1.00	45.85	Al6s	ATOM	37785	O1P	ADE	895	174.668	112.823	-23.327	1.00	32.45	Al6
ATOM	37733	C8	ADE	892	173.267	102.103	-12.832	1.00	45.85	Al6s	ATOM	37786	O2P	ADE	895	175.625	111.871	-21.151	1.00	32.45	Al6
ATOM	37734	C2'	ADE	892	174.718	100.904	-15.692	1.00	38.25	Al6s	ATOM	37787	O5'	ADE	895	174.129	113.849	-21.131	1.00	35.43	Al6
ATOM	37735	O2'	ADE	892	174.986	99.899	-16.639	1.00	38.25	Al6s	ATOM	37788	C5'	ADE	895	173.109	114.689	-21.658	1.00	35.43	Al6
ATOM	37736	C3'	ADE	892	175.963	101.382	-14.977	1.00	38.25	Al6s	ATOM	37789	C4'	ADE	895	172.781	115.779	-20.680	1.00	35.43	Al6
ATOM	37737	O3'	ADE	892	177.018	101.597	-15.885	1.00	38.25	Al6s	ATOM	37790	C1'	ADE	895	172.337	115.011	-18.363	1.00	35.43	Al6
ATOM	37738	P	GUA	893	177.591	103.086	-16.071	1.00	44.21	Al6s	ATOM	37791	C1'	ADE	895	172.688	116.011	-18.363	1.00	35.43	Al6
ATOM	37739	O1P	GUA	893	178.590	103.047	-17.162	1.00	43.80	Al6s	ATOM	37792	N9	ADE	895	173.500	115.235	-17.435	1.00	32.45	Al6
ATOM	37740	O2P	GUA	893	177.983	103.595	-14.728	1.00	43.80	Al6s	ATOM	37793	C4	ADE	895	173.743	115.550	-16.123	1.00	32.45	Al6
ATOM	37741	O5'	GUA	893	176.331	103.932	-16.562	1.00	44.21	Al6s	ATOM	37794	N3	ADE	895	173.295	116.615	-15.449	1.00	32.45	Al6
ATOM	37742	C5'	GUA	893	175.541	103.472	-17.642	1.00	44.21	Al6s	ATOM	37795	C2	ADE	895	173.728	116.589	-14.193	1.00	32.45	Al6
ATOM	37743	C4'	GUA	893	174.329	104.352	-17.845	1.00	44.21	Al6s	ATOM	37796	N1	ADE	895	174.494	115.690	-13.582	1.00	32.45	Al6
ATOM	37744	O4'	GUA	893	173.411	104.248	-16.724	1.00	44.21	Al6s	ATOM	37797	C6	ADE	895	174.926	114.628	-14.288	1.00	32.45	Al6
ATOM	37745	C1'	GUA	893	172.589	105.403	-16.692	1.00	44.21	Al6s	ATOM	37798	N6	ADE	895	175.688	113.726	-13.674	1.00	32.45	Al6
ATOM	37746	N9	GUA	893	172.664	105.998	-15.360	1.00	43.80	Al6s	ATOM	37799	C5	ADE	895	174.598	114.537	-15.632	1.00	32.45	Al6
ATOM	37747	C4	GUA	893	171.980	107.111	-14.918	1.00	43.80	Al6s	ATOM	37800	N7	ADE	895	174.798	113.598	-16.618	1.00	32.45	Al6
ATOM	37748	N3	GUA	893	171.092	107.832	-15.632	1.00	43.80	Al6s	ATOM	37801	C8	ADE	895	174.159	114.059	-17.666	1.00	32.45	Al6
ATOM	37749	C2	GUA	893	170.619	108.860	-14.943	1.00	43.80	Al6s	ATOM	37802	C2'	ADE	895	173.392	117.229	-18.950	1.00	35.43	Al6
ATOM	37750	N2	GUA	893	169.713	109.671	-15.499	1.00	43.80	Al6s	ATOM	37803	O2'	ADE	895	172.385	118.168	-19.238	1.00	35.43	Al6
ATOM	37751	N1	GUA	893	170.996	109.167	-13.665	1.00	43.80	Al6s	ATOM	37804	C3'	ADE	895	173.985	116.656	-20.244	1.00	35.43	Al6
ATOM	37752	C6	GUA	893	171.912	108.449	-12.914	1.00	43.80	Al6s	ATOM	37805	O3'	ADE	895	174.109	117.686	-21.207	1.00	35.43	Al6
ATOM	37753	O6	GUA	893	172.203	108.834	-11.778	1.00	43.80	Al6s	ATOM	37806	P	ADE	896	175.491	118.502	-21.283	1.00	40.97	Al6
ATOM	37754	C5	GUA	893	172.413	107.321	-13.632	1.00	43.80	Al6s	ATOM	37807	O1P	ADE	896	175.313	119.527	-22.345	1.00	37.85	Al6

ATOM	37808	O2P	ADE	896	176.592	117.516	-21.371	1.00	37.85	AlES	ATOM	37861	C4	URI	898	183.671	119.700	-12.736	1.00	36.69	Al
ATOM	37809	O5'	ADE	896	175.621	119.235	-19.875	1.00	40.97	AlES	ATOM	37862	O4	URI	898	183.835	118.867	-13.625	1.00	36.69	Al
ATOM	37810	C5'	ADE	896	175.068	120.528	-19.676	1.00	40.97	AlES	ATOM	37863	C5	URI	898	183.230	121.050	-12.927	1.00	36.69	Al
ATOM	37811	C4'	ADE	896	175.028	120.850	-18.207	1.00	40.97	AlES	ATOM	37864	C2'	URI	898	185.214	123.256	-9.651	1.00	37.61	Al
ATOM	37812	O4'	ADE	896	174.517	119.684	-17.520	1.00	40.97	AlES	ATOM	37865	O2'	URI	898	185.681	123.541	-8.346	1.00	37.61	Al
ATOM	37813	C1'	ADE	896	175.173	119.541	-16.272	1.00	40.97	AlES	ATOM	37866	C3'	URI	898	184.878	124.479	-10.489	1.00	37.61	Al
ATOM	37814	N9	ADE	896	175.974	118.331	-16.352	1.00	37.85	AlES	ATOM	37867	O3'	URI	898	185.788	125.532	-10.255	1.00	37.61	Al
ATOM	37815	C4	ADE	896	176.585	117.696	-15.306	1.00	37.85	AlES	ATOM	37868	P	GUA	899	186.949	125.792	-11.326	1.00	44.50	Al
ATOM	37816	N3	ADE	896	176.553	118.046	-14.018	1.00	37.85	AlES	ATOM	37869	O1P	GUA	899	187.624	127.070	-10.961	1.00	39.59	Al
ATOM	37817	C2	ADE	896	177.262	117.197	-13.288	1.00	37.85	AlES	ATOM	37870	O2P	GUA	899	186.298	125.672	-12.662	1.00	39.59	Al
ATOM	37818	N1	ADE	896	177.943	116.126	-13.673	1.00	37.85	AlES	ATOM	37871	O5'	GUA	899	187.936	124.544	-11.095	1.00	44.50	Al
ATOM	37819	C6	ADE	896	177.947	115.804	-14.977	1.00	37.85	AlES	ATOM	37872	C5'	GUA	899	188.724	124.460	-9.908	1.00	44.50	Al
ATOM	37820	N6	ADE	896	178.618	114.728	-15.366	1.00	37.85	AlES	ATOM	37873	C4'	GUA	899	189.170	123.037	-9.621	1.00	44.50	Al
ATOM	37821	C5	ADE	896	177.238	116.620	-15.851	1.00	37.85	AlES	ATOM	37874	O4'	GUA	899	188.072	122.113	-9.800	1.00	44.50	Al
ATOM	37822	N7	ADE	896	177.039	116.568	-17.223	1.00	37.85	AlES	ATOM	37875	C1'	GUA	899	188.585	120.819	-10.093	1.00	44.50	Al
ATOM	37823	C8	ADE	896	176.280	117.604	-17.467	1.00	37.85	AlES	ATOM	37876	N9	GUA	899	188.025	120.373	-11.369	1.00	39.59	Al
ATOM	37824	C2'	ADE	896	176.055	120.771	-16.090	1.00	40.97	AlES	ATOM	37877	C4	GUA	899	188.098	119.111	-11.894	1.00	39.59	Al
ATOM	37825	O2'	ADE	896	175.325	121.799	-15.452	1.00	40.97	AlES	ATOM	37878	N3	GUA	899	188.698	118.061	-11.321	1.00	39.59	Al
ATOM	37826	C3'	ADE	896	176.361	121.114	-17.533	1.00	40.97	AlES	ATOM	37879	C2	GUA	899	188.609	116.979	-12.063	1.00	39.59	Al
ATOM	37827	O3'	ADE	896	176.711	122.482	-17.628	1.00	40.97	AlES	ATOM	37880	N2	GUA	899	189.169	115.844	-11.642	1.00	39.59	Al
ATOM	37828	P	URI	897	178.226	122.922	-17.340	1.00	41.96	AlES	ATOM	37881	N1	GUA	899	187.968	116.929	-13.273	1.00	39.59	Al
ATOM	37829	O1P	URI	897	178.376	124.345	-17.729	1.00	37.36	AlES	ATOM	37882	C6	GUA	899	187.342	118.008	-13.885	1.00	39.59	Al
ATOM	37830	O2P	URI	897	179.070	121.883	-17.983	1.00	37.36	AlES	ATOM	37883	O6	GUA	899	186.792	117.865	-14.992	1.00	39.59	Al
ATOM	37831	O5'	URI	897	178.395	122.764	-15.763	1.00	41.96	AlES	ATOM	37884	C5	GUA	899	187.441	119.145	-13.039	1.00	39.59	Al
ATOM	37832	C5'	URI	897	177.712	123.629	-14.870	1.00	41.96	AlES	ATOM	37885	N7	GUA	899	186.965	120.456	-13.336	1.00	39.59	Al
ATOM	37833	C4'	URI	897	178.284	123.494	-13.488	1.00	41.96	AlES	ATOM	37886	C8	GUA	899	187.330	121.132	-12.284	1.00	39.59	Al
ATOM	37834	O4'	URI	897	178.025	122.160	-12.986	1.00	41.96	AlES	ATOM	37887	C2'	GUA	899	190.109	120.949	-10.121	1.00	44.50	Al
ATOM	37835	C1'	URI	897	179.108	121.736	-12.180	1.00	41.96	AlES	ATOM	37888	O2'	GUA	899	190.608	120.653	-8.841	1.00	44.50	Al
ATOM	37836	N1	URI	897	179.627	120.474	-12.730	1.00	37.36	AlES	ATOM	37889	C3'	GUA	899	191.535	122.852	-9.916	1.00	44.50	Al
ATOM	37837	C6	URI	897	179.420	120.135	-14.042	1.00	37.36	AlES	ATOM	37890	O3'	GUA	899	192.805	123.074	-10.886	1.00	44.85	Al
ATOM	37838	C2	URI	897	180.333	119.634	-11.880	1.00	37.36	AlES	ATOM	37891	P	ADE	900	192.805	123.074	-10.886	1.00	44.85	Al
ATOM	37839	O2	URI	897	180.582	119.909	-10.717	1.00	37.36	AlES	ATOM	37892	O1P	ADE	900	192.402	123.720	-12.152	1.00	41.26	Al
ATOM	37840	N3	URI	897	180.754	118.463	-12.443	1.00	37.36	AlES	ATOM	37893	O5'	ADE	900	193.302	121.590	-11.130	1.00	44.85	Al
ATOM	37841	C4	URI	897	180.568	118.058	-13.738	1.00	37.36	AlES	ATOM	37894	C4'	ADE	900	193.771	120.816	-10.036	1.00	44.85	Al
ATOM	37842	O4	URI	897	179.934	116.927	-14.069	1.00	37.36	AlES	ATOM	37895	C5'	ADE	900	193.907	119.380	-10.452	1.00	44.85	Al
ATOM	37843	C5	URI	897	179.862	118.992	-14.562	1.00	37.36	AlES	ATOM	37896	C1'	ADE	900	192.587	118.813	-10.652	1.00	44.85	Al
ATOM	37844	C2'	URI	897	180.129	122.878	-12.152	1.00	41.96	AlES	ATOM	37897	O4'	ADE	900	192.590	117.991	-11.803	1.00	44.85	Al
ATOM	37845	O2'	URI	897	179.922	123.728	-11.047	1.00	41.96	AlES	ATOM	37898	C1'	ADE	900	191.829	118.696	-12.832	1.00	41.26	Al
ATOM	37846	C3'	URI	897	179.789	123.621	-13.428	1.00	41.96	AlES	ATOM	37899	N9	ADE	900	191.829	118.696	-12.832	1.00	41.26	Al
ATOM	37847	O3'	URI	897	180.163	124.977	-13.291	1.00	41.96	AlES	ATOM	37900	C4	ADE	900	191.135	118.141	-13.884	1.00	41.26	Al
ATOM	37848	P	URI	898	181.697	125.391	-13.506	1.00	37.61	AlES	ATOM	37901	N3	ADE	900	191.000	116.845	-14.181	1.00	41.26	Al
ATOM	37849	O1P	URI	898	181.750	126.866	-13.500	1.00	36.69	AlES	ATOM	37902	C2	ADE	900	190.242	116.685	-15.265	1.00	41.26	Al
ATOM	37850	O2P	URI	898	182.162	124.653	-14.710	1.00	36.69	AlES	ATOM	37903	N1	ADE	900	189.650	117.620	-16.032	1.00	41.26	Al
ATOM	37851	O5'	URI	898	182.636	125.593	-12.220	1.00	37.61	AlES	ATOM	37904	C6	ADE	900	189.816	118.917	-15.705	1.00	41.26	Al
ATOM	37852	C5'	URI	898	182.656	125.593	-11.040	1.00	37.61	AlES	ATOM	37905	N6	ADE	900	189.240	119.213	-14.575	1.00	41.26	Al
ATOM	37853	C4'	URI	898	183.481	124.833	-10.036	1.00	37.61	AlES	ATOM	37906	C5	ADE	900	190.591	119.213	-14.575	1.00	41.26	Al
ATOM	37854	O4'	URI	898	182.875	123.535	-9.815	1.00	37.61	AlES	ATOM	37907	N7	ADE	900	190.931	120.415	-13.969	1.00	41.26	Al
ATOM	37855	C1'	URI	898	183.867	122.551	-9.601	1.00	36.69	AlES	ATOM	37908	C8	ADE	900	191.664	120.054	-12.945	1.00	41.26	Al
ATOM	37856	N1	URI	898	183.757	121.563	-10.678	1.00	36.69	AlES	ATOM	37909	C2'	ADE	900	194.061	117.780	-12.182	1.00	44.85	Al
ATOM	37857	C6	URI	898	183.287	121.913	-11.920	1.00	36.69	AlES	ATOM	37910	O2'	ADE	900	194.647	116.795	-11.388	1.00	44.85	Al
ATOM	37858	C2	URI	898	184.161	120.275	-10.404	1.00	36.69	AlES	ATOM	37911	C3'	ADE	900	194.610	119.163	-11.782	1.00	44.85	Al
ATOM	37859	O2	URI	898	184.546	119.933	-9.307	1.00	36.69	AlES	ATOM	37912	O3'	ADE	900	196.018	119.133	-11.618	1.00	44.85	Al
ATOM	37860	N3	URI	898	184.093	119.409	-11.461	1.00	36.69	AlES	ATOM	37913	P	CYT	901	196.962	119.663	-12.800	1.00	53.80	Al

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ATOM	37914	O1P	CYT	901	198.345	119.610	-12.262	1.00	40.98	A16S	ATOM	37967	C2	GUA	903	202.614	108.593	-25.454	1.00	33.98	A16
ATOM	37915	O2P	CYT	901	196.423	120.948	-13.327	1.00	40.98	A16S	ATOM	37968	N2	GUA	903	203.160	107.639	-26.225	1.00	33.98	A16
ATOM	37916	O5'	CYT	901	196.784	118.546	-13.918	1.00	53.80	A16S	ATOM	37969	N1	GUA	903	202.266	108.204	-24.191	1.00	33.98	A16
ATOM	37917	C5'	CYT	901	197.182	117.206	-13.664	1.00	53.80	A16S	ATOM	37970	C6	GUA	903	201.694	109.028	-23.239	1.00	33.98	A16
ATOM	37918	C4'	CYT	901	196.693	116.300	-14.761	1.00	53.80	A16S	ATOM	37971	O6	GUA	903	201.406	108.567	-22.128	1.00	33.98	A16
ATOM	37919	O4'	CYT	901	195.241	116.302	-14.772	1.00	53.80	A16S	ATOM	37972	C5	GUA	903	201.517	110.352	-23.727	1.00	33.98	A16
ATOM	37920	C1'	CYT	901	194.779	116.105	-16.100	1.00	53.80	A16S	ATOM	37973	N7	GUA	903	200.995	111.417	-23.104	1.00	33.98	A16
ATOM	37921	N1	CYT	901	194.028	117.297	-16.517	1.00	40.98	A16S	ATOM	37974	C8	GUA	903	201.091	112.421	-24.004	1.00	33.98	A16
ATOM	37922	C6	CYT	901	194.288	118.518	-15.969	1.00	40.98	A16S	ATOM	37975	C2'	GUA	903	200.762	112.934	-27.311	1.00	70.62	A16
ATOM	37923	C2	CYT	901	193.056	117.162	-17.493	1.00	40.98	A16S	ATOM	37976	O2'	GUA	903	201.238	113.057	-28.635	1.00	70.62	A16
ATOM	37924	O2	CYT	901	192.822	116.037	-17.942	1.00	40.98	A16S	ATOM	37977	C3'	GUA	903	200.151	114.232	-26.829	1.00	70.62	A16
ATOM	37925	N3	CYT	901	192.390	118.254	-17.920	1.00	40.98	A16S	ATOM	37978	O3'	GUA	903	199.448	114.835	-27.899	1.00	70.62	A16
ATOM	37926	C4	CYT	901	192.661	119.441	-17.393	1.00	40.98	A16S	ATOM	37979	P	GUA	904	197.990	115.417	-27.645	1.00	55.00	A16
ATOM	37927	N4	CYT	901	191.995	120.493	-17.851	1.00	40.98	A16S	ATOM	37980	O1P	GUA	904	197.333	114.469	-26.714	1.00	57.30	A16
ATOM	37928	C5	CYT	901	193.632	119.605	-16.376	1.00	40.98	A16S	ATOM	37981	O2P	GUA	904	197.354	115.722	-28.950	1.00	57.30	A16
ATOM	37929	C2'	CYT	901	196.023	115.892	-16.959	1.00	53.80	A16S	ATOM	37982	O5'	GUA	904	198.304	116.795	-26.910	1.00	55.00	A16
ATOM	37930	O2'	CYT	901	196.353	114.518	-16.939	1.00	53.80	A16S	ATOM	37983	C5'	GUA	904	197.288	117.495	-26.222	1.00	55.00	A16
ATOM	37931	C3'	CYT	901	197.043	116.638	-16.183	1.00	53.80	A16S	ATOM	37984	C4'	GUA	904	196.439	118.284	-27.188	1.00	55.00	A16
ATOM	37932	O3'	CYT	901	198.355	116.283	-16.507	1.00	53.80	A16S	ATOM	37985	O4'	GUA	904	195.106	118.330	-26.627	1.00	55.00	A16
ATOM	37933	P	GUA	902	199.143	116.930	-17.715	1.00	52.05	A16S	ATOM	37986	C1'	GUA	904	194.538	119.630	-26.848	1.00	55.00	A16
ATOM	37934	O1P	GUA	902	200.495	116.350	-17.657	1.00	52.85	A16S	ATOM	37987	N9	GUA	904	194.448	120.286	-25.569	1.00	57.30	A16
ATOM	37935	O2P	GUA	902	198.994	118.462	-17.690	1.00	52.85	A16S	ATOM	37988	C4	GUA	904	193.701	121.387	-25.326	1.00	57.30	A16
ATOM	37936	O5'	GUA	902	198.394	116.449	-19.008	1.00	52.05	A16S	ATOM	37989	N3	GUA	904	192.897	121.994	-26.216	1.00	57.30	A16
ATOM	37937	C5'	GUA	902	198.372	115.052	-19.315	1.00	52.05	A16S	ATOM	37990	C2	GUA	904	191.426	123.064	-25.713	1.00	57.30	A16
ATOM	37938	C4'	GUA	902	197.777	114.852	-20.678	1.00	52.05	A16S	ATOM	37991	N2	GUA	904	192.398	123.785	-26.476	1.00	57.30	A16
ATOM	37939	O4'	GUA	902	196.342	115.032	-20.630	1.00	52.05	A16S	ATOM	37992	N1	GUA	904	192.524	123.510	-24.426	1.00	57.30	A16
ATOM	37940	C1'	GUA	902	195.927	115.773	-21.777	1.00	52.05	A16S	ATOM	37993	C6	GUA	904	193.346	122.899	-23.488	1.00	57.30	A16
ATOM	37941	N9	GUA	902	195.284	117.009	-21.335	1.00	52.85	A16S	ATOM	37994	O6	GUA	904	193.455	123.385	-22.355	1.00	57.30	A16
ATOM	37942	C4	GUA	902	194.267	117.672	-21.978	1.00	52.85	A16S	ATOM	37995	C5	GUA	904	193.931	121.736	-24.025	1.00	57.30	A16
ATOM	37943	N3	GUA	902	193.701	117.310	-23.145	1.00	52.85	A16S	ATOM	37996	N7	GUA	904	194.859	120.037	-23.450	1.00	57.30	A16
ATOM	37944	C2	GUA	902	192.737	118.139	-23.501	1.00	52.85	A16S	ATOM	37997	C8	GUA	904	195.109	119.989	-24.405	1.00	57.30	A16
ATOM	37945	N2	GUA	902	192.061	117.929	-24.639	1.00	52.85	A16S	ATOM	37998	O2'	GUA	904	195.476	120.371	-27.775	1.00	55.00	A16
ATOM	37946	N1	GUA	902	192.359	119.233	-22.771	1.00	52.85	A16S	ATOM	37999	O2'	GUA	904	195.068	120.194	-29.110	1.00	55.00	A16
ATOM	37947	C6	GUA	902	192.919	119.621	-21.568	1.00	52.85	A16S	ATOM	38000	C3'	GUA	904	196.815	119.741	-27.418	1.00	55.00	A16
ATOM	37948	O6	GUA	902	192.484	120.615	-20.988	1.00	52.85	A16S	ATOM	38001	O3'	GUA	904	197.745	119.930	-28.467	1.00	55.00	A16
ATOM	37949	C5	GUA	902	193.963	118.768	-20.052	1.00	52.85	A16S	ATOM	38002	P	GUA	905	198.593	121.300	-28.541	1.00	48.49	A16
ATOM	37950	N7	GUA	902	194.783	118.768	-20.052	1.00	52.85	A16S	ATOM	38003	O1P	GUA	905	199.391	121.240	-29.776	1.00	55.77	A16
ATOM	37951	C8	GUA	902	195.551	117.723	-20.194	1.00	52.85	A16S	ATOM	38004	O2P	GUA	905	199.278	121.499	-27.228	1.00	55.77	A16
ATOM	37952	C2'	GUA	902	197.148	115.962	-22.684	1.00	52.05	A16S	ATOM	38005	O5'	GUA	905	197.519	122.453	-28.764	1.00	48.49	A16
ATOM	37953	O2'	GUA	902	197.185	114.938	-23.656	1.00	52.05	A16S	ATOM	38006	C5'	GUA	905	196.981	122.702	-30.052	1.00	48.49	A16
ATOM	37954	C3'	GUA	902	198.292	115.863	-21.683	1.00	52.05	A16S	ATOM	38007	C4'	GUA	905	196.107	123.939	-30.033	1.00	48.49	A16
ATOM	37955	O3'	GUA	902	199.474	115.345	-22.265	1.00	52.05	A16S	ATOM	38008	O4'	GUA	905	195.038	123.756	-29.068	1.00	48.49	A16
ATOM	37956	P	GUA	903	200.570	116.339	-22.881	1.00	70.62	A16S	ATOM	38009	C1'	GUA	905	194.720	124.999	-28.458	1.00	48.49	A16
ATOM	37957	O1P	GUA	903	201.697	117.363	-23.920	1.00	33.98	A16S	ATOM	38010	N9	GUA	905	195.031	124.901	-27.038	1.00	55.77	A16
ATOM	37958	O2P	GUA	903	201.930	117.616	-23.287	1.00	33.98	A16S	ATOM	38011	C4	GUA	905	194.732	125.828	-26.071	1.00	55.77	A16
ATOM	37959	O5'	GUA	903	201.067	115.535	-24.163	1.00	70.62	A16S	ATOM	38012	N3	GUA	905	194.070	126.988	-26.262	1.00	55.77	A16
ATOM	37960	C5'	GUA	903	201.166	116.139	-25.447	1.00	70.62	A16S	ATOM	38013	C2	GUA	905	193.954	127.685	-25.141	1.00	55.77	A16
ATOM	37961	O4'	GUA	903	201.377	115.064	-26.487	1.00	70.62	A16S	ATOM	38014	N2	GUA	905	193.314	128.863	-25.151	1.00	55.77	A16
ATOM	37962	O4'	GUA	903	201.298	114.088	-25.929	1.00	70.62	A16S	ATOM	38015	N1	GUA	905	194.454	127.277	-23.928	1.00	55.77	A16
ATOM	37963	C1'	GUA	903	201.942	112.787	-26.357	1.00	70.62	A16S	ATOM	38016	C6	GUA	905	195.135	126.086	-23.705	1.00	55.77	A16
ATOM	37964	N9	GUA	903	201.648	111.966	-25.177	1.00	33.98	A16S	ATOM	38017	O6	GUA	905	195.548	125.818	-22.571	1.00	55.77	A16
ATOM	37965	C4	GUA	903	201.905	110.643	-25.012	1.00	33.98	A16S	ATOM	38018	C5	GUA	905	195.259	125.322	-24.905	1.00	55.77	A16
ATOM	37966	N3	GUA	903	202.447	109.821	-25.928	1.00	33.98	A16S	ATOM	38019	N7	GUA	905	195.858	124.090	-25.131	1.00	55.77	A16

ATOM	38020	C8	GUA	905	195.696	123.881	-26.407	1.00	55.77	Al6S	ATOM	38073	C4'	CYT	908	202.648	136.386	-22.455	1.00	63.81
ATOM	38021	C2'	GUA	905	195.572	126.058	-29.149	1.00	48.49	Al6S	ATOM	38074	C4'	CYT	908	201.998	135.161	-22.038	1.00	63.81
ATOM	38022	O2'	GUA	905	194.878	126.607	-30.249	1.00	48.49	Al6S	ATOM	38075	C1'	CYT	908	202.699	134.656	-20.921	1.00	63.81
ATOM	38023	C3'	GUA	905	196.766	125.228	-29.580	1.00	48.49	Al6S	ATOM	38076	N1	CYT	908	202.927	133.219	-21.058	1.00	34.92
ATOM	38024	O3'	GUA	905	197.464	125.872	-30.625	1.00	48.49	Al6S	ATOM	38077	C6	CYT	908	202.974	132.590	-22.270	1.00	34.92
ATOM	38025	P	GUA	906	198.673	126.853	-30.258	1.00	53.72	Al6S	ATOM	38078	C2	CYT	908	203.134	132.507	-19.899	1.00	34.92
ATOM	38026	O1P	GUA	906	199.296	127.255	-31.537	1.00	49.53	Al6S	ATOM	38079	O2	CYT	908	203.025	133.094	-18.833	1.00	34.92
ATOM	38027	O2P	GUA	906	199.498	126.227	-29.197	1.00	49.53	Al6S	ATOM	38080	N3	CYT	908	203.434	131.197	-19.957	1.00	34.92
ATOM	38028	O5'	GUA	906	197.955	128.128	-29.653	1.00	53.72	Al6S	ATOM	38081	C4	CYT	908	203.489	130.591	-21.128	1.00	34.92
ATOM	38029	C5'	GUA	906	197.038	128.854	-30.442	1.00	53.72	Al6S	ATOM	38082	N4	CYT	908	203.770	129.306	-21.124	1.00	34.92
ATOM	38030	C4'	GUA	906	196.481	129.997	-29.652	1.00	53.72	Al6S	ATOM	38083	C5	CYT	908	203.250	131.283	-22.350	1.00	34.92
ATOM	38031	O4'	GUA	906	195.688	129.489	-28.555	1.00	53.72	Al6S	ATOM	38084	C2'	CYT	908	204.026	135.408	-20.854	1.00	63.81
ATOM	38032	C1'	GUA	906	195.757	130.402	-27.467	1.00	53.72	Al6S	ATOM	38085	O2'	CYT	908	203.933	136.381	-19.837	1.00	63.81
ATOM	38033	N9	GUA	906	196.344	129.713	-26.330	1.00	49.53	Al6S	ATOM	38086	C3'	CYT	908	204.099	136.019	-22.248	1.00	63.81
ATOM	38034	C4	GUA	906	196.320	130.147	-25.027	1.00	49.53	Al6S	ATOM	38087	O3'	CYT	908	204.943	137.161	-22.263	1.00	63.81
ATOM	38035	N3	GUA	906	195.750	131.288	-24.584	1.00	49.53	Al6S	ATOM	38088	P	CYT	909	206.498	137.008	-21.874	1.00	44.69
ATOM	38036	C2	GUA	906	195.874	131.422	-23.280	1.00	49.53	Al6S	ATOM	38089	O1P	CYT	909	207.226	138.181	-22.408	1.00	40.20
ATOM	38037	N2	GUA	906	195.345	132.481	-22.667	1.00	49.53	Al6S	ATOM	38090	O2P	CYT	909	206.952	135.630	-22.230	1.00	40.20
ATOM	38038	N1	GUA	906	196.517	130.524	-22.477	1.00	49.53	Al6S	ATOM	38091	O5'	CYT	909	206.485	137.151	-20.288	1.00	44.69
ATOM	38039	C6	GUA	906	197.114	129.349	-22.905	1.00	49.53	Al6S	ATOM	38092	C5'	CYT	909	207.624	136.620	-19.530	1.00	44.69
ATOM	38040	O6	GUA	906	197.665	128.607	-22.086	1.00	49.53	Al6S	ATOM	38093	C4'	CYT	909	207.228	136.429	-18.134	1.00	44.69
ATOM	38041	C5	GUA	906	196.983	129.180	-24.306	1.00	49.53	Al6S	ATOM	38094	O4'	CYT	909	206.218	135.386	-18.149	1.00	44.69
ATOM	38042	N7	GUA	906	197.430	128.161	-25.141	1.00	49.53	Al6S	ATOM	38095	C1'	CYT	909	206.528	134.406	-17.174	1.00	44.69
ATOM	38043	C8	GUA	906	197.026	128.521	-26.332	1.00	49.53	Al6S	ATOM	38096	N1	CYT	909	206.731	133.141	-17.878	1.00	40.20
ATOM	38044	O2'	GUA	906	196.656	131.550	-27.918	1.00	53.72	Al6S	ATOM	38097	C6	CYT	909	206.622	133.084	-19.236	1.00	40.20
ATOM	38045	C2'	GUA	906	195.852	132.575	-28.509	1.00	53.72	Al6S	ATOM	38098	C2	CYT	909	207.042	131.982	-17.140	1.00	40.20
ATOM	38046	C3'	GUA	906	197.514	130.834	-28.939	1.00	53.72	Al6S	ATOM	38099	O2	CYT	909	207.150	132.066	-15.917	1.00	40.20
ATOM	38047	O3'	GUA	906	198.148	131.737	-29.802	1.00	60.89	Al6S	ATOM	38100	N3	CYT	909	207.221	130.808	-17.793	1.00	40.20
ATOM	38048	P	CYT	907	199.649	132.166	-29.490	1.00	50.14	Al6S	ATOM	38101	C4	CYT	909	207.104	130.769	-19.122	1.00	40.20
ATOM	38049	O1P	CYT	907	200.075	133.024	-30.626	1.00	50.14	Al6S	ATOM	38102	N4	CYT	909	207.272	129.606	-19.725	1.00	40.20
ATOM	38050	O2P	CYT	907	200.441	130.954	-29.127	1.00	50.14	Al6S	ATOM	38103	C5	CYT	909	206.803	131.933	-19.893	1.00	40.20
ATOM	38051	O5'	CYT	907	199.519	133.046	-28.177	1.00	60.89	Al6S	ATOM	38104	C2'	CYT	909	207.764	134.882	-16.398	1.00	44.69
ATOM	38052	C5'	CYT	907	198.752	134.227	-28.188	1.00	60.89	Al6S	ATOM	38105	O2'	CYT	909	207.386	135.512	-15.194	1.00	44.69
ATOM	38053	C4'	CYT	907	198.648	134.786	-26.799	1.00	60.89	Al6S	ATOM	38106	C3'	CYT	909	208.408	135.835	-17.398	1.00	44.69
ATOM	38054	O4'	CYT	907	197.976	133.832	-25.933	1.00	60.89	Al6S	ATOM	38107	O3'	CYT	909	209.164	136.893	-16.828	1.00	44.69
ATOM	38055	C1'	CYT	907	198.386	134.057	-24.595	1.00	60.89	Al6S	ATOM	38108	P	GUA	910	210.725	137.018	-17.172	1.00	49.74
ATOM	38056	N1	CYT	907	198.952	132.829	-24.049	1.00	50.14	Al6S	ATOM	38109	O1P	GUA	910	211.187	138.349	-16.718	1.00	34.62
ATOM	38057	C6	CYT	907	199.260	131.764	-24.845	1.00	50.14	Al6S	ATOM	38110	O2P	GUA	910	210.957	136.619	-18.591	1.00	34.62
ATOM	38058	C2	CYT	907	199.182	132.776	-22.684	1.00	50.14	Al6S	ATOM	38111	O5'	GUA	910	211.356	135.926	-16.203	1.00	49.74
ATOM	38059	O2	CYT	907	198.903	133.770	-21.999	1.00	50.14	Al6S	ATOM	38112	C5'	GUA	910	211.176	136.034	-14.807	1.00	49.74
ATOM	38060	N3	CYT	907	199.709	131.656	-22.142	1.00	50.14	Al6S	ATOM	38113	C4'	GUA	910	211.527	134.737	-14.130	1.00	49.74
ATOM	38061	C4	CYT	907	200.019	130.626	-22.923	1.00	50.14	Al6S	ATOM	38114	O4'	GUA	910	210.613	133.708	-14.564	1.00	49.74
ATOM	38062	N4	CYT	907	200.554	129.563	-22.353	1.00	50.14	Al6S	ATOM	38115	C1'	GUA	910	211.247	132.447	-14.476	1.00	49.74
ATOM	38063	C5	CYT	907	199.796	130.651	-24.327	1.00	50.14	Al6S	ATOM	38116	N9	GUA	910	211.016	131.731	-15.734	1.00	34.62
ATOM	38064	C2'	CYT	907	199.457	135.140	-24.638	1.00	60.89	Al6S	ATOM	38117	C4	GUA	910	211.010	130.376	-15.889	1.00	34.62
ATOM	38065	O2'	CYT	907	198.846	136.392	-24.422	1.00	60.89	Al6S	ATOM	38118	N3	GUA	910	211.155	129.471	-14.906	1.00	34.62
ATOM	38066	C3'	CYT	907	199.953	134.999	-26.064	1.00	60.89	Al6S	ATOM	38119	C2	GUA	910	211.093	128.230	-15.364	1.00	34.62
ATOM	38067	O3'	CYT	907	200.614	136.174	-26.477	1.00	60.89	Al6S	ATOM	38120	N2	GUA	910	211.246	127.196	-14.522	1.00	34.62
ATOM	38068	P	CYT	908	202.214	136.259	-26.352	1.00	63.81	Al6S	ATOM	38121	N1	GUA	910	210.883	127.907	-16.683	1.00	34.62
ATOM	38069	O1P	CYT	908	202.567	137.682	-26.635	1.00	34.92	Al6S	ATOM	38122	C6	GUA	910	210.718	128.827	-17.714	1.00	34.62
ATOM	38070	O2P	CYT	908	202.830	135.177	-27.164	1.00	34.92	Al6S	ATOM	38123	O6	GUA	910	210.523	128.430	-18.870	1.00	34.62
ATOM	38071	O5'	CYT	908	202.515	135.918	-24.822	1.00	63.81	Al6S	ATOM	38124	C5	GUA	910	210.803	130.163	-17.238	1.00	34.62
ATOM	38072	C5'	CYT	908	202.170	136.844	-23.812	1.00	63.81	Al6S	ATOM	38125	N7	GUA	910	210.706	131.366	-17.920	1.00	34.62

ATOM	38126	C8	GUA	910	210.855	132.270	-16.989	1.00	34.62	Al6S	ATOM	38179	O4'	CYT	913	216.065	125.770	-21.066	1.00	48.55	A1
ATOM	38127	C2'	GUA	910	212.707	132.698	-14.083	1.00	49.74	Al6S	ATOM	38180	C1'	CYT	913	216.169	126.503	-22.272	1.00	48.55	A1
ATOM	38128	O2'	GUA	910	212.854	132.480	-12.697	1.00	49.74	Al6S	ATOM	38181	N1	CYT	913	216.386	127.909	-21.948	1.00	33.91	A1
ATOM	38129	C3'	GUA	910	212.888	134.164	-14.462	1.00	49.74	Al6S	ATOM	38182	C6	CYT	913	216.703	128.310	-20.680	1.00	33.91	A1
ATOM	38130	O3'	GUA	910	213.907	134.814	-13.699	1.00	49.74	Al6S	ATOM	38183	C2	CYT	913	216.283	128.837	-22.982	1.00	33.91	A1
ATOM	38131	P	CYT	911	215.124	135.552	-14.453	1.00	49.16	Al6S	ATOM	38184	O2	CYT	913	215.902	128.444	-24.094	1.00	33.91	A1
ATOM	38132	O1P	CYT	911	215.921	136.339	-13.472	1.00	60.43	Al6S	ATOM	38185	N3	CYT	913	216.578	130.132	-22.739	1.00	33.91	A1
ATOM	38133	O2P	CYT	911	214.633	136.208	-15.683	1.00	60.43	Al6S	ATOM	38186	C4	CYT	913	216.914	130.511	-21.504	1.00	33.91	A1
ATOM	38134	O5'	CYT	911	216.032	134.332	-14.859	1.00	49.16	Al6S	ATOM	38187	N4	CYT	913	217.217	131.784	-21.315	1.00	33.91	A1
ATOM	38135	C5'	CYT	911	216.359	133.361	-13.894	1.00	49.16	Al6S	ATOM	38188	C5	CYT	913	216.961	129.591	-20.414	1.00	33.91	A1
ATOM	38136	C4'	CYT	911	217.219	132.315	-14.520	1.00	49.16	Al6S	ATOM	38189	C2'	CYT	913	217.365	125.936	-23.902	1.00	48.55	A1
ATOM	38137	O4'	CYT	911	218.449	132.852	-15.014	1.00	49.16	Al6S	ATOM	38190	O2'	CYT	913	216.878	124.946	-23.029	1.00	48.55	A1
ATOM	38138	C1'	CYT	911	219.251	131.753	-15.290	1.00	49.16	Al6S	ATOM	38191	C3'	CYT	913	218.192	125.365	-21.883	1.00	48.55	A1
ATOM	38139	N1	CYT	911	220.570	132.189	-15.733	1.00	60.43	Al6S	ATOM	38192	O3'	CYT	913	219.102	124.364	-22.310	1.00	48.55	A1
ATOM	38140	C6	CYT	911	220.417	132.896	-14.932	1.00	60.43	Al6S	ATOM	38193	P	ADP	914	220.572	124.785	-22.783	1.00	44.98	A1
ATOM	38141	C2'	CYT	911	220.919	131.889	-17.038	1.00	60.43	Al6S	ATOM	38194	O1P	ADP	914	221.155	123.574	-23.407	1.00	52.52	A1
ATOM	38142	O2	CYT	911	220.140	131.193	-17.712	1.00	60.43	Al6S	ATOM	38195	O2P	ADP	914	220.320	125.872	-23.922	1.00	44.98	A1
ATOM	38143	N3	CYT	911	222.085	132.357	-17.536	1.00	60.43	Al6S	ATOM	38196	O5'	ADP	914	219.973	126.709	-26.133	1.00	44.98	A1
ATOM	38144	C4	CYT	911	222.892	133.086	-16.764	1.00	60.43	Al6S	ATOM	38197	C5'	ADP	914	218.943	127.499	-25.480	1.00	44.98	A1
ATOM	38145	N4	CYT	911	224.016	133.568	-17.309	1.00	60.43	Al6S	ATOM	38198	C4'	ADP	914	219.194	128.887	-25.671	1.00	44.98	A1
ATOM	38146	C5	CYT	911	222.579	133.363	-15.404	1.00	60.43	Al6S	ATOM	38199	O4'	ADP	914	219.529	129.459	-24.369	1.00	52.52	A1
ATOM	38147	C2'	CYT	911	218.983	130.686	-14.220	1.00	49.16	Al6S	ATOM	38200	C1'	ADP	914	219.677	131.861	-24.838	1.00	52.52	A1
ATOM	38148	O2'	CYT	911	218.999	129.433	-14.858	1.00	49.16	Al6S	ATOM	38201	N9	ADP	914	219.999	133.163	-22.881	1.00	52.52	A1
ATOM	38149	C3'	CYT	911	217.604	131.126	-13.665	1.00	49.16	Al6S	ATOM	38202	C4	ADP	914	219.650	130.791	-24.036	1.00	52.52	A1
ATOM	38150	O3'	CYT	911	216.506	130.263	-13.981	1.00	49.16	Al6S	ATOM	38203	N3	ADP	914	219.477	131.861	-24.838	1.00	52.52	A1
ATOM	38151	P	ADP	912	216.430	128.770	-13.418	1.00	54.12	Al6S	ATOM	38204	C2	ADP	914	220.169	132.068	-22.108	1.00	52.52	A1
ATOM	38152	O1P	ADP	912	215.953	128.853	-12.018	1.00	37.37	Al6S	ATOM	38205	N1	ADP	914	220.497	132.230	-20.832	1.00	52.52	A1
ATOM	38153	O2P	ADP	912	217.680	128.013	-13.728	1.00	37.37	Al6S	ATOM	38206	C6	ADP	914	219.992	130.814	-22.699	1.00	52.52	A1
ATOM	38154	O5'	ADP	912	215.303	128.117	-14.326	1.00	54.12	Al6S	ATOM	38207	N6	ADP	914	220.089	129.524	-22.195	1.00	52.52	A1
ATOM	38155	C5'	ADP	912	215.117	126.710	-14.345	1.00	54.12	Al6S	ATOM	38208	C5	ADP	914	219.802	128.761	-23.221	1.00	52.52	A1
ATOM	38156	C4'	ADP	912	214.747	126.255	-15.732	1.00	54.12	Al6S	ATOM	38209	N7	ADP	914	220.367	128.968	-26.643	1.00	44.98	A1
ATOM	38157	O4'	ADP	912	213.673	127.090	-16.242	1.00	54.12	Al6S	ATOM	38210	C8	ADP	914	219.856	128.925	-27.960	1.00	44.98	A1
ATOM	38158	C1'	ADP	912	213.740	127.131	-17.655	1.00	54.12	Al6S	ATOM	38211	C2'	ADP	914	221.120	127.696	-26.276	1.00	44.98	A1
ATOM	38159	N9	ADP	912	213.852	128.520	-18.078	1.00	37.37	Al6S	ATOM	38212	O2'	ADP	914	222.037	127.311	-27.295	1.00	44.98	A1
ATOM	38160	C4	ADP	912	213.706	128.974	-19.366	1.00	37.37	Al6S	ATOM	38213	C3'	ADP	914	223.620	127.445	-27.032	1.00	48.54	A1
ATOM	38161	N3	ADP	912	213.441	128.241	-20.462	1.00	37.37	Al6S	ATOM	38214	O3'	ADP	914	224.318	126.961	-28.256	1.00	49.19	A1
ATOM	38162	C2	ADP	912	213.336	129.025	-21.534	1.00	37.37	Al6S	ATOM	38215	P	ADP	915	223.951	126.843	-25.710	1.00	48.54	A1
ATOM	38163	N1	ADP	912	213.457	130.359	-21.628	1.00	37.37	Al6S	ATOM	38216	O1P	ADP	915	223.853	129.012	-26.916	1.00	48.54	A1
ATOM	38164	C6	ADP	912	213.725	131.063	-20.506	1.00	37.37	Al6S	ATOM	38217	O2P	ADP	915	223.931	129.819	-28.074	1.00	48.54	A1
ATOM	38165	N6	ADP	912	213.840	132.387	-20.601	1.00	37.37	Al6S	ATOM	38218	O5'	ADP	915	223.329	131.702	-26.761	1.00	48.54	A1
ATOM	38166	C5	ADP	912	213.863	130.346	-19.303	1.00	37.37	Al6S	ATOM	38219	C5'	ADP	915	223.951	126.843	-25.710	1.00	48.54	A1
ATOM	38167	N7	ADP	912	214.118	130.745	-18.002	1.00	37.37	Al6S	ATOM	38220	C4'	ADP	915	223.951	126.843	-25.710	1.00	48.54	A1
ATOM	38168	C8	ADP	912	214.103	129.623	-17.318	1.00	37.37	Al6S	ATOM	38221	O4'	ADP	915	223.951	126.843	-25.710	1.00	48.54	A1
ATOM	38169	C2'	ADP	912	214.961	126.319	-18.056	1.00	54.12	Al6S	ATOM	38222	C1'	ADP	915	223.951	126.843	-25.710	1.00	48.54	A1
ATOM	38170	O2'	ADP	912	214.557	124.987	-18.266	1.00	54.12	Al6S	ATOM	38223	N9	ADP	915	223.911	132.305	-23.229	1.00	49.19	A1
ATOM	38171	C3'	ADP	912	215.803	126.438	-16.801	1.00	54.12	Al6S	ATOM	38224	C4	ADP	915	224.298	133.549	-22.909	1.00	49.19	A1
ATOM	38172	O3'	ADP	912	216.781	125.414	-16.751	1.00	54.12	Al6S	ATOM	38225	N3	ADP	915	224.336	133.702	-21.586	1.00	49.19	A1
ATOM	38173	P	CYT	913	218.224	125.671	-17.402	1.00	48.55	Al6S	ATOM	38226	C2	ADP	915	224.043	132.822	-20.622	1.00	49.19	A1
ATOM	38174	O1P	CYT	913	219.036	124.488	-17.016	1.00	33.91	Al6S	ATOM	38227	N1	ADP	915	223.649	131.584	-20.980	1.00	49.19	A1
ATOM	38175	O2P	CYT	913	218.686	127.040	-17.035	1.00	33.91	Al6S	ATOM	38228	C6	ADP	915	223.341	130.715	-20.021	1.00	49.19	A1
ATOM	38176	O5'	CYT	913	217.930	125.667	-18.965	1.00	48.55	Al6S	ATOM	38229	N6	ADP	915	223.582	131.289	-22.352	1.00	49.19	A1
ATOM	38177	C5'	CYT	913	217.476	124.486	-19.593	1.00	48.55	Al6S	ATOM	38230	C5	ADP	915	223.238	130.137	-23.046	1.00	49.19	A1
ATOM	38178	C4'	CYT	913	217.107	124.762	-21.020	1.00	48.55	Al6S	ATOM	38231	N7	ADP	915						A1

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ATOM	38232	C8	ADE	915	223.355	130.482	-24.304	1.00	49.19	Al6s	ATOM	38285	C4'	GUA	918	235.508	129.986	-14.824	1.00	39.06	/
ATOM	38233	C2'	ADE	915	225.417	132.605	-26.143	1.00	48.54	Al6s	ATOM	38286	O4'	GUA	918	234.091	130.238	-14.987	1.00	39.06	/
ATOM	38234	O2'	ADE	915	225.556	133.716	-27.005	1.00	48.54	Al6s	ATOM	38287	C1'	GUA	918	233.354	129.275	-14.242	1.00	39.06	/
ATOM	38235	C3'	ADE	915	225.621	131.313	-26.909	1.00	48.54	Al6s	ATOM	38288	N9	GUA	918	232.516	128.518	-15.158	1.00	54.00	/
ATOM	38236	O3'	ADE	915	226.734	131.415	-27.783	1.00	48.54	Al6s	ATOM	38289	C4	GUA	918	231.495	127.683	-14.808	1.00	54.00	/
ATOM	38237	P	GUA	916	228.067	130.586	-27.459	1.00	64.52	Al6s	ATOM	38290	N3	GUA	918	231.051	127.478	-13.546	1.00	54.00	/
ATOM	38238	O1P	GUA	916	228.986	130.934	-28.562	1.00	54.65	Al6s	ATOM	38291	C2	GUA	918	230.075	126.598	-13.508	1.00	54.00	/
ATOM	38239	O2P	GUA	916	227.712	129.169	-27.226	1.00	54.65	Al6s	ATOM	38292	N2	GUA	918	229.492	126.312	-12.346	1.00	54.00	/
ATOM	38240	O5'	GUA	916	228.591	131.171	-26.063	1.00	64.52	Al6s	ATOM	38293	N1	GUA	918	229.591	125.947	-15.914	1.00	54.00	/
ATOM	38241	C5'	GUA	916	229.022	132.524	-25.958	1.00	64.52	Al6s	ATOM	38294	C6	GUA	918	230.032	126.146	-15.914	1.00	54.00	/
ATOM	38242	C4'	GUA	916	229.122	132.979	-24.505	1.00	64.52	Al6s	ATOM	38295	O6	GUA	918	229.524	125.504	-16.842	1.00	54.00	/
ATOM	38243	C1'	GUA	916	227.857	132.806	-23.812	1.00	64.52	Al6s	ATOM	38296	C5	GUA	918	231.062	127.112	-15.969	1.00	54.00	/
ATOM	38244	O4'	GUA	916	227.434	131.701	-21.774	1.00	54.65	Al6s	ATOM	38297	N7	GUA	918	231.768	127.615	-17.050	1.00	54.00	/
ATOM	38245	N9	GUA	916	227.434	131.701	-21.774	1.00	54.65	Al6s	ATOM	38298	C8	GUA	918	232.615	128.453	-16.521	1.00	54.00	/
ATOM	38246	C4	GUA	916	227.191	131.575	-20.434	1.00	54.65	Al6s	ATOM	38299	C2'	GUA	918	234.370	128.334	-13.539	1.00	39.06	/
ATOM	38247	N3	GUA	916	227.517	132.474	-19.486	1.00	54.65	Al6s	ATOM	38300	O2'	GUA	918	234.668	128.746	-12.286	1.00	39.06	/
ATOM	38248	C2	GUA	916	227.179	132.063	-18.279	1.00	54.65	Al6s	ATOM	38301	C3'	GUA	918	235.549	128.497	-14.542	1.00	39.06	/
ATOM	38249	N2	GUA	916	227.472	132.816	-17.212	1.00	54.65	Al6s	ATOM	38302	O3'	GUA	918	236.741	128.094	-13.890	1.00	39.06	/
ATOM	38250	N1	GUA	916	226.540	130.880	-18.029	1.00	54.65	Al6s	ATOM	38303	P	GUA	919	237.297	126.601	-14.120	1.00	44.45	/
ATOM	38251	C6	GUA	916	226.174	129.951	-18.994	1.00	54.65	Al6s	ATOM	38304	O1P	GUA	919	238.549	126.460	-13.330	1.00	60.98	/
ATOM	38252	O6	GUA	916	226.568	128.931	-18.664	1.00	54.65	Al6s	ATOM	38305	O2P	GUA	919	237.320	126.388	-15.590	1.00	60.98	/
ATOM	38253	C5	GUA	916	226.567	130.360	-20.287	1.00	54.65	Al6s	ATOM	38306	O5'	GUA	919	236.182	125.654	-13.480	1.00	44.45	/
ATOM	38254	N7	GUA	916	226.420	129.731	-21.511	1.00	54.65	Al6s	ATOM	38307	C5'	GUA	919	235.903	125.742	-12.029	1.00	44.45	/
ATOM	38255	C8	GUA	916	226.943	130.566	-22.364	1.00	54.65	Al6s	ATOM	38308	C4'	GUA	919	234.653	124.970	-11.716	1.00	44.45	/
ATOM	38256	C2'	GUA	916	229.611	132.830	-22.208	1.00	64.52	Al6s	ATOM	38309	O4'	GUA	919	233.554	125.214	-12.630	1.00	44.45	/
ATOM	38257	O2'	GUA	916	230.115	132.324	-23.555	1.00	64.52	Al6s	ATOM	38310	C1'	GUA	919	232.520	124.310	-12.298	1.00	44.45	/
ATOM	38258	C3'	GUA	916	230.115	132.324	-23.555	1.00	64.52	Al6s	ATOM	38311	N9	GUA	919	231.923	123.713	-13.485	1.00	60.98	/
ATOM	38259	O3'	GUA	916	231.430	132.844	-23.729	1.00	64.52	Al6s	ATOM	38312	C4	GUA	919	230.910	122.787	-13.450	1.00	60.98	/
ATOM	38260	P	CYT	917	232.700	131.894	-23.492	1.00	44.83	Al6s	ATOM	38313	N3	GUA	919	230.295	122.334	-12.335	1.00	60.98	/
ATOM	38261	O1P	CYT	917	233.825	132.520	-24.225	1.00	51.29	Al6s	ATOM	38314	C2	GUA	919	229.384	121.424	-12.608	1.00	60.98	/
ATOM	38262	O2P	CYT	917	232.298	130.499	-23.799	1.00	51.29	Al6s	ATOM	38315	N2	GUA	919	228.679	120.869	-11.611	1.00	60.98	/
ATOM	38263	O5'	CYT	917	233.008	131.954	-21.933	1.00	44.83	Al6s	ATOM	38316	N1	GUA	919	229.100	120.990	-13.876	1.00	60.98	/
ATOM	38264	C5'	CYT	917	233.128	133.040	-21.383	1.00	44.83	Al6s	ATOM	38317	C6	GUA	919	229.722	121.440	-15.034	1.00	60.98	/
ATOM	38265	O4'	CYT	917	233.525	133.097	-19.890	1.00	44.83	Al6s	ATOM	38318	O6	GUA	919	229.399	120.967	-16.119	1.00	60.98	/
ATOM	38266	O4'	CYT	917	232.097	133.149	-19.604	1.00	44.83	Al6s	ATOM	38319	C5	GUA	919	230.696	122.426	-14.755	1.00	60.98	/
ATOM	38267	C1'	CYT	917	231.848	132.553	-18.342	1.00	44.83	Al6s	ATOM	38320	N7	GUA	919	231.533	123.136	-15.603	1.00	60.98	/
ATOM	38268	N1	CYT	917	230.965	131.398	-18.515	1.00	51.29	Al6s	ATOM	38321	C8	GUA	919	232.238	123.894	-14.804	1.00	60.98	/
ATOM	38269	C6	CYT	917	230.781	130.814	-19.731	1.00	51.29	Al6s	ATOM	38322	C2'	GUA	919	233.155	123.212	-11.446	1.00	44.45	/
ATOM	38270	C2	CYT	917	230.339	130.884	-17.386	1.00	51.29	Al6s	ATOM	38323	O2'	GUA	919	232.769	123.422	-10.107	1.00	44.45	/
ATOM	38271	O2	CYT	917	230.480	131.478	-16.307	1.00	51.29	Al6s	ATOM	38324	C3'	GUA	919	234.643	123.453	-11.666	1.00	44.45	/
ATOM	38272	N3	CYT	917	229.593	129.763	-17.487	1.00	51.29	Al6s	ATOM	38325	O3'	GUA	919	235.351	122.930	-10.540	1.00	44.45	/
ATOM	38273	C4	CYT	917	229.450	129.172	-18.667	1.00	51.29	Al6s	ATOM	38326	P	URI	920	236.604	121.340	-10.410	1.00	43.48	/
ATOM	38274	N4	CYT	917	228.741	128.047	-18.711	1.00	51.29	Al6s	ATOM	38327	O1P	URI	920	236.420	121.027	-9.216	1.00	52.52	/
ATOM	38275	C5	CYT	917	230.040	129.706	-19.853	1.00	51.29	Al6s	ATOM	38328	O2P	URI	920	236.072	120.885	-11.744	1.00	43.48	/
ATOM	38276	C2'	CYT	917	233.196	132.080	-17.810	1.00	44.83	Al6s	ATOM	38329	O5'	URI	920	234.150	120.739	-10.164	1.00	43.48	/
ATOM	38277	O2'	CYT	917	233.780	133.093	-17.027	1.00	44.83	Al6s	ATOM	38330	C5'	URI	920	233.550	120.780	-8.866	1.00	43.48	/
ATOM	38278	C3'	CYT	917	233.952	131.875	-19.108	1.00	44.83	Al6s	ATOM	38331	C4'	URI	920	232.447	119.753	-8.765	1.00	43.48	/
ATOM	38279	O3'	CYT	917	235.335	131.830	-18.862	1.00	44.83	Al6s	ATOM	38332	O4'	URI	920	231.388	120.097	-9.698	1.00	43.48	/
ATOM	38280	P	GUA	918	236.042	130.402	-18.669	1.00	39.06	Al6s	ATOM	38333	C1'	URI	920	230.868	118.917	-10.284	1.00	43.48	/
ATOM	38281	O1P	GUA	918	237.514	130.655	-18.621	1.00	54.00	Al6s	ATOM	38334	N1	URI	920	231.218	118.896	-11.705	1.00	52.52	/
ATOM	38282	O2P	GUA	918	235.483	129.484	-19.701	1.00	54.00	Al6s	ATOM	38335	C6	URI	920	232.136	117.954	-12.245	1.00	52.52	/
ATOM	38283	O5'	GUA	918	235.579	129.922	-17.220	1.00	39.06	Al6s	ATOM	38336	C2	URI	920	230.588	117.952	-12.471	1.00	52.52	/
ATOM	38284	C5'	GUA	918	236.202	130.454	-16.066	1.00	39.06	Al6s	ATOM	38337	O2	URI	920	229.768	117.182	-12.015	1.00	52.52	/

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ATOM	38338	N3	URI	920	230.954	117.934	-13.786	1.00	52.52	Al6S	ATOM	38391	O3	GUIA	922	238.530	109.438	-10.325	1.00	45.33	Al1
ATOM	38339	C4	URI	920	231.863	118.750	-14.393	1.00	52.52	Al6S	ATOM	38392	P	ADE	923	238.992	109.492	-8.805	1.00	49.67	Al1
ATOM	38340	O4	URI	920	232.065	118.621	-15.594	1.00	52.52	Al6S	ATOM	38393	O1P	ADE	923	239.353	108.126	-8.336	1.00	47.05	Al1
ATOM	38341	C5	URI	920	232.476	119.715	-13.529	1.00	52.52	Al6S	ATOM	38394	O2P	ADE	923	237.954	110.273	-8.080	1.00	47.05	Al1
ATOM	38342	C2	URI	920	231.530	117.735	-9.589	1.00	43.48	Al6S	ATOM	38395	O5	ADE	923	240.305	110.382	-8.872	1.00	49.67	Al1
ATOM	38343	O2	URI	920	230.711	117.339	-8.518	1.00	43.48	Al6S	ATOM	38396	C5	ADE	923	241.552	109.813	-9.218	1.00	49.67	Al1
ATOM	38344	C3	URI	920	232.853	118.349	-9.166	1.00	43.48	Al6S	ATOM	38397	C4	ADE	923	242.664	110.636	-8.629	1.00	49.67	Al1
ATOM	38345	O3	URI	920	233.452	117.633	-8.103	1.00	43.48	Al6S	ATOM	38398	O4	ADE	923	242.581	111.996	-9.128	1.00	49.67	Al1
ATOM	38346	P	GUIA	921	234.321	116.335	-8.447	1.00	45.44	Al6S	ATOM	38399	C1	ADE	923	243.029	112.888	-8.130	1.00	49.67	Al1
ATOM	38347	O1P	GUIA	921	234.598	115.522	-7.221	1.00	47.90	Al6S	ATOM	38400	N9	ADE	923	241.986	113.895	-7.918	1.00	47.05	Al1
ATOM	38348	O5	GUIA	921	233.462	116.810	-9.277	1.00	47.90	Al6S	ATOM	38401	C4	ADE	923	242.117	115.122	-7.309	1.00	47.05	Al1
ATOM	38349	O5	GUIA	921	233.344	115.522	-9.408	1.00	45.44	Al6S	ATOM	38402	N3	ADE	923	243.206	115.627	-6.709	1.00	47.05	Al1
ATOM	38350	C5	GUIA	921	232.308	114.708	-8.887	1.00	45.44	Al6S	ATOM	38403	C2	ADE	923	242.971	116.867	-6.268	1.00	47.05	Al1
ATOM	38351	C4	GUIA	921	231.862	113.715	-9.929	1.00	45.44	Al6S	ATOM	38404	N1	ADE	923	241.859	117.601	-6.359	1.00	47.05	Al1
ATOM	38352	O4	GUIA	921	231.227	114.393	-11.049	1.00	45.44	Al6S	ATOM	38405	C6	ADE	923	239.680	117.795	-7.082	1.00	47.05	Al1
ATOM	38353	C1	GUIA	921	231.566	113.746	-12.257	1.00	45.44	Al6S	ATOM	38406	N6	ADE	923	240.900	115.752	-7.465	1.00	47.05	Al1
ATOM	38354	N9	GUIA	921	232.379	114.674	-13.031	1.00	47.90	Al6S	ATOM	38407	C5	ADE	923	240.001	114.924	-8.113	1.00	47.05	Al1
ATOM	38355	C4	GUIA	921	232.588	114.675	-14.388	1.00	47.90	Al6S	ATOM	38408	N7	ADE	923	240.688	113.833	-8.346	1.00	47.05	Al1
ATOM	38356	N3	GUIA	921	232.045	113.821	-15.281	1.00	47.90	Al6S	ATOM	38409	C8	ADE	923	243.444	112.049	-6.916	1.00	49.67	Al1
ATOM	38357	C2	GUIA	921	232.459	114.068	-16.508	1.00	47.90	Al6S	ATOM	38410	C2	ADE	923	244.827	111.771	-7.012	1.00	49.67	Al1
ATOM	38358	N2	GUIA	921	232.021	113.330	-17.528	1.00	47.90	Al6S	ATOM	38411	O2	ADE	923	242.630	110.781	-7.120	1.00	49.67	Al1
ATOM	38359	N1	GUIA	921	233.335	115.058	-16.825	1.00	47.90	Al6S	ATOM	38412	C3	ADE	923	243.290	109.668	-6.537	1.00	49.67	Al1
ATOM	38360	C6	GUIA	921	233.909	115.939	-15.919	1.00	47.90	Al6S	ATOM	38413	O3	ADE	923	242.832	107.132	-5.099	1.00	48.80	Al1
ATOM	38361	O6	GUIA	921	234.712	116.788	-16.309	1.00	47.90	Al6S	ATOM	38414	P	GUIA	924	243.493	109.833	-4.844	1.00	50.54	Al1
ATOM	38362	C5	GUIA	921	233.466	115.702	-14.617	1.00	47.90	Al6S	ATOM	38415	O1P	GUIA	924	241.354	109.210	-5.063	1.00	50.54	Al1
ATOM	38363	N7	GUIA	921	233.784	116.352	-13.440	1.00	47.90	Al6S	ATOM	38416	O2P	GUIA	924	243.439	110.198	-4.074	1.00	48.80	Al1
ATOM	38364	C8	GUIA	921	233.113	115.713	-12.528	1.00	47.90	Al6S	ATOM	38417	O5	GUIA	924	244.841	110.223	-3.773	1.00	48.80	Al1
ATOM	38365	C2	GUIA	921	232.333	112.483	-11.861	1.00	45.44	Al6S	ATOM	38418	C5	GUIA	924	245.205	111.484	-3.014	1.00	48.80	Al1
ATOM	38366	O2	GUIA	921	231.407	111.439	-11.648	1.00	45.44	Al6S	ATOM	38420	O4	GUIA	924	244.965	112.647	-3.848	1.00	48.80	Al1
ATOM	38367	C3	GUIA	921	232.981	112.921	-10.555	1.00	45.44	Al6S	ATOM	38421	C1	GUIA	924	244.516	113.725	-3.046	1.00	48.80	Al1
ATOM	38368	O3	GUIA	921	233.239	111.815	-9.713	1.00	45.44	Al6S	ATOM	38422	N9	GUIA	924	243.163	114.056	-3.460	1.00	50.54	Al1
ATOM	38369	P	GUIA	922	234.648	111.686	-8.963	1.00	45.33	Al6S	ATOM	38423	C4	GUIA	924	242.529	115.254	-3.287	1.00	50.54	Al1
ATOM	38370	O1P	GUIA	922	234.921	112.950	-8.203	1.00	61.30	Al6S	ATOM	38424	N3	GUIA	924	242.195	117.355	-2.694	1.00	50.54	Al1
ATOM	38371	O2P	GUIA	922	235.685	111.563	-10.163	1.00	45.33	Al6S	ATOM	38425	C2	GUIA	924	242.545	118.532	-2.147	1.00	50.54	Al1
ATOM	38372	O5	GUIA	922	235.638	110.470	-11.077	1.00	45.33	Al6S	ATOM	38426	N2	GUIA	924	240.942	117.295	-3.239	1.00	50.54	Al1
ATOM	38373	C5	GUIA	922	236.939	110.379	-11.838	1.00	45.33	Al6S	ATOM	38427	N1	GUIA	924	239.396	116.182	-3.861	1.00	50.54	Al1
ATOM	38375	O4	GUIA	922	237.019	111.406	-12.866	1.00	45.33	Al6S	ATOM	38428	C6	GUIA	924	241.291	115.096	-3.860	1.00	50.54	Al1
ATOM	38376	C1	GUIA	922	238.318	111.980	-12.863	1.00	45.33	Al6S	ATOM	38429	O6	GUIA	924	241.144	113.815	-4.367	1.00	50.54	Al1
ATOM	38377	N9	GUIA	922	238.187	113.374	-12.446	1.00	61.30	Al6S	ATOM	38430	C5	GUIA	924	242.279	113.235	-4.104	1.00	50.54	Al1
ATOM	38378	C4	GUIA	922	240.476	113.879	-11.785	1.00	61.30	Al6S	ATOM	38431	N7	GUIA	924	244.564	113.266	-1.593	1.00	48.80	Al1
ATOM	38379	N3	GUIA	922	241.187	114.905	-11.333	1.00	61.30	Al6S	ATOM	38432	C8	GUIA	924	245.806	113.629	-1.028	1.00	48.80	Al1
ATOM	38380	C2	GUIA	922	242.492	114.758	-11.080	1.00	61.30	Al6S	ATOM	38433	C2	GUIA	924	244.405	111.763	-1.752	1.00	48.80	Al1
ATOM	38381	N2	GUIA	922	240.669	116.148	-11.094	1.00	61.30	Al6S	ATOM	38434	O3	GUIA	924	243.996	111.082	-0.642	1.00	48.80	Al1
ATOM	38382	N1	GUIA	922	239.342	116.506	-11.285	1.00	61.30	Al6S	ATOM	38435	C3	GUIA	924	244.871	109.769	1.458	1.00	57.41	Al1
ATOM	38383	C6	GUIA	922	238.980	117.660	-11.052	1.00	61.30	Al6S	ATOM	38436	O3	GUIA	924	242.896	109.746	-0.191	1.00	47.60	Al1
ATOM	38384	O6	GUIA	922	237.216	115.345	-12.062	1.00	61.30	Al6S	ATOM	38437	P	CYT	925	243.427	111.807	1.193	1.00	47.60	Al1
ATOM	38385	C5	GUIA	922	239.039	114.118	-12.464	1.00	61.30	Al6S	ATOM	38440	O5	CYT	925	244.274	112.597	2.028	1.00	47.60	Al1
ATOM	38386	N7	GUIA	922	239.178	111.129	-11.923	1.00	45.33	Al6S	ATOM	38441	C5	CYT	925	243.716	113.996	2.208	1.00	47.60	Al1
ATOM	38387	C8	GUIA	922	239.791	110.063	-12.618	1.00	45.33	Al6S	ATOM	38442	C4	CYT	925	243.464	114.591	0.908	1.00	47.60	Al1
ATOM	38388	C2	GUIA	922	238.135	110.628	-10.949	1.00	45.33	Al6S	ATOM	38443	O4	CYT	925						Al1

ATOM	38444	C1' CYT	925	242.402	115.522	1.015	1.00	47.60	Al6S	ATOM	38497	C3' URI	927	232.930	116.199	7.823	1.00	52.32
ATOM	38445	N1 CYT	925	241.298	115.072	0.175	1.00	57.41	Al6S	ATOM	38498	O3' URI	927	232.122	116.267	8.984	1.00	52.32
ATOM	38446	C6 CYT	925	241.272	113.821	-0.373	1.00	57.41	Al6S	ATOM	38499	P GUA	928	231.648	114.905	9.690	1.00	53.43
ATOM	38447	C2 CYT	925	240.259	115.952	-0.036	1.00	57.41	Al6S	ATOM	38500	O1P GUA	928	231.376	115.265	11.101	1.00	49.36
ATOM	38448	O2 CYT	925	240.318	117.073	0.496	1.00	57.41	Al6S	ATOM	38501	O2P GUA	928	232.617	113.816	9.389	1.00	49.36
ATOM	38449	N3 CYT	925	239.214	115.570	-0.795	1.00	57.41	Al6S	ATOM	38502	O5' GUA	928	230.270	114.582	8.959	1.00	53.43
ATOM	38450	C4 CYT	925	239.184	114.349	-1.320	1.00	57.41	Al6S	ATOM	38503	C5' GUA	928	229.168	115.465	9.100	1.00	53.43
ATOM	38451	N4 CYT	925	238.123	114.017	-2.051	1.00	57.41	Al6S	ATOM	38504	C4' GUA	928	228.159	115.244	8.001	1.00	53.43
ATOM	38452	C5 CYT	925	240.238	113.419	-1.116	1.00	57.41	Al6S	ATOM	38505	O4' GUA	928	228.765	115.543	6.717	1.00	53.43
ATOM	38453	C2' CYT	925	241.958	115.536	2.472	1.00	47.60	Al6S	ATOM	38506	C1' GUA	928	228.143	114.758	5.710	1.00	53.43
ATOM	38454	O2' CYT	925	242.637	116.566	3.141	1.00	47.60	Al6S	ATOM	38507	N9 GUA	928	229.128	113.840	5.155	1.00	49.36
ATOM	38455	C3' CYT	925	242.387	114.152	2.923	1.00	47.60	Al6S	ATOM	38508	C4 GUA	928	228.979	113.088	4.019	1.00	49.36
ATOM	38456	O3' CYT	925	242.563	114.148	4.323	1.00	47.60	Al6S	ATOM	38509	N3 GUA	928	227.912	113.098	3.199	1.00	49.36
ATOM	38457	P ADE	926	241.346	113.693	5.272	1.00	46.18	Al6S	ATOM	38510	C2 GUA	928	228.041	112.230	2.214	1.00	49.36
ATOM	38458	O1P ADE	926	241.904	113.507	6.639	1.00	55.54	Al6S	ATOM	38511	N2 GUA	928	227.067	112.090	1.325	1.00	49.36
ATOM	38459	O2P ADE	926	240.653	112.556	4.602	1.00	55.54	Al6S	ATOM	38512	N1 GUA	928	229.134	111.434	2.033	1.00	49.36
ATOM	38460	O5' ADE	926	240.385	114.969	5.323	1.00	46.18	Al6S	ATOM	38513	C6 GUA	928	230.251	111.417	2.858	1.00	49.36
ATOM	38461	C5' ADE	926	240.777	116.125	6.050	1.00	46.18	Al6S	ATOM	38514	O6 GUA	928	231.192	110.670	2.600	1.00	49.36
ATOM	38462	C4' ADE	926	239.705	117.184	4.644	1.00	46.18	Al6S	ATOM	38515	C5 GUA	928	230.121	112.326	3.931	1.00	49.36
ATOM	38463	O4' ADE	926	238.152	117.990	4.440	1.00	46.18	Al6S	ATOM	38516	N7 GUA	928	230.984	112.607	4.980	1.00	49.36
ATOM	38464	C1' ADE	926	237.603	117.002	3.512	1.00	55.54	Al6S	ATOM	38517	C8 GUA	928	227.034	113.520	6.409	1.00	53.43
ATOM	38465	N9 ADE	926	236.431	117.105	2.801	1.00	55.54	Al6S	ATOM	38518	C2' GUA	928	227.881	114.792	7.799	1.00	53.43
ATOM	38466	C4 ADE	926	235.541	118.112	2.830	1.00	55.54	Al6S	ATOM	38519	O2' GUA	928	227.624	113.840	6.415	1.00	53.43
ATOM	38467	N3 ADE	926	234.538	117.874	1.992	1.00	55.54	Al6S	ATOM	38520	C3' GUA	928	226.618	113.518	8.743	1.00	53.43
ATOM	38468	C2 ADE	926	234.341	116.831	1.183	1.00	55.54	Al6S	ATOM	38521	O3' GUA	928	226.441	111.995	9.236	1.00	49.34
ATOM	38469	N1 ADE	926	235.255	115.838	1.180	1.00	55.54	Al6S	ATOM	38522	P URI	929	226.334	112.022	10.225	1.00	48.52
ATOM	38470	C6 ADE	926	235.074	114.803	0.369	1.00	55.54	Al6S	ATOM	38523	O1P URI	929	227.742	111.404	9.617	1.00	48.52
ATOM	38471	N6 ADE	926	236.356	115.958	2.033	1.00	55.54	Al6S	ATOM	38524	O2P URI	929	225.909	111.228	7.947	1.00	49.34
ATOM	38472	C5 ADE	926	237.442	115.127	2.276	1.00	55.54	Al6S	ATOM	38525	O5' URI	929	224.686	111.619	7.333	1.00	49.34
ATOM	38473	N7 ADE	926	238.150	115.787	3.158	1.00	46.18	Al6S	ATOM	38526	C5' URI	929	224.480	110.877	6.035	1.00	49.34
ATOM	38474	C8 ADE	926	237.479	117.870	5.806	1.00	46.18	Al6S	ATOM	38527	C4' URI	929	225.533	111.208	4.195	1.00	49.34
ATOM	38475	C2' ADE	926	237.600	119.090	6.510	1.00	46.18	Al6S	ATOM	38528	O4' URI	929	225.715	110.118	4.308	1.00	48.52
ATOM	38476	O2' ADE	926	238.313	116.768	6.432	1.00	46.18	Al6S	ATOM	38529	C1' URI	929	227.088	109.613	4.308	1.00	48.52
ATOM	38477	C3' ADE	926	238.185	116.767	7.843	1.00	46.18	Al6S	ATOM	38530	N1 URI	929	227.832	109.760	5.454	1.00	48.52
ATOM	38478	O3' ADE	926	237.432	115.550	8.568	1.00	52.32	Al6S	ATOM	38531	C6 URI	929	227.595	108.959	3.219	1.00	48.52
ATOM	38479	P URI	927	237.674	115.686	10.029	1.00	49.70	Al6S	ATOM	38532	O2 URI	929	228.857	108.456	3.371	1.00	48.52
ATOM	38480	O1P URI	927	237.824	114.292	7.885	1.00	49.70	Al6S	ATOM	38533	O2 URI	929	229.651	108.547	4.485	1.00	48.52
ATOM	38481	O2P URI	927	235.894	115.819	8.237	1.00	52.32	Al6S	ATOM	38534	N3 URI	929	229.763	108.029	4.473	1.00	48.52
ATOM	38482	O5' URI	927	235.275	117.049	8.597	1.00	52.32	Al6S	ATOM	38535	C4 URI	929	229.064	109.260	5.579	1.00	48.52
ATOM	38483	C5' URI	927	234.006	117.274	7.794	1.00	52.32	Al6S	ATOM	38536	O4 URI	929	224.723	109.037	4.616	1.00	49.34
ATOM	38484	C4' URI	927	234.326	117.378	6.383	1.00	52.32	Al6S	ATOM	38537	C5 URI	929	223.519	109.218	3.895	1.00	49.34
ATOM	38485	O4' URI	927	233.645	115.698	4.885	1.00	49.70	Al6S	ATOM	38538	C2' URI	929	224.554	109.799	6.589	1.00	49.34
ATOM	38486	C1' URI	927	232.844	115.284	3.846	1.00	49.70	Al6S	ATOM	38539	O2' URI	929	223.302	107.230	6.909	1.00	54.64
ATOM	38487	N1 URI	927	233.849	115.886	3.507	1.00	49.70	Al6S	ATOM	38540	O3' URI	929	221.962	106.938	7.473	1.00	61.72
ATOM	38488	C6 URI	927	233.246	114.138	3.223	1.00	49.70	Al6S	ATOM	38541	O1P GUA	930	224.521	106.832	7.662	1.00	54.64
ATOM	38489	C2 URI	927	234.341	113.382	3.525	1.00	49.70	Al6S	ATOM	38542	O2P GUA	930	222.244	106.503	4.607	1.00	54.64
ATOM	38490	N3 URI	927	234.535	112.340	2.910	1.00	49.70	Al6S	ATOM	38543	O5' GUA	930	222.526	105.556	3.471	1.00	54.64
ATOM	38491	C4 URI	927	233.134	113.883	4.602	1.00	49.70	Al6S	ATOM	38544	C5' GUA	930	223.708	106.024	2.766	1.00	54.64
ATOM	38492	O4 URI	927	232.114	116.573	6.603	1.00	52.32	Al6S	ATOM	38545	C4' GUA	930	224.506	104.922	2.381	1.00	54.64
ATOM	38493	C5 URI	927	231.328	117.723	6.836	1.00	52.32	Al6S	ATOM	38546	O4' GUA	930					
ATOM	38494	C2' URI	927						Al6S	ATOM	38547	C1' GUA	930					
ATOM	38495	O2' URI	927						Al6S	ATOM	38548	O1' GUA	930					
ATOM	38496	O2' URI	927						Al6S	ATOM	38549	C1' GUA	930					

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ATOM	38550	N9	GUA	930	225.790	105.021	3.065	1.00	61.72	Al6S	ATOM	38603	C5	URI	932	227.084	99.515	7.809	1.00	60.29	AJ
ATOM	38551	C4	GUA	930	226.924	104.292	2.784	1.00	61.72	Al6S	ATOM	38604	C2' URI	932	229.817	95.909	7.026	1.00	59.54	AJ	
ATOM	38552	N3	GUA	930	227.047	103.361	1.818	1.00	61.72	Al6S	ATOM	38605	O2' URI	932	230.843	95.197	6.375	1.00	59.54	AJ	
ATOM	38553	C2	GUA	930	228.255	102.835	1.789	1.00	61.72	Al6S	ATOM	38606	C3' URI	932	228.471	95.257	6.783	1.00	59.54	AJ	
ATOM	38554	N2	GUA	930	228.545	101.888	0.885	1.00	61.72	Al6S	ATOM	38607	O3' URI	932	228.562	93.851	6.929	1.00	59.54	AJ	
ATOM	38555	N1	GUA	930	229.266	103.197	2.639	1.00	61.72	Al6S	ATOM	38608	P URI	933	228.323	93.188	8.373	1.00	67.21	AJ	
ATOM	38556	C6	GUA	930	229.164	104.154	3.638	1.00	61.72	Al6S	ATOM	38609	O1P URI	933	228.587	91.730	8.208	1.00	64.59	AJ	
ATOM	38557	O6	GUA	930	230.140	104.405	4.347	1.00	61.72	Al6S	ATOM	38610	O2P URI	933	227.023	93.656	8.929	1.00	64.59	AJ	
ATOM	38558	C5	GUA	930	227.870	104.725	3.683	1.00	61.72	Al6S	ATOM	38611	O5' URI	933	229.478	93.795	9.278	1.00	67.21	AJ	
ATOM	38559	N7	GUA	930	227.346	105.706	4.514	1.00	61.72	Al6S	ATOM	38612	C5' URI	933	230.834	93.468	9.029	1.00	67.21	AJ	
ATOM	38560	C8	GUA	930	226.112	105.849	4.110	1.00	61.72	Al6S	ATOM	38613	C4' URI	933	231.718	94.241	9.959	1.00	67.21	AJ	
ATOM	38561	C2' GUA	930	223.741	103.658	2.764	1.00	54.64	Al6S	ATOM	38614	O4' URI	933	231.495	95.656	9.736	1.00	67.21	AJ		
ATOM	38562	O2' GUA	930	222.955	103.246	1.674	1.00	54.64	Al6S	ATOM	38615	C1' URI	933	231.683	96.352	10.954	1.00	67.21	AJ		
ATOM	38563	C3' GUA	930	222.901	104.159	3.923	1.00	54.64	Al6S	ATOM	38616	N1 URI	933	230.454	97.075	11.290	1.00	64.59	AJ		
ATOM	38564	O3' GUA	930	221.750	103.360	4.111	1.00	54.64	Al6S	ATOM	38617	C6 URI	933	229.248	96.749	10.731	1.00	64.59	AJ		
ATOM	38565	P GUA	931	221.786	102.161	5.177	1.00	63.92	Al6S	ATOM	38618	C2 URI	933	230.561	98.095	12.203	1.00	64.59	AJ		
ATOM	38566	O1P GUA	931	220.545	101.357	4.964	1.00	62.16	Al6S	ATOM	38619	O2 URI	933	231.610	98.402	12.720	1.00	64.59	AJ		
ATOM	38567	O2P GUA	931	222.083	102.713	6.527	1.00	62.16	Al6S	ATOM	38620	N3 URI	933	229.392	98.738	12.495	1.00	64.59	AJ		
ATOM	38568	O5' GUA	931	223.016	101.269	4.703	1.00	63.92	Al6S	ATOM	38621	C4 URI	933	227.182	99.105	11.983	1.00	64.59	AJ		
ATOM	38569	C5' GUA	931	222.860	100.356	3.629	1.00	63.92	Al6S	ATOM	38622	O4 URI	933	228.120	97.389	11.039	1.00	64.59	AJ		
ATOM	38570	C4' GUA	931	224.184	99.740	3.270	1.00	63.92	Al6S	ATOM	38623	C5 URI	933	232.032	95.318	12.018	1.00	67.21	AJ		
ATOM	38571	O4' GUA	931	225.151	100.811	3.141	1.00	63.92	Al6S	ATOM	38624	C2' URI	933	233.433	95.152	12.110	1.00	67.21	AJ		
ATOM	38572	C1' GUA	931	226.433	100.335	3.500	1.00	63.92	Al6S	ATOM	38625	O2' URI	933	231.386	94.083	11.430	1.00	67.21	AJ		
ATOM	38573	N9	GUA	931	228.209	101.143	4.609	1.00	62.16	Al6S	ATOM	38626	C3' URI	933	231.979	92.931	11.985	1.00	67.21	AJ	
ATOM	38574	C4	GUA	931	229.258	100.533	4.545	1.00	62.16	Al6S	ATOM	38627	O3' URI	933	231.425	92.363	13.375	1.00	60.69	AJ	
ATOM	38575	N3	GUA	931	229.258	100.533	4.545	1.00	62.16	Al6S	ATOM	38628	P URI	934	232.318	91.237	13.750	1.00	69.54	AJ	
ATOM	38576	C2	GUA	931	230.371	100.792	5.199	1.00	62.16	Al6S	ATOM	38629	O1P URI	934	229.970	92.123	13.194	1.00	69.54	AJ	
ATOM	38577	N2	GUA	931	231.510	100.203	4.823	1.00	62.16	Al6S	ATOM	38630	O2P URI	934	232.880	95.094	15.831	1.00	60.69	AJ	
ATOM	38578	N1	GUA	931	230.449	101.645	6.269	1.00	62.16	Al6S	ATOM	38631	O5' URI	934	231.633	93.567	14.407	1.00	60.69	AJ	
ATOM	38579	C6	GUA	931	229.380	102.346	6.810	1.00	62.16	Al6S	ATOM	38632	C5' URI	934	232.945	93.953	14.831	1.00	60.69	AJ	
ATOM	38580	O6	GUA	931	229.556	103.083	7.775	1.00	62.16	Al6S	ATOM	38633	C4' URI	934	232.282	96.270	15.219	1.00	60.69	AJ	
ATOM	38581	C5	GUA	931	228.184	102.080	6.121	1.00	62.16	Al6S	ATOM	38634	O4' URI	934	231.505	96.969	16.181	1.00	60.69	AJ	
ATOM	38582	N7	GUA	931	226.901	102.563	6.330	1.00	62.16	Al6S	ATOM	38635	C1' URI	934	231.505	96.969	16.181	1.00	60.69	AJ	
ATOM	38583	C8	GUA	931	226.183	101.982	5.408	1.00	62.16	Al6S	ATOM	38636	N1 URI	934	230.107	96.930	15.746	1.00	69.54	AJ	
ATOM	38584	C2' GUA	931	226.280	98.861	3.868	1.00	63.92	Al6S	ATOM	38637	C6 URI	934	229.652	95.936	14.913	1.00	69.54	AJ		
ATOM	38585	O2' GUA	931	226.526	98.085	2.713	1.00	63.92	Al6S	ATOM	38638	C2 URI	934	229.264	97.920	16.204	1.00	69.54	AJ		
ATOM	38586	C3' GUA	931	224.820	98.820	4.298	1.00	63.92	Al6S	ATOM	38639	O2 URI	934	229.636	98.815	16.933	1.00	69.54	AJ		
ATOM	38587	O3' GUA	931	224.290	97.502	4.207	1.00	63.92	Al6S	ATOM	38640	N3 URI	934	227.966	97.822	15.771	1.00	69.54	AJ		
ATOM	38588	P URI	932	224.385	96.515	5.474	1.00	59.54	Al6S	ATOM	38641	C4 URI	934	227.442	96.855	14.934	1.00	69.54	AJ		
ATOM	38589	O1P URI	932	223.910	95.178	5.033	1.00	60.29	Al6S	ATOM	38642	O4 URI	934	226.256	96.916	14.603	1.00	69.54	AJ		
ATOM	38590	O2P URI	932	223.735	97.172	6.631	1.00	60.29	Al6S	ATOM	38643	C5 URI	934	228.384	95.866	14.502	1.00	69.54	AJ		
ATOM	38591	O5' URI	932	225.954	96.396	5.745	1.00	59.54	Al6S	ATOM	38644	C2' URI	934	231.703	96.268	17.524	1.00	60.69	AJ		
ATOM	38592	C5' URI	932	226.776	95.609	4.884	1.00	59.54	Al6S	ATOM	38645	O2' URI	934	232.747	96.907	18.223	1.00	60.69	AJ		
ATOM	38593	C4' URI	932	228.216	95.637	5.339	1.00	59.54	Al6S	ATOM	38646	C3' URI	934	232.044	94.850	17.077	1.00	60.69	AJ		
ATOM	38594	O4' URI	932	228.733	96.986	5.240	1.00	59.54	Al6S	ATOM	38647	O3' URI	934	232.796	94.139	18.056	1.00	60.69	AJ		
ATOM	38595	C1' URI	932	229.616	97.240	6.315	1.00	59.54	Al6S	ATOM	38648	P ADE	935	232.111	92.922	18.855	1.00	70.92	AJ		
ATOM	38596	N1 URI	932	228.991	98.245	7.183	1.00	60.29	Al6S	ATOM	38649	O1P ADE	935	233.195	91.985	19.262	1.00	82.23	AJ		
ATOM	38597	C6 URI	932	227.670	98.588	7.045	1.00	60.29	Al6S	ATOM	38650	O2P ADE	935	230.973	92.424	18.037	1.00	82.23	AJ		
ATOM	38598	C2 URI	932	229.782	98.842	8.144	1.00	60.29	Al6S	ATOM	38651	O5' ADE	935	231.515	93.615	20.160	1.00	70.92	AJ		
ATOM	38599	O2 URI	932	230.952	98.551	8.307	1.00	60.29	Al6S	ATOM	38652	C5' ADE	935	230.408	93.051	20.855	1.00	70.92	AJ		
ATOM	38600	N3 URI	932	229.151	99.791	8.910	1.00	60.29	Al6S	ATOM	38653	O4' ADE	935	229.821	94.074	21.797	1.00	70.92	AJ		
ATOM	38601	C4 URI	932	227.844	100.191	8.815	1.00	60.29	Al6S	ATOM	38654	O4' ADE	935	230.810	94.431	22.786	1.00	70.92	AJ		
ATOM	38602	O4 URI	932	227.448	101.118	9.513	1.00	60.29	Al6S	ATOM	38655	C1' ADE	935	230.723	95.807	23.073	1.00	70.92	AJ		

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ATOM	38656	N9	ADE	935	232.048	96.381	22.868	1.00	82.23	A16S	ATOM	38709	O2' URI	937	229.600	105.077	16.084	1.00	77.30
ATOM	38657	C4	ADE	935	232.600	97.423	23.567	1.00	82.23	A16S	ATOM	38710	C3' URI	937	227.940	103.278	15.970	1.00	77.30
ATOM	38658	N3	ADE	935	232.025	98.139	24.545	1.00	82.23	A16S	ATOM	38711	O3' URI	937	226.959	104.303	16.230	1.00	77.30
ATOM	38659	C2	ADE	935	232.866	99.056	25.009	1.00	82.23	A16S	ATOM	38712	P URI	938	227.289	105.558	17.220	1.00	63.55
ATOM	38660	N1	ADE	935	234.122	99.319	24.636	1.00	82.23	A16S	ATOM	38713	O1P URI	938	227.520	106.763	16.385	1.00	61.19
ATOM	38661	C6	ADE	935	234.670	98.582	23.651	1.00	82.23	A16S	ATOM	38714	O2P URI	938	228.284	105.183	18.259	1.00	61.19
ATOM	38662	N6	ADE	935	235.926	98.848	23.281	1.00	82.23	A16S	ATOM	38715	O5' URI	938	225.917	105.787	17.995	1.00	63.55
ATOM	38663	C5	ADE	935	233.878	97.575	23.072	1.00	82.23	A16S	ATOM	38716	C5' URI	938	225.356	104.734	18.778	1.00	63.55
ATOM	38664	N7	ADE	935	234.122	96.656	22.062	1.00	82.23	A16S	ATOM	38717	C4' URI	938	224.110	105.202	19.480	1.00	63.55
ATOM	38665	C8	ADE	935	233.005	95.978	21.978	1.00	82.23	A16S	ATOM	38718	O4' URI	938	224.426	106.383	20.263	1.00	63.55
ATOM	38666	C2' ADE	935	229.592	96.412	22.238	1.00	70.92	A16S	ATOM	38719	C1' URI	938	223.269	107.194	20.375	1.00	63.55	
ATOM	38667	O2' ADE	935	228.452	96.574	23.051	1.00	70.92	A16S	ATOM	38720	N1 URI	938	223.556	108.519	19.824	1.00	61.19	
ATOM	38668	C3' ADE	935	229.415	95.374	21.131	1.00	70.92	A16S	ATOM	38721	C6 URI	938	222.614	109.497	20.040	1.00	61.19	
ATOM	38669	O3' ADE	935	228.054	95.249	20.727	1.00	70.92	A16S	ATOM	38722	C2 URI	938	222.601	109.305	20.685	1.00	61.19	
ATOM	38670	P ADE	936	227.599	95.754	19.271	1.00	63.17	A16S	ATOM	38723	O2 URI	938	222.892	110.707	19.471	1.00	61.19	
ATOM	38671	O1P ADE	936	226.289	95.139	18.929	1.00	66.86	A16S	ATOM	38724	N3 URI	938	223.992	111.026	18.725	1.00	61.19	
ATOM	38672	O2P ADE	936	228.757	95.564	18.360	1.00	66.86	A16S	ATOM	38725	C4 URI	938	224.057	112.134	18.205	1.00	61.19	
ATOM	38673	O5' ADE	936	227.359	97.312	19.486	1.00	63.17	A16S	ATOM	38726	O4 URI	938	224.936	109.966	18.563	1.00	61.19	
ATOM	38674	C5' ADE	936	226.471	97.782	20.493	1.00	63.17	A16S	ATOM	38727	C5 URI	938	222.167	106.521	19.560	1.00	63.55	
ATOM	38675	C4' ADE	936	226.801	99.207	20.839	1.00	63.17	A16S	ATOM	38728	C2' URI	938	222.328	105.747	20.400	1.00	63.55	
ATOM	38676	O4' ADE	936	228.093	99.243	21.487	1.00	63.17	A16S	ATOM	38729	O2' URI	938	222.992	105.698	18.586	1.00	63.55	
ATOM	38677	C1' ADE	936	228.763	100.442	21.140	1.00	63.17	A16S	ATOM	38730	C3' URI	938	222.992	105.698	18.586	1.00	63.55	
ATOM	38678	N9	ADE	936	230.134	100.109	20.727	1.00	66.86	A16S	ATOM	38731	O3' URI	938	222.228	104.644	18.035	1.00	63.55
ATOM	38679	C4	ADE	936	231.285	100.564	21.329	1.00	66.86	A16S	ATOM	38732	P CYT	939	221.517	104.854	16.614	1.00	63.40
ATOM	38680	N3	ADE	936	231.384	101.389	22.387	1.00	66.86	A16S	ATOM	38733	O1P CYT	939	220.632	103.685	16.376	1.00	57.91
ATOM	38681	C2	ADE	936	232.661	101.594	22.707	1.00	66.86	A16S	ATOM	38734	O2P CYT	939	222.583	105.179	15.630	1.00	57.91
ATOM	38682	N1	ADE	936	233.770	101.115	22.130	1.00	66.86	A16S	ATOM	38735	O5' CYT	939	220.616	106.153	16.817	1.00	63.40
ATOM	38683	C6	ADE	936	233.639	100.295	21.065	1.00	66.86	A16S	ATOM	38736	C5' CYT	939	219.549	106.134	17.743	1.00	63.40
ATOM	38684	N6	ADE	936	234.746	99.826	20.485	1.00	66.86	A16S	ATOM	38737	C4' CYT	939	218.859	107.471	17.796	1.00	63.40
ATOM	38685	C5	ADE	936	232.330	99.986	20.631	1.00	66.86	A16S	ATOM	38738	O4' CYT	939	219.784	108.504	18.228	1.00	63.40
ATOM	38686	N7	ADE	936	231.849	99.183	19.605	1.00	66.86	A16S	ATOM	38739	C1' CYT	939	219.311	109.765	17.770	1.00	63.40
ATOM	38687	C8	ADE	936	230.548	99.293	19.701	1.00	66.86	A16S	ATOM	38740	N1 CYT	939	220.329	110.405	16.928	1.00	57.91
ATOM	38688	C2' ADE	936	227.904	101.196	20.117	1.00	63.17	A16S	ATOM	38741	C6 CYT	939	221.505	109.788	16.610	1.00	57.91	
ATOM	38689	O2' ADE	936	227.253	102.273	20.751	1.00	63.17	A16S	ATOM	38742	C2 CYT	939	220.045	111.672	16.435	1.00	57.91	
ATOM	38690	C3' ADE	936	226.949	100.105	19.625	1.00	63.17	A16S	ATOM	38743	O2 CYT	939	218.980	112.211	16.770	1.00	57.91	
ATOM	38691	O3' ADE	936	225.665	100.619	19.240	1.00	63.17	A16S	ATOM	38744	N3 CYT	939	220.923	112.278	15.610	1.00	57.91	
ATOM	38692	P URI	937	225.043	100.267	17.787	1.00	77.30	A16S	ATOM	38745	C4 CYT	939	222.056	111.664	15.284	1.00	57.91	
ATOM	38693	O1P URI	937	223.673	100.830	17.763	1.00	65.36	A16S	ATOM	38746	N4 CYT	939	222.876	112.293	14.453	1.00	57.91	
ATOM	38694	O2P URI	937	225.252	98.833	17.469	1.00	65.36	A16S	ATOM	38747	C5 CYT	939	222.390	110.377	15.795	1.00	57.91	
ATOM	38695	O5' URI	937	225.935	101.113	16.786	1.00	77.30	A16S	ATOM	38748	C2' CYT	939	218.069	109.484	16.928	1.00	63.40	
ATOM	38696	C5' URI	937	227.338	100.993	16.837	1.00	77.30	A16S	ATOM	38749	O2' CYT	939	216.923	109.622	17.742	1.00	63.40	
ATOM	38697	O4' URI	937	227.972	102.321	17.146	1.00	77.30	A16S	ATOM	38750	C3' CYT	939	218.337	108.050	16.499	1.00	63.40	
ATOM	38698	C4' URI	937	229.336	102.095	17.518	1.00	77.30	A16S	ATOM	38751	O3' CYT	939	217.156	107.410	16.054	1.00	63.40	
ATOM	38699	C1' URI	937	230.184	102.811	16.664	1.00	77.30	A16S	ATOM	38752	P GUA	940	216.921	107.184	14.475	1.00	56.16	
ATOM	38700	N1 URI	937	231.188	101.870	16.154	1.00	65.36	A16S	ATOM	38753	O1P GUA	940	215.745	106.280	14.394	1.00	50.36	
ATOM	38701	C6 URI	937	232.395	101.761	15.798	1.00	65.36	A16S	ATOM	38754	O2P GUA	940	218.185	106.792	13.801	1.00	50.36	
ATOM	38702	C2 URI	937	230.893	101.100	15.054	1.00	65.36	A16S	ATOM	38755	O5' GUA	940	216.517	108.624	13.933	1.00	56.16	
ATOM	38703	O2 URI	937	229.846	101.187	14.441	1.00	65.36	A16S	ATOM	38756	C5' GUA	940	215.308	109.210	14.339	1.00	56.16	
ATOM	38704	N3 URI	937	231.879	100.215	14.702	1.00	65.36	A16S	ATOM	38757	C4' GUA	940	215.382	110.698	14.203	1.00	56.16	
ATOM	38705	C4 URI	937	233.103	100.042	15.326	1.00	65.36	A16S	ATOM	38758	O4' GUA	940	216.662	111.154	14.716	1.00	56.16	
ATOM	38706	O4 URI	937	233.859	99.156	14.944	1.00	65.36	A16S	ATOM	38759	C1' GUA	940	217.053	112.334	14.032	1.00	56.16	
ATOM	38707	C5 URI	937	233.332	100.899	16.431	1.00	65.36	A16S	ATOM	38760	N9 GUA	940	218.284	112.047	13.309	1.00	50.36	
ATOM	38708	C2' URI	937	229.380	103.738	15.749	1.00	77.30	A16S	ATOM	38761	C4 GUA	940	218.973	112.908	12.498	1.00	50.36	

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ATOM	38762	N3	GUA	940	218.640	114.185	12.234	1.00	50.36	Al6S	ATOM	38815	C2' ADE	942	214.245	110.527	2.087	1.00	54.65	Al1
ATOM	38763	C2	GUA	940	219.510	114.760	11.425	1.00	50.36	Al6S	ATOM	38816	O2' ADE	942	214.293	110.083	0.746	1.00	54.65	Al1
ATOM	38764	N2	GUA	940	219.356	116.038	11.093	1.00	50.36	Al6S	ATOM	38817	C3' ADE	942	213.271	111.664	2.394	1.00	54.65	Al1
ATOM	38765	N1	GUA	940	220.600	114.123	10.893	1.00	50.36	Al6S	ATOM	38818	O3' ADE	942	212.163	111.918	1.520	1.00	54.65	Al1
ATOM	38766	C6	GUA	940	220.949	112.801	11.146	1.00	50.36	Al6S	ATOM	38819	P GUA	943	212.341	111.915	-0.089	1.00	45.60	Al1
ATOM	38767	O6	GUA	940	221.940	112.309	10.610	1.00	50.36	Al6S	ATOM	38820	O1P GUA	943	212.648	110.536	-0.547	1.00	50.88	Al1
ATOM	38768	C5	GUA	940	220.047	112.186	12.030	1.00	50.36	Al6S	ATOM	38821	O2P GUA	943	211.163	112.611	-0.650	1.00	50.88	Al1
ATOM	38769	N7	GUA	940	220.039	110.900	12.543	1.00	50.36	Al6S	ATOM	38822	O5' GUA	943	213.579	112.863	-0.411	1.00	45.60	Al1
ATOM	38770	C8	GUA	940	218.974	110.862	13.295	1.00	50.36	Al6S	ATOM	38823	C5' GUA	943	214.712	112.354	-1.110	1.00	45.60	Al1
ATOM	38771	C2'	GUA	940	215.909	112.658	13.075	1.00	56.16	Al6S	ATOM	38824	C4' GUA	943	214.872	113.032	-2.454	1.00	45.60	Al1
ATOM	38772	O2'	GUA	940	214.973	113.453	13.775	1.00	56.16	Al6S	ATOM	38825	O4' GUA	943	213.904	112.560	-3.430	1.00	45.60	Al1
ATOM	38773	C3'	GUA	940	215.375	111.261	12.800	1.00	56.16	Al6S	ATOM	38826	C1' GUA	943	213.739	113.553	-4.436	1.00	45.60	Al1
ATOM	38774	O3'	GUA	940	214.057	111.291	12.283	1.00	56.16	Al6S	ATOM	38827	N9 GUA	943	212.318	113.817	-4.624	1.00	50.88	Al1
ATOM	38775	P ADE	941	213.804	111.010	10.719	1.00	55.84	Al6S	ATOM	38828	C4 GUA	943	211.745	114.605	-5.604	1.00	50.88	Al1	
ATOM	38776	O1P ADE	941	212.326	111.145	10.472	1.00	49.64	Al6S	ATOM	38829	N3 GUA	943	212.397	115.273	-6.579	1.00	50.88	Al1	
ATOM	38777	O2P ADE	941	214.498	109.753	10.339	1.00	49.64	Al6S	ATOM	38830	C2 GUA	943	211.562	115.931	-7.373	1.00	50.88	Al1	
ATOM	38778	O5' ADE	941	214.529	112.223	9.996	1.00	55.84	Al6S	ATOM	38831	N2 GUA	943	212.025	116.645	-8.413	1.00	50.88	Al1	
ATOM	38779	C5' ADE	941	213.934	113.507	9.976	1.00	55.84	Al6S	ATOM	38832	N1 GUA	943	210.212	115.933	-7.211	1.00	50.88	Al1	
ATOM	38780	C4' ADE	941	214.717	114.410	9.066	1.00	55.84	Al6S	ATOM	38833	C6 GUA	943	209.528	115.252	-6.213	1.00	50.88	Al1	
ATOM	38781	O4' ADE	941	216.070	114.519	9.581	1.00	55.84	Al6S	ATOM	38834	O6 GUA	943	208.301	115.315	-6.157	1.00	50.88	Al1	
ATOM	38782	C1' ADE	941	216.988	114.498	8.515	1.00	55.84	Al6S	ATOM	38835	C5 GUA	943	210.396	114.549	-5.367	1.00	50.88	Al1	
ATOM	38783	N9 ADE	941	217.758	113.265	8.653	1.00	49.64	Al6S	ATOM	38836	N7 GUA	943	210.119	113.753	-4.266	1.00	50.88	Al1	
ATOM	38784	C4 ADE	941	218.892	112.924	7.962	1.00	49.64	Al6S	ATOM	38837	C8 GUA	943	211.287	113.339	-3.860	1.00	50.88	Al1	
ATOM	38785	N3 ADE	941	219.520	113.651	7.024	1.00	49.64	Al6S	ATOM	38838	C2' GUA	943	214.492	114.797	-3.965	1.00	45.60	Al1	
ATOM	38786	C2 ADE	941	220.585	113.002	6.571	1.00	49.64	Al6S	ATOM	38839	O2' GUA	943	215.727	114.880	-4.640	1.00	45.60	Al1	
ATOM	38787	N1 ADE	941	221.056	111.797	6.918	1.00	49.64	Al6S	ATOM	38840	C3' GUA	943	215.747	115.210	-1.950	1.00	45.60	Al1	
ATOM	38788	C6 ADE	941	220.395	111.092	7.856	1.00	49.64	Al6S	ATOM	38841	P CYT	944	215.564	116.729	-1.517	1.00	41.07	Al1	
ATOM	38789	N6 ADE	941	220.854	109.885	8.181	1.00	49.64	Al6S	ATOM	38842	O3' GUA	943	216.893	117.183	-1.035	1.00	59.65	Al1	
ATOM	38790	C5 ADE	941	219.255	111.673	8.426	1.00	49.64	Al6S	ATOM	38843	O1P CYT	944	215.693	117.183	-1.035	1.00	59.65	Al1	
ATOM	38791	N7 ADE	941	218.370	111.234	9.398	1.00	49.64	Al6S	ATOM	38844	O2P CYT	944	214.382	116.794	-0.617	1.00	59.65	Al1	
ATOM	38792	C8 ADE	941	217.504	112.212	9.496	1.00	49.64	Al6S	ATOM	38845	O5' CYT	944	215.207	117.503	-2.865	1.00	41.07	Al1	
ATOM	38793	C2' ADE	941	216.172	114.610	7.222	1.00	55.84	Al6S	ATOM	38846	C5' CYT	944	215.234	117.103	-3.633	1.00	41.07	Al1	
ATOM	38794	O2' ADE	941	215.960	115.971	6.915	1.00	55.84	Al6S	ATOM	38847	C4' CYT	944	215.645	119.033	-4.649	1.00	41.07	Al1	
ATOM	38795	C3' ADE	941	214.866	113.939	7.630	1.00	55.84	Al6S	ATOM	38848	O4' CYT	944	214.619	118.304	-5.357	1.00	41.07	Al1	
ATOM	38796	O3' ADE	941	213.761	114.420	6.854	1.00	55.84	Al6S	ATOM	38849	C1' CYT	944	213.562	119.176	-5.704	1.00	41.07	Al1	
ATOM	38797	P ADE	942	212.798	113.379	6.086	1.00	54.65	Al6S	ATOM	38850	N1 CYT	944	212.333	118.661	-5.096	1.00	59.65	Al1	
ATOM	38798	O1P ADE	942	211.595	114.122	5.623	1.00	63.15	Al6S	ATOM	38851	C6 CYT	944	212.375	117.880	-3.973	1.00	59.65	Al1	
ATOM	38799	O2P ADE	942	212.641	112.171	6.933	1.00	63.15	Al6S	ATOM	38852	C2 CYT	944	211.122	118.991	-5.676	1.00	59.65	Al1	
ATOM	38800	O5' ADE	942	213.643	112.962	4.806	1.00	54.65	Al6S	ATOM	38853	C2 CYT	944	211.128	119.689	-6.706	1.00	59.65	Al1	
ATOM	38801	C5' ADE	942	213.668	113.769	3.626	1.00	54.65	Al6S	ATOM	38854	N3 CYT	944	209.975	118.549	-5.108	1.00	59.65	Al1	
ATOM	38802	C4' ADE	942	214.110	112.919	2.474	1.00	54.65	Al6S	ATOM	38855	C4 CYT	944	210.023	117.808	-3.998	1.00	59.65	Al1	
ATOM	38803	O4' ADE	942	215.471	112.501	2.705	1.00	54.65	Al6S	ATOM	38856	N4 CYT	944	208.871	117.424	-3.451	1.00	59.65	Al1	
ATOM	38804	C1' ADE	942	215.596	111.111	2.529	1.00	63.15	Al6S	ATOM	38857	C5 CYT	944	211.254	117.437	-3.396	1.00	59.65	Al1	
ATOM	38805	N9 ADE	942	216.178	110.588	3.754	1.00	63.15	Al6S	ATOM	38858	C2' CYT	944	213.938	120.577	-5.223	1.00	41.07	Al1	
ATOM	38806	C4 ADE	942	217.299	109.805	3.887	1.00	63.15	Al6S	ATOM	38859	O2' CYT	944	214.479	121.287	-6.313	1.00	41.07	Al1	
ATOM	38807	N3 ADE	942	218.085	109.322	2.912	1.00	63.15	Al6S	ATOM	38860	C3' CYT	944	214.944	120.272	-4.111	1.00	41.07	Al1	
ATOM	38808	C2 ADE	942	219.083	108.611	3.430	1.00	63.15	Al6S	ATOM	38861	P CYT	944	215.906	121.320	-3.975	1.00	41.07	Al1	
ATOM	38809	N1 ADE	942	219.359	108.349	4.706	1.00	63.15	Al6S	ATOM	38862	O3' ADE	945	215.845	122.320	-2.724	1.00	66.67	Al1	
ATOM	38810	C6 ADE	942	218.542	108.848	5.655	1.00	63.15	Al6S	ATOM	38863	O1P ADE	945	214.754	123.261	-3.037	1.00	62.55	Al1	
ATOM	38811	N6 ADE	942	218.797	108.585	6.933	1.00	63.15	Al6S	ATOM	38864	O2P ADE	945	217.210	122.837	-2.525	1.00	62.55	Al1	
ATOM	38812	C5 ADE	942	217.462	109.617	5.243	1.00	63.15	Al6S	ATOM	38865	O5' ADE	945	215.474	121.381	-1.482	1.00	66.67	Al1	
ATOM	38813	N7 ADE	942	216.465	110.261	5.952	1.00	63.15	Al6S	ATOM	38866	C5' ADE	945	215.471	121.855	-0.118	1.00	66.67	Al1	
ATOM	38814	C8 ADE	942	215.728	110.814	5.023	1.00	63.15	Al6S	ATOM	38867	C4' ADE	945	214.208	121.388	0.570	1.00	66.67	Al1	

ATOM	38868	O4' ADE	945	213.131	121.905	-0.222	1.00	66.67	Al6S	ATOM	38921	C5' CYT	947	221.220	115.683	0.177	1.00	76.01
ATOM	38869	C1' ADE	945	212.102	120.964	-0.275	1.00	66.67	Al6S	ATOM	38922	C2' CYT	947	224.472	114.805	3.084	1.00	38.64
ATOM	38870	N9 ADE	945	211.427	121.068	-1.558	1.00	62.55	Al6S	ATOM	38923	O2' CYT	947	225.153	114.178	4.149	1.00	38.64
ATOM	38871	C4 ADE	945	210.108	120.763	-1.765	1.00	62.55	Al6S	ATOM	38924	C3' CYT	947	224.065	116.223	3.444	1.00	38.64
ATOM	38872	N3 ADE	945	209.237	120.283	-0.864	1.00	62.55	Al6S	ATOM	38925	O3' CYT	947	225.112	116.932	4.080	1.00	38.64
ATOM	38873	C2 ADE	945	208.036	120.145	-1.406	1.00	62.55	Al6S	ATOM	38926	P' GUA	948	225.517	118.378	3.533	1.00	57.17
ATOM	38874	N1 ADE	945	207.636	120.408	-2.654	1.00	62.55	Al6S	ATOM	38927	O1P GUA	948	224.474	119.347	3.960	1.00	75.64
ATOM	38875	C6 ADE	945	208.539	120.882	-3.535	1.00	62.55	Al6S	ATOM	38928	O2P GUA	948	226.871	118.239	2.091	1.00	75.64
ATOM	38876	N6 ADE	945	208.140	121.139	-4.778	1.00	62.55	Al6S	ATOM	38929	O5' GUA	948	226.871	118.752	5.302	1.00	57.17
ATOM	38877	C5 ADE	945	209.852	121.075	-3.081	1.00	62.55	Al6S	ATOM	38930	C5' GUA	948	226.911	118.752	4.709	1.00	57.17
ATOM	38878	N7 ADE	945	211.003	121.544	-3.704	1.00	62.55	Al6S	ATOM	38931	C4' GUA	948	227.793	119.894	6.123	1.00	57.17
ATOM	38879	C8 ADE	945	211.908	121.508	-2.759	1.00	62.55	Al6S	ATOM	38932	O4' GUA	948	229.166	119.636	5.775	1.00	57.17
ATOM	38880	O2' ADE	945	212.619	119.590	0.140	1.00	66.67	Al6S	ATOM	38933	C1' GUA	948	229.832	120.866	5.830	1.00	57.17
ATOM	38881	O2' ADE	945	211.809	119.070	0.172	1.00	66.67	Al6S	ATOM	38934	N9 GUA	948	231.037	120.867	5.026	1.00	75.64
ATOM	38882	C3' ADE	945	214.051	119.866	0.602	1.00	66.67	Al6S	ATOM	38935	C4' GUA	948	232.278	120.747	5.546	1.00	75.64
ATOM	38883	O3' ADE	945	214.009	119.326	1.931	1.00	66.67	Al6S	ATOM	38936	N3 GUA	948	232.553	120.560	6.844	1.00	75.64
ATOM	38884	P' ADE	946	215.107	119.708	3.041	1.00	52.69	Al6S	ATOM	38937	C2' GUA	948	233.840	120.508	7.071	1.00	75.64
ATOM	38885	O1P ADE	946	214.602	119.104	4.292	1.00	42.79	Al6S	ATOM	38938	N2 GUA	948	234.262	120.311	8.307	1.00	75.64
ATOM	38886	O2P ADE	946	215.432	121.162	3.024	1.00	42.79	Al6S	ATOM	38939	N1 GUA	948	234.802	120.640	6.098	1.00	75.64
ATOM	38887	O5' ADE	946	216.361	118.821	2.627	1.00	52.69	Al6S	ATOM	38940	C6 GUA	948	234.543	120.841	4.743	1.00	75.64
ATOM	38888	C5' ADE	946	216.212	117.417	2.434	1.00	52.69	Al6S	ATOM	38941	O6 GUA	948	235.486	120.962	3.938	1.00	75.64
ATOM	38889	C4' ADE	946	217.002	116.660	3.470	1.00	52.69	Al6S	ATOM	38942	C5 GUA	948	233.140	120.887	4.489	1.00	75.64
ATOM	38890	O4' ADE	946	216.682	115.251	3.358	1.00	52.69	Al6S	ATOM	38943	N7 GUA	948	232.437	121.069	3.607	1.00	75.64
ATOM	38891	C1' ADE	946	217.853	114.475	3.569	1.00	52.69	Al6S	ATOM	38944	C8 GUA	948	231.186	121.039	3.676	1.00	75.64
ATOM	38892	N9 ADE	946	218.199	113.825	2.308	1.00	42.79	Al6S	ATOM	38945	C2' GUA	948	228.833	121.994	5.582	1.00	57.17
ATOM	38893	C4 ADE	946	219.097	112.802	2.156	1.00	42.79	Al6S	ATOM	38946	O2' GUA	948	228.891	122.829	6.722	1.00	57.17
ATOM	38894	N3 ADE	946	219.827	112.215	3.116	1.00	42.79	Al6S	ATOM	38947	C3' GUA	948	227.502	121.242	5.481	1.00	57.17
ATOM	38895	C2 ADE	946	220.587	111.246	2.601	1.00	42.79	Al6S	ATOM	38948	O3' GUA	948	226.614	121.916	6.357	1.00	57.17
ATOM	38896	N1 ADE	946	220.691	110.836	1.335	1.00	42.79	Al6S	ATOM	38949	P' CYT	949	225.693	123.113	5.842	1.00	46.98
ATOM	38897	C6 ADE	946	219.947	111.460	0.395	1.00	42.79	Al6S	ATOM	38950	O1P CYT	949	225.623	123.116	4.361	1.00	43.28
ATOM	38898	N6 ADE	946	220.096	111.068	-0.876	1.00	42.79	Al6S	ATOM	38951	O2P CYT	949	226.025	124.365	6.541	1.00	43.28
ATOM	38899	C5 ADE	946	219.096	112.497	0.813	1.00	42.79	Al6S	ATOM	38952	O5' CYT	949	224.307	122.628	6.430	1.00	46.98
ATOM	38900	N7 ADE	946	218.215	113.319	0.121	1.00	42.79	Al6S	ATOM	38953	C5' CYT	949	222.726	121.024	7.236	1.00	46.98
ATOM	38901	C8 ADE	946	217.711	114.087	1.052	1.00	42.79	Al6S	ATOM	38954	C4' CYT	949	222.128	119.824	6.630	1.00	46.98
ATOM	38902	C2' ADE	946	218.945	115.433	4.035	1.00	52.69	Al6S	ATOM	38955	O4' CYT	949	221.321	119.223	7.676	1.00	46.98
ATOM	38903	O2' ADE	946	218.903	115.516	5.445	1.00	52.69	Al6S	ATOM	38956	C1' CYT	949	221.928	117.943	8.028	1.00	43.28
ATOM	38904	C3' ADE	946	218.517	116.709	3.324	1.00	52.69	Al6S	ATOM	38957	N1 CYT	949	223.222	117.653	7.700	1.00	43.28
ATOM	38905	O3' ADE	946	219.070	117.884	3.902	1.00	52.69	Al6S	ATOM	38958	C6 CYT	949	221.156	117.026	8.715	1.00	43.28
ATOM	38906	P' ADE	947	220.310	118.611	3.183	1.00	38.64	Al6S	ATOM	38959	C2 CYT	949	219.985	117.330	8.961	1.00	43.28
ATOM	38907	O1P CYT	947	220.725	119.765	4.025	1.00	76.01	Al6S	ATOM	38960	O2 CYT	949	221.692	115.837	9.084	1.00	43.28
ATOM	38908	O2P CYT	947	219.977	118.836	1.745	1.00	76.01	Al6S	ATOM	38961	N3 CYT	949	222.953	115.560	8.761	1.00	43.28
ATOM	38909	O5' CYT	947	221.471	117.528	3.296	1.00	38.64	Al6S	ATOM	38962	C4 CYT	949	223.450	114.383	9.130	1.00	43.28
ATOM	38910	C5' CYT	947	222.937	117.101	4.567	1.00	38.64	Al6S	ATOM	38963	N4 CYT	949	223.768	116.484	8.042	1.00	43.28
ATOM	38911	C4' CYT	947	222.926	115.971	4.413	1.00	38.64	Al6S	ATOM	38964	C5 CYT	949	221.299	120.184	8.864	1.00	46.98
ATOM	38912	O4' CYT	947	222.260	114.798	3.884	1.00	38.64	Al6S	ATOM	38965	C2' CYT	949	222.669	120.825	8.616	1.00	46.98
ATOM	38913	C1' CYT	947	223.104	114.150	2.948	1.00	38.64	Al6S	ATOM	38966	O2' CYT	949	222.744	122.065	9.434	1.00	46.98
ATOM	38914	N1 CYT	947	222.509	114.354	1.627	1.00	76.01	Al6S	ATOM	38967	C3' CYT	949	223.420	122.117	10.895	1.00	48.44
ATOM	38915	C6 CYT	947	221.826	115.504	1.350	1.00	76.01	Al6S	ATOM	38968	O3' CYT	950	223.697	123.543	11.215	1.00	44.36
ATOM	38916	C2 CYT	947	222.623	113.360	0.675	1.00	76.01	Al6S	ATOM	38969	P' GUA	950	224.525	121.137	10.936	1.00	44.36
ATOM	38917	O2 CYT	947	223.306	112.356	0.928	1.00	76.01	Al6S	ATOM	38970	O1P GUA	950	222.275	121.580	11.858	1.00	48.44
ATOM	38918	N3 CYT	947	221.998	113.518	-0.511	1.00	76.01	Al6S	ATOM	38971	O2P GUA	950	221.060	122.305	12.009	1.00	48.44
ATOM	38919	C4 CYT	947	221.311	114.632	-0.765	1.00	76.01	Al6S	ATOM	38972	O5' GUA	950					
ATOM	38920	N4 CYT	947	220.693	114.738	-1.944	1.00	76.01	Al6S	ATOM	38973	C5' GUA	950					

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ATOM	38974	C4' GUA	950	220.284	121.786	13.198	1.00	48.44	ALIS	ATOM	39027	C6 ADE	952	226.275	131.489	12.089	1.00	47.44	A
ATOM	38975	O4' GUA	950	219.670	120.500	12.909	1.00	48.44	ALIS	ATOM	39028	N6 ADE	952	226.134	131.616	10.771	1.00	47.44	A
ATOM	38976	C1' GUA	950	219.736	119.669	14.057	1.00	48.44	ALIS	ATOM	39029	C5 ADE	952	226.503	130.274	12.731	1.00	47.44	A
ATOM	38977	N9 GUA	950	220.665	118.590	13.755	1.00	44.36	ALIS	ATOM	39030	N7 ADE	952	226.620	128.981	12.254	1.00	47.44	A
ATOM	38978	C4 GUA	950	220.612	117.274	14.179	1.00	44.36	ALIS	ATOM	39031	C8 ADE	952	226.851	128.275	13.338	1.00	47.44	A
ATOM	38979	N3 GUA	950	219.668	116.720	14.969	1.00	44.36	ALIS	ATOM	39032	C2' ADE	952	226.343	127.769	16.645	1.00	49.60	A
ATOM	38980	C2 GUA	950	219.905	115.427	15.193	1.00	44.36	ALIS	ATOM	39033	O2' ADE	952	226.515	128.084	18.000	1.00	49.60	A
ATOM	38981	N2 GUA	950	219.082	114.715	15.960	1.00	44.36	ALIS	ATOM	39034	C3' ADE	952	226.834	126.364	16.319	1.00	49.60	A
ATOM	38982	N1 GUA	950	220.968	114.738	14.681	1.00	44.36	ALIS	ATOM	39035	O3' ADE	952	226.806	125.436	17.416	1.00	49.60	A
ATOM	38983	C6 GUA	950	221.945	115.280	13.863	1.00	44.36	ALIS	ATOM	39036	P GUA	953	227.728	125.699	18.720	1.00	44.29	A
ATOM	38984	O6 GUA	950	222.855	114.563	13.444	1.00	44.36	ALIS	ATOM	39037	O1P GUA	953	226.834	125.767	19.888	1.00	72.92	A
ATOM	38985	C5 GUA	950	221.717	116.667	13.619	1.00	44.36	ALIS	ATOM	39038	O2P GUA	953	228.639	126.822	18.446	1.00	72.92	A
ATOM	38986	N7 GUA	950	222.445	117.576	12.867	1.00	44.36	ALIS	ATOM	39039	O5' GUA	953	228.617	124.383	18.859	1.00	44.29	A
ATOM	38987	C8 GUA	950	221.784	118.698	12.975	1.00	44.36	ALIS	ATOM	39040	C5' GUA	953	229.145	123.727	17.711	1.00	44.29	A
ATOM	38988	O2' GUA	950	220.234	120.561	15.196	1.00	48.44	ALIS	ATOM	39041	C4' GUA	953	230.620	123.459	17.884	1.00	44.29	A
ATOM	38989	C2' GUA	950	219.127	121.229	15.763	1.00	48.44	ALIS	ATOM	39042	O4' GUA	953	231.431	124.615	17.649	1.00	44.29	A
ATOM	38990	C3' GUA	950	221.120	121.536	14.436	1.00	48.44	ALIS	ATOM	39043	C1' GUA	953	232.683	124.327	18.210	1.00	44.29	A
ATOM	38991	O3' GUA	950	221.340	122.772	15.109	1.00	48.44	ALIS	ATOM	39044	N9 GUA	953	233.555	125.486	18.192	1.00	72.92	A
ATOM	38992	P ADE	951	222.017	122.785	16.561	1.00	63.28	ALIS	ATOM	39045	C4 GUA	953	234.671	125.614	17.409	1.00	72.92	A
ATOM	38993	O1P ADE	951	222.158	121.373	17.028	1.00	41.07	ALIS	ATOM	39046	N3 GUA	953	235.131	124.697	16.537	1.00	72.92	A
ATOM	38994	O2P ADE	951	221.205	123.748	17.342	1.00	41.07	ALIS	ATOM	39047	C2 GUA	953	236.227	125.103	15.929	1.00	72.92	A
ATOM	38995	O5' ADE	951	223.459	123.436	16.372	1.00	63.28	ALIS	ATOM	39048	N2 GUA	953	236.816	124.308	15.032	1.00	72.92	A
ATOM	38996	C5' ADE	951	224.127	123.370	15.129	1.00	63.28	ALIS	ATOM	39049	N1 GUA	953	236.824	126.318	16.160	1.00	72.92	A
ATOM	38997	C4' ADE	951	225.472	122.712	15.288	1.00	63.28	ALIS	ATOM	39050	C6 GUA	953	236.361	127.278	17.060	1.00	72.92	A
ATOM	38998	O4' ADE	951	225.379	121.614	16.223	1.00	63.28	ALIS	ATOM	39051	O6 GUA	953	236.973	128.350	17.206	1.00	72.92	A
ATOM	38999	C1' ADE	951	226.092	120.501	15.734	1.00	63.28	ALIS	ATOM	39052	C5 GUA	953	235.188	126.849	17.712	1.00	72.92	A
ATOM	39000	N9 ADE	951	225.559	117.993	15.755	1.00	41.07	ALIS	ATOM	39053	N7 GUA	953	234.409	127.486	18.664	1.00	72.92	A
ATOM	39001	C4 ADE	951	225.524	119.325	15.850	1.00	41.07	ALIS	ATOM	39054	C8 GUA	953	233.454	126.636	18.922	1.00	72.92	A
ATOM	39002	N3 ADE	951	226.750	117.466	15.430	1.00	41.07	ALIS	ATOM	39055	C2' GUA	953	232.407	123.612	19.529	1.00	44.29	A
ATOM	39003	C2 ADE	951	226.717	116.139	15.513	1.00	41.07	ALIS	ATOM	39056	O2' GUA	953	233.490	122.765	19.860	1.00	44.29	A
ATOM	39004	N1 ADE	951	225.707	115.338	15.862	1.00	41.07	ALIS	ATOM	39057	C3' GUA	953	231.074	122.907	19.226	1.00	44.29	A
ATOM	39005	C6 ADE	951	224.521	115.903	16.176	1.00	41.07	ALIS	ATOM	39058	O3' GUA	954	231.399	121.555	18.979	1.00	44.29	A
ATOM	39006	N6 ADE	951	223.510	115.110	16.537	1.00	41.07	ALIS	ATOM	39059	P ADE	954	230.631	120.395	19.733	1.00	48.11	A
ATOM	39007	C7 ADE	951	224.424	117.295	16.115	1.00	41.07	ALIS	ATOM	39060	O1P ADE	954	229.225	120.488	19.263	1.00	78.90	A
ATOM	39008	N7 ADE	951	223.374	118.158	16.364	1.00	41.07	ALIS	ATOM	39061	O2P ADE	954	230.926	120.437	21.191	1.00	78.90	A
ATOM	39009	C8 ADE	951	226.739	120.869	14.393	1.00	63.28	ALIS	ATOM	39062	O5' ADE	954	231.282	119.077	19.129	1.00	48.11	A
ATOM	39010	C2' ADE	951	226.739	120.869	14.393	1.00	63.28	ALIS	ATOM	39063	C5' ADE	954	232.600	118.694	19.463	1.00	48.11	A
ATOM	39011	O2' ADE	951	228.108	121.098	14.622	1.00	63.28	ALIS	ATOM	39064	C4' ADE	954	232.559	117.447	20.293	1.00	48.11	A
ATOM	39012	C3' ADE	951	225.955	122.116	13.985	1.00	63.28	ALIS	ATOM	39065	O4' ADE	954	231.711	116.473	19.651	1.00	48.11	A
ATOM	39013	O3' ADE	951	226.546	123.143	13.166	1.00	63.28	ALIS	ATOM	39066	C1' ADE	954	232.107	115.182	20.065	1.00	48.11	A
ATOM	39014	P ADE	952	228.071	123.645	13.388	1.00	49.60	ALIS	ATOM	39067	N9 ADE	954	232.163	114.293	18.905	1.00	78.90	A
ATOM	39015	O1P ADE	952	228.243	124.680	12.339	1.00	47.44	ALIS	ATOM	39068	C4 ADE	954	233.199	114.118	18.020	1.00	78.90	A
ATOM	39016	O2P ADE	952	229.069	122.571	13.503	1.00	47.44	ALIS	ATOM	39069	N3 ADE	954	234.382	114.751	18.012	1.00	78.90	A
ATOM	39017	O5' ADE	952	228.085	124.469	14.739	1.00	49.60	ALIS	ATOM	39070	C2 ADE	954	235.140	114.311	17.012	1.00	78.90	A
ATOM	39018	C5' ADE	952	228.707	125.748	14.750	1.00	49.60	ALIS	ATOM	39071	N1 ADE	954	234.871	113.382	16.090	1.00	78.90	A
ATOM	39019	C4' ADE	952	228.290	126.536	15.956	1.00	49.60	ALIS	ATOM	39072	C6 ADE	954	233.672	112.767	16.125	1.00	78.90	A
ATOM	39020	O4' ADE	952	228.500	127.939	15.705	1.00	49.60	ALIS	ATOM	39073	N6 ADE	954	233.402	111.840	15.207	1.00	78.90	A
ATOM	39021	C1' ADE	952	227.296	128.638	15.835	1.00	49.60	ALIS	ATOM	39074	C5 ADE	954	232.776	112.743	17.133	1.00	78.90	A
ATOM	39022	N9 ADE	952	226.921	129.033	14.490	1.00	47.44	ALIS	ATOM	39075	N7 ADE	954	231.491	112.720	17.442	1.00	78.90	A
ATOM	39023	C4 ADE	952	226.654	130.310	14.112	1.00	47.44	ALIS	ATOM	39076	C8 ADE	954	231.172	113.333	18.493	1.00	78.90	A
ATOM	39024	N3 ADE	952	226.593	131.376	14.913	1.00	47.44	ALIS	ATOM	39077	C2' ADE	954	233.392	115.320	20.882	1.00	48.11	A
ATOM	39025	C2 ADE	952	226.363	132.467	14.198	1.00	47.44	ALIS	ATOM	39078	O2' ADE	954	233.047	115.288	22.252	1.00	48.11	A
ATOM	39026	N1 ADE	952	226.204	132.597	12.860	1.00	47.44	ALIS	ATOM	39079	C3' ADE	954	233.869	116.709	20.485	1.00	48.11	A

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ATOM	39080	O3' ADE	954	234.592	117.293	21.557	1.00	48.11	A16S	ATOM	39133	C2' CYT	957	232.867	119.000	27.543	1.00	71.08	
ATOM	39081	P ADE	955	236.182	117.406	21.472	1.00	63.00	A16S	ATOM	39134	O2' CYT	957	232.621	119.952	28.301	1.00	71.08	
ATOM	39082	O1P ADE	955	236.584	118.621	22.215	1.00	59.65	A16S	ATOM	39135	N3 CYT	957	233.098	119.182	26.226	1.00	71.08	
ATOM	39083	O2P ADE	955	236.557	117.264	20.048	1.00	59.65	A16S	ATOM	39136	C4' CYT	957	233.354	118.134	25.443	1.00	71.08	
ATOM	39084	O5' ADE	955	236.691	116.115	22.240	1.00	63.00	A16S	ATOM	39137	N4' CYT	957	233.559	118.365	24.145	1.00	71.08	
ATOM	39085	C5' ADE	955	236.876	114.895	21.540	1.00	63.00	A16S	ATOM	39138	C5' CYT	957	233.406	116.804	25.955	1.00	71.08	
ATOM	39086	C4' ADE	955	237.803	113.998	22.316	1.00	63.00	A16S	ATOM	39139	C2' CYT	957	231.137	117.536	29.832	1.00	66.44	
ATOM	39087	O4' ADE	955	239.106	114.622	22.398	1.00	63.00	A16S	ATOM	39140	O2' CYT	957	230.956	118.200	31.062	1.00	66.44	
ATOM	39088	C1' ADE	955	239.692	114.343	23.654	1.00	63.00	A16S	ATOM	39141	C3' CYT	957	230.828	116.045	29.905	1.00	66.44	
ATOM	39089	N9 ADE	955	240.116	115.605	24.255	1.00	59.65	A16S	ATOM	39142	O3' CYT	957	229.693	115.785	30.726	1.00	66.44	
ATOM	39090	C4 ADE	955	241.289	115.798	24.944	1.00	59.65	A16S	ATOM	39143	P' URI	958	228.437	114.990	30.115	1.00	60.77	
ATOM	39091	N3 ADE	955	242.230	114.880	25.224	1.00	59.65	A16S	ATOM	39144	O1P URI	958	227.273	115.082	31.040	1.00	55.71	
ATOM	39092	C2 ADE	955	243.235	115.426	25.900	1.00	59.65	A16S	ATOM	39145	O2P URI	958	228.939	113.652	29.708	1.00	55.71	
ATOM	39093	N1 ADE	955	243.406	116.692	26.290	1.00	59.65	A16S	ATOM	39146	O5' URI	958	228.071	115.845	28.823	1.00	60.77	
ATOM	39094	C6 ADE	955	242.453	117.598	25.984	1.00	59.65	A16S	ATOM	39147	C5' URI	958	227.698	117.209	28.946	1.00	60.77	
ATOM	39095	N6 ADE	955	242.642	118.866	26.354	1.00	59.65	A16S	ATOM	39148	C4' URI	958	227.821	117.907	27.620	1.00	60.77	
ATOM	39096	C5 ADE	955	241.315	117.140	25.280	1.00	59.65	A16S	ATOM	39149	O4' URI	958	229.204	117.864	27.180	1.00	60.77	
ATOM	39097	N7 ADE	955	240.163	117.779	24.830	1.00	59.65	A16S	ATOM	39150	C1' URI	958	229.259	117.694	25.774	1.00	60.77	
ATOM	39098	C8 ADE	955	239.485	116.826	24.236	1.00	59.65	A16S	ATOM	39151	N1 URI	958	229.870	116.384	25.507	1.00	55.71	
ATOM	39099	C2' ADE	955	239.701	113.514	24.470	1.00	63.00	A16S	ATOM	39152	C6 URI	958	229.835	115.385	26.445	1.00	55.71	
ATOM	39100	O2' ADE	955	239.093	112.164	24.404	1.00	63.00	A16S	ATOM	39153	C2 URI	958	230.492	116.191	24.293	1.00	55.71	
ATOM	39101	C3' ADE	955	237.382	113.803	23.757	1.00	63.00	A16S	ATOM	39154	O2 URI	958	230.528	117.049	23.437	1.00	55.71	
ATOM	39102	O3' ADE	955	236.445	112.732	23.840	1.00	63.00	A16S	ATOM	39155	N3 URI	958	231.070	114.954	24.119	1.00	55.71	
ATOM	39103	P' CYT	956	235.096	112.936	24.678	1.00	85.78	A16S	ATOM	39156	C4 URI	958	231.080	113.906	25.025	1.00	55.71	
ATOM	39104	O1P CYT	956	234.292	111.687	24.634	1.00	58.12	A16S	ATOM	39157	O4 URI	958	231.639	112.838	24.735	1.00	55.71	
ATOM	39105	O2P CYT	956	234.487	114.215	24.255	1.00	58.12	A16S	ATOM	39158	C5 URI	958	230.405	114.187	26.254	1.00	55.71	
ATOM	39106	O5' CYT	956	235.645	113.124	26.154	1.00	85.78	A16S	ATOM	39159	C2' URI	958	227.823	117.182	25.276	1.00	60.77	
ATOM	39107	C5' CYT	956	236.331	112.066	26.804	1.00	85.78	A16S	ATOM	39160	O2' URI	958	227.540	119.193	25.070	1.00	60.77	
ATOM	39108	C4' CYT	956	236.418	112.347	28.276	1.00	85.78	A16S	ATOM	39161	C3' URI	958	227.059	117.273	26.472	1.00	60.77	
ATOM	39109	O4' CYT	956	237.397	113.330	28.508	1.00	85.78	A16S	ATOM	39162	O3' URI	958	225.692	117.674	26.477	1.00	60.77	
ATOM	39110	C1' CYT	956	236.978	114.202	29.590	1.00	85.78	A16S	ATOM	39163	P' URI	959	224.556	116.611	26.073	1.00	79.71	
ATOM	39111	N1 CYT	956	236.776	115.562	29.081	1.00	58.12	A16S	ATOM	39164	O1P URI	959	224.848	116.207	24.682	1.00	49.35	
ATOM	39112	C6 CYT	956	236.719	115.806	27.742	1.00	58.12	A16S	ATOM	39165	O2P URI	959	223.242	117.205	26.410	1.00	49.35	
ATOM	39113	C2 CYT	956	236.633	116.604	29.992	1.00	58.12	A16S	ATOM	39166	O5' URI	959	224.823	115.339	26.999	1.00	79.71	
ATOM	39114	O2 CYT	956	236.702	116.345	31.206	1.00	58.12	A16S	ATOM	39167	C5' URI	959	223.952	114.203	26.977	1.00	79.71	
ATOM	39115	N3 CYT	956	236.426	117.863	29.535	1.00	58.12	A16S	ATOM	39168	C4' URI	959	224.701	112.981	26.496	1.00	79.71	
ATOM	39116	C4 CYT	956	236.365	118.089	28.223	1.00	58.12	A16S	ATOM	39169	O4' URI	959	225.144	113.248	25.154	1.00	79.71	
ATOM	39117	N4 CYT	956	236.157	119.335	27.809	1.00	58.12	A16S	ATOM	39170	C1' URI	959	226.279	112.466	24.893	1.00	79.71	
ATOM	39118	C5 CYT	956	236.517	117.043	27.274	1.00	58.12	A16S	ATOM	39171	N1 URI	959	227.167	113.164	23.958	1.00	49.35	
ATOM	39119	C2' CYT	956	235.690	113.585	30.137	1.00	85.78	A16S	ATOM	39172	C6 URI	959	226.990	114.485	23.641	1.00	49.35	
ATOM	39120	O2' CYT	956	236.014	112.682	31.179	1.00	85.78	A16S	ATOM	39173	C2 URI	959	228.179	112.419	23.389	1.00	49.35	
ATOM	39121	C3' CYT	956	235.146	112.906	28.886	1.00	85.78	A16S	ATOM	39174	O2 URI	959	228.382	111.255	23.682	1.00	49.35	
ATOM	39122	O3' CYT	956	234.183	111.881	29.142	1.00	85.78	A16S	ATOM	39175	N3 URI	959	228.940	113.084	22.467	1.00	49.35	
ATOM	39123	P' CYT	957	232.650	112.087	28.675	1.00	66.45	A16S	ATOM	39176	C4 URI	959	228.795	114.395	22.069	1.00	49.35	
ATOM	39124	O1P CYT	957	231.836	111.207	29.571	1.00	71.08	A16S	ATOM	39177	O4 URI	959	229.460	114.812	21.123	1.00	49.35	
ATOM	39125	O5' CYT	957	232.354	113.614	29.038	1.00	66.45	A16S	ATOM	39178	C5 URI	959	227.747	115.112	22.740	1.00	49.35	
ATOM	39126	C5' CYT	957	232.092	115.504	30.544	1.00	66.45	A16S	ATOM	39179	O2' URI	959	226.895	112.018	26.216	1.00	79.71	
ATOM	39127	C5' CYT	957	232.364	114.025	30.403	1.00	66.45	A16S	ATOM	39180	O2' URI	959	226.890	110.607	26.250	1.00	79.71	
ATOM	39128	O4' CYT	957	232.092	115.504	30.544	1.00	66.45	A16S	ATOM	39181	C3' URI	959	225.971	112.636	27.268	1.00	79.71	
ATOM	39129	O4' CYT	957	233.151	116.273	29.925	1.00	66.45	A16S	ATOM	39182	O3' URI	959	225.814	111.565	28.210	1.00	79.71	
ATOM	39130	C1' CYT	957	232.633	117.527	29.507	1.00	66.45	A16S	ATOM	39183	P' ADE	960	224.392	111.247	28.907	1.00	69.32	
ATOM	39131	N1 CYT	957	232.904	117.705	28.071	1.00	71.08	A16S	ATOM	39184	O1P ADE	960	224.558	112.411	29.738	1.00	55.29	
ATOM	39132	C6 CYT	957	233.178	116.637	27.263	1.00	71.08	A16S	ATOM	39185	O2P ADE	960	224.558	109.908	29.539	1.00	55.29	

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ATOM	39186	OS' ADE	960	223.334	111.045	27.731	1.00	69.32	Al6S	ATOM	39239	N4 CYT	962	228.802	104.796	28.315	1.00	58.97	Al
ATOM	39187	C5' ADE	960	222.981	109.730	27.291	1.00	69.32	Al6S	ATOM	39240	C5' CYT	962	227.587	103.453	26.764	1.00	58.97	Al
ATOM	39188	C4' ADE	960	221.739	109.768	26.428	1.00	69.32	Al6S	ATOM	39241	C2' CYT	962	228.679	99.145	25.710	1.00	68.01	Al
ATOM	39189	O4' ADE	960	221.672	111.030	25.731	1.00	69.32	Al6S	ATOM	39242	O2' CYT	962	229.351	98.136	24.980	1.00	68.01	Al
ATOM	39190	C1' ADE	960	221.284	110.813	24.398	1.00	69.32	Al6S	ATOM	39243	C3' CYT	962	227.175	98.942	25.739	1.00	68.01	Al
ATOM	39191	N9 ADE	960	222.338	111.332	23.534	1.00	55.29	Al6S	ATOM	39244	O3' CYT	962	226.822	97.596	25.981	1.00	68.01	Al
ATOM	39192	C4 ADE	960	223.491	110.703	23.141	1.00	55.29	Al6S	ATOM	39245	P ADE	963	226.684	97.087	27.494	1.00	93.01	Al
ATOM	39193	N3 ADE	960	223.902	109.473	23.475	1.00	55.29	Al6S	ATOM	39246	OlP ADE	963	226.232	95.674	27.421	1.00	49.98	Al
ATOM	39194	C2 ADE	960	225.068	109.201	22.902	1.00	55.29	Al6S	ATOM	39247	O2P ADE	963	225.880	98.094	28.239	1.00	49.98	Al
ATOM	39195	N1 ADE	960	225.815	109.964	22.092	1.00	55.29	Al6S	ATOM	39248	O5' ADE	963	228.172	97.123	28.059	1.00	93.01	Al
ATOM	39196	C6 ADE	960	226.369	111.196	21.780	1.00	55.29	Al6S	ATOM	39249	C5' ADE	963	229.124	96.158	27.637	1.00	93.01	Al
ATOM	39197	N6 ADE	960	226.105	111.959	20.976	1.00	55.29	Al6S	ATOM	39250	C4' ADE	963	230.414	96.326	28.397	1.00	93.01	Al
ATOM	39198	C5 ADE	960	224.148	111.602	22.324	1.00	55.29	Al6S	ATOM	39251	O4' ADE	963	230.985	97.624	28.093	1.00	93.01	Al
ATOM	39199	N7 ADE	960	223.426	112.779	22.207	1.00	55.29	Al6S	ATOM	39252	C1' ADE	963	231.683	98.111	29.226	1.00	93.01	Al
ATOM	39200	C8 ADE	960	222.366	112.569	22.942	1.00	55.29	Al6S	ATOM	39253	N9 ADE	963	231.051	99.358	29.642	1.00	49.98	Al
ATOM	39201	C2' ADE	960	220.955	109.332	24.214	1.00	69.32	Al6S	ATOM	39254	C4 ADE	963	231.642	100.372	30.360	1.00	49.98	Al
ATOM	39202	O2' ADE	960	219.569	109.123	24.320	1.00	69.32	Al6S	ATOM	39255	N3 ADE	963	232.891	100.402	30.855	1.00	49.98	Al
ATOM	39203	C3' ADE	960	221.702	108.680	25.366	1.00	69.32	Al6S	ATOM	39256	C2 ADE	963	233.124	101.557	31.465	1.00	49.98	Al
ATOM	39204	O3' ADE	960	220.925	107.582	25.817	1.00	69.32	Al6S	ATOM	39257	N1 ADE	963	232.315	102.607	31.621	1.00	49.98	Al
ATOM	39205	P CYT	961	221.633	106.203	26.219	1.00	72.24	Al6S	ATOM	39258	C6 ADE	963	231.067	102.541	31.116	1.00	49.98	Al
ATOM	39206	OlP CYT	961	220.561	105.178	26.301	1.00	65.33	Al6S	ATOM	39259	N6 ADE	963	230.262	103.588	31.270	1.00	49.98	Al
ATOM	39207	O2P CYT	961	222.498	106.474	27.400	1.00	65.33	Al6S	ATOM	39260	C5 ADE	963	230.692	101.371	30.453	1.00	49.98	Al
ATOM	39208	O5' CYT	961	222.566	105.830	24.982	1.00	72.24	Al6S	ATOM	39261	N7 ADE	963	229.511	100.985	29.837	1.00	49.98	Al
ATOM	39209	C5' CYT	961	222.055	105.101	23.868	1.00	72.24	Al6S	ATOM	39262	C8 ADE	963	229.772	99.781	29.379	1.00	49.98	Al
ATOM	39210	C4' CYT	961	223.164	104.327	23.196	1.00	72.24	Al6S	ATOM	39263	C2' ADE	963	231.614	97.022	30.290	1.00	93.01	Al
ATOM	39211	O4' CYT	961	224.193	105.240	22.741	1.00	72.24	Al6S	ATOM	39264	O2' ADE	963	232.727	96.170	30.117	1.00	93.01	Al
ATOM	39212	C1' CYT	961	225.464	104.632	22.872	1.00	72.24	Al6S	ATOM	39265	C3' ADE	963	230.311	96.337	29.911	1.00	93.01	Al
ATOM	39213	N1 CYT	961	226.271	105.450	23.786	1.00	65.33	Al6S	ATOM	39266	O3' ADE	963	230.248	95.017	30.435	1.00	84.50	Al
ATOM	39214	C6 CYT	961	225.688	106.406	24.566	1.00	65.33	Al6S	ATOM	39267	P GUA	964	229.473	94.746	31.819	1.00	84.50	Al
ATOM	39215	C2 CYT	961	227.654	105.246	23.836	1.00	65.33	Al6S	ATOM	39268	OlP GUA	964	229.502	93.272	32.020	1.00	70.70	Al
ATOM	39216	O2 CYT	961	228.157	104.372	23.122	1.00	65.33	Al6S	ATOM	39269	O2P GUA	964	228.176	95.462	31.800	1.00	70.70	Al
ATOM	39217	N3 CYT	961	228.407	106.009	24.657	1.00	65.33	Al6S	ATOM	39270	O5' GUA	964	230.386	95.425	32.934	1.00	84.50	Al
ATOM	39218	C4 CYT	961	227.831	106.950	25.404	1.00	65.33	Al6S	ATOM	39271	C5' GUA	964	231.612	94.820	33.320	1.00	84.50	Al
ATOM	39219	N4 CYT	961	228.614	107.690	26.185	1.00	65.33	Al6S	ATOM	39272	C4' GUA	964	232.485	95.814	34.037	1.00	84.50	Al
ATOM	39220	C5 CYT	961	226.425	107.174	25.380	1.00	65.33	Al6S	ATOM	39273	O4' GUA	964	232.590	97.016	33.229	1.00	84.50	Al
ATOM	39221	C2' CYT	961	225.236	103.210	23.372	1.00	72.24	Al6S	ATOM	39274	C1' GUA	964	232.721	98.146	34.076	1.00	84.50	Al
ATOM	39222	O2' CYT	961	225.150	102.331	22.268	1.00	72.24	Al6S	ATOM	39275	N9 GUA	964	231.571	99.017	33.870	1.00	70.70	Al
ATOM	39223	C3' CYT	961	223.911	103.367	24.097	1.00	72.24	Al6S	ATOM	39276	C4 GUA	964	231.446	100.298	34.334	1.00	70.70	Al
ATOM	39224	O3' CYT	961	223.224	102.135	24.174	1.00	72.24	Al6S	ATOM	39277	N3 GUA	964	232.368	100.972	35.051	1.00	70.70	Al
ATOM	39225	P CYT	962	223.495	101.162	25.412	1.00	68.01	Al6S	ATOM	39278	C2 GUA	964	231.958	102.191	35.358	1.00	70.70	Al
ATOM	39226	OlP CYT	962	222.620	99.975	25.229	1.00	58.97	Al6S	ATOM	39279	N2 GUA	964	232.747	103.000	36.072	1.00	70.70	Al
ATOM	39227	O2P CYT	962	223.397	101.981	26.652	1.00	58.97	Al6S	ATOM	39280	N1 GUA	964	230.740	102.705	34.989	1.00	70.70	Al
ATOM	39228	O5' CYT	962	225.000	100.694	25.224	1.00	68.01	Al6S	ATOM	39281	C6 GUA	964	229.775	102.024	34.255	1.00	70.70	Al
ATOM	39229	C5' CYT	962	225.342	99.774	24.206	1.00	68.01	Al6S	ATOM	39282	O6 GUA	964	228.704	102.574	33.985	1.00	70.70	Al
ATOM	39230	C4' CYT	962	226.781	99.375	24.345	1.00	68.01	Al6S	ATOM	39283	C5 GUA	964	230.203	100.718	33.917	1.00	70.70	Al
ATOM	39231	O4' CYT	962	227.629	100.529	24.106	1.00	68.01	Al6S	ATOM	39284	N7 GUA	964	229.561	99.719	33.198	1.00	70.70	Al
ATOM	39232	C1' CYT	962	228.766	100.463	24.949	1.00	68.01	Al6S	ATOM	39285	C8 GUA	964	230.410	98.729	33.196	1.00	70.70	Al
ATOM	39233	N1 CYT	962	228.731	101.616	25.849	1.00	58.97	Al6S	ATOM	39286	C2' GUA	964	232.769	97.618	35.505	1.00	84.50	Al
ATOM	39234	C6 CYT	962	227.611	102.387	25.960	1.00	58.97	Al6S	ATOM	39287	O2' GUA	964	234.123	97.385	35.829	1.00	84.50	Al
ATOM	39235	O2 CYT	962	229.872	101.920	26.587	1.00	58.97	Al6S	ATOM	39288	C3' GUA	964	231.960	96.338	35.358	1.00	84.50	Al
ATOM	39236	O2 CYT	962	230.873	101.195	26.462	1.00	58.97	Al6S	ATOM	39289	O3' GUA	964	232.206	95.413	36.408	1.00	84.50	Al
ATOM	39237	N3 CYT	962	229.863	102.993	27.409	1.00	58.97	Al6S	ATOM	39290	P GUA	965	231.223	95.375	37.683	1.00	94.78	Al
ATOM	39238	C4 CYT	962	228.768	103.745	27.502	1.00	58.97	Al6S	ATOM	39291	OlP GUA	965	231.668	94.228	38.518	1.00	74.27	Al

ATOM	39292	O2P	GUA	965	229.812	95.429	37.209	1.00	74.27	Al6S	ATOM	39345	N3	CYT	967	221.521	103.700	41.219	1.00	85.64	/
ATOM	39293	O5'	GUA	965	231.546	96.729	38.471	1.00	94.78	Al6S	ATOM	39346	C4	CYT	967	222.187	102.544	41.162	1.00	85.64	/
ATOM	39294	C5'	GUA	965	232.734	96.847	39.251	1.00	94.78	Al6S	ATOM	39347	N4	CYT	967	221.826	101.653	40.237	1.00	85.64	/
ATOM	39295	O4'	GUA	965	232.810	98.204	39.914	1.00	94.78	Al6S	ATOM	39348	C5	CYT	967	223.253	102.246	42.054	1.00	85.64	/
ATOM	39296	C4'	GUA	965	232.861	99.236	38.897	1.00	94.78	Al6S	ATOM	39349	C2'	CYT	967	222.310	105.235	45.292	1.00	96.45	/
ATOM	39297	C1'	GUA	965	232.210	100.405	39.371	1.00	94.78	Al6S	ATOM	39350	O2'	CYT	967	222.150	106.518	45.864	1.00	96.45	/
ATOM	39298	N9	GUA	965	231.029	100.624	38.550	1.00	74.27	Al6S	ATOM	39351	C3'	CYT	967	223.105	104.275	46.171	1.00	96.45	/
ATOM	39299	C4	GUA	965	230.308	101.785	38.462	1.00	74.27	Al6S	ATOM	39352	O3'	CYT	967	222.728	104.355	47.545	1.00	96.45	/
ATOM	39300	N3	GUA	965	230.587	102.936	39.103	1.00	74.27	Al6S	ATOM	39353	P	URI	968	222.170	103.046	48.294	1.00	125.31	/
ATOM	39301	C2	GUA	965	229.694	103.867	38.846	1.00	74.27	Al6S	ATOM	39354	O1P	URI	968	223.148	102.682	49.347	1.00	104.78	/
ATOM	39302	N2	GUA	965	229.808	105.066	39.421	1.00	74.27	Al6S	ATOM	39355	O2P	URI	968	221.779	102.037	47.280	1.00	104.78	/
ATOM	39303	N1	GUA	965	228.620	103.687	38.011	1.00	74.27	Al6S	ATOM	39356	O5'	URI	968	220.854	103.565	49.017	1.00	125.31	/
ATOM	39304	C6	GUA	965	228.316	102.508	37.339	1.00	74.27	Al6S	ATOM	39357	C5'	URI	968	219.563	103.202	48.544	1.00	125.31	/
ATOM	39305	O6	GUA	965	227.316	102.445	36.611	1.00	74.27	Al6S	ATOM	39358	C4'	URI	968	218.991	104.314	47.702	1.00	125.31	/
ATOM	39306	C5	GUA	965	229.259	101.501	37.615	1.00	74.27	Al6S	ATOM	39359	O4'	URI	968	219.712	104.378	46.448	1.00	125.31	/
ATOM	39307	N7	GUA	965	229.329	100.190	37.166	1.00	74.27	Al6S	ATOM	39360	C1'	URI	968	218.824	104.730	45.404	1.00	125.31	/
ATOM	39308	C8	GUA	965	230.399	99.710	37.740	1.00	74.27	Al6S	ATOM	39361	N1	URI	968	218.908	103.699	44.358	1.00	104.78	/
ATOM	39309	O2'	GUA	965	231.783	100.127	40.811	1.00	94.78	Al6S	ATOM	39362	C6	URI	968	219.757	102.629	44.499	1.00	104.78	/
ATOM	39310	O2'	GUA	965	232.768	100.570	41.726	1.00	94.78	Al6S	ATOM	39363	C2	URI	968	218.132	103.847	43.219	1.00	104.78	/
ATOM	39311	C3'	GUA	965	231.629	98.616	40.776	1.00	94.78	Al6S	ATOM	39364	O2	URI	968	217.348	104.764	43.060	1.00	104.78	/
ATOM	39312	O3'	GUA	965	231.711	98.079	42.083	1.00	94.78	Al6S	ATOM	39365	N3	URI	968	218.310	102.873	42.269	1.00	104.78	/
ATOM	39313	P	CYT	966	230.363	97.765	42.888	1.00	88.84	Al6S	ATOM	39366	C4	URI	968	219.160	101.788	42.340	1.00	104.78	/
ATOM	39314	O1P	CYT	966	230.780	97.381	44.260	1.00	88.84	Al6S	ATOM	39367	O4	URI	968	219.235	101.012	41.385	1.00	104.78	/
ATOM	39315	O2P	CYT	966	229.536	96.833	42.075	1.00	88.84	Al6S	ATOM	39368	C5	URI	968	219.908	101.697	43.555	1.00	104.78	/
ATOM	39316	O5'	CYT	966	229.631	99.177	42.983	1.00	99.19	Al6S	ATOM	39369	C2'	URI	968	217.444	104.966	46.023	1.00	125.31	/
ATOM	39317	C5'	CYT	966	230.152	100.189	43.829	1.00	99.19	Al6S	ATOM	39370	O2'	URI	968	217.304	106.346	46.279	1.00	125.31	/
ATOM	39318	C4'	CYT	966	229.380	101.476	43.671	1.00	99.19	Al6S	ATOM	39371	C3'	URI	968	217.532	104.152	47.310	1.00	125.31	/
ATOM	39319	O4'	CYT	966	229.335	101.845	42.267	1.00	99.19	Al6S	ATOM	39372	O3'	URI	968	216.751	104.728	48.355	1.00	125.31	/
ATOM	39320	C1'	CYT	966	228.208	102.677	42.039	1.00	99.19	Al6S	ATOM	39373	P	URI	969	215.155	104.842	48.210	1.00	106.41	/
ATOM	39321	N1	CYT	966	227.359	102.073	41.002	1.00	88.84	Al6S	ATOM	39374	O1P	URI	969	214.565	103.837	49.128	1.00	110.47	/
ATOM	39322	C6	CYT	966	227.391	100.730	40.746	1.00	88.84	Al6S	ATOM	39375	O2P	URI	969	214.791	104.823	46.772	1.00	110.47	/
ATOM	39323	C2	CYT	966	226.491	102.905	40.291	1.00	88.84	Al6S	ATOM	39376	O5'	URI	969	214.844	106.296	48.783	1.00	106.41	/
ATOM	39324	O2	CYT	966	226.507	104.118	40.526	1.00	88.84	Al6S	ATOM	39377	C5'	URI	969	215.743	107.364	48.525	1.00	106.41	/
ATOM	39325	N3	CYT	966	225.663	102.369	39.367	1.00	88.84	Al6S	ATOM	39378	C4'	URI	969	214.989	108.646	48.293	1.00	106.41	/
ATOM	39326	C4	CYT	966	225.686	101.057	39.136	1.00	88.84	Al6S	ATOM	39379	O4'	URI	969	213.855	108.388	47.433	1.00	106.41	/
ATOM	39327	N4	CYT	966	224.841	100.571	38.228	1.00	88.84	Al6S	ATOM	39380	C1'	URI	969	212.858	109.363	47.673	1.00	106.41	/
ATOM	39328	C5	CYT	966	226.577	100.184	39.831	1.00	88.84	Al6S	ATOM	39381	N1	URI	969	211.534	108.723	47.632	1.00	110.47	/
ATOM	39329	C2'	CYT	966	227.467	102.782	43.372	1.00	99.19	Al6S	ATOM	39382	C6	URI	969	211.404	107.357	47.536	1.00	110.47	/
ATOM	39330	O2'	CYT	966	227.925	103.931	44.057	1.00	99.19	Al6S	ATOM	39383	C2	URI	969	210.420	109.543	47.779	1.00	110.47	/
ATOM	39331	C3'	CYT	966	227.910	101.495	44.054	1.00	99.19	Al6S	ATOM	39384	O2	URI	969	210.490	110.752	47.779	1.00	110.47	/
ATOM	39332	O3'	CYT	966	227.722	101.581	45.464	1.00	99.19	Al6S	ATOM	39385	N3	URI	969	209.219	108.892	47.546	1.00	110.47	/
ATOM	39333	P	CYT	967	226.274	101.261	46.103	1.00	96.45	Al6S	ATOM	39386	C4	URI	969	209.020	107.533	47.420	1.00	110.47	/
ATOM	39334	O1P	CYT	967	226.436	101.307	47.578	1.00	85.64	Al6S	ATOM	39387	O4	URI	969	207.876	107.100	47.275	1.00	110.47	/
ATOM	39335	O2P	CYT	967	225.724	100.039	45.461	1.00	85.64	Al6S	ATOM	39388	C5	URI	969	210.218	106.751	47.430	1.00	110.47	/
ATOM	39336	O5'	CYT	967	225.382	102.520	45.700	1.00	96.45	Al6S	ATOM	39389	C2'	URI	969	213.229	110.141	48.939	1.00	106.41	/
ATOM	39337	C5'	CYT	967	225.637	103.798	46.276	1.00	96.45	Al6S	ATOM	39390	O2'	URI	969	213.580	111.455	48.574	1.00	106.41	/
ATOM	39338	C4'	CYT	967	224.524	104.767	44.942	1.00	96.45	Al6S	ATOM	39391	C3'	URI	969	214.374	109.300	49.513	1.00	106.41	/
ATOM	39339	O4'	CYT	967	224.547	105.094	44.526	1.00	96.45	Al6S	ATOM	39392	O3'	URI	969	215.376	110.015	50.250	1.00	106.41	/
ATOM	39340	C1'	CYT	967	223.224	105.347	44.072	1.00	96.45	Al6S	ATOM	39393	P	GUA	970	216.215	111.215	49.558	1.00	127.86	/
ATOM	39341	N1	CYT	967	222.888	104.349	43.047	1.00	85.64	Al6S	ATOM	39394	O1P	GUA	970	217.461	111.326	50.354	1.00	86.57	/
ATOM	39342	C6	CYT	967	223.569	103.168	42.971	1.00	85.64	Al6S	ATOM	39395	O2P	GUA	970	215.377	112.421	49.361	1.00	86.57	/
ATOM	39343	C2	CYT	967	221.849	104.623	42.155	1.00	85.64	Al6S	ATOM	39396	O5'	GUA	970	216.647	110.634	48.138	1.00	127.86	/
ATOM	39344	O2	CYT	967	221.255	105.709	42.245	1.00	85.64	Al6S	ATOM	39397	C5'	GUA	970	216.911	111.491	47.025	1.00	127.86	/

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ATOM	39398	C4' GUA	970	217.717	110.747	45.982	1.00127.86	Al6S	ATOM	39451	C4	CYT	972	215.446	114.350	42.046	1.0082.53	Al
ATOM	39399	O4' GUA	970	217.175	109.414	45.829	1.00127.86	Al6S	ATOM	39452	N4	CYT	972	215.188	113.078	42.369	1.0082.53	Al
ATOM	39400	C1' GUA	970	217.326	108.992	44.490	1.00127.86	Al6S	ATOM	39453	C5	CYT	972	216.728	114.898	42.314	1.0082.53	Al
ATOM	39401	N9	970	216.079	108.375	44.040	1.0086.57	Al6S	ATOM	39454	C2' CYT	972	215.250	119.333	41.515	1.00105.64	Al	
ATOM	39402	C4	970	214.807	108.917	44.012	1.0086.57	Al6S	ATOM	39455	O2' CYT	972	215.202	120.476	40.686	1.00105.64	Al	
ATOM	39403	N3	970	214.463	110.180	44.353	1.0086.57	Al6S	ATOM	39456	C3' CYT	972	215.872	119.635	42.864	1.00105.64	Al	
ATOM	39404	C2	970	213.148	110.375	44.270	1.0086.57	Al6S	ATOM	39457	O3' CYT	972	215.558	120.915	43.372	1.00105.64	Al	
ATOM	39405	N2	970	212.622	111.577	44.575	1.0086.57	Al6S	ATOM	39458	P	972	215.021	121.040	44.872	1.00109.85	Al	
ATOM	39406	N1	970	212.251	109.407	43.882	1.0086.57	Al6S	ATOM	39459	O1P ADE	973	215.565	122.290	45.445	1.0065.27	Al	
ATOM	39407	C6	970	212.586	108.102	43.526	1.0086.57	Al6S	ATOM	39460	O2P ADE	973	215.311	119.741	45.530	1.0065.27	Al	
ATOM	39408	O6	970	211.700	107.297	43.207	1.0086.57	Al6S	ATOM	39461	O5' ADE	973	213.449	121.184	44.686	1.00109.85	Al	
ATOM	39409	C5	970	213.983	107.884	43.603	1.0086.57	Al6S	ATOM	39462	C5' ADE	973	212.915	122.183	43.833	1.00109.85	Al	
ATOM	39410	N7	970	214.721	106.741	43.336	1.0086.57	Al6S	ATOM	39463	C4' ADE	973	211.431	121.998	43.696	1.00109.85	Al	
ATOM	39411	C8	970	215.952	107.081	43.598	1.0086.57	Al6S	ATOM	39464	O4' ADE	973	211.156	120.811	42.915	1.00109.85	Al	
ATOM	39412	C2' GUA	970	217.959	110.121	43.673	1.00127.86	Al6S	ATOM	39465	C1' ADE	973	209.974	120.196	43.397	1.00109.85	Al	
ATOM	39413	O2' GUA	970	219.315	109.787	43.461	1.00127.86	Al6S	ATOM	39466	N9 ADE	973	210.309	118.844	43.825	1.0065.27	Al	
ATOM	39414	C3' GUA	970	217.727	111.334	44.577	1.00127.86	Al6S	ATOM	39467	C4 ADE	973	209.404	117.845	44.070	1.0065.27	Al	
ATOM	39415	O3' GUA	970	218.660	112.417	44.463	1.00127.86	Al6S	ATOM	39468	N3 ADE	973	208.068	117.929	43.990	1.0065.27	Al	
ATOM	39416	P	971	220.258	112.149	44.458	1.0087.27	Al6S	ATOM	39469	C2 ADE	973	207.512	116.752	44.267	1.0065.27	Al	
ATOM	39417	O1P ADE	971	220.666	111.510	43.185	1.0087.27	Al6S	ATOM	39470	N1 ADE	973	208.099	115.589	44.593	1.0065.27	Al	
ATOM	39418	O2P ADE	971	220.658	111.519	45.740	1.0087.27	Al6S	ATOM	39471	C6 ADE	973	209.447	115.547	44.671	1.0065.27	Al	
ATOM	39419	O5' ADE	971	220.844	113.630	44.444	1.0087.27	Al6S	ATOM	39472	N6 ADE	973	210.031	114.393	45.000	1.0065.27	Al	
ATOM	39420	C5' ADE	971	222.190	113.897	44.066	1.0087.27	Al6S	ATOM	39473	C5 ADE	973	210.153	116.729	44.399	1.0065.27	Al	
ATOM	39421	O4' ADE	971	222.123	114.865	42.905	1.0087.27	Al6S	ATOM	39474	N7 ADE	973	211.507	117.028	44.389	1.0065.27	Al	
ATOM	39422	C4' ADE	971	222.122	114.139	41.655	1.0087.27	Al6S	ATOM	39475	C8 ADE	973	211.546	118.294	44.048	1.0065.27	Al	
ATOM	39423	C1' ADE	971	221.290	114.847	40.754	1.0087.27	Al6S	ATOM	39476	C2' ADE	973	209.443	121.052	44.546	1.00109.85	Al	
ATOM	39424	N9 ADE	971	220.136	114.000	40.443	1.0087.27	Al6S	ATOM	39477	O2' ADE	973	208.472	121.960	44.067	1.00109.85	Al	
ATOM	39425	C4 ADE	971	219.001	114.369	39.764	1.0087.27	Al6S	ATOM	39478	C3' ADE	973	210.717	121.738	45.007	1.00109.85	Al	
ATOM	39426	N3 ADE	971	218.710	115.578	39.257	1.0087.27	Al6S	ATOM	39479	O3' ADE	973	210.456	122.951	45.685	1.00109.85	Al	
ATOM	39427	C2 ADE	971	217.531	115.554	38.645	1.0087.27	Al6S	ATOM	39480	P	974	210.510	122.985	47.287	1.00125.13	Al	
ATOM	39428	N1 ADE	971	216.672	114.535	38.496	1.0087.27	Al6S	ATOM	39481	O1P URI	974	210.644	124.419	47.636	1.0079.81	Al	
ATOM	39429	C6 ADE	971	216.997	113.336	39.020	1.0087.27	Al6S	ATOM	39482	O2P URI	974	211.528	122.016	47.770	1.0079.81	Al	
ATOM	39430	N6 ADE	971	216.146	112.321	38.870	1.0087.27	Al6S	ATOM	39483	O5' URI	974	209.071	122.458	47.724	1.00125.13	Al	
ATOM	39431	C5 ADE	971	218.220	113.229	39.692	1.0087.27	Al6S	ATOM	39484	C5' URI	974	207.898	123.176	47.364	1.00125.13	Al	
ATOM	39432	N7 ADE	971	218.845	112.164	40.322	1.0087.27	Al6S	ATOM	39485	C4' URI	974	206.680	122.307	47.532	1.00125.13	Al	
ATOM	39433	C8 ADE	971	219.972	112.672	40.750	1.0087.27	Al6S	ATOM	39486	O4' URI	974	206.760	121.181	46.620	1.00125.13	Al	
ATOM	39434	C2' ADE	971	220.942	116.190	41.401	1.0087.27	Al6S	ATOM	39487	C1' URI	974	206.095	120.065	47.191	1.00125.13	Al	
ATOM	39435	O2' ADE	971	221.878	117.168	41.002	1.0087.27	Al6S	ATOM	39488	N1 URI	974	207.063	118.976	47.358	1.0079.81	Al	
ATOM	39436	C3' ADE	971	221.056	115.852	42.879	1.0087.27	Al6S	ATOM	39489	C6 URI	974	208.416	119.216	47.403	1.0079.81	Al	
ATOM	39437	O3' ADE	971	221.351	117.004	43.656	1.0087.27	Al6S	ATOM	39490	C2 URI	974	206.558	117.694	47.489	1.0079.81	Al	
ATOM	39438	P	972	220.186	117.704	44.514	1.00105.64	Al6S	ATOM	39491	O2 URI	974	205.365	116.719	47.431	1.0079.81	Al	
ATOM	39439	O1P CYT	972	220.794	118.720	45.413	1.0082.53	Al6S	ATOM	39492	N3 URI	974	207.500	116.719	47.686	1.0079.81	Al	
ATOM	39440	O2P CYT	972	219.324	116.631	45.088	1.0082.53	Al6S	ATOM	39493	C4 URI	974	208.865	116.889	47.757	1.0079.81	Al	
ATOM	39441	O5' CYT	972	219.345	118.512	43.433	1.00105.64	Al6S	ATOM	39494	O4 URI	974	209.579	115.910	47.985	1.0079.81	Al	
ATOM	39442	C5' CYT	972	218.115	119.104	43.800	1.00105.64	Al6S	ATOM	39495	C5 URI	974	209.313	118.245	47.592	1.0079.81	Al	
ATOM	39443	C4' CYT	972	217.357	119.558	42.583	1.00105.64	Al6S	ATOM	39496	C2' URI	974	205.562	120.510	48.551	1.00125.13	Al	
ATOM	39444	O4' CYT	972	217.505	118.606	41.502	1.00105.64	Al6S	ATOM	39497	O2' URI	974	204.226	120.954	48.435	1.00125.13	Al	
ATOM	39445	C1' CYT	972	216.233	118.293	40.972	1.00105.64	Al6S	ATOM	39498	C3' URI	974	206.525	121.636	48.884	1.00125.13	Al	
ATOM	39446	N1 CYT	972	215.956	116.911	41.373	1.0082.53	Al6S	ATOM	39499	O3' URI	974	205.976	122.500	49.864	1.00125.13	Al	
ATOM	39447	C6 CYT	972	216.936	116.169	41.967	1.0082.53	Al6S	ATOM	39500	P	975	206.203	122.166	51.418	1.00141.82	Al	
ATOM	39448	C2 CYT	972	214.704	116.359	41.131	1.0082.53	Al6S	ATOM	39501	O1P GUA	975	205.399	123.157	52.173	1.0092.98	Al	
ATOM	39449	O2 CYT	972	213.830	117.061	40.611	1.0082.53	Al6S	ATOM	39502	O2P GUA	975	207.663	122.050	51.674	1.0092.98	Al	
ATOM	39450	N3 CYT	972	214.475	115.070	41.474	1.0082.53	Al6S	ATOM	39503	O5' GUA	975	205.533	120.733	51.617	1.00141.82	Al	

ATOM	39504	C5' GUA	975	204.117	120.608	51.673	1.00141.82	Al6S	ATOM	39557	O4' URI	977	208.300	110.123	57.214	1.00147.84
ATOM	39505	C4' GUA	975	203.707	119.182	51.967	1.00141.82	Al6S	ATOM	39558	C5' URI	977	206.223	110.854	58.100	1.00147.84
ATOM	39506	O4' GUA	975	204.174	118.303	50.909	1.00141.82	Al6S	ATOM	39559	C2' URI	977	203.695	108.707	61.107	1.00200.66
ATOM	39507	C1' GUA	975	204.315	116.987	51.425	1.00141.82	Al6S	ATOM	39560	O2' URI	977	202.846	107.722	61.663	1.00200.66
ATOM	39508	N9 GUA	975	205.697	116.558	51.264	1.00141.82	Al6S	ATOM	39561	C3' URI	977	203.279	110.125	61.472	1.00200.66
ATOM	39509	C4 GUA	975	206.148	115.261	51.325	1.00141.82	Al6S	ATOM	39562	O3' URI	977	202.899	110.233	62.837	1.00200.66
ATOM	39510	N3 GUA	975	205.383	114.165	51.520	1.00141.82	Al6S	ATOM	39563	P ADE	978	203.950	110.814	63.906	1.00200.66
ATOM	39511	C2 GUA	975	206.103	113.055	51.535	1.00141.82	Al6S	ATOM	39564	O1P ADE	978	203.238	110.938	65.201	1.00200.66
ATOM	39512	N2 GUA	975	205.500	111.874	51.716	1.00141.82	Al6S	ATOM	39565	O2P ADE	978	204.612	112.009	63.316	1.00200.66
ATOM	39513	N1 GUA	975	207.468	113.024	51.371	1.00141.82	Al6S	ATOM	39566	O5' ADE	978	205.042	109.660	64.004	1.00200.66
ATOM	39514	C6 GUA	975	208.275	114.140	51.168	1.00141.82	Al6S	ATOM	39567	C5' ADE	978	204.680	108.352	64.485	1.00200.66
ATOM	39515	O6 GUA	975	209.498	114.000	51.028	1.00141.82	Al6S	ATOM	39568	C4' ADE	978	205.737	107.353	64.070	1.00200.66
ATOM	39516	C5 GUA	975	207.512	115.340	51.152	1.00141.82	Al6S	ATOM	39569	O4' ADE	978	205.842	107.367	62.619	1.00200.66
ATOM	39517	N7 GUA	975	207.911	116.661	50.981	1.00141.82	Al6S	ATOM	39570	C1' ADE	978	207.206	107.300	62.234	1.00200.66
ATOM	39518	C8 GUA	975	206.800	117.346	51.050	1.00141.82	Al6S	ATOM	39571	N9 ADE	978	207.566	108.586	61.628	1.00200.66
ATOM	39519	C2' GUA	975	203.970	117.052	52.912	1.00141.82	Al6S	ATOM	39572	C4 ADE	978	208.764	108.919	61.037	1.00200.66
ATOM	39520	O2' GUA	975	202.612	116.710	53.102	1.00141.82	Al6S	ATOM	39573	N3 ADE	978	209.852	108.144	60.898	1.00200.66
ATOM	39521	C3' GUA	975	204.263	118.514	53.213	1.00141.82	Al6S	ATOM	39574	C2 ADE	978	210.824	108.806	60.273	1.00200.66
ATOM	39522	O3' GUA	975	203.608	118.912	54.410	1.00141.82	Al6S	ATOM	39575	N1 ADE	978	210.834	110.060	59.803	1.00200.66
ATOM	39523	P CYT	976	204.236	118.492	55.833	1.00190.71	Al6S	ATOM	39576	C6 ADE	978	209.725	110.813	59.956	1.00200.66
ATOM	39524	O1P CYT	976	203.531	119.295	56.867	1.00190.71	Al6S	ATOM	39577	N6 ADE	978	209.732	112.061	59.482	1.00200.66
ATOM	39525	O2P CYT	976	205.719	118.562	55.738	1.00190.71	Al6S	ATOM	39578	C7 ADE	978	208.622	110.229	60.609	1.00200.66
ATOM	39526	O5' CYT	976	203.832	116.957	56.005	1.00190.71	Al6S	ATOM	39579	N5 ADE	978	207.361	110.715	60.926	1.00200.66
ATOM	39527	C5' CYT	976	202.465	116.561	55.993	1.00190.71	Al6S	ATOM	39580	C8 ADE	978	208.002	106.974	63.498	1.00200.66
ATOM	39528	C4' CYT	976	202.334	115.059	56.130	1.00190.71	Al6S	ATOM	39581	C2' ADE	978	207.148	107.094	64.565	1.00200.66
ATOM	39529	O4' CYT	976	202.999	113.393	55.025	1.00190.71	Al6S	ATOM	39582	O2' ADE	978	208.070	105.570	63.662	1.00200.66
ATOM	39530	C1' CYT	976	203.341	113.070	55.419	1.00190.71	Al6S	ATOM	39583	C3' ADE	978	207.376	107.694	65.862	1.00200.66
ATOM	39531	N1 CYT	976	204.772	112.837	55.172	1.00190.71	Al6S	ATOM	39584	O3' ADE	978	208.449	107.781	66.850	1.00200.66
ATOM	39532	C6 CYT	976	205.664	113.872	55.112	1.00190.71	Al6S	ATOM	39585	P GUA	979	207.918	107.651	68.231	1.00200.66
ATOM	39533	C2 CYT	976	205.211	111.516	55.016	1.00190.71	Al6S	ATOM	39586	O1P GUA	979	207.918	107.651	68.231	1.00200.66
ATOM	39534	O2 CYT	976	204.377	110.597	55.062	1.00190.71	Al6S	ATOM	39587	O2P GUA	979	208.802	109.124	66.325	1.00200.66
ATOM	39535	N3 CYT	976	206.526	111.273	54.819	1.00190.71	Al6S	ATOM	39588	O5' GUA	979	209.739	106.852	66.739	1.00200.66
ATOM	39536	C4 CYT	976	207.391	112.287	54.774	1.00190.71	Al6S	ATOM	39589	C5' GUA	979	209.837	105.643	67.488	1.00200.66
ATOM	39537	N4 CYT	976	208.682	111.995	54.590	1.00190.71	Al6S	ATOM	39590	C4' GUA	979	211.106	104.905	67.128	1.00200.66
ATOM	39538	C5 CYT	976	206.972	113.645	54.917	1.00190.71	Al6S	ATOM	39591	O4' GUA	979	211.067	104.557	65.716	1.00200.66
ATOM	39539	C2' CYT	976	202.999	112.938	56.903	1.00190.71	Al6S	ATOM	39592	C1' GUA	979	212.357	104.720	65.147	1.00200.66
ATOM	39540	O2' CYT	976	201.742	112.307	57.046	1.00190.71	Al6S	ATOM	39593	N9 GUA	979	212.317	105.881	64.264	1.00200.66
ATOM	39541	C3' CYT	976	202.974	114.397	57.339	1.00190.71	Al6S	ATOM	39594	C4 GUA	979	213.297	106.269	63.383	1.00200.66
ATOM	39542	O3' CYT	976	202.192	114.547	58.515	1.00190.71	Al6S	ATOM	39595	N3 GUA	979	214.463	105.624	63.159	1.00200.66
ATOM	39543	P URI	977	202.827	114.160	59.942	1.00200.66	Al6S	ATOM	39596	C2 GUA	979	215.210	106.250	62.263	1.00200.66
ATOM	39544	O1P URI	977	201.850	114.584	60.975	1.00147.84	Al6S	ATOM	39597	N2 GUA	979	216.404	105.744	61.919	1.00200.66
ATOM	39545	O2P URI	977	204.221	114.670	59.999	1.00147.84	Al6S	ATOM	39598	N1 GUA	979	214.843	107.417	61.638	1.00200.66
ATOM	39546	O5' URI	977	202.883	112.567	59.927	1.00200.66	Al6S	ATOM	39599	C6 GUA	979	213.649	108.100	61.852	1.00200.66
ATOM	39547	C5' URI	977	201.731	111.793	60.256	1.00200.66	Al6S	ATOM	39600	O6 GUA	979	213.421	109.152	61.238	1.00200.66
ATOM	39548	C4' URI	977	202.114	110.352	60.524	1.00200.66	Al6S	ATOM	39601	C5 GUA	979	212.834	107.436	62.810	1.00200.66
ATOM	39549	O4' URI	977	202.552	109.716	59.291	1.00200.66	Al6S	ATOM	39602	N7 GUA	979	211.581	107.766	63.310	1.00200.66
ATOM	39550	C1' URI	977	203.542	108.738	59.585	1.00200.66	Al6S	ATOM	39603	C8 GUA	979	211.314	106.815	64.164	1.00200.66
ATOM	39551	N1 URI	977	204.795	109.133	58.926	1.00147.84	Al6S	ATOM	39604	C2' GUA	979	213.315	104.963	66.312	1.00200.49
ATOM	39552	C6 URI	977	205.081	110.457	58.671	1.00147.84	Al6S	ATOM	39605	O2' GUA	979	213.776	103.729	66.824	1.00200.49
ATOM	39553	C2 URI	977	205.686	108.132	58.582	1.00147.84	Al6S	ATOM	39606	C3' GUA	979	212.398	105.695	67.278	1.00200.49
ATOM	39554	O2 URI	977	205.462	106.947	58.781	1.00147.84	Al6S	ATOM	39607	O3' GUA	979	212.899	105.665	68.609	1.00200.49
ATOM	39555	N3 URI	977	206.850	108.572	57.997	1.00147.84	Al6S	ATOM	39608	P GUA	980	213.547	106.995	69.243	1.00200.51
ATOM	39556	C4 URI	977	207.203	109.882	57.723	1.00147.84	Al6S	ATOM	39609	O1P GUA	980	213.977	106.665	70.626	1.00200.41

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ATOM	39610	O2P	GUA	980	212.607	108.124	69.014	1.00200.41	A16S	ATOM	39663	C4	ADE	982	217.338	117.567	64.941	1.00200.60	A
ATOM	39611	O5'	GUA	980	214.853	107.258	68.369	1.00200.51	A16S	ATOM	39664	N3	ADE	982	216.616	116.437	65.088	1.00200.60	A
ATOM	39612	C5'	GUA	980	216.009	106.433	68.500	1.00200.51	A16S	ATOM	39665	C2	ADE	982	215.362	116.725	65.431	1.00200.60	A
ATOM	39613	C4'	GUA	980	217.092	106.905	67.557	1.00200.51	A16S	ATOM	39666	N1	ADE	982	214.789	117.918	65.628	1.00200.60	A
ATOM	39614	O4'	GUA	980	216.560	106.881	66.204	1.00200.51	A16S	ATOM	39667	C6	ADE	982	215.540	119.029	65.472	1.00200.60	A
ATOM	39615	C1'	GUA	980	217.017	108.017	65.487	1.00200.51	A16S	ATOM	39668	N6	ADE	982	214.963	120.218	65.664	1.00200.60	A
ATOM	39616	N9	GUA	980	215.861	108.860	65.187	1.00200.41	A16S	ATOM	39669	C5	ADE	982	216.892	118.859	65.111	1.00200.60	A
ATOM	39617	C4	GUA	980	215.777	109.829	64.210	1.00200.41	A16S	ATOM	39670	N7	ADE	982	217.919	119.763	64.880	1.00200.60	A
ATOM	39618	N3	GUA	980	216.763	110.188	63.358	1.00200.41	A16S	ATOM	39671	C8	ADE	982	218.946	119.006	64.581	1.00200.60	A
ATOM	39619	C2	GUA	980	216.376	111.144	62.527	1.00200.41	A16S	ATOM	39672	C2'	ADE	982	220.694	116.934	63.314	1.00200.66	A
ATOM	39620	N2	GUA	980	217.235	111.629	61.619	1.00200.41	A16S	ATOM	39673	O2'	ADE	982	220.957	115.879	62.449	1.00200.66	A
ATOM	39621	N1	GUA	980	215.118	111.699	62.526	1.00200.41	A16S	ATOM	39674	C3'	ADE	982	221.840	117.206	64.281	1.00200.66	A
ATOM	39622	C6	GUA	980	214.086	111.345	63.390	1.00200.41	A16S	ATOM	39675	O3'	ADE	982	223.110	117.038	63.664	1.00200.66	A
ATOM	39623	O6	GUA	980	212.985	111.904	63.298	1.00200.41	A16S	ATOM	39676	P	ADE	983	223.554	118.011	62.462	1.00200.66	A
ATOM	39624	C5	GUA	980	214.491	110.325	64.297	1.00200.41	A16S	ATOM	39677	O1P	ADE	983	222.863	117.538	61.234	1.00197.39	A
ATOM	39625	N7	GUA	980	213.787	109.695	65.315	1.00200.41	A16S	ATOM	39678	O2P	ADE	983	225.034	118.105	62.478	1.00197.39	A
ATOM	39626	C8	GUA	980	214.638	108.838	65.815	1.00200.41	A16S	ATOM	39679	O5'	ADE	983	222.965	119.442	62.844	1.00200.66	A
ATOM	39627	C2'	GUA	980	218.061	108.704	66.367	1.00200.51	A16S	ATOM	39680	C5'	ADE	983	221.951	120.045	62.043	1.00200.66	A
ATOM	39628	O2'	GUA	980	219.343	108.169	66.099	1.00200.51	A16S	ATOM	39681	C4'	ADE	983	222.401	122.121	62.976	1.00200.66	A
ATOM	39629	C3'	GUA	980	217.557	108.342	67.756	1.00200.51	A16S	ATOM	39682	O4'	ADE	983	222.312	123.294	62.813	1.00200.66	A
ATOM	39630	O3'	GUA	980	218.597	108.432	68.730	1.00200.51	A16S	ATOM	39683	C1'	ADE	983	223.312	123.294	62.813	1.00200.66	A
ATOM	39631	P	GUA	981	218.598	109.643	69.792	1.00200.54	A16S	ATOM	39684	N9	ADE	983	224.323	123.216	63.866	1.00197.39	A
ATOM	39632	O1P	GUA	981	219.164	109.116	71.060	1.00188.10	A16S	ATOM	39685	C4	ADE	983	224.707	124.249	64.687	1.00197.39	A
ATOM	39633	O2P	GUA	981	217.244	110.258	69.793	1.00188.10	A16S	ATOM	39686	N3	ADE	983	224.230	125.506	64.692	1.00197.39	A
ATOM	39634	O5'	GUA	981	219.621	110.711	69.195	1.00200.54	A16S	ATOM	39687	C2	ADE	983	224.839	126.233	65.623	1.00197.39	A
ATOM	39635	C5'	GUA	981	221.017	110.426	69.088	1.00200.54	A16S	ATOM	39688	N1	ADE	983	225.799	125.875	66.483	1.00197.39	A
ATOM	39636	C4'	GUA	981	221.600	111.142	67.891	1.00200.54	A16S	ATOM	39689	C6	ADE	983	226.258	124.605	66.449	1.00197.39	A
ATOM	39637	O4'	GUA	981	220.839	110.745	66.719	1.00200.54	A16S	ATOM	39690	N6	ADE	983	227.220	124.249	67.303	1.00197.39	A
ATOM	39638	C1'	GUA	981	219.160	112.163	65.972	1.00188.10	A16S	ATOM	39691	C5	ADE	983	225.690	123.732	65.509	1.00197.39	A
ATOM	39639	N9	GUA	981	218.431	112.902	65.076	1.00188.10	A16S	ATOM	39692	N7	ADE	983	225.919	122.394	65.218	1.00197.39	A
ATOM	39640	C3	GUA	981	218.913	113.504	63.974	1.00188.10	A16S	ATOM	39693	C8	ADE	983	225.084	122.137	64.240	1.00197.39	A
ATOM	39641	N4	GUA	981	217.969	114.146	63.314	1.00188.10	A16S	ATOM	39694	C2'	ADE	983	223.897	123.104	61.400	1.00200.66	A
ATOM	39642	C2	GUA	981	218.283	114.823	62.212	1.00188.10	A16S	ATOM	39695	O2'	ADE	983	223.224	124.111	60.550	1.00200.66	A
ATOM	39643	N2	GUA	981	216.653	114.181	63.693	1.00188.10	A16S	ATOM	39696	C3'	ADE	983	223.633	121.743	61.040	1.00200.66	A
ATOM	39644	N1	GUA	981	214.926	113.664	65.081	1.00188.10	A16S	ATOM	39697	O3'	ADE	983	223.515	121.600	59.621	1.00200.66	A
ATOM	39645	C6	GUA	981	216.133	113.566	64.826	1.00188.10	A16S	ATOM	39698	P	CYT	984	224.741	120.999	58.758	1.00200.66	A
ATOM	39646	O6	GUA	981	217.138	112.884	65.553	1.00188.10	A16S	ATOM	39699	O1P	CYT	984	224.567	121.478	57.363	1.00188.96	A
ATOM	39647	C5	GUA	981	217.057	112.154	66.730	1.00188.10	A16S	ATOM	39700	O2P	CYT	984	224.839	119.540	59.022	1.00188.96	A
ATOM	39648	N7	GUA	981	218.279	111.750	66.941	1.00188.10	A16S	ATOM	39701	O5'	CYT	984	226.043	121.704	59.348	1.00200.66	A
ATOM	39649	C8	GUA	981	221.447	113.014	66.439	1.00200.54	A16S	ATOM	39702	C5'	CYT	984	226.248	123.523	59.216	1.00200.66	A
ATOM	39650	O2'	GUA	981	222.716	113.008	65.817	1.00200.54	A16S	ATOM	39703	C4'	CYT	984	227.500	123.109	59.216	1.00200.66	A
ATOM	39651	O2'	GUA	981	221.510	112.664	67.919	1.00200.54	A16S	ATOM	39704	O4'	CYT	984	227.406	123.059	61.327	1.00200.66	A
ATOM	39652	C3'	GUA	981	222.661	113.241	68.531	1.00200.54	A16S	ATOM	39705	C1'	CYT	984	228.684	122.646	61.784	1.00200.66	A
ATOM	39653	O3'	GUA	981	222.734	114.834	68.752	1.00200.66	A16S	ATOM	39706	N1	CYT	984	228.617	121.213	62.116	1.00188.96	A
ATOM	39654	P	ADE	982	224.121	115.265	68.440	1.00200.60	A16S	ATOM	39707	C6	CYT	984	227.650	120.413	61.575	1.00188.96	A
ATOM	39655	O1P	ADE	982	222.148	115.156	70.077	1.00200.60	A16S	ATOM	39708	C2	CYT	984	229.563	120.679	62.996	1.00188.96	A
ATOM	39656	O2P	ADE	982	221.774	115.426	67.685	1.00200.66	A16S	ATOM	39709	O2	CYT	984	230.432	121.425	63.468	1.00188.96	A
ATOM	39657	O5'	ADE	982	222.246	116.383	67.685	1.00200.66	A16S	ATOM	39710	N3	CYT	984	229.506	119.364	63.310	1.00188.96	A
ATOM	39658	C5'	ADE	982	221.612	116.138	65.338	1.00200.66	A16S	ATOM	39711	C4	CYT	984	228.556	118.593	62.777	1.00188.96	A
ATOM	39659	C4'	ADE	982	220.169	116.097	65.477	1.00200.66	A16S	ATOM	39712	N4	CYT	984	228.536	117.301	63.115	1.00188.96	A
ATOM	39660	O4'	ADE	982	219.567	116.554	64.277	1.00200.66	A16S	ATOM	39713	C5	CYT	984	227.585	119.110	61.874	1.00188.96	A
ATOM	39661	C1'	ADE	982	218.664	117.662	64.591	1.00200.60	A16S	ATOM	39714	C2'	CYT	984	229.688	122.959	60.673	1.00200.66	A
ATOM	39662	N9	ADE	982					A16S	ATOM	39715	O2'	CYT	984	230.255	124.235	60.889	1.00200.66	A

ATOM	39716	C3' CYT	984	228.796	122.913	59.439	1.00200.66	Al6S	ATOM	39769	C2' GUA	987	237.615	109.605	58.973	1.00195.40
ATOM	39717	O3' CYT	984	229.340	123.700	58.383	1.00200.66	Al6S	ATOM	39770	N2' GUA	987	237.899	108.464	59.619	1.00195.40
ATOM	39718	P' CYT	985	230.408	123.051	57.373	1.00179.73	Al6S	ATOM	39771	N1' GUA	987	236.434	109.624	58.270	1.00195.40
ATOM	39719	O1P CYT	985	230.827	124.115	56.424	1.00143.50	Al6S	ATOM	39772	C6' GUA	987	235.956	110.705	57.536	1.00195.40
ATOM	39720	O2P CYT	985	229.844	121.780	56.848	1.00143.50	Al6S	ATOM	39773	O6' GUA	987	234.874	111.811	56.939	1.00195.40
ATOM	39721	O5' CYT	985	231.657	122.698	58.296	1.00179.73	Al6S	ATOM	39774	C5' GUA	987	236.848	111.817	57.538	1.00195.40
ATOM	39722	C5' CYT	985	232.596	123.699	58.679	1.00179.73	Al6S	ATOM	39775	N7' GUA	987	236.761	113.071	57.020	1.00195.40
ATOM	39723	C4' CYT	985	233.785	123.060	59.353	1.00179.73	Al6S	ATOM	39776	C8' GUA	987	237.851	113.680	57.404	1.00195.40
ATOM	39724	O4' CYT	985	233.335	122.378	60.552	1.00179.73	Al6S	ATOM	39777	C2' GUA	987	241.087	112.336	58.409	1.00153.74
ATOM	39725	C1' CYT	985	234.051	121.167	60.713	1.00179.73	Al6S	ATOM	39778	O2' GUA	987	241.944	112.146	59.517	1.00153.74
ATOM	39726	N1' CYT	985	233.092	120.058	60.646	1.00143.50	Al6S	ATOM	39779	C3' GUA	987	241.739	113.101	57.261	1.00153.74
ATOM	39727	C6' CYT	985	231.796	120.275	60.272	1.00143.50	Al6S	ATOM	39780	O3' GUA	987	243.120	112.802	57.112	1.00153.74
ATOM	39728	C2' CYT	985	233.526	118.776	60.975	1.00143.50	Al6S	ATOM	39781	P' GUA	988	243.605	111.886	55.890	1.00131.84
ATOM	39729	O2' CYT	985	234.710	118.612	61.308	1.00143.50	Al6S	ATOM	39782	O1P GUA	988	245.078	112.026	55.774	1.00147.93
ATOM	39730	N3' CYT	985	232.649	117.748	60.922	1.00143.50	Al6S	ATOM	39783	O2P GUA	988	242.748	112.197	54.720	1.00147.93
ATOM	39731	C4' CYT	985	231.384	117.970	60.558	1.00143.50	Al6S	ATOM	39784	O5' GUA	988	243.274	110.414	56.393	1.00131.84
ATOM	39732	N4' CYT	985	230.551	116.925	60.523	1.00143.50	Al6S	ATOM	39785	C5' GUA	988	243.849	109.919	57.596	1.00131.84
ATOM	39733	C5' CYT	985	230.917	119.270	60.215	1.00143.50	Al6S	ATOM	39786	C4' GUA	988	243.258	108.578	57.941	1.00131.84
ATOM	39734	C2' CYT	985	235.114	121.111	59.615	1.00179.73	Al6S	ATOM	39787	O4' GUA	988	241.884	108.740	58.382	1.00131.84
ATOM	39735	O2' CYT	985	236.329	121.631	60.112	1.00179.73	Al6S	ATOM	39788	C1' GUA	988	241.125	107.605	57.991	1.00131.84
ATOM	39736	C3' CYT	985	234.481	121.982	58.538	1.00179.73	Al6S	ATOM	39789	N9' GUA	988	240.035	108.051	57.126	1.00147.93
ATOM	39737	O3' CYT	985	235.456	122.556	57.675	1.00179.73	Al6S	ATOM	39790	C4' GUA	988	238.889	107.351	56.831	1.00147.93
ATOM	39738	P' CYT	986	236.088	121.676	56.489	1.00174.65	Al6S	ATOM	39791	N3' GUA	988	238.566	106.127	57.299	1.00147.93
ATOM	39739	O1P CYT	986	236.942	122.578	55.676	1.00196.79	Al6S	ATOM	39792	C2' GUA	988	237.398	105.714	56.836	1.00147.93
ATOM	39740	O2P CYT	986	234.994	120.915	55.838	1.00196.79	Al6S	ATOM	39793	N2' GUA	988	236.923	104.517	57.204	1.00147.93
ATOM	39741	O5' CYT	986	237.040	120.647	57.243	1.00174.65	Al6S	ATOM	39794	N1' GUA	988	236.610	106.445	55.980	1.00147.93
ATOM	39742	C5' CYT	986	238.146	121.114	58.001	1.00174.65	Al6S	ATOM	39795	C6' GUA	988	236.921	107.707	55.485	1.00147.93
ATOM	39743	C4' CYT	986	238.841	119.962	58.677	1.00174.65	Al6S	ATOM	39796	O6' GUA	988	236.138	108.278	54.716	1.00147.93
ATOM	39744	O1' CYT	986	237.932	119.311	59.601	1.00174.65	Al6S	ATOM	39797	C5' GUA	988	238.174	108.163	55.975	1.00147.93
ATOM	39745	C1' CYT	986	238.299	117.947	59.736	1.00174.65	Al6S	ATOM	39798	N7' GUA	988	238.854	109.351	55.740	1.00147.93
ATOM	39746	N1' CYT	986	237.113	117.108	59.511	1.00196.79	Al6S	ATOM	39799	C8' GUA	988	239.949	109.241	56.443	1.00147.93
ATOM	39747	C6' CYT	986	236.092	117.534	58.708	1.00196.79	Al6S	ATOM	39800	C2' GUA	988	242.587	105.702	58.205	1.00131.84
ATOM	39748	O2' CYT	986	237.047	115.854	60.133	1.00196.79	Al6S	ATOM	39801	O2' GUA	988	243.148	107.611	56.780	1.00131.84
ATOM	39749	C2' CYT	986	237.985	115.493	60.860	1.00196.79	Al6S	ATOM	39802	C3' GUA	988	244.387	106.977	56.496	1.00131.84
ATOM	39750	N3' CYT	986	235.967	115.070	59.927	1.00196.79	Al6S	ATOM	39803	O3' GUA	989	244.655	106.401	55.021	1.00133.47
ATOM	39751	C4' CYT	986	234.977	115.494	59.139	1.00196.79	Al6S	ATOM	39804	P' GUA	989	246.041	105.880	54.954	1.00133.47
ATOM	39752	N4' CYT	986	233.929	114.685	58.962	1.00196.79	Al6S	ATOM	39805	O1P GUA	989	244.208	107.426	54.047	1.00133.47
ATOM	39753	C5' CYT	986	235.016	116.767	58.495	1.00174.65	Al6S	ATOM	39806	O2P GUA	989	243.678	105.151	54.942	1.00133.47
ATOM	39754	C2' CYT	986	239.430	117.670	58.741	1.00174.65	Al6S	ATOM	39807	O5' GUA	989	243.800	104.091	55.882	1.00133.47
ATOM	39755	O2' CYT	986	240.671	117.670	59.416	1.00174.65	Al6S	ATOM	39808	C5' GUA	989	242.646	103.138	55.739	1.00133.47
ATOM	39756	C3' CYT	986	239.279	118.834	57.764	1.00174.65	Al6S	ATOM	39809	C4' GUA	989	241.416	103.797	56.136	1.00133.47
ATOM	39757	O3' CYT	986	240.509	119.157	57.125	1.00153.74	Al6S	ATOM	39810	O4' GUA	989	240.351	103.352	55.311	1.00133.47
ATOM	39758	P' GUA	987	241.190	118.094	56.131	1.00153.74	Al6S	ATOM	39811	C1' GUA	989	239.849	104.498	54.563	1.00133.47
ATOM	39759	O1P GUA	987	242.470	118.680	55.654	1.00195.40	Al6S	ATOM	39812	N9' GUA	989	238.682	104.546	53.844	1.00133.47
ATOM	39760	O2P GUA	987	240.168	117.660	55.145	1.00195.40	Al6S	ATOM	39813	C4' GUA	989	237.803	103.533	53.697	1.00133.47
ATOM	39761	O5' GUA	987	241.522	116.862	57.084	1.00153.74	Al6S	ATOM	39814	N3' GUA	989	236.768	103.880	52.954	1.00133.47
ATOM	39762	C5' GUA	987	241.631	115.544	56.570	1.00153.74	Al6S	ATOM	39815	C2' GUA	989	235.799	102.982	52.707	1.00133.47
ATOM	39763	C4' GUA	987	241.582	114.544	57.638	1.00153.74	Al6S	ATOM	39816	N2' GUA	989	236.604	105.129	52.398	1.00133.47
ATOM	39764	O4' GUA	987	240.278	114.578	58.336	1.00153.74	Al6S	ATOM	39817	N1' GUA	989	237.497	106.190	52.535	1.00133.47
ATOM	39765	C1' GUA	987	239.937	113.275	58.790	1.00153.74	Al6S	ATOM	39818	C6' GUA	989	237.253	107.279	51.992	1.00133.47
ATOM	39766	N9' GUA	987	238.655	112.900	58.200	1.00195.40	Al6S	ATOM	39819	O6' GUA	989	238.619	105.825	53.331	1.00133.47
ATOM	39767	C4' GUA	987	238.012	111.689	58.332	1.00195.40	Al6S	ATOM	39820	C5' GUA	989	239.732	106.562	53.711	1.00133.47
ATOM	39768	N3' GUA	987	238.455	110.626	59.037	1.00195.40	Al6S	ATOM	39821	N7' GUA	989				

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ATOM	39822	C8	GUA	989	240.434	105.735	54.437	1.00	99.85	Al6S	ATOM	39875	C4' ADE	992	241.646	105.056	39.664	1.00	90.22	Al
ATOM	39823	C2' GUA	989	240.918	102.264	54.399	1.00133.47	Al6S	ATOM	39876	C4' ADE	992	241.142	104.095	38.704	1.00	90.22	Al		
ATOM	39824	O2' GUA	989	240.751	100.997	55.002	1.00133.47	Al6S	ATOM	39877	C1' ADE	992	239.830	104.448	38.313	1.00	90.22	Al		
ATOM	39825	C3' GUA	989	242.374	102.697	54.315	1.00133.47	Al6S	ATOM	39878	N9 ADE	992	238.956	103.321	38.628	1.00	95.41	Al		
ATOM	39826	O3' GUA	989	243.252	101.657	53.916	1.00133.47	Al6S	ATOM	39879	C4 ADE	992	237.882	102.873	37.899	1.00	95.41	Al		
ATOM	39827	P	990	243.838	101.657	52.421	1.00166.66	Al6S	ATOM	39880	N3 ADE	992	237.398	103.386	36.755	1.00	95.41	Al		
ATOM	39828	O1P URI	990	244.814	100.540	52.322	1.0079.60	Al6S	ATOM	39881	C2 ADE	992	236.349	102.682	36.333	1.00	95.41	Al		
ATOM	39829	O2P URI	990	244.269	103.043	52.092	1.0079.60	Al6S	ATOM	39882	N1 ADE	992	235.773	101.605	36.883	1.00	95.41	Al		
ATOM	39830	O5' URI	990	242.565	101.305	51.532	1.00166.66	Al6S	ATOM	39883	C6 ADE	992	236.285	101.119	38.033	1.00	95.41	Al		
ATOM	39831	C5' URI	990	241.895	100.059	51.689	1.00166.66	Al6S	ATOM	39884	N6 ADE	992	235.715	100.048	38.585	1.00	95.41	Al		
ATOM	39832	C4' URI	990	240.715	99.978	50.753	1.00166.66	Al6S	ATOM	39885	C5 ADE	992	237.396	101.775	38.582	1.00	95.41	Al		
ATOM	39833	O4' URI	990	239.638	100.831	51.225	1.00166.66	Al6S	ATOM	39886	N7 ADE	992	238.144	101.538	39.723	1.00	95.41	Al		
ATOM	39834	C1' URI	990	238.943	101.375	50.112	1.00166.66	Al6S	ATOM	39887	C8 ADE	992	239.051	102.481	39.705	1.00	95.41	Al		
ATOM	39835	N1 URI	990	239.131	102.831	50.114	1.0079.60	Al6S	ATOM	39888	C2' ADE	992	239.470	105.766	39.005	1.00	90.22	Al		
ATOM	39836	C6 URI	990	240.234	103.419	50.693	1.0079.60	Al6S	ATOM	39889	O2' ADE	992	239.703	106.853	38.134	1.00	90.22	Al		
ATOM	39837	C2 URI	990	238.157	103.595	49.502	1.0079.60	Al6S	ATOM	39890	C3' ADE	992	240.417	105.767	40.201	1.00	90.22	Al		
ATOM	39838	O2 URI	990	237.171	103.104	48.976	1.0079.60	Al6S	ATOM	39891	O3' ADE	992	240.773	107.098	40.557	1.00	90.22	Al		
ATOM	39839	N3 URI	990	238.381	104.951	49.525	1.0079.60	Al6S	ATOM	39892	P	993	240.585	107.599	42.070	1.00	89.07	Al		
ATOM	39840	C4 URI	990	239.459	105.605	50.084	1.0079.60	Al6S	ATOM	39893	O1P ADE	993	241.685	108.551	42.361	1.00	81.27	Al		
ATOM	39841	O4 URI	990	239.500	106.837	50.055	1.0079.60	Al6S	ATOM	39894	O2P ADE	993	240.405	106.392	42.918	1.00	81.27	Al		
ATOM	39842	C5 URI	990	240.428	104.744	50.696	1.0079.60	Al6S	ATOM	39895	O5' ADE	993	239.228	108.432	42.035	1.00	89.07	Al		
ATOM	39843	C2' URI	990	239.558	100.750	48.862	1.00166.66	Al6S	ATOM	39896	C5' ADE	993	239.083	109.543	41.155	1.00	89.07	Al		
ATOM	39844	O2' URI	990	238.866	99.564	48.527	1.00166.66	Al6S	ATOM	39897	C4' ADE	993	237.737	109.491	40.479	1.00	89.07	Al		
ATOM	39845	C3' URI	990	240.972	100.491	49.350	1.00166.66	Al6S	ATOM	39898	O4' ADE	993	237.635	108.245	39.742	1.00	89.07	Al		
ATOM	39846	O3' URI	990	241.678	99.564	48.549	1.00166.66	Al6S	ATOM	39899	C1' ADE	993	236.323	107.725	39.859	1.00	89.07	Al		
ATOM	39847	P	991	242.709	100.112	47.450	1.00116.06	Al6S	ATOM	39900	N9 ADE	993	236.425	106.429	40.522	1.00	81.27	Al		
ATOM	39848	O1P GUA	991	243.392	98.934	46.859	1.0092.17	Al6S	ATOM	39901	C4 ADE	993	235.572	105.359	40.404	1.00	81.27	Al		
ATOM	39849	O2P GUA	991	243.514	101.200	48.063	1.0092.17	Al6S	ATOM	39902	N3 ADE	993	234.422	105.302	39.711	1.00	81.27	Al		
ATOM	39850	O5' GUA	991	241.759	100.764	46.350	1.00116.06	Al6S	ATOM	39903	C2 ADE	993	233.893	104.083	39.782	1.00	81.27	Al		
ATOM	39851	C5' GUA	991	240.813	99.966	45.646	1.00116.06	Al6S	ATOM	39904	N1 ADE	993	234.355	102.993	40.412	1.00	81.27	Al		
ATOM	39852	C4' GUA	991	239.852	100.838	44.872	1.00116.06	Al6S	ATOM	39905	C6 ADE	993	235.514	103.085	41.095	1.00	81.27	Al		
ATOM	39853	O4' GUA	991	239.034	101.622	45.789	1.00116.06	Al6S	ATOM	39906	N6 ADE	993	235.989	101.995	41.700	1.00	81.27	Al		
ATOM	39854	C1' GUA	991	238.707	102.869	45.187	1.00116.06	Al6S	ATOM	39907	C5 ADE	993	236.161	104.330	41.115	1.00	81.27	Al		
ATOM	39855	N9 GUA	991	239.406	103.925	45.906	1.0092.17	Al6S	ATOM	39908	N7 ADE	993	237.330	104.761	41.719	1.00	81.27	Al		
ATOM	39856	C4 GUA	991	239.047	105.248	45.976	1.0092.17	Al6S	ATOM	39909	C8 ADE	993	237.432	106.012	41.349	1.00	81.27	Al		
ATOM	39857	N3 GUA	991	237.933	105.795	45.452	1.0092.17	Al6S	ATOM	39910	C2' ADE	993	235.486	108.768	40.597	1.00	89.07	Al		
ATOM	39858	C2 GUA	991	237.890	107.105	45.643	1.0092.17	Al6S	ATOM	39911	O2' ADE	993	234.886	109.641	39.661	1.00	89.07	Al		
ATOM	39859	N2 GUA	991	236.843	107.817	45.191	1.0092.17	Al6S	ATOM	39912	C3' ADE	993	236.550	109.471	41.424	1.00	89.07	Al		
ATOM	39860	N1 GUA	991	238.867	107.817	46.290	1.0092.17	Al6S	ATOM	39913	O3' ADE	993	236.153	110.793	41.744	1.00	89.07	Al		
ATOM	39861	C6 GUA	991	240.023	107.273	46.836	1.0092.17	Al6S	ATOM	39914	P	994	235.431	111.083	43.145	1.00	94.00	Al		
ATOM	39862	O6 GUA	991	240.852	108.009	47.386	1.0092.17	Al6S	ATOM	39915	O1P ADE	994	235.327	112.558	43.269	1.00	75.70	Al		
ATOM	39863	C5 GUA	991	240.073	105.869	46.651	1.0092.17	Al6S	ATOM	39916	O2P ADE	994	236.138	110.303	44.194	1.00	75.70	Al		
ATOM	39864	N7 GUA	991	241.032	104.948	47.042	1.0092.17	Al6S	ATOM	39917	O5' ADE	994	233.972	110.457	42.982	1.00	94.00	Al		
ATOM	39865	C8 GUA	991	240.588	103.808	46.590	1.0092.17	Al6S	ATOM	39918	C5' ADE	994	232.934	111.151	42.290	1.00	94.00	Al		
ATOM	39866	C2' GUA	991	239.269	102.810	43.767	1.00116.06	Al6S	ATOM	39919	C4' ADE	994	231.757	110.227	42.055	1.00	94.00	Al		
ATOM	39867	O2' GUA	991	238.318	102.231	42.895	1.00116.06	Al6S	ATOM	39920	O4' ADE	994	232.229	109.067	41.319	1.00	94.00	Al		
ATOM	39868	C3' GUA	991	240.468	101.906	43.991	1.00116.06	Al6S	ATOM	39921	C1' ADE	994	231.625	107.893	41.827	1.00	94.00	Al		
ATOM	39869	O3' GUA	991	241.012	101.402	42.785	1.00116.06	Al6S	ATOM	39922	N9 ADE	994	232.662	107.134	42.512	1.00	75.70	Al		
ATOM	39870	P	992	242.283	102.139	42.138	1.0090.22	Al6S	ATOM	39923	C4 ADE	994	232.663	105.785	42.757	1.00	75.70	Al		
ATOM	39871	O1P ADE	992	242.831	101.244	41.087	1.0095.41	Al6S	ATOM	39924	N3 ADE	994	231.719	104.895	42.414	1.00	75.70	Al		
ATOM	39872	O2P ADE	992	243.160	102.593	43.243	1.0095.41	Al6S	ATOM	39925	C2 ADE	994	232.060	103.676	42.818	1.00	75.70	Al		
ATOM	39873	O5' ADE	992	241.665	103.443	41.458	1.0090.22	Al6S	ATOM	39926	N1 ADE	994	233.152	103.280	43.479	1.00	75.70	Al		
ATOM	39874	C5' ADE	992	242.481	104.341	40.704	1.0090.22	Al6S	ATOM	39927	C6 ADE	994	234.078	104.209	43.811	1.00	75.70	Al		

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ATOM	39928	N6	ADE	994	235.168	103.825	44.478	1.00	75.70	Al6S	ATOM	39981	O2P	CYT	997	228.396	104.552	53.814	1.00	98.86
ATOM	39929	C5	ADE	994	233.839	105.529	43.435	1.00	75.70	Al6S	ATOM	39982	O5'	CYT	997	229.454	102.529	54.794	1.00	98.86
ATOM	39930	N7	ADE	994	234.572	106.694	43.610	1.00	75.70	Al6S	ATOM	39983	C5'	CYT	997	229.601	101.136	55.039	1.00	98.86
ATOM	39931	C8	ADE	994	233.831	107.615	43.049	1.00	75.70	Al6S	ATOM	39984	C4'	CYT	997	230.943	100.862	55.669	1.00	98.86
ATOM	39932	C2'	ADE	994	230.526	108.337	42.785	1.00	94.00	Al6S	ATOM	39985	O4'	CYT	997	231.985	101.292	54.751	1.00	98.86
ATOM	39933	O2'	ADE	994	229.311	108.493	42.081	1.00	94.00	Al6S	ATOM	39986	C1'	CYT	997	233.080	101.818	55.485	1.00	98.86
ATOM	39934	C3'	ADE	994	231.103	109.647	43.303	1.00	94.00	Al6S	ATOM	39987	N1	CYT	997	233.220	103.247	55.157	1.00	98.86
ATOM	39935	O3'	ADE	994	230.079	110.508	43.791	1.00	94.00	Al6S	ATOM	39988	C6	CYT	997	232.141	103.997	54.776	1.00	98.86
ATOM	39936	P	GUI	995	229.752	110.553	45.363	1.00	94.04	Al6S	ATOM	39989	O2	CYT	997	234.483	103.832	55.261	1.00	98.86
ATOM	39937	O1P	GUI	995	228.415	111.181	46.082	1.00	82.73	Al6S	ATOM	39990	C2	CYT	997	235.445	103.120	55.588	1.00	98.86
ATOM	39938	O2P	GUI	995	230.909	111.141	46.082	1.00	82.73	Al6S	ATOM	39991	N3	CYT	997	234.627	105.153	55.004	1.00	98.86
ATOM	39939	O5'	GUI	995	229.624	109.024	45.782	1.00	94.04	Al6S	ATOM	39992	C4	CYT	997	233.565	105.883	54.655	1.00	98.86
ATOM	39940	C5'	GUI	995	228.540	108.243	45.307	1.00	94.04	Al6S	ATOM	39993	N4	CYT	997	233.750	107.190	54.439	1.00	98.86
ATOM	39941	C4'	GUI	995	228.805	106.785	45.557	1.00	94.04	Al6S	ATOM	39994	C5	CYT	997	232.266	105.307	54.521	1.00	98.86
ATOM	39942	O4'	GUI	995	230.105	106.458	45.004	1.00	94.04	Al6S	ATOM	39995	C2'	CYT	997	232.761	101.611	56.965	1.00	98.86
ATOM	39943	C1'	GUI	995	230.744	105.501	45.828	1.00	94.04	Al6S	ATOM	39996	O2'	CYT	997	233.270	100.366	57.400	1.00	98.86
ATOM	39944	N9	GUI	995	231.939	106.113	46.394	1.00	82.73	Al6S	ATOM	39997	C3'	CYT	997	231.242	101.643	56.938	1.00	98.86
ATOM	39945	C4	GUI	995	232.987	105.436	46.950	1.00	82.73	Al6S	ATOM	39998	O3'	CYT	997	230.675	101.033	58.089	1.00	98.86
ATOM	39946	N3	GUI	995	233.075	104.098	47.079	1.00	82.73	Al6S	ATOM	39999	P	GUI	998	230.251	101.949	59.341	1.00	98.86
ATOM	39947	C2	GUI	995	234.207	103.733	47.636	1.00	82.73	Al6S	ATOM	40000	O1P	GUI	998	229.858	101.035	60.445	1.00	98.86
ATOM	39948	N2	GUI	995	234.453	102.434	47.842	1.00	82.73	Al6S	ATOM	40001	O2P	GUI	998	229.302	102.995	58.881	1.00	98.86
ATOM	39949	N1	GUI	995	235.183	104.613	48.036	1.00	82.73	Al6S	ATOM	40002	O5'	GUI	998	231.605	102.670	59.760	1.00	98.86
ATOM	39950	C6	GUI	995	235.114	105.998	47.916	1.00	82.73	Al6S	ATOM	40003	C5'	GUI	998	232.686	101.926	60.302	1.00	98.86
ATOM	39951	O6	GUI	995	236.057	106.701	48.307	1.00	82.73	Al6S	ATOM	40004	C4'	GUI	998	233.844	102.842	60.597	1.00	98.86
ATOM	39952	C5	GUI	995	233.895	106.404	47.322	1.00	82.73	Al6S	ATOM	40005	O4'	GUI	998	234.294	103.445	59.354	1.00	98.86
ATOM	39953	N7	GUI	995	233.416	107.673	47.023	1.00	82.73	Al6S	ATOM	40006	C1'	GUI	998	234.699	104.785	59.591	1.00	98.86
ATOM	39954	C8	GUI	995	232.250	107.452	46.474	1.00	82.73	Al6S	ATOM	40007	N1	GUI	998	233.800	105.676	58.845	1.00	98.86
ATOM	39955	C2'	GUI	995	229.749	105.104	46.916	1.00	94.04	Al6S	ATOM	40008	C6	GUI	998	234.254	106.951	58.557	1.00	98.86
ATOM	39956	O2'	GUI	995	229.007	103.969	46.509	1.00	94.04	Al6S	ATOM	40009	C2	GUI	998	235.358	107.350	58.887	1.00	98.86
ATOM	39957	C3'	GUI	995	228.920	106.375	47.015	1.00	94.04	Al6S	ATOM	40010	O2	GUI	998	233.367	107.742	57.869	1.00	98.86
ATOM	39958	O3'	GUI	995	227.643	106.127	47.582	1.00	94.04	Al6S	ATOM	40011	N3	GUI	998	232.099	107.395	57.449	1.00	98.86
ATOM	39959	P	CYT	996	227.457	106.177	49.176	1.00	100.20	Al6S	ATOM	40012	C4	GUI	998	231.412	108.226	56.853	1.00	98.86
ATOM	39960	O1P	CYT	996	226.044	105.805	49.431	1.00	66.77	Al6S	ATOM	40013	O4	GUI	998	231.703	106.058	57.781	1.00	98.86
ATOM	39961	O2P	CYT	996	227.985	107.474	49.680	1.00	66.77	Al6S	ATOM	40014	C5	GUI	998	234.619	105.010	61.101	1.00	98.86
ATOM	39962	O5'	CYT	996	228.381	104.998	49.720	1.00	100.20	Al6S	ATOM	40015	C2'	GUI	998	235.862	104.690	61.633	1.00	98.86
ATOM	39963	C5'	CYT	996	228.021	103.634	49.514	1.00	100.20	Al6S	ATOM	40016	O2'	GUI	998	233.515	104.034	61.480	1.00	98.86
ATOM	39964	C4'	CYT	996	229.051	102.723	50.137	1.00	100.20	Al6S	ATOM	40017	C3'	GUI	998	233.534	103.688	62.860	1.00	98.86
ATOM	39965	O4'	CYT	996	230.323	102.892	49.452	1.00	100.20	Al6S	ATOM	40018	O3'	GUI	998	232.959	104.723	63.949	1.00	98.86
ATOM	39966	C1'	CYT	996	231.388	102.822	50.391	1.00	100.20	Al6S	ATOM	40019	P	GUI	999	232.674	103.953	65.187	1.00	98.86
ATOM	39967	N1	CYT	996	231.976	104.164	50.519	1.00	66.77	Al6S	ATOM	40020	O1P	GUI	999	231.883	105.536	63.327	1.00	98.86
ATOM	39968	C6	CYT	996	231.212	105.284	50.337	1.00	66.77	Al6S	ATOM	40021	O2P	GUI	999	234.198	105.679	64.235	1.00	98.86
ATOM	39969	C2	CYT	996	233.327	104.278	50.839	1.00	66.77	Al6S	ATOM	40022	O5'	GUI	999	235.443	106.243	64.742	1.00	98.86
ATOM	39970	O2	CYT	996	233.992	103.243	50.994	1.00	66.77	Al6S	ATOM	40023	C5'	GUI	999	236.443	106.597	65.885	1.00	98.86
ATOM	39971	N3	CYT	996	233.874	105.509	50.971	1.00	66.77	Al6S	ATOM	40024	C4'	GUI	999	237.212	108.061	63.619	1.00	98.86
ATOM	39972	C4	CYT	996	233.118	106.597	50.790	1.00	66.77	Al6S	ATOM	40025	O4'	GUI	999	236.897	106.677	63.577	1.00	98.86
ATOM	39973	N4	CYT	996	233.697	107.797	50.921	1.00	66.77	Al6S	ATOM	40026	C1'	GUI	999	236.381	108.755	62.640	1.00	98.86
ATOM	39974	C5	CYT	996	231.736	106.506	50.464	1.00	66.77	Al6S	ATOM	40027	N9	GUI	999	236.495	110.073	62.255	1.00	98.86
ATOM	39975	C2'	CYT	996	230.712	100.968	51.758	1.00	100.20	Al6S	ATOM	40028	C4	GUI	999	237.262	112.153	62.155	1.00	98.86
ATOM	39976	O2'	CYT	996	229.388	103.007	51.591	1.00	100.20	Al6S	ATOM	40029	N3	GUI	999	238.085	113.157	62.494	1.00	98.86
ATOM	39977	C3'	CYT	996	228.457	102.423	52.486	1.00	100.20	Al6S	ATOM	40030	C2	GUI	999	236.301	112.449	61.221	1.00	98.86
ATOM	39978	O3'	CYT	997	228.237	103.081	53.931	1.00	100.20	Al6S	ATOM	40031	N2	GUI	999	235.355	111.553	60.734	1.00	98.86
ATOM	39979	P	CYT	997	226.979	102.519	54.475	1.00	98.86	Al6S	ATOM	40032	N1	GUI	999					
ATOM	39980	O1P	CYT	997						Al6S	ATOM	40033	C6	GUI	999					

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ATOM	40034	O6	GUA	999	234.532	111.925	59.888	1.00199.92	Al6S	ATOM	40087	O3' GUA	1001	235.425	119.758	69.750	1.00180.54	A	
ATOM	40035	C5	GUA	999	235.497	110.270	61.325	1.00199.92	Al6S	ATOM	40088	P	GUA	1002	234.130	119.916	70.691	1.00200.66	A
ATOM	40036	N7	GUA	999	234.773	109.102	61.125	1.00199.92	Al6S	ATOM	40089	O1P GUA	1002	234.180	121.273	71.295	1.00200.66	A	
ATOM	40037	C8	GUA	999	235.332	108.233	61.923	1.00199.92	Al6S	ATOM	40090	O2P GUA	1002	234.043	118.721	71.573	1.00200.66	A	
ATOM	40038	C2' GUA	999	236.958	108.538	65.051	1.00189.10	Al6S	ATOM	40091	O5' GUA	1002	232.905	119.873	69.671	1.00200.66	A		
ATOM	40039	O2' GUA	999	238.160	108.509	65.795	1.00189.10	Al6S	ATOM	40092	C5' GUA	1002	232.519	121.037	68.942	1.00200.66	A		
ATOM	40040	C3' GUA	999	235.935	107.518	65.530	1.00189.10	Al6S	ATOM	40093	C4' GUA	1002	231.161	120.836	68.306	1.00200.66	A		
ATOM	40041	O3' GUA	999	235.900	107.406	66.947	1.00189.10	Al6S	ATOM	40094	O4' GUA	1002	231.255	119.905	67.195	1.00200.66	A		
ATOM	40042	P	GUA	1000	234.765	108.186	67.776	1.00149.75	Al6S	ATOM	40095	C1' GUA	1002	230.030	119.196	67.071	1.00200.66	A	
ATOM	40043	O1P GUA	1000	234.711	107.582	69.130	1.00200.66	Al6S	ATOM	40096	N9 GUA	1002	230.305	117.765	67.164	1.00200.66	A		
ATOM	40044	O2P GUA	1000	233.533	108.240	66.946	1.00200.66	Al6S	ATOM	40097	C4 GUA	1002	229.398	116.751	66.978	1.00200.66	A		
ATOM	40045	O5' GUA	1000	235.345	109.662	67.910	1.00149.75	Al6S	ATOM	40098	N3 GUA	1002	228.087	116.904	66.697	1.00200.66	A		
ATOM	40046	C5' GUA	1000	236.722	109.878	68.195	1.00149.75	Al6S	ATOM	40099	C2 GUA	1002	227.470	115.742	66.569	1.00200.66	A		
ATOM	40047	C4' GUA	1000	237.197	111.144	67.527	1.00149.75	Al6S	ATOM	40100	N2 GUA	1002	226.157	115.709	66.300	1.00200.66	A		
ATOM	40048	O4' GUA	1000	237.030	111.012	66.088	1.00149.75	Al6S	ATOM	40101	N1 GUA	1002	228.094	114.524	66.698	1.00200.66	A		
ATOM	40049	C1' GUA	1000	236.587	112.245	65.540	1.00149.75	Al6S	ATOM	40102	C6 GUA	1002	229.443	114.342	66.983	1.00200.66	A		
ATOM	40050	N9 GUA	1000	235.194	112.088	65.135	1.00200.66	Al6S	ATOM	40103	O6 GUA	1002	229.907	113.198	67.069	1.00200.66	A		
ATOM	40051	C4 GUA	1000	234.497	112.915	64.290	1.00200.66	Al6S	ATOM	40104	C5 GUA	1002	230.115	115.584	67.134	1.00200.66	A		
ATOM	40052	N3 GUA	1000	234.994	113.995	63.651	1.00200.66	Al6S	ATOM	40105	N7 GUA	1002	231.443	115.858	67.429	1.00200.66	A		
ATOM	40053	C2 GUA	1000	234.077	114.602	62.919	1.00200.66	Al6S	ATOM	40106	C8 GUA	1002	231.508	117.162	67.442	1.00200.66	A		
ATOM	40054	N2 GUA	1000	234.405	115.692	62.211	1.00200.66	Al6S	ATOM	40107	C2' GUA	1002	229.095	119.700	68.172	1.00200.66	A		
ATOM	40055	N1 GUA	1000	232.770	114.184	62.827	1.00200.66	Al6S	ATOM	40108	O2' GUA	1002	228.259	120.714	67.651	1.00200.66	A		
ATOM	40056	C6 GUA	1000	232.234	113.077	63.479	1.00200.66	Al6S	ATOM	40109	C3' GUA	1002	230.095	120.223	69.196	1.00200.66	A		
ATOM	40057	O6 GUA	1000	231.038	112.795	63.335	1.00200.66	Al6S	ATOM	40110	O3' GUA	1002	229.518	121.186	70.070	1.00200.66	A		
ATOM	40058	C5 GUA	1000	233.213	112.410	64.260	1.00200.66	Al6S	ATOM	40111	P	1003	229.006	120.732	71.526	1.00200.66	A		
ATOM	40059	N7 GUA	1000	233.112	111.274	65.052	1.00200.66	Al6S	ATOM	40112	O1P URI	1003	228.690	121.973	72.282	1.00192.61	A		
ATOM	40060	C8 GUA	1000	236.693	113.117	66.545	1.00200.66	Al6S	ATOM	40113	O2P URI	1003	229.980	119.756	72.087	1.00192.61	A		
ATOM	40061	C2' GUA	1000	237.990	113.835	66.663	1.00149.75	Al6S	ATOM	40114	O5' URI	1003	227.640	119.966	71.228	1.00200.66	A		
ATOM	40062	O2' GUA	1000	236.400	112.391	67.864	1.00149.75	Al6S	ATOM	40115	C5' URI	1003	226.391	120.565	71.556	1.00200.66	A		
ATOM	40063	C3' GUA	1000	236.808	112.981	69.087	1.00149.75	Al6S	ATOM	40116	C4' URI	1003	226.081	121.675	70.582	1.00200.66	A		
ATOM	40064	O3' GUA	1000	235.794	113.951	71.305	1.00180.54	Al6S	ATOM	40117	O4' URI	1003	224.918	121.911	68.171	1.00192.61	A		
ATOM	40065	P	GUA	1001	235.817	113.570	71.305	1.00200.66	Al6S	ATOM	40118	C1' URI	1003	223.784	121.061	68.171	1.00192.61	A	
ATOM	40066	O1P GUA	1001	235.502	113.963	69.135	1.00200.66	Al6S	ATOM	40119	N1 URI	1003	223.507	119.890	68.838	1.00192.61	A		
ATOM	40067	O2P GUA	1001	236.462	115.388	69.719	1.00180.54	Al6S	ATOM	40120	C6 URI	1003	223.507	119.890	68.838	1.00192.61	A		
ATOM	40068	O5' GUA	1001	235.667	116.562	69.753	1.00180.54	Al6S	ATOM	40121	C2 URI	1003	222.999	121.481	67.113	1.00192.61	A		
ATOM	40069	C5' GUA	1001	236.302	117.647	68.920	1.00180.54	Al6S	ATOM	40122	O2 URI	1003	223.207	122.514	66.503	1.00192.61	A		
ATOM	40070	C4' GUA	1001	236.601	117.131	67.593	1.00180.54	Al6S	ATOM	40123	N3 URI	1003	221.958	120.646	66.798	1.00192.61	A		
ATOM	40071	O4' GUA	1001	236.017	117.565	65.954	1.00180.54	Al6S	ATOM	40124	C4 URI	1003	221.626	119.465	67.422	1.00192.61	A		
ATOM	40072	C1' GUA	1001	235.017	117.582	66.612	1.00180.54	Al6S	ATOM	40125	O4 URI	1003	220.659	118.822	67.019	1.00192.61	A		
ATOM	40073	N9 GUA	1001	234.103	118.282	65.212	1.00200.66	Al6S	ATOM	40126	C5 URI	1003	222.482	119.100	68.510	1.00192.61	A		
ATOM	40074	C4 GUA	1001	234.158	119.605	64.943	1.00200.66	Al6S	ATOM	40127	C2' URI	1003	224.513	123.057	69.488	1.00200.66	A		
ATOM	40075	N3 GUA	1001	234.158	119.605	64.943	1.00200.66	Al6S	ATOM	40128	O2' URI	1003	225.305	124.195	69.212	1.00200.66	A		
ATOM	40076	C2 GUA	1001	233.127	120.006	64.217	1.00200.66	Al6S	ATOM	40129	C3' URI	1003	224.808	122.455	70.857	1.00200.66	A		
ATOM	40077	N2 GUA	1001	233.025	121.293	63.855	1.00200.66	Al6S	ATOM	40130	O3' URI	1003	225.043	123.468	71.830	1.00200.66	A		
ATOM	40078	N1 GUA	1001	232.120	119.176	63.792	1.00200.66	Al6S	ATOM	40131	P	1004	224.241	123.438	73.222	1.00200.66	A		
ATOM	40079	C6 GUA	1001	232.041	117.813	64.058	1.00200.66	Al6S	ATOM	40132	O1P GUA	1004	225.119	122.783	74.225	1.00200.66	A		
ATOM	40080	O6 GUA	1001	231.085	117.156	63.631	1.00200.66	Al6S	ATOM	40133	O2P GUA	1004	222.881	122.896	72.974	1.00200.66	A		
ATOM	40081	C5 GUA	1001	233.144	117.367	64.831	1.00200.66	Al6S	ATOM	40134	O5' GUA	1004	224.102	124.977	73.612	1.00200.48	A		
ATOM	40082	N7 GUA	1001	233.450	116.102	65.314	1.00200.66	Al6S	ATOM	40135	C5' GUA	1004	222.938	125.717	73.259	1.00200.48	A		
ATOM	40083	C8 GUA	1001	234.568	116.265	65.968	1.00200.66	Al6S	ATOM	40136	C4' GUA	1004	223.199	126.533	72.016	1.00200.48	A		
ATOM	40084	C2' GUA	1001	235.944	119.384	67.366	1.00180.54	Al6S	ATOM	40137	O4' GUA	1004	223.550	125.636	70.925	1.00200.48	A		
ATOM	40085	O2' GUA	1001	237.145	120.112	67.535	1.00180.54	Al6S	ATOM	40138	C1' GUA	1004	222.985	126.111	69.711	1.00200.48	A		
ATOM	40086	C3' GUA	1001	235.391	118.834	68.671	1.00180.54	Al6S	ATOM	40139	N9	GUA	1004	221.983	125.146	69.265	1.00200.66	A	

ATOM	40140	C4	GUA	1004	221.370	125.115	68.035	1.00200.66	Al6S	ATOM	40193	O3' CYT	1006	211.165	131.601	73.596	1.00200.66	
ATOM	40141	N3	GUA	1004	221.594	125.970	67.015	1.00200.66	Al6S	ATOM	40194	P	1007	211.379	131.766	75.181	1.00200.66	
ATOM	40142	C2	GUA	1004	220.843	125.691	65.962	1.00200.66	Al6S	ATOM	40195	OLP CYT	1007	210.794	133.075	75.570	1.00192.29	
ATOM	40143	N2	GUA	1004	220.934	126.447	64.858	1.00200.66	Al6S	ATOM	40196	O2P CYT	1007	212.801	131.478	75.496	1.00192.29	
ATOM	40144	N1	GUA	1004	219.946	124.652	65.913	1.00200.66	Al6S	ATOM	40197	O5' CYT	1007	210.482	130.609	75.811	1.00200.66	
ATOM	40145	C6	GUA	1004	219.701	123.757	66.950	1.00200.66	Al6S	ATOM	40198	C5' CYT	1007	209.061	130.699	75.797	1.00200.66	
ATOM	40146	O6	GUA	1004	218.869	122.854	66.801	1.00200.66	Al6S	ATOM	40199	C4' CYT	1007	208.444	129.387	76.223	1.00200.66	
ATOM	40147	C5	GUA	1004	220.498	124.047	68.088	1.00200.66	Al6S	ATOM	40200	O4' CYT	1007	208.793	128.353	75.262	1.00200.66	
ATOM	40148	N7	GUA	1004	220.565	123.416	69.323	1.00200.66	Al6S	ATOM	40201	C1' CYT	1007	208.944	127.109	75.933	1.00200.66	
ATOM	40149	C8	GUA	1004	221.458	124.099	69.986	1.00200.66	Al6S	ATOM	40202	N1 CYT	1007	210.344	126.680	75.803	1.00192.29	
ATOM	40150	C2'	GUA	1004	222.371	127.477	70.019	1.00200.48	Al6S	ATOM	40203	C6 CYT	1007	211.320	127.568	75.448	1.00192.29	
ATOM	40151	O2'	GUA	1004	223.332	128.497	69.822	1.00200.48	Al6S	ATOM	40204	C2 CYT	1007	210.664	125.345	76.065	1.00192.29	
ATOM	40152	C3'	GUA	1004	222.000	127.297	71.483	1.00200.48	Al6S	ATOM	40205	O2 CYT	1007	209.754	124.559	76.374	1.00192.29	
ATOM	40153	O3'	GUA	1004	221.830	128.540	72.146	1.00200.48	Al6S	ATOM	40206	N3 CYT	1007	211.954	124.946	75.975	1.00192.29	
ATOM	40154	P	CYT	1005	220.387	128.929	72.733	1.00199.79	Al6S	ATOM	40207	C4 CYT	1007	212.902	125.824	75.637	1.00192.29	
ATOM	40155	OLP CYT	1005	220.366	130.407	72.884	1.00195.38	Al6S	ATOM	40208	N4 CYT	1007	214.163	125.390	75.568	1.00192.29		
ATOM	40156	O2P CYT	1005	220.127	128.066	73.916	1.00195.38	Al6S	ATOM	40209	C5 CYT	1007	212.600	127.187	75.355	1.00192.29		
ATOM	40157	O5' CYT	1005	219.367	128.522	71.573	1.00199.79	Al6S	ATOM	40210	C2' CYT	1007	208.571	127.347	77.396	1.00200.66		
ATOM	40158	C5' CYT	1005	219.371	129.201	70.315	1.00199.79	Al6S	ATOM	40211	O2' CYT	1007	207.195	127.084	77.593	1.00200.66		
ATOM	40159	C4' CYT	1005	218.163	128.805	69.488	1.00199.79	Al6S	ATOM	40212	C3' CYT	1007	208.827	128.819	77.547	1.00200.66		
ATOM	40160	O4' CYT	1005	218.262	127.415	69.087	1.00199.79	Al6S	ATOM	40213	O3' CYT	1007	208.280	129.412	78.664	1.00200.66		
ATOM	40161	C1' CYT	1005	216.960	126.874	68.946	1.00199.79	Al6S	ATOM	40214	P	1008	208.889	129.193	80.136	1.00200.66		
ATOM	40162	N1 CYT	1005	216.888	125.608	69.699	1.00195.38	Al6S	ATOM	40215	OLP CYT	1008	208.164	130.093	81.068	1.00200.66		
ATOM	40163	C6 CYT	1005	217.976	125.136	70.380	1.00195.38	Al6S	ATOM	40216	O2P CYT	1008	210.368	129.273	80.044	1.00200.66		
ATOM	40164	C2 CYT	1005	215.689	124.881	69.694	1.00195.38	Al6S	ATOM	40217	O5' CYT	1008	208.495	127.691	80.486	1.00200.66		
ATOM	40165	O2 CYT	1005	214.710	125.339	69.083	1.00195.38	Al6S	ATOM	40218	C5' CYT	1008	207.130	127.309	80.618	1.00200.66		
ATOM	40166	N3 CYT	1005	215.628	123.701	70.354	1.00195.38	Al6S	ATOM	40219	C4' CYT	1008	207.031	125.893	81.127	1.00200.66		
ATOM	40167	C4 CYT	1005	216.701	123.244	71.005	1.00195.38	Al6S	ATOM	40220	O4' CYT	1008	207.505	124.973	80.109	1.00200.66		
ATOM	40168	N4 CYT	1005	216.599	122.070	71.635	1.00195.38	Al6S	ATOM	40221	C1' CYT	1008	208.151	123.871	80.728	1.00200.66		
ATOM	40169	C5 CYT	1005	217.928	123.969	71.039	1.00195.38	Al6S	ATOM	40222	N1 CYT	1008	209.545	123.827	80.260	1.00200.66		
ATOM	40170	C2' CYT	1005	215.950	127.951	69.356	1.00199.79	Al6S	ATOM	40223	C6 CYT	1008	210.167	124.954	79.797	1.00200.66		
ATOM	40171	O2' CYT	1005	215.426	128.565	68.196	1.00199.79	Al6S	ATOM	40224	C2 CYT	1008	210.230	122.609	80.297	1.00200.66		
ATOM	40172	C3' CYT	1005	216.813	128.902	70.180	1.00199.79	Al6S	ATOM	40225	O2 CYT	1008	209.641	121.602	80.724	1.00200.66		
ATOM	40173	O3' CYT	1005	216.633	130.235	71.437	1.00200.66	Al6S	ATOM	40226	N3 CYT	1008	211.513	122.557	79.867	1.00200.66		
ATOM	40174	P	CYT	1006	215.833	130.988	71.437	1.00200.66	Al6S	ATOM	40227	C4 CYT	1008	212.110	123.662	79.414	1.00200.66	
ATOM	40175	OLP CYT	1006	215.866	132.448	71.166	1.00189.31	Al6S	ATOM	40228	N4 CYT	1008	213.376	123.563	78.995	1.00200.66		
ATOM	40176	O2P CYT	1006	216.602	130.437	72.581	1.00189.31	Al6S	ATOM	40229	C5 CYT	1008	211.437	124.918	79.359	1.00200.66		
ATOM	40177	O5' CYT	1006	214.313	130.549	71.609	1.00200.66	Al6S	ATOM	40230	C2' CYT	1008	208.032	124.067	82.241	1.00200.66		
ATOM	40178	C5' CYT	1006	213.255	131.371	71.123	1.00200.66	Al6S	ATOM	40231	O2' CYT	1008	206.893	123.379	82.718	1.00200.66		
ATOM	40179	C4' CYT	1006	211.920	130.749	71.454	1.00200.66	Al6S	ATOM	40232	C3' CYT	1008	207.897	125.582	82.335	1.00200.66		
ATOM	40180	O4' CYT	1006	211.632	129.453	70.806	1.00200.66	Al6S	ATOM	40233	O3' CYT	1008	207.270	126.005	83.541	1.00200.66		
ATOM	40181	C1' CYT	1006	211.141	128.543	71.643	1.00200.66	Al6S	ATOM	40234	P	1009	208.144	126.734	84.677	1.00200.66		
ATOM	40182	N1 CYT	1006	212.054	127.434	71.964	1.00189.31	Al6S	ATOM	40235	OLP GUA	1009	207.258	126.958	85.848	1.00200.66		
ATOM	40183	C6 CYT	1006	213.401	127.643	72.077	1.00189.31	Al6S	ATOM	40236	O2P GUA	1009	208.854	127.885	84.061	1.00200.66		
ATOM	40184	O2 CYT	1006	211.521	126.155	72.149	1.00189.31	Al6S	ATOM	40237	O5' GUA	1009	209.224	125.636	85.083	1.00200.66		
ATOM	40185	C2 CYT	1006	212.352	125.994	72.041	1.00189.31	Al6S	ATOM	40238	C5' GUA	1009	208.818	124.383	85.625	1.00200.66		
ATOM	40186	N3 CYT	1006	213.666	125.341	72.542	1.00189.31	Al6S	ATOM	40239	C4' GUA	1009	209.996	123.441	85.714	1.00200.66		
ATOM	40187	C4 CYT	1006	213.666	125.341	72.542	1.00189.31	Al6S	ATOM	40240	O4' GUA	1009	210.470	123.117	84.377	1.00200.66		
ATOM	40188	N4 CYT	1006	214.438	124.297	72.826	1.00189.31	Al6S	ATOM	40241	C1' GUA	1009	211.881	122.957	84.398	1.00200.66		
ATOM	40189	C5 CYT	1006	214.438	124.297	72.826	1.00189.31	Al6S	ATOM	40242	N9 GUA	1009	212.473	123.999	83.564	1.00200.21		
ATOM	40190	C2' CYT	1006	210.663	129.325	72.870	1.00200.66	Al6S	ATOM	40243	C4 GUA	1009	213.740	123.997	83.031	1.00200.21		
ATOM	40191	O2' CYT	1006	209.346	129.793	72.661	1.00200.66	Al6S	ATOM	40244	N3 GUA	1009	214.658	123.016	83.173	1.00200.21		
ATOM	40192	C3' CYT	1006	211.684	130.454	72.927	1.00200.66	Al6S	ATOM	40245	C2 GUA	1009	215.788	123.304	82.549	1.00200.21		

ATOM	40246	N2	GUA	1009	216.809	122.434	82.583	1.00200.21	Al6s	ATOM	40299	O3' GUA	1011	219.664	120.208	85.436	1.00200.66	Al	
ATOM	40247	N1	GUA	1009	215.999	124.464	81.844	1.00200.21	Al6s	ATOM	40300	P	ADE	1012	219.453	119.184	84.214	1.00200.66	Al
ATOM	40248	C6	GUA	1009	215.070	125.487	81.686	1.00200.21	Al6s	ATOM	40301	O1P ADE	1012	220.746	119.091	83.490	1.00200.66	Al	
ATOM	40249	O6	GUA	1009	215.366	126.494	81.032	1.00200.21	Al6s	ATOM	40302	O2P ADE	1012	218.223	119.572	83.475	1.00200.66	Al	
ATOM	40250	C5	GUA	1009	213.851	125.190	82.347	1.00200.21	Al6s	ATOM	40303	O5' ADE	1012	219.187	117.780	84.921	1.00200.66	Al	
ATOM	40251	N7	GUA	1009	212.676	125.923	82.440	1.00200.21	Al6s	ATOM	40304	C5' ADE	1012	220.270	116.953	85.336	1.00200.66	Al	
ATOM	40252	C8	GUA	1009	211.888	125.179	83.167	1.00200.21	Al6s	ATOM	40305	C4' ADE	1012	219.801	115.529	85.523	1.00200.66	Al	
ATOM	40253	C2' GUA	1009	212.317	123.080	85.859	1.00200.66	Al6s	ATOM	40306	O4' ADE	1012	218.835	115.477	86.608	1.00200.66	Al		
ATOM	40254	O2' GUA	1009	212.311	121.801	86.461	1.00200.66	Al6s	ATOM	40307	C1' ADE	1012	217.881	114.458	86.347	1.00200.66	Al		
ATOM	40255	C3' GUA	1009	211.230	123.994	86.405	1.00200.66	Al6s	ATOM	40308	N9 ADE	1012	216.546	115.060	86.329	1.00200.66	Al		
ATOM	40256	O3' GUA	1009	211.113	123.927	87.820	1.00200.66	Al6s	ATOM	40309	C4 ADE	1012	215.353	114.380	86.240	1.00200.66	Al		
ATOM	40257	P	CYT	1010	211.527	125.201	88.710	1.00200.66	Al6s	ATOM	40310	N3 ADE	1012	215.175	113.049	86.157	1.00200.66	Al	
ATOM	40258	O1P	CYT	1010	210.750	125.120	89.973	1.00200.66	Al6s	ATOM	40311	C2 ADE	1012	213.878	112.752	86.082	1.00200.66	Al	
ATOM	40259	O2P	CYT	1010	211.428	126.421	87.864	1.00200.66	Al6s	ATOM	40312	N1 ADE	1012	212.818	113.572	86.079	1.00200.66	Al	
ATOM	40260	O5' CYT	1010	213.066	124.954	89.048	1.00200.66	Al6s	ATOM	40313	C6 ADE	1012	213.032	114.905	86.162	1.00200.66	Al		
ATOM	40261	C5' CYT	1010	213.934	126.046	89.343	1.00200.66	Al6s	ATOM	40314	N6 ADE	1012	211.977	115.723	86.155	1.00200.66	Al		
ATOM	40262	C4' CYT	1010	215.288	125.538	89.788	1.00200.66	Al6s	ATOM	40315	C5 ADE	1012	214.365	115.350	86.249	1.00200.66	Al		
ATOM	40263	O4' CYT	1010	215.150	124.810	91.034	1.00200.66	Al6s	ATOM	40316	N7 ADE	1012	216.214	116.392	86.391	1.00200.66	Al		
ATOM	40264	C1' CYT	1010	216.166	123.826	91.118	1.00200.66	Al6s	ATOM	40317	C8 ADE	1012	218.264	113.802	85.017	1.00200.66	Al		
ATOM	40265	N1 CYT	1010	215.548	122.527	91.430	1.00200.66	Al6s	ATOM	40318	C2' ADE	1012	219.033	112.641	85.259	1.00200.66	Al		
ATOM	40266	C6 CYT	1010	216.334	122.279	91.138	1.00200.66	Al6s	ATOM	40319	O2' ADE	1012	219.060	114.916	84.344	1.00200.66	Al		
ATOM	40267	C2 CYT	1010	217.524	121.793	92.287	1.00200.66	Al6s	ATOM	40320	C3' ADE	1012	219.962	114.391	83.372	1.00200.66	Al		
ATOM	40268	O2 CYT	1010	215.779	120.346	92.346	1.00200.66	Al6s	ATOM	40321	O3' ADE	1012	219.962	114.391	83.372	1.00200.66	Al		
ATOM	40269	N3 CYT	1010	214.495	120.115	92.064	1.00200.66	Al6s	ATOM	40322	P	GUA	1013	219.790	114.786	81.820	1.00200.66	Al	
ATOM	40270	C4 CYT	1010	214.495	120.115	92.064	1.00200.66	Al6s	ATOM	40323	O1P	GUA	1013	220.541	113.781	81.025	1.00188.26	Al	
ATOM	40271	N4 CYT	1010	213.987	118.923	92.391	1.00200.66	Al6s	ATOM	40324	O2P	GUA	1013	220.110	116.227	81.670	1.00188.26	Al	
ATOM	40272	C5 CYT	1010	213.673	121.098	91.435	1.00200.66	Al6s	ATOM	40325	O5' GUA	1013	218.236	114.592	81.521	1.00200.66	Al		
ATOM	40273	C2' CYT	1010	216.952	123.849	89.803	1.00200.66	Al6s	ATOM	40326	C5' GUA	1013	217.586	113.349	81.779	1.00200.66	Al		
ATOM	40274	O2' CYT	1010	218.146	124.583	89.984	1.00200.66	Al6s	ATOM	40327	C4' GUA	1013	216.087	113.539	81.817	1.00200.66	Al		
ATOM	40275	C3' CYT	1010	215.975	124.546	88.861	1.00200.66	Al6s	ATOM	40328	O4' GUA	1013	215.781	114.608	82.754	1.00200.66	Al		
ATOM	40276	O3' CYT	1010	216.680	125.229	87.828	1.00200.66	Al6s	ATOM	40329	C1' GUA	1013	214.675	115.361	82.279	1.00200.66	Al		
ATOM	40277	P	GUA	1011	216.639	124.665	86.322	1.00200.66	Al6s	ATOM	40330	N9 GUA	1013	215.138	116.705	81.962	1.00188.26	Al	
ATOM	40278	O1P	GUA	1011	217.541	125.526	85.515	1.00197.06	Al6s	ATOM	40331	C4 GUA	1013	214.344	117.803	81.760	1.00188.26	Al	
ATOM	40279	O2P	GUA	1011	215.218	124.512	85.920	1.00197.06	Al6s	ATOM	40332	N3 GUA	1013	212.996	117.829	81.842	1.00188.26	Al	
ATOM	40280	O5' GUA	1011	217.287	123.212	86.421	1.00200.66	Al6s	ATOM	40333	C2 GUA	1013	212.508	119.030	81.586	1.00188.26	Al		
ATOM	40281	C5' GUA	1011	218.669	123.044	86.722	1.00200.66	Al6s	ATOM	40334	N2 GUA	1013	211.181	119.236	81.626	1.00188.26	Al		
ATOM	40282	C4' GUA	1011	218.919	121.650	87.246	1.00200.66	Al6s	ATOM	40335	N1 GUA	1013	213.286	120.119	81.270	1.00188.26	Al		
ATOM	40283	O4' GUA	1011	218.055	121.432	88.393	1.00200.66	Al6s	ATOM	40336	C6 GUA	1013	214.676	120.112	81.175	1.00188.26	Al		
ATOM	40284	C1' GUA	1011	217.615	120.085	88.414	1.00200.66	Al6s	ATOM	40337	O6 GUA	1013	215.279	121.147	80.870	1.00188.26	Al		
ATOM	40285	N9 GUA	1011	216.162	120.078	88.287	1.00197.06	Al6s	ATOM	40338	C5 GUA	1013	215.210	118.831	81.456	1.00188.26	Al		
ATOM	40286	C4 GUA	1011	215.304	119.137	88.800	1.00197.06	Al6s	ATOM	40339	N7 GUA	1013	216.526	118.389	81.479	1.00188.26	Al		
ATOM	40287	N3 GUA	1011	215.658	118.053	89.526	1.00197.06	Al6s	ATOM	40340	C8 GUA	1013	216.435	117.125	81.787	1.00188.26	Al		
ATOM	40288	C2 GUA	1011	214.608	117.329	89.877	1.00197.06	Al6s	ATOM	40341	C2' GUA	1013	214.158	114.655	81.028	1.00200.66	Al		
ATOM	40289	N2 GUA	1011	214.780	116.214	90.605	1.00197.06	Al6s	ATOM	40342	O2' GUA	1013	213.150	113.728	81.380	1.00200.66	Al		
ATOM	40290	N1 GUA	1011	213.313	117.645	89.541	1.00197.06	Al6s	ATOM	40343	C3' GUA	1013	215.433	113.998	80.521	1.00200.66	Al		
ATOM	40291	C6 GUA	1011	212.927	118.756	88.793	1.00197.06	Al6s	ATOM	40344	O3' GUA	1013	215.146	112.906	79.656	1.00200.66	Al		
ATOM	40292	O6 GUA	1011	211.729	118.946	88.543	1.00197.06	Al6s	ATOM	40345	P	GUA	1014	214.703	113.195	78.138	1.00200.66	Al	
ATOM	40293	C5 GUA	1011	214.045	119.541	88.413	1.00197.06	Al6s	ATOM	40346	O1P	GUA	1014	214.595	111.886	77.438	1.00197.52	Al	
ATOM	40294	N7 GUA	1011	214.109	120.716	87.676	1.00197.06	Al6s	ATOM	40347	O2P	GUA	1014	215.593	114.253	77.590	1.00197.52	Al	
ATOM	40295	C8 GUA	1011	215.382	120.998	87.628	1.00197.06	Al6s	ATOM	40348	O5' GUA	1014	213.238	113.803	78.277	1.00200.66	Al		
ATOM	40296	C2' GUA	1011	218.309	119.360	87.260	1.00200.66	Al6s	ATOM	40349	C5' GUA	1014	212.159	113.010	78.761	1.00200.66	Al		
ATOM	40297	O2' GUA	1011	219.496	118.744	87.714	1.00200.66	Al6s	ATOM	40350	C4' GUA	1014	210.875	113.797	78.700	1.00200.66	Al		
ATOM	40298	C3' GUA	1011	218.573	120.511	86.299	1.00200.66	Al6s	ATOM	40351	O4' GUA	1014	210.981	114.944	79.585	1.00200.66	Al		

ATOM	40352	C1' GUA	1014	210.355	116.067	78.988	1.00200.66	Al6S	ATOM	40405	C6 GUA	1016	212.745	121.872	70.843	1.00158.36	F
ATOM	40353	N9 GUA	1014	211.379	117.074	78.735	1.00197.52	Al6S	ATOM	40406	O6 GUA	1016	213.811	121.516	71.359	1.00158.36	F
ATOM	40354	C4 GUA	1014	211.168	118.378	78.355	1.00197.52	Al6S	ATOM	40407	C5 GUA	1016	211.565	121.107	70.622	1.00158.36	F
ATOM	40355	N3 GUA	1014	209.966	118.958	78.147	1.00197.52	Al6S	ATOM	40408	N7 GUA	1016	211.281	119.778	70.912	1.00158.36	F
ATOM	40356	C2 GUA	1014	210.084	120.227	77.789	1.00197.52	Al6S	ATOM	40409	C8 GUA	1016	210.057	119.609	70.489	1.00158.36	F
ATOM	40357	N2 GUA	1014	208.986	120.958	77.541	1.00197.52	Al6S	ATOM	40410	C2' GUA	1016	208.241	120.959	67.812	1.00200.66	F
ATOM	40358	N1 GUA	1014	211.287	120.875	77.649	1.00197.52	Al6S	ATOM	40411	O2' GUA	1016	207.305	121.900	67.327	1.00200.66	F
ATOM	40359	C6 GUA	1014	212.537	120.301	77.709	1.00197.52	Al6S	ATOM	40412	C3' GUA	1016	207.882	119.523	67.449	1.00200.66	F
ATOM	40360	O6 GUA	1014	213.562	120.981	77.829	1.00197.52	Al6S	ATOM	40413	O3' GUA	1016	207.320	119.470	66.140	1.00200.66	F
ATOM	40361	C5 GUA	1014	212.426	118.934	78.242	1.00197.52	Al6S	ATOM	40414	P ADE	1017	208.279	119.607	64.854	1.00200.44	F
ATOM	40362	N7 GUA	1014	213.406	117.999	78.543	1.00197.52	Al6S	ATOM	40415	OLP ADE	1017	207.457	119.334	63.645	1.00200.66	F
ATOM	40363	C8 GUA	1014	212.741	116.913	78.829	1.00197.52	Al6S	ATOM	40416	O2P ADE	1017	209.503	118.805	65.104	1.00200.66	F
ATOM	40364	C2' GUA	1014	209.638	115.577	77.706	1.00200.66	Al6S	ATOM	40417	O5' ADE	1017	208.692	121.147	64.826	1.00200.44	F
ATOM	40365	O2' GUA	1014	208.346	115.199	77.987	1.00200.66	Al6S	ATOM	40418	C5' ADE	1017	207.851	122.118	64.206	1.00200.44	F
ATOM	40366	C3' GUA	1014	210.567	114.397	77.338	1.00200.66	Al6S	ATOM	40419	C4' ADE	1017	208.636	123.371	63.884	1.00200.44	F
ATOM	40367	O3' GUA	1014	209.905	113.454	76.501	1.00200.66	Al6S	ATOM	40420	O4' ADE	1017	209.125	123.965	65.119	1.00200.44	F
ATOM	40368	P GUA	1015	210.343	113.310	74.960	1.00200.66	Al6S	ATOM	40421	C1' ADE	1017	210.403	124.544	64.897	1.00200.44	F
ATOM	40369	OLP GUA	1015	209.799	112.021	74.456	1.00183.76	Al6S	ATOM	40422	N9 ADE	1017	211.385	123.780	65.661	1.00200.66	F
ATOM	40370	O2P GUA	1015	211.803	113.576	74.871	1.00183.76	Al6S	ATOM	40423	C4 ADE	1017	212.686	124.147	65.906	1.00200.66	F
ATOM	40371	O5' GUA	1015	209.574	114.498	74.226	1.00200.66	Al6S	ATOM	40424	N3 ADE	1017	213.300	125.280	65.523	1.00200.66	F
ATOM	40372	C5' GUA	1015	208.151	114.594	74.280	1.00200.66	Al6S	ATOM	40425	C2 ADE	1017	214.569	125.284	65.925	1.00200.66	F
ATOM	40373	C4' GUA	1015	207.798	115.995	73.925	1.00200.66	Al6S	ATOM	40426	N1 ADE	1017	215.243	124.354	66.983	1.00200.66	F
ATOM	40374	O4' GUA	1015	208.294	116.928	74.871	1.00200.66	Al6S	ATOM	40427	C6 ADE	1017	214.595	123.227	66.963	1.00200.66	F
ATOM	40375	C1' GUA	1015	208.609	118.142	74.211	1.00200.66	Al6S	ATOM	40428	N6 ADE	1017	215.266	122.299	67.667	1.00200.66	F
ATOM	40376	N9 GUA	1015	210.046	118.368	74.328	1.00183.76	Al6S	ATOM	40429	C5 ADE	1017	213.244	123.102	66.620	1.00200.66	F
ATOM	40377	C4 GUA	1015	210.682	119.586	74.306	1.00183.76	Al6S	ATOM	40430	N7 ADE	1017	212.308	122.100	66.834	1.00200.66	F
ATOM	40378	N3 GUA	1015	210.086	120.790	74.176	1.00183.76	Al6S	ATOM	40431	C8 ADE	1017	211.224	122.553	66.254	1.00200.66	F
ATOM	40379	C2 GUA	1015	210.962	121.781	74.186	1.00183.76	Al6S	ATOM	40432	C2' ADE	1017	210.683	124.437	63.398	1.00200.44	F
ATOM	40380	N2 GUA	1015	210.540	123.046	74.064	1.00183.76	Al6S	ATOM	40433	O2' ADE	1017	210.218	125.596	62.736	1.00200.44	F
ATOM	40381	N1 GUA	1015	212.316	121.605	74.315	1.00183.76	Al6S	ATOM	40434	C3' ADE	1017	209.892	123.183	63.047	1.00200.44	F
ATOM	40382	C6 GUA	1015	212.955	120.377	74.450	1.00183.76	Al6S	ATOM	40435	O3' ADE	1017	209.608	123.099	61.653	1.00200.44	F
ATOM	40383	O6 GUA	1015	214.186	120.333	74.558	1.00183.76	Al6S	ATOM	40436	P GUA	1018	210.571	122.232	60.696	1.00199.85	P
ATOM	40384	C5 GUA	1015	212.024	119.300	74.441	1.00183.76	Al6S	ATOM	40437	OLP GUA	1018	209.849	122.023	59.413	1.00199.17	P
ATOM	40385	N7 GUA	1015	212.228	117.930	74.549	1.00183.76	Al6S	ATOM	40438	O2P GUA	1018	211.049	121.054	61.465	1.00199.17	P
ATOM	40386	C8 GUA	1015	208.133	118.015	72.762	1.00200.66	Al6S	ATOM	40439	O5' GUA	1018	211.821	123.188	60.425	1.00199.85	P
ATOM	40387	C2' GUA	1015	206.837	118.564	72.637	1.00200.66	Al6S	ATOM	40440	C5' GUA	1018	213.701	124.341	59.586	1.00199.85	P
ATOM	40388	O2' GUA	1015	208.159	116.505	72.565	1.00200.66	Al6S	ATOM	40441	C4' GUA	1018	213.011	125.105	59.534	1.00199.85	P
ATOM	40389	C3' GUA	1015	207.250	116.096	71.546	1.00200.66	Al6S	ATOM	40442	O4' GUA	1018	213.340	125.586	60.864	1.00199.85	P
ATOM	40390	O3' GUA	1015	207.806	115.713	70.086	1.00200.66	Al6S	ATOM	40443	C1' GUA	1018	214.736	125.483	61.079	1.00199.85	P
ATOM	40391	P GUA	1016	206.788	114.833	69.449	1.00158.36	Al6S	ATOM	40444	N9 GUA	1018	214.951	124.512	62.147	1.00199.17	P
ATOM	40392	OLP GUA	1016	209.202	115.228	69.249	1.00158.36	Al6S	ATOM	40445	C4 GUA	1018	216.160	124.090	62.649	1.00199.17	P
ATOM	40393	O2P GUA	1016	207.842	117.102	69.299	1.00200.66	Al6S	ATOM	40446	N3 GUA	1018	217.380	124.489	62.229	1.00199.17	P
ATOM	40394	O5' GUA	1016	206.640	117.700	68.811	1.00200.66	Al6S	ATOM	40447	C2 GUA	1018	218.351	123.905	62.912	1.00199.17	P
ATOM	40395	C5' GUA	1016	206.858	119.170	68.519	1.00200.66	Al6S	ATOM	40448	N2 GUA	1018	219.631	124.176	62.621	1.00199.17	P
ATOM	40396	C4' GUA	1016	207.380	119.811	69.713	1.00200.66	Al6S	ATOM	40449	N1 GUA	1018	218.140	123.012	63.931	1.00199.17	P
ATOM	40397	O1' GUA	1016	208.195	120.911	69.341	1.00200.66	Al6S	ATOM	40450	C6 GUA	1018	216.894	122.595	64.384	1.00199.17	P
ATOM	40398	C1' GUA	1016	209.518	120.744	69.932	1.00158.36	Al6S	ATOM	40451	O6 GUA	1018	216.814	123.197	63.632	1.00199.17	P
ATOM	40399	N9 GUA	1016	210.484	121.717	70.022	1.00158.36	Al6S	ATOM	40452	C5 GUA	1018	214.471	123.049	63.768	1.00199.17	P
ATOM	40400	C4 GUA	1016	210.365	122.992	69.592	1.00158.36	Al6S	ATOM	40453	N7 GUA	1018	213.983	123.845	62.857	1.00199.17	P
ATOM	40401	N3 GUA	1016	211.467	123.691	69.802	1.00158.36	Al6S	ATOM	40454	C8 GUA	1018	215.375	125.080	59.749	1.00199.85	P
ATOM	40402	C2 GUA	1016	211.520	124.979	69.429	1.00158.36	Al6S	ATOM	40455	C2' GUA	1018	215.755	126.239	59.033	1.00199.85	P
ATOM	40403	N2 GUA	1016	212.598	123.181	70.392	1.00158.36	Al6S	ATOM	40456	O2' GUA	1018	214.235	124.314	59.087	1.00199.85	P
ATOM	40404	N1 GUA	1016					Al6S	ATOM	40457	C3' GUA	1018					A

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ATOM	40458	O3	GUA	1018	214.365	124.328	57.666	1.00199.85	Al6S	ATOM	40511	N3	CYT	1021	216.030	109.977	59.497	1.00170.82	Al
ATOM	40459	P	CYT	1019	214.827	122.996	56.888	1.00200.66	Al6S	ATOM	40512	C4	CYT	1021	215.726	111.161	58.960	1.00170.82	Al
ATOM	40460	O1P	CYT	1019	215.255	123.406	55.525	1.00181.80	Al6S	ATOM	40513	N4	CYT	1021	214.483	111.623	59.128	1.00170.82	Al
ATOM	40461	O2P	CYT	1019	213.767	121.964	57.045	1.00181.80	Al6S	ATOM	40514	C5	CYT	1021	216.683	111.922	58.225	1.00170.82	Al
ATOM	40462	O5	CYT	1019	216.120	122.509	57.683	1.00200.66	Al6S	ATOM	40515	C2	CYT	1021	219.676	108.579	57.409	1.00185.26	Al
ATOM	40463	C5	CYT	1019	217.392	123.120	57.471	1.00200.66	Al6S	ATOM	40516	O2	CYT	1021	220.530	107.536	57.830	1.00185.26	Al
ATOM	40464	C4	CYT	1019	218.464	122.351	58.211	1.00200.66	Al6S	ATOM	40517	C3	CYT	1021	220.257	109.390	56.255	1.00185.26	Al
ATOM	40465	O4	CYT	1019	218.191	122.414	59.636	1.00200.66	Al6S	ATOM	40518	O3	CYT	1021	220.942	108.537	55.345	1.00185.26	Al
ATOM	40466	C1	CYT	1019	218.490	121.167	60.238	1.00200.66	Al6S	ATOM	40519	P	URI	1022	220.105	107.700	54.255	1.00169.75	Al
ATOM	40467	N1	CYT	1019	217.250	120.638	60.831	1.00181.80	Al6S	ATOM	40520	O1P	URI	1022	221.079	106.881	53.488	1.00200.66	Al
ATOM	40468	C6	CYT	1019	216.057	121.279	60.644	1.00181.80	Al6S	ATOM	40521	O2P	URI	1022	219.203	108.635	53.535	1.00200.66	Al
ATOM	40469	C2	CYT	1019	217.310	119.471	61.599	1.00181.80	Al6S	ATOM	40522	O5	URI	1022	219.202	106.711	55.118	1.00169.75	Al
ATOM	40470	O2	CYT	1019	218.402	118.903	61.741	1.00181.80	Al6S	ATOM	40523	C5	URI	1022	219.784	105.610	55.804	1.00169.75	Al
ATOM	40471	N3	CYT	1019	216.176	118.993	62.162	1.00181.80	Al6S	ATOM	40524	C4	URI	1022	218.767	104.961	56.710	1.00169.75	Al
ATOM	40472	C4	CYT	1019	215.018	119.631	61.979	1.00181.80	Al6S	ATOM	40525	O4	URI	1022	218.276	105.940	57.663	1.00169.75	Al
ATOM	40473	N4	CYT	1019	213.926	119.128	62.557	1.00181.80	Al6S	ATOM	40526	C1	URI	1022	216.934	105.631	58.010	1.00169.75	Al
ATOM	40474	C5	CYT	1019	214.928	120.816	61.195	1.00181.80	Al6S	ATOM	40527	N1	URI	1022	216.085	106.785	57.690	1.00200.66	Al
ATOM	40475	C2	CYT	1019	219.117	120.273	59.164	1.00200.66	Al6S	ATOM	40528	C6	URI	1022	216.421	107.677	56.700	1.00200.66	Al
ATOM	40476	O2	CYT	1019	220.525	120.378	59.219	1.00200.66	Al6S	ATOM	40529	C2	URI	1022	214.923	106.937	58.419	1.00200.66	Al
ATOM	40477	C3	CYT	1019	218.530	120.865	57.887	1.00200.66	Al6S	ATOM	40530	O2	URI	1022	214.593	106.166	59.300	1.00200.66	Al
ATOM	40478	O3	CYT	1019	219.374	120.634	56.758	1.00200.66	Al6S	ATOM	40531	N3	URI	1022	214.157	108.023	58.074	1.00200.66	Al
ATOM	40479	P	CYT	1020	219.127	119.350	55.818	1.00200.66	Al6S	ATOM	40532	C4	URI	1022	214.429	108.950	57.093	1.00200.66	Al
ATOM	40480	O1P	CYT	1020	220.036	119.469	54.648	1.00153.30	Al6S	ATOM	40533	O4	URI	1022	213.642	109.881	56.906	1.00200.66	Al
ATOM	40481	O2P	CYT	1020	217.664	119.203	55.596	1.00153.30	Al6S	ATOM	40534	C5	URI	1022	215.652	108.725	56.383	1.00200.66	Al
ATOM	40482	O5	CYT	1020	221.011	117.907	56.952	1.00200.66	Al6S	ATOM	40535	C2	URI	1022	216.535	104.391	57.211	1.00169.75	Al
ATOM	40483	C5	CYT	1020	221.011	117.907	56.952	1.00200.66	Al6S	ATOM	40536	O2	URI	1022	216.722	103.229	57.992	1.00169.75	Al
ATOM	40484	C4	CYT	1020	221.203	116.645	57.756	1.00200.66	Al6S	ATOM	40537	C3	URI	1022	217.498	104.470	56.038	1.00169.75	Al
ATOM	40485	O4	CYT	1020	220.947	115.799	59.045	1.00200.66	Al6S	ATOM	40538	O3	URI	1022	217.678	103.196	55.447	1.00169.75	Al
ATOM	40486	C1	CYT	1020	219.947	115.569	59.427	1.00200.66	Al6S	ATOM	40539	P	ADE	1023	216.613	102.675	54.367	1.00200.66	Al
ATOM	40487	N1	CYT	1020	218.488	115.752	59.454	1.00153.30	Al6S	ATOM	40540	O1P	ADE	1023	217.152	101.427	53.771	1.00189.98	Al
ATOM	40488	C6	CYT	1020	217.929	116.979	59.230	1.00153.30	Al6S	ATOM	40541	O2P	ADE	1023	216.268	103.821	53.489	1.00189.98	Al
ATOM	40489	C2	CYT	1020	217.676	114.644	59.713	1.00153.30	Al6S	ATOM	40542	O5	ADE	1023	215.329	102.308	55.235	1.00200.66	Al
ATOM	40490	O2	CYT	1020	218.211	113.548	59.925	1.00153.30	Al6S	ATOM	40543	C5	ADE	1023	215.259	101.078	55.953	1.00200.66	Al
ATOM	40491	N3	CYT	1020	216.333	114.795	59.731	1.00153.30	Al6S	ATOM	40544	C4	ADE	1023	213.947	100.979	56.694	1.00200.66	Al
ATOM	40492	C4	CYT	1020	215.796	115.997	59.509	1.00153.30	Al6S	ATOM	40545	O4	ADE	1023	213.878	102.042	57.680	1.00200.66	Al
ATOM	40493	N4	CYT	1020	214.466	116.101	59.536	1.00153.30	Al6S	ATOM	40546	C1	ADE	1023	212.547	102.519	57.774	1.00200.66	Al
ATOM	40494	C5	CYT	1020	216.600	117.145	59.248	1.00153.30	Al6S	ATOM	40547	N9	ADE	1023	212.539	103.920	57.363	1.00189.98	Al
ATOM	40495	C2	CYT	1020	220.375	114.528	58.394	1.00200.66	Al6S	ATOM	40548	C4	ADE	1023	211.612	104.865	57.724	1.00189.98	Al
ATOM	40496	O2	CYT	1020	221.576	113.906	58.800	1.00200.66	Al6S	ATOM	40549	N3	ADE	1023	210.532	104.690	58.504	1.00189.98	Al
ATOM	40497	C3	CYT	1020	220.558	115.402	57.166	1.00200.66	Al6S	ATOM	40550	C2	ADE	1023	209.862	105.830	58.639	1.00189.98	Al
ATOM	40498	O3	CYT	1020	221.382	114.765	56.203	1.00200.66	Al6S	ATOM	40551	N1	ADE	1023	210.131	107.037	58.126	1.00189.98	Al
ATOM	40499	P	CYT	1021	220.716	113.768	55.135	1.00185.26	Al6S	ATOM	40552	C6	ADE	1023	211.227	107.180	57.352	1.00189.98	Al
ATOM	40500	O1P	CYT	1021	221.711	113.554	54.055	1.00170.82	Al6S	ATOM	40553	N6	ADE	1023	211.501	108.387	56.853	1.00189.98	Al
ATOM	40501	O2P	CYT	1021	219.373	114.305	54.801	1.00170.82	Al6S	ATOM	40554	C5	ADE	1023	212.018	106.041	57.122	1.00189.98	Al
ATOM	40502	O5	CYT	1021	220.526	112.395	55.927	1.00185.26	Al6S	ATOM	40555	N8	ADE	1023	213.174	105.838	56.383	1.00189.98	Al
ATOM	40503	C5	CYT	1021	221.651	111.580	56.254	1.00185.26	Al6S	ATOM	40556	C7	ADE	1023	213.440	104.567	56.557	1.00189.98	Al
ATOM	40504	C4	CYT	1021	221.216	110.322	56.978	1.00185.26	Al6S	ATOM	40557	C2	ADE	1023	211.482	101.634	56.877	1.00200.66	Al
ATOM	40505	O4	CYT	1021	220.490	110.677	58.184	1.00185.26	Al6S	ATOM	40558	O2	ADE	1023	211.153	100.566	57.636	1.00200.66	Al
ATOM	40506	C1	CYT	1021	219.584	109.635	58.511	1.00185.26	Al6S	ATOM	40559	C3	ADE	1023	212.702	101.177	55.844	1.00200.66	Al
ATOM	40507	N1	CYT	1021	218.234	110.199	58.646	1.00170.82	Al6S	ATOM	40560	O3	ADE	1023	212.307	99.961	55.222	1.00200.66	Al
ATOM	40508	C6	CYT	1021	217.914	111.409	58.096	1.00170.82	Al6S	ATOM	40561	P	GUA	1024	211.927	99.955	53.661	1.00200.66	Al
ATOM	40509	C2	CYT	1021	217.276	109.470	59.353	1.00170.82	Al6S	ATOM	40562	O1P	GUA	1024	211.748	98.531	53.264	1.00126.31	Al
ATOM	40510	O2	CYT	1021	217.594	108.369	59.828	1.00170.82	Al6S	ATOM	40563	O2P	GUA	1024	212.933	100.793	52.960	1.00126.31	Al

ATOM	40564	OS' GUA	1024	210.513	100.696	53.592	1.00200.66	A16S	ATOM	40617	C6 ADE	1026	207.047	112.821	48.105	1.00 93.14
ATOM	40565	C5' GUA	1024	209.303	99.974	53.816	1.00200.66	A16S	ATOM	40618	N6 ADE	1026	208.354	112.560	48.009	1.00 93.14
ATOM	40566	C4' GUA	1024	208.152	100.919	54.038	1.00200.66	A16S	ATOM	40619	C5 ADE	1026	206.059	111.827	48.275	1.00 93.14
ATOM	40567	O4' GUA	1024	208.509	101.801	55.198	1.00200.66	A16S	ATOM	40620	N7 ADE	1026	206.131	110.444	48.380	1.00 93.14
ATOM	40568	C1' GUA	1024	207.793	103.022	55.072	1.00200.66	A16S	ATOM	40621	C8 ADE	1026	204.879	110.071	48.509	1.00 93.14
ATOM	40569	N9 GUA	1024	208.739	104.118	54.912	1.00126.31	A16S	ATOM	40622	C2' ADE	1026	201.975	111.155	47.104	1.00138.09
ATOM	40570	C4 GUA	1024	208.420	105.449	54.939	1.00126.31	A16S	ATOM	40623	O2' ADE	1026	200.701	111.768	47.117	1.00138.09
ATOM	40571	N3 GUA	1024	207.188	105.962	55.142	1.00126.31	A16S	ATOM	40624	C3' ADE	1026	201.913	109.680	46.733	1.00138.09
ATOM	40572	C2 GUA	1024	207.189	107.283	55.106	1.00126.31	A16S	ATOM	40625	O3' ADE	1026	201.092	109.459	45.594	1.00138.09
ATOM	40573	N2 GUA	1024	206.043	107.957	55.285	1.00126.31	A16S	ATOM	40626	P CYT	1027	201.776	109.510	44.173	1.00117.75
ATOM	40574	N1 GUA	1024	208.313	108.042	54.890	1.00126.31	A16S	ATOM	40627	O1P CYT	1027	202.801	109.509	43.125	1.00 85.54
ATOM	40575	C6 GUA	1024	209.592	107.535	54.679	1.00126.31	A16S	ATOM	40628	O2P CYT	1027	202.300	107.716	44.203	1.00 85.54
ATOM	40576	O6 GUA	1024	210.539	108.310	54.438	1.00126.31	A16S	ATOM	40629	O5' CYT	1027	203.016	110.105	44.052	1.00117.75
ATOM	40577	C5 GUA	1024	209.603	106.114	54.713	1.00126.31	A16S	ATOM	40630	C5' CYT	1027	202.829	111.507	44.193	1.00117.75
ATOM	40578	N7 GUA	1024	210.650	105.215	54.554	1.00126.31	A16S	ATOM	40631	C4' CYT	1027	204.159	112.216	44.284	1.00117.75
ATOM	40579	C8 GUA	1024	210.090	104.043	54.684	1.00126.31	A16S	ATOM	40632	O4' CYT	1027	205.078	111.429	45.087	1.00117.75
ATOM	40580	C2' GUA	1024	206.943	102.911	53.811	1.00200.66	A16S	ATOM	40633	C1' CYT	1027	206.411	111.702	44.686	1.00117.75
ATOM	40581	O2' GUA	1024	205.650	102.445	54.136	1.00200.66	A16S	ATOM	40634	N1 CYT	1027	207.060	110.437	44.329	1.00 85.54
ATOM	40582	C3' GUA	1024	207.752	101.904	53.012	1.00200.66	A16S	ATOM	40635	C6 CYT	1027	206.318	109.319	44.263	1.00 85.54
ATOM	40583	O3' GUA	1024	206.933	101.337	52.007	1.00200.66	A16S	ATOM	40636	C2 CYT	1027	209.109	111.426	44.470	1.00 85.54
ATOM	40584	P CYT	1025	206.654	102.171	50.663	1.00155.37	A16S	ATOM	40637	O2 CYT	1027	209.067	109.218	43.737	1.00 85.54
ATOM	40585	O1P CYT	1025	205.792	101.331	49.793	1.00155.37	A16S	ATOM	40638	N3 CYT	1027	208.331	108.126	43.737	1.00 85.54
ATOM	40586	O2P CYT	1025	205.804	103.435	51.140	1.00155.37	A16S	ATOM	40640	N4 CYT	1027	208.971	106.985	43.463	1.00 85.54
ATOM	40587	O5' CYT	1025	204.455	103.280	51.660	1.00155.37	A16S	ATOM	40641	C5 CYT	1027	206.905	108.154	43.777	1.00 85.54
ATOM	40588	C5' CYT	1025	204.754	104.620	51.574	1.00155.37	A16S	ATOM	40642	C2' CYT	1027	206.327	112.676	43.516	1.00117.75
ATOM	40589	O4' CYT	1025	204.424	105.475	52.626	1.00155.37	A16S	ATOM	40643	O2' CYT	1027	206.436	113.991	44.016	1.00117.75
ATOM	40590	C4' CYT	1025	204.176	106.835	52.299	1.00155.37	A16S	ATOM	40644	C3' CYT	1027	204.929	112.384	42.993	1.00117.75
ATOM	40591	C1' CYT	1025	206.611	106.848	51.857	1.00155.37	A16S	ATOM	40645	O3' CYT	1027	204.426	113.486	42.253	1.00117.75
ATOM	40592	N1 CYT	1025	205.457	107.533	52.122	1.00155.37	A16S	ATOM	40646	P ADE	1028	205.099	113.857	40.847	1.00106.05
ATOM	40593	C6 CYT	1025	205.468	108.927	52.212	1.00155.37	A16S	ATOM	40647	O1P ADE	1028	204.458	115.110	40.368	1.00 64.77
ATOM	40594	C2 CYT	1025	204.406	109.518	52.466	1.00155.37	A16S	ATOM	40648	O2P ADE	1028	205.098	112.630	39.985	1.00106.05
ATOM	40595	O2 CYT	1025	206.628	109.596	52.020	1.00155.37	A16S	ATOM	40649	O5' ADE	1028	206.596	114.218	41.249	1.00106.05
ATOM	40596	N3 CYT	1025	207.747	108.923	51.750	1.00155.37	A16S	ATOM	40650	C5' ADE	1028	207.621	114.302	40.276	1.00106.05
ATOM	40597	C4 CYT	1025	208.865	109.628	51.556	1.00155.37	A16S	ATOM	40651	C4' ADE	1028	208.943	114.532	40.952	1.00106.05
ATOM	40598	N4 CYT	1025	207.769	107.498	51.663	1.00155.37	A16S	ATOM	40652	O4' ADE	1028	209.202	113.440	41.869	1.00106.05
ATOM	40599	C5 CYT	1025	203.372	106.846	50.999	1.00155.37	A16S	ATOM	40653	C1' ADE	1028	210.568	113.074	41.801	1.00106.05
ATOM	40600	C2' CYT	1025	201.995	106.974	51.285	1.00155.37	A16S	ATOM	40654	N4 ADE	1028	210.634	111.761	41.169	1.00 64.77
ATOM	40601	O2' CYT	1025	203.739	105.489	50.416	1.00155.37	A16S	ATOM	40655	C4 ADE	1028	211.770	111.030	40.937	1.00 64.77
ATOM	40602	C3' CYT	1025	202.716	105.077	49.459	1.00155.37	A16S	ATOM	40656	N3 ADE	1028	213.028	111.390	41.227	1.00 64.77
ATOM	40603	O3' CYT	1025	202.949	105.531	47.928	1.00138.09	A16S	ATOM	40657	C2 ADE	1028	213.875	110.431	40.877	1.00 64.77
ATOM	40604	P ADE	1026	201.858	104.898	47.138	1.00 93.14	A16S	ATOM	40658	N1 ADE	1028	212.343	108.920	40.030	1.00 64.77
ATOM	40605	O1P ADE	1026	204.364	105.289	47.550	1.00 93.14	A16S	ATOM	40659	C6 ADE	1028	212.089	107.729	39.468	1.00 64.77
ATOM	40606	O2P ADE	1026	202.696	107.106	47.957	1.00138.09	A16S	ATOM	40660	N6 ADE	1028	211.352	109.855	40.350	1.00 64.77
ATOM	40607	O5' ADE	1026	201.396	107.614	48.225	1.00138.09	A16S	ATOM	40661	C5 ADE	1028	209.975	109.842	40.197	1.00 64.77
ATOM	40608	C5' ADE	1026	202.116	109.803	49.034	1.00138.09	A16S	ATOM	40662	N7 ADE	1028	209.536	110.996	40.695	1.00 64.77
ATOM	40609	O4' ADE	1026	202.525	111.069	48.527	1.00138.09	A16S	ATOM	40663	C8 ADE	1028	211.261	114.145	40.967	1.00106.05
ATOM	40610	C1' ADE	1026	203.986	111.115	48.481	1.00 93.14	A16S	ATOM	40664	O2' ADE	1028	210.627	115.221	40.023	1.00106.05
ATOM	40611	N9 ADE	1026	204.745	112.255	48.351	1.00 93.14	A16S	ATOM	40665	C3' ADE	1028	210.136	114.521	40.023	1.00106.05
ATOM	40612	C4 ADE	1026	204.305	113.525	48.286	1.00 93.14	A16S	ATOM	40666	O3' ADE	1028	210.252	115.909	37.829	1.00 82.94
ATOM	40613	N3 ADE	1026	205.326	114.369	48.127	1.00 93.14	A16S	ATOM	40667	P GUA	1029	210.642	117.292	37.458	1.00 66.81
ATOM	40614	C2 ADE	1026													
ATOM	40615	O3 ADE	1026													
ATOM	40616	N1 ADE	1026													

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ATOM	40670	O2P	GUA	1029	208.942	115.368	37.389	1.00	66.81	Al6S	ATOM	40723	C6	URI	1031	216.062	115.006	25.206	1.00	66.87	A
ATOM	40671	O5'	GUA	1029	211.376	114.886	37.356	1.00	82.94	Al6S	ATOM	40724	C2	URI	1031	218.234	114.421	24.367	1.00	66.87	A
ATOM	40672	C5'	GUA	1029	212.727	115.063	37.745	1.00	82.94	Al6S	ATOM	40725	O2	URI	1031	219.104	113.608	24.101	1.00	66.87	A
ATOM	40673	C4'	GUA	1029	213.530	113.849	37.371	1.00	82.94	Al6S	ATOM	40726	N3	URI	1031	218.421	115.775	24.221	1.00	66.87	A
ATOM	40674	O4'	GUA	1029	213.057	112.702	38.130	1.00	82.94	Al6S	ATOM	40727	C4	URI	1031	217.513	116.776	24.520	1.00	66.87	A
ATOM	40675	C1'	GUA	1029	213.163	111.527	37.336	1.00	82.94	Al6S	ATOM	40728	O4	URI	1031	217.780	117.942	24.240	1.00	66.87	A
ATOM	40676	N9	GUA	1029	211.819	111.024	37.075	1.00	66.81	Al6S	ATOM	40729	C5	URI	1031	216.277	116.316	25.064	1.00	66.87	A
ATOM	40677	C4	GUA	1029	211.505	109.816	36.507	1.00	66.81	Al6S	ATOM	40730	C2'	URI	1031	217.323	111.755	25.971	1.00	83.60	A
ATOM	40678	N3	GUA	1029	212.385	108.867	36.133	1.00	66.81	Al6S	ATOM	40731	O2'	URI	1031	218.082	110.746	25.354	1.00	83.60	A
ATOM	40679	C2	GUA	1029	211.782	107.812	35.620	1.00	66.81	Al6S	ATOM	40732	C3'	URI	1031	216.132	111.245	26.786	1.00	83.60	A
ATOM	40680	N2	GUA	1029	212.506	106.758	35.231	1.00	66.81	Al6S	ATOM	40733	O3'	URI	1031	216.211	109.872	27.177	1.00	83.60	A
ATOM	40681	N1	GUA	1029	210.424	107.709	35.459	1.00	66.81	Al6S	ATOM	40734	P	GUA	1032	216.327	108.717	26.056	1.00	81.23	A
ATOM	40682	C6	GUA	1029	209.503	108.681	35.830	1.00	66.81	Al6S	ATOM	40735	O1P	GUA	1032	217.442	107.821	26.419	1.00	73.29	A
ATOM	40683	O6	GUA	1029	208.298	108.496	35.633	1.00	66.81	Al6S	ATOM	40736	O2P	GUA	1032	216.289	109.315	24.703	1.00	73.29	A
ATOM	40684	C5	GUA	1029	210.135	109.805	36.407	1.00	66.81	Al6S	ATOM	40737	O5'	GUA	1032	215.004	107.850	26.220	1.00	81.23	A
ATOM	40685	N7	GUA	1029	209.593	110.973	36.921	1.00	66.81	Al6S	ATOM	40738	C5'	GUA	1032	215.075	106.450	26.019	1.00	81.23	A
ATOM	40686	C8	GUA	1029	210.628	111.665	37.310	1.00	66.81	Al6S	ATOM	40739	C4'	GUA	1032	213.715	105.847	25.750	1.00	81.23	A
ATOM	40687	C2'	GUA	1029	213.818	111.947	36.023	1.00	82.94	Al6S	ATOM	40740	O4'	GUA	1032	212.891	105.849	26.943	1.00	81.23	A
ATOM	40688	O2'	GUA	1029	215.219	111.800	36.116	1.00	82.94	Al6S	ATOM	40741	C1'	GUA	1032	211.552	105.568	26.556	1.00	81.23	A
ATOM	40689	C3'	GUA	1029	213.360	113.395	35.937	1.00	82.94	Al6S	ATOM	40742	N9	GUA	1032	210.641	106.570	27.095	1.00	73.29	A
ATOM	40690	O3'	GUA	1029	214.103	114.179	35.015	1.00	82.94	Al6S	ATOM	40743	C4	GUA	1032	209.280	106.518	26.976	1.00	73.29	A
ATOM	40691	P	GUA	1030	213.505	114.435	33.545	1.00	72.42	Al6S	ATOM	40744	N3	GUA	1032	208.585	105.531	26.381	1.00	73.29	A
ATOM	40692	O1P	GUA	1030	214.516	115.209	32.787	1.00	70.60	Al6S	ATOM	40745	C2	GUA	1032	207.290	105.757	26.405	1.00	73.29	A
ATOM	40693	O2P	GUA	1030	212.134	114.988	33.690	1.00	70.60	Al6S	ATOM	40746	N2	GUA	1032	206.459	104.863	25.860	1.00	73.29	A
ATOM	40694	O5'	GUA	1030	213.425	112.961	32.927	1.00	72.42	Al6S	ATOM	40747	N1	GUA	1032	206.713	106.871	26.963	1.00	73.29	A
ATOM	40695	C5'	GUA	1030	214.618	112.199	32.747	1.00	72.42	Al6S	ATOM	40748	C6	GUA	1032	207.406	107.904	27.580	1.00	73.29	A
ATOM	40696	C4'	GUA	1030	214.361	110.943	31.931	1.00	72.42	Al6S	ATOM	40749	O6	GUA	1032	206.786	108.868	28.043	1.00	73.29	A
ATOM	40697	O4'	GUA	1030	212.927	109.929	32.729	1.00	72.42	Al6S	ATOM	40750	C5	GUA	1032	208.812	107.666	27.570	1.00	73.29	A
ATOM	40698	C1'	GUA	1030	212.927	109.083	31.869	1.00	72.42	Al6S	ATOM	40751	N7	GUA	1032	209.863	108.421	28.075	1.00	73.29	A
ATOM	40699	N9	GUA	1030	211.512	109.262	32.170	1.00	70.60	Al6S	ATOM	40752	C8	GUA	1032	210.930	107.728	27.773	1.00	73.29	A
ATOM	40700	C4	GUA	1030	210.503	108.396	31.848	1.00	70.60	Al6S	ATOM	40753	C2'	GUA	1032	211.526	105.611	25.029	1.00	81.23	A
ATOM	40701	N3	GUA	1030	210.654	107.185	31.281	1.00	70.60	Al6S	ATOM	40754	O2'	GUA	1032	212.761	106.452	24.739	1.00	81.23	A
ATOM	40702	C2	GUA	1030	209.490	106.605	31.041	1.00	70.60	Al6S	ATOM	40755	C3'	GUA	1032	213.145	106.265	23.386	1.00	81.23	A
ATOM	40703	N2	GUA	1030	209.451	105.382	30.489	1.00	70.60	Al6S	ATOM	40756	O3'	GUA	1032	213.145	106.265	23.386	1.00	81.23	A
ATOM	40704	N1	GUA	1030	208.277	107.177	31.325	1.00	70.60	Al6S	ATOM	40757	P	CYT	1033	212.405	107.109	22.229	1.00	63.67	A
ATOM	40705	C6	GUA	1030	208.101	108.426	31.907	1.00	70.60	Al6S	ATOM	40758	O1P	CYT	1033	213.186	106.919	20.974	1.00	71.75	A
ATOM	40706	O6	GUA	1030	206.959	108.858	32.101	1.00	70.60	Al6S	ATOM	40759	O2P	CYT	1033	212.159	108.482	22.735	1.00	71.75	A
ATOM	40707	C5	GUA	1030	209.340	109.048	32.188	1.00	70.60	Al6S	ATOM	40760	O5'	CYT	1033	210.979	106.412	22.062	1.00	63.67	A
ATOM	40708	N7	GUA	1030	209.616	110.273	32.774	1.00	70.60	Al6S	ATOM	40761	C5'	CYT	1033	210.834	105.160	21.389	1.00	63.67	A
ATOM	40709	C8	GUA	1030	210.916	110.351	32.756	1.00	70.60	Al6S	ATOM	40762	C4'	CYT	1033	209.368	104.858	21.134	1.00	63.67	A
ATOM	40710	C2'	GUA	1030	213.188	109.570	30.438	1.00	72.42	Al6S	ATOM	40763	O4'	CYT	1033	208.654	104.847	22.403	1.00	63.67	A
ATOM	40711	O2'	GUA	1030	214.267	108.851	29.869	1.00	72.42	Al6S	ATOM	40764	C1'	CYT	1033	207.339	105.340	22.216	1.00	63.67	A
ATOM	40712	C3'	GUA	1030	213.497	111.042	30.685	1.00	72.42	Al6S	ATOM	40765	N1	CYT	1033	207.175	106.575	23.002	1.00	71.75	A
ATOM	40713	O3'	GUA	1030	214.138	111.679	29.581	1.00	72.42	Al6S	ATOM	40766	C6	CYT	1033	208.234	107.174	23.623	1.00	71.75	A
ATOM	40714	P	URI	1031	213.465	112.996	28.933	1.00	83.60	Al6S	ATOM	40767	C2	CYT	1033	205.908	107.134	23.084	1.00	71.75	A
ATOM	40715	O1P	URI	1031	214.141	114.197	29.491	1.00	66.87	Al6S	ATOM	40768	O2	CYT	1033	204.968	106.544	22.542	1.00	71.75	A
ATOM	40716	O2P	URI	1031	211.996	112.866	29.051	1.00	66.87	Al6S	ATOM	40769	N3	CYT	1033	205.732	108.296	23.754	1.00	71.75	A
ATOM	40717	O5'	URI	1031	213.843	112.940	27.388	1.00	83.60	Al6S	ATOM	40770	C4	CYT	1033	206.768	108.886	24.342	1.00	71.75	A
ATOM	40718	C5'	URI	1031	213.653	111.755	26.620	1.00	83.60	Al6S	ATOM	40771	N4	CYT	1033	206.548	110.035	24.977	1.00	71.75	A
ATOM	40719	C4'	URI	1031	214.925	111.418	25.883	1.00	83.60	Al6S	ATOM	40772	C5	CYT	1033	208.077	108.323	24.299	1.00	71.75	A
ATOM	40720	O4'	URI	1031	215.256	112.504	24.998	1.00	83.60	Al6S	ATOM	40773	C2'	CYT	1033	207.163	105.597	20.719	1.00	63.67	A
ATOM	40721	C1'	URI	1031	216.656	112.627	24.904	1.00	83.60	Al6S	ATOM	40774	O2'	CYT	1033	206.643	104.450	20.075	1.00	63.67	A
ATOM	40722	N1	URI	1031	216.987	114.057	24.844	1.00	66.87	Al6S	ATOM	40775	C3'	CYT	1033	208.596	105.869	20.296	1.00	63.67	A

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ATOM	40776	O3' CYT	1033	208.731	105.638	18.900	1.00	63.67	Al6S	ATOM	40829	C6	CYT	1036	200.532	107.627	12.095	1.00	119.96	Al6S
ATOM	40777	P	1034	208.439	106.835	17.869	1.00	71.07	Al6S	ATOM	40830	C2	CYT	1036	198.867	107.611	10.370	1.00	119.96	Al6S
ATOM	40778	OlP	1034	208.710	106.324	16.499	1.00	73.07	Al6S	ATOM	40831	O2	CYT	1036	198.006	108.231	9.733	1.00	119.96	Al6S
ATOM	40779	O2P	1034	209.150	108.042	18.361	1.00	73.07	Al6S	ATOM	40832	N3	CYT	1036	199.186	106.331	10.077	1.00	119.96	Al6S
ATOM	40780	O5' URI	1034	206.878	107.129	17.996	1.00	71.07	Al6S	ATOM	40833	C4	CYT	1036	200.138	105.706	10.774	1.00	119.96	Al6S
ATOM	40781	C5' URI	1034	205.919	106.325	17.322	1.00	71.07	Al6S	ATOM	40834	N4	CYT	1036	200.396	104.430	10.475	1.00	119.96	Al6S
ATOM	40782	C4' URI	1034	204.533	106.871	17.554	1.00	71.07	Al6S	ATOM	40835	C5	CYT	1036	200.863	106.360	11.815	1.00	119.96	Al6S
ATOM	40783	O4' URI	1034	204.315	106.984	18.988	1.00	71.07	Al6S	ATOM	40836	C2' CYT	1036	199.067	109.827	13.300	1.00	66.61	Al6S	
ATOM	40784	C1' URI	1034	203.504	108.115	19.261	1.00	71.07	Al6S	ATOM	40837	O2' CYT	1036	197.980	110.680	13.597	1.00	66.61	Al6S	
ATOM	40785	N1	1034	204.265	109.036	20.120	1.00	73.07	Al6S	ATOM	40838	C3' CYT	1036	200.396	110.528	13.530	1.00	66.61	Al6S	
ATOM	40786	C6	1034	205.630	108.937	20.229	1.00	73.07	Al6S	ATOM	40839	O3' CYT	1036	200.372	111.338	14.706	1.00	66.61	Al6S	
ATOM	40787	C2	1034	203.572	110.018	20.803	1.00	73.07	Al6S	ATOM	40840	P	1037	200.387	110.649	16.162	1.00	61.57	Al6S	
ATOM	40788	O2	1034	202.364	110.125	20.771	1.00	73.07	Al6S	ATOM	40841	OlP	1037	201.515	111.200	16.942	1.00	63.99	Al6S	
ATOM	40789	N3	1034	204.352	110.872	21.535	1.00	73.07	Al6S	ATOM	40842	O2P	1037	200.251	109.179	16.010	1.00	63.99	Al6S	
ATOM	40790	C4	1034	205.718	110.845	21.661	1.00	73.07	Al6S	ATOM	40843	O5' ADE	1037	199.059	111.191	16.845	1.00	61.57	Al6S	
ATOM	40791	O4	1034	206.283	111.747	22.275	1.00	73.07	Al6S	ATOM	40844	C5' ADE	1037	197.775	110.876	16.320	1.00	61.57	Al6S	
ATOM	40792	C5	1034	206.358	109.784	20.957	1.00	73.07	Al6S	ATOM	40845	C4' ADE	1037	196.734	111.744	16.969	1.00	61.57	Al6S	
ATOM	40793	C2' URI	1034	203.115	108.720	17.909	1.00	71.07	Al6S	ATOM	40846	O4' ADE	1037	196.772	111.523	18.409	1.00	61.57	Al6S	
ATOM	40794	O2' URI	1034	201.887	108.157	17.497	1.00	71.07	Al6S	ATOM	40847	C1' ADE	1037	196.672	112.760	19.091	1.00	61.57	Al6S	
ATOM	40795	C3' URI	1034	204.273	108.272	17.023	1.00	71.07	Al6S	ATOM	40848	N9	1037	197.970	113.047	19.701	1.00	63.99	Al6S	
ATOM	40796	O3' URI	1034	203.847	108.205	15.662	1.00	71.07	Al6S	ATOM	40849	C4	1037	198.298	114.142	20.467	1.00	63.99	Al6S	
ATOM	40797	P	1035	204.686	108.952	14.503	1.00	64.38	Al6S	ATOM	40850	N3	1037	197.491	115.149	20.845	1.00	63.99	Al6S	
ATOM	40798	OlP	1035	204.022	108.613	13.220	1.00	57.33	Al6S	ATOM	40851	C2	1037	198.158	116.044	21.578	1.00	63.99	Al6S	
ATOM	40799	O2P	1035	206.127	108.638	14.682	1.00	57.33	Al6S	ATOM	40852	N1	1037	199.443	116.056	21.935	1.00	63.99	Al6S	
ATOM	40800	O5' GUA	1035	204.473	110.510	14.761	1.00	64.38	Al6S	ATOM	40853	C6	1037	200.232	115.039	21.526	1.00	63.99	Al6S	
ATOM	40801	C5' GUA	1035	204.650	111.449	13.698	1.00	64.38	Al6S	ATOM	40854	N6	1037	201.527	115.072	21.851	1.00	63.99	Al6S	
ATOM	40802	C4' GUA	1035	204.290	112.828	14.167	1.00	64.38	Al6S	ATOM	40855	C5	1037	199.636	114.007	20.764	1.00	63.99	Al6S	
ATOM	40803	O4' GUA	1035	205.225	113.248	15.174	1.00	64.38	Al6S	ATOM	40856	N7	1037	200.139	112.832	20.223	1.00	63.99	Al6S	
ATOM	40804	C1' GUA	1035	205.030	114.625	15.359	1.00	64.38	Al6S	ATOM	40857	C8	1037	199.111	112.300	19.610	1.00	63.99	Al6S	
ATOM	40805	N9	1035	206.217	115.299	15.857	1.00	57.33	Al6S	ATOM	40858	C2' ADE	1037	196.290	113.791	18.033	1.00	61.57	Al6S	
ATOM	40806	C4	1035	206.177	116.556	16.369	1.00	57.33	Al6S	ATOM	40859	O2' ADE	1037	194.889	113.774	17.861	1.00	61.57	Al6S	
ATOM	40807	N3	1035	205.077	117.330	16.432	1.00	57.33	Al6S	ATOM	40860	C3' ADE	1037	197.002	113.725	16.820	1.00	61.57	Al6S	
ATOM	40808	C2	1035	205.325	118.491	16.980	1.00	57.33	Al6S	ATOM	40861	O3' ADE	1037	196.460	113.721	15.611	1.00	61.57	Al6S	
ATOM	40809	N2	1035	204.340	119.381	17.106	1.00	57.33	Al6S	ATOM	40862	P	1038	197.073	115.053	14.970	1.00	51.29	Al6S	
ATOM	40810	C6	1035	206.557	118.864	17.441	1.00	57.33	Al6S	ATOM	40863	OlP	1038	196.108	115.621	13.990	1.00	63.02	Al6S	
ATOM	40811	O6	1035	207.705	118.078	17.390	1.00	57.33	Al6S	ATOM	40864	O2P	1038	198.470	114.747	14.553	1.00	63.02	Al6S	
ATOM	40812	C5	1035	208.766	118.513	17.842	1.00	57.33	Al6S	ATOM	40865	O5' URI	1038	197.149	116.067	16.187	1.00	51.29	Al6S	
ATOM	40813	C5' GUA	1035	207.451	116.825	16.791	1.00	57.33	Al6S	ATOM	40866	C5' URI	1038	197.794	117.316	16.034	1.00	51.29	Al6S	
ATOM	40814	N7	1035	208.296	115.753	16.524	1.00	57.33	Al6S	ATOM	40867	C4' URI	1038	197.809	117.258	17.340	1.00	51.29	Al6S	
ATOM	40815	C8	1035	207.518	114.868	15.960	1.00	57.33	Al6S	ATOM	40868	O4' URI	1038	198.450	117.258	18.369	1.00	51.29	Al6S	
ATOM	40816	C2' GUA	1035	204.432	115.213	14.087	1.00	64.38	Al6S	ATOM	40869	C1' URI	1038	199.160	118.107	19.249	1.00	51.29	Al6S	
ATOM	40817	O2' GUA	1035	203.187	115.796	14.461	1.00	64.38	Al6S	ATOM	40870	N1	1038	200.552	117.650	19.283	1.00	63.02	Al6S	
ATOM	40818	C3' GUA	1035	204.337	113.982	13.170	1.00	64.38	Al6S	ATOM	40871	C6	1038	200.932	116.516	18.615	1.00	63.02	Al6S	
ATOM	40819	O3' GUA	1035	203.068	114.091	12.551	1.00	64.38	Al6S	ATOM	40872	C2	1038	201.460	118.390	20.006	1.00	63.02	Al6S	
ATOM	40820	P	1036	202.907	113.980	10.972	1.00	66.61	Al6S	ATOM	40873	O2	1038	201.152	119.391	20.625	1.00	63.02	Al6S	
ATOM	40821	OlP	1036	204.128	113.389	10.376	1.00	119.96	Al6S	ATOM	40874	N3	1038	202.746	117.912	19.979	1.00	63.02	Al6S	
ATOM	40822	O2P	1036	202.379	115.271	10.453	1.00	119.96	Al6S	ATOM	40875	C4	1038	203.198	116.786	19.320	1.00	63.02	Al6S	
ATOM	40823	O5' CYT	1036	201.802	112.860	10.943	1.00	66.61	Al6S	ATOM	40876	O4	1038	204.396	116.510	19.342	1.00	63.02	Al6S	
ATOM	40824	C5' CYT	1036	201.839	111.883	11.966	1.00	66.61	Al6S	ATOM	40877	C5	1038	202.190	116.067	18.612	1.00	63.02	Al6S	
ATOM	40825	C4' CYT	1036	200.461	111.422	12.311	1.00	66.61	Al6S	ATOM	40878	C2' URI	1038	198.974	119.546	18.761	1.00	51.29	Al6S	
ATOM	40826	O4' CYT	1036	199.989	110.554	11.252	1.00	66.61	Al6S	ATOM	40879	O2' URI	1038	197.909	120.141	19.461	1.00	51.29	Al6S	
ATOM	40827	C1' CYT	1036	199.092	109.608	11.785	1.00	66.61	Al6S	ATOM	40880	C3' URI	1038	198.628	119.328	17.296	1.00	51.29	Al6S	
ATOM	40828	N1	1036	199.529	108.259	11.413	1.00	119.96	Al6S	ATOM	40881	O3' URI	1038	197.831	120.368	16.764	1.00	51.29	Al6S	

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ATOM	40882	P	GUA	1039	198.543	121.623	16.075	1.00	52.68	Al6S	ATOM	40935	C1' CYT	1041	208.461	127.269	15.216	1.00	53.67	Al
ATOM	40883	O1P GUA	1039	197.506	122.450	15.398	1.00	71.38	Al6S	ATOM	40936	N1 CYT	1041	207.387	126.423	14.715	1.00	58.89	Al	
ATOM	40884	O2P GUA	1039	199.687	121.095	15.297	1.00	71.38	Al6S	ATOM	40937	C6 CYT	1041	206.096	126.862	14.692	1.00	58.89	Al	
ATOM	40885	O5' GUA	1039	199.115	122.448	17.309	1.00	52.68	Al6S	ATOM	40938	C2 CYT	1041	207.713	125.177	14.235	1.00	58.89	Al	
ATOM	40886	C5' GUA	1039	198.248	122.946	18.321	1.00	52.68	Al6S	ATOM	40939	O2 CYT	1041	208.899	124.812	14.297	1.00	58.89	Al	
ATOM	40887	C4' GUA	1039	199.025	123.795	19.298	1.00	52.68	Al6S	ATOM	40940	N3 CYT	1041	206.742	124.400	13.708	1.00	58.89	Al	
ATOM	40888	O4' GUA	1039	199.916	122.961	20.083	1.00	52.68	Al6S	ATOM	40941	C4 CYT	1041	205.490	124.850	13.651	1.00	58.89	Al	
ATOM	40889	C1' GUA	1039	201.098	123.680	20.374	1.00	52.68	Al6S	ATOM	40942	N4 CYT	1041	204.574	124.077	13.079	1.00	58.89	Al	
ATOM	40890	N9 GUA	1039	202.223	122.924	19.850	1.00	71.38	Al6S	ATOM	40943	C5 CYT	1041	205.127	126.117	14.167	1.00	58.89	Al	
ATOM	40891	C4 GUA	1039	203.529	123.005	20.266	1.00	71.38	Al6S	ATOM	40944	C2' CYT	1041	209.027	128.087	14.061	1.00	53.67	Al	
ATOM	40892	N3 GUA	1039	204.000	123.794	21.251	1.00	71.38	Al6S	ATOM	40945	O2' CYT	1041	210.372	128.392	14.320	1.00	53.67	Al	
ATOM	40893	C2 GUA	1039	205.297	123.626	21.431	1.00	71.38	Al6S	ATOM	40946	C3' CYT	1041	208.136	129.315	14.112	1.00	53.67	Al	
ATOM	40894	N2 GUA	1039	205.937	124.307	22.387	1.00	71.38	Al6S	ATOM	40947	O3' CYT	1041	208.733	130.419	13.460	1.00	53.67	Al	
ATOM	40895	N1 GUA	1039	206.068	122.773	20.694	1.00	71.38	Al6S	ATOM	40948	P CYT	1042	208.338	130.737	11.938	1.00	60.55	Al	
ATOM	40896	C6 GUA	1039	205.606	121.960	19.673	1.00	71.38	Al6S	ATOM	40949	O1P CYT	1042	209.007	132.010	11.572	1.00	62.19	Al	
ATOM	40897	O6 GUA	1039	206.394	121.233	19.068	1.00	71.38	Al6S	ATOM	40950	O2P CYT	1042	206.863	130.632	11.814	1.00	62.19	Al	
ATOM	40898	C5 GUA	1039	204.217	122.112	19.478	1.00	71.38	Al6S	ATOM	40951	O5' CYT	1042	209.027	129.540	11.137	1.00	60.55	Al	
ATOM	40899	N7 GUA	1039	203.362	121.484	18.584	1.00	71.38	Al6S	ATOM	40952	C5' CYT	1042	210.436	129.318	11.241	1.00	60.55	Al	
ATOM	40900	C8 GUA	1039	202.191	121.996	18.843	1.00	71.38	Al6S	ATOM	40953	C4' CYT	1042	210.863	128.089	10.459	1.00	60.55	Al	
ATOM	40901	C2' GUA	1039	200.969	125.069	19.747	1.00	52.68	Al6S	ATOM	40954	O4' CYT	1042	210.375	126.874	10.092	1.00	60.55	Al	
ATOM	40902	O2' GUA	1039	200.522	125.977	20.727	1.00	52.68	Al6S	ATOM	40955	C1' CYT	1042	210.161	125.882	10.085	1.00	60.55	Al	
ATOM	40903	C3' GUA	1039	199.932	124.827	18.660	1.00	52.68	Al6S	ATOM	40956	N1 CYT	1042	208.733	125.554	10.071	1.00	62.19	Al	
ATOM	40904	O3' GUA	1039	199.191	126.002	18.413	1.00	52.68	Al6S	ATOM	40957	C6 CYT	1042	207.813	126.423	10.580	1.00	62.19	Al	
ATOM	40905	P GUA	1040	199.647	126.996	17.241	1.00	54.79	Al6S	ATOM	40958	O2 CYT	1042	208.324	124.345	9.506	1.00	62.19	Al	
ATOM	40906	O1P GUA	1040	198.927	128.289	17.374	1.00	57.56	Al6S	ATOM	40959	N3 CYT	1042	207.176	123.567	9.059	1.00	62.19	Al	
ATOM	40907	O2P GUA	1040	199.561	126.244	15.962	1.00	57.56	Al6S	ATOM	40960	O2 CYT	1042	207.010	124.054	9.461	1.00	62.19	Al	
ATOM	40908	O5' GUA	1040	201.185	127.268	17.555	1.00	54.79	Al6S	ATOM	40961	C4 CYT	1042	206.122	124.911	9.956	1.00	62.19	Al	
ATOM	40909	C5' GUA	1040	201.582	128.060	18.671	1.00	54.79	Al6S	ATOM	40962	N4 CYT	1042	204.843	124.577	9.896	1.00	62.19	Al	
ATOM	40910	C4' GUA	1040	203.083	127.978	18.864	1.00	54.79	Al6S	ATOM	40963	C5 CYT	1042	206.510	126.145	10.540	1.00	62.19	Al	
ATOM	40911	O4' GUA	1040	203.490	126.635	19.242	1.00	54.79	Al6S	ATOM	40964	C2' CYT	1042	210.603	126.481	8.756	1.00	60.55	Al	
ATOM	40912	C1' GUA	1040	204.788	126.380	18.741	1.00	54.79	Al6S	ATOM	40965	O2' CYT	1042	211.949	126.136	8.534	1.00	60.55	Al	
ATOM	40913	N9 GUA	1040	204.718	125.227	17.853	1.00	57.56	Al6S	ATOM	40966	C3' CYT	1042	210.418	127.971	9.010	1.00	60.55	Al	
ATOM	40914	C4 GUA	1040	205.757	124.407	17.482	1.00	57.56	Al6S	ATOM	40967	O3' CYT	1042	211.285	128.737	8.189	1.00	60.55	Al	
ATOM	40915	N3 GUA	1040	207.036	124.506	17.896	1.00	57.56	Al6S	ATOM	40968	P GUA	1043	210.915	129.007	6.650	1.00	44.84	Al	
ATOM	40916	C2 GUA	1040	207.798	123.567	17.363	1.00	57.56	Al6S	ATOM	40969	O1P GUA	1043	212.033	129.846	6.148	1.00	58.38	Al	
ATOM	40917	N2 GUA	1040	209.093	123.491	17.683	1.00	57.56	Al6S	ATOM	40970	O2P GUA	1043	209.525	129.500	6.524	1.00	58.38	Al	
ATOM	40918	N1 GUA	1040	207.347	122.623	16.482	1.00	57.56	Al6S	ATOM	40971	O5' GUA	1043	211.027	127.569	5.959	1.00	44.84	Al	
ATOM	40919	C6 GUA	1040	206.038	122.509	16.038	1.00	57.56	Al6S	ATOM	40972	C5' GUA	1043	212.293	126.909	5.848	1.00	44.84	Al	
ATOM	40920	O6 GUA	1040	205.735	121.619	15.236	1.00	57.56	Al6S	ATOM	40973	C4' GUA	1043	212.153	125.575	5.151	1.00	44.84	Al	
ATOM	40921	C5 GUA	1040	205.207	123.496	16.614	1.00	57.56	Al6S	ATOM	40974	O4' GUA	1043	211.327	124.685	5.937	1.00	44.84	Al	
ATOM	40922	N7 GUA	1040	203.852	123.729	16.450	1.00	57.56	Al6S	ATOM	40975	C1' GUA	1043	210.552	123.862	5.069	1.00	44.84	Al	
ATOM	40923	C8 GUA	1040	203.607	124.761	17.206	1.00	57.56	Al6S	ATOM	40976	N9 GUA	1043	209.143	124.183	5.276	1.00	58.38	Al	
ATOM	40924	C2' GUA	1040	205.236	127.637	17.993	1.00	54.79	Al6S	ATOM	40977	C4 GUA	1043	208.054	123.495	4.788	1.00	58.38	Al	
ATOM	40925	O2' GUA	1040	205.985	128.450	18.865	1.00	54.79	Al6S	ATOM	40978	N3 GUA	1043	208.088	122.367	4.050	1.00	58.38	Al	
ATOM	40926	C3' GUA	1040	203.905	128.269	17.628	1.00	54.79	Al6S	ATOM	40979	C2 GUA	1043	206.873	121.955	3.727	1.00	58.38	Al	
ATOM	40927	O3' GUA	1040	204.030	129.670	17.478	1.00	54.79	Al6S	ATOM	40980	N2 GUA	1043	206.716	120.838	3.010	1.00	58.38	Al	
ATOM	40928	P CYT	1041	204.162	130.305	16.015	1.00	53.67	Al6S	ATOM	40981	N1 GUA	1043	205.721	122.605	4.089	1.00	58.38	Al	
ATOM	40929	O1P CYT	1041	204.208	131.778	16.173	1.00	58.89	Al6S	ATOM	40982	C6 GUA	1043	206.665	123.762	4.853	1.00	58.38	Al	
ATOM	40930	O2P CYT	1041	203.119	129.696	15.148	1.00	58.89	Al6S	ATOM	40983	O6 GUA	1043	204.571	124.263	5.140	1.00	58.38	Al	
ATOM	40931	O5' CYT	1041	205.590	129.797	15.523	1.00	53.67	Al6S	ATOM	40984	C5 GUA	1043	206.957	124.210	5.210	1.00	58.38	Al	
ATOM	40932	C5' CYT	1041	206.792	130.342	16.062	1.00	53.67	Al6S	ATOM	40985	N7 GUA	1043	207.345	125.311	5.960	1.00	58.38	Al	
ATOM	40933	C4' CYT	1041	207.994	129.535	15.608	1.00	53.67	Al6S	ATOM	40986	C8 GUA	1043	208.645	125.250	5.977	1.00	58.38	Al	
ATOM	40934	O4' CYT	1041	207.901	128.185	16.139	1.00	53.67	Al6S	ATOM	40987	C2' GUA	1043	210.999	124.177	3.639	1.00	44.84	Al	

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ATOM	40988	O2' GUA	1043	212.036	123.302	3.243	1.00	44.84	Al6s	ATOM	41041	N3 GUA	1046	205.090	131.612	-2.127	1.00	65.53	/
ATOM	40989	C3' GUA	1043	211.488	125.605	3.790	1.00	44.84	Al6s	ATOM	41042	C2 GUA	1046	204.208	131.447	-1.174	1.00	65.53	/
ATOM	40990	O3' GUA	1043	212.446	125.884	2.794	1.00	44.84	Al6s	ATOM	41043	N2 GUA	1046	204.369	132.081	-0.016	1.00	65.53	/
ATOM	40991	P URT	1044	212.054	126.841	0.707	1.00	52.58	Al6s	ATOM	41044	N1 GUA	1046	203.108	130.646	-1.288	1.00	65.53	/
ATOM	40992	O1P URT	1044	213.255	126.932	0.707	1.00	66.41	Al6s	ATOM	41045	C6 GUA	1046	202.778	129.171	-2.413	1.00	65.53	/
ATOM	40993	O2P URT	1044	211.451	128.079	2.121	1.00	66.41	Al6s	ATOM	41046	O6 GUA	1046	201.785	129.197	-2.405	1.00	65.53	/
ATOM	40994	O5' URT	1044	210.923	126.009	0.835	1.00	52.58	Al6s	ATOM	41047	C5 GUA	1046	203.705	130.087	-3.447	1.00	65.53	/
ATOM	40995	C5' URT	1044	211.165	124.683	0.377	1.00	52.58	Al6s	ATOM	41048	N7 GUA	1046	203.744	129.554	-4.727	1.00	65.53	/
ATOM	40996	C4' URT	1044	209.905	124.116	-0.223	1.00	52.58	Al6s	ATOM	41049	C8 GUA	1046	204.835	130.042	-5.240	1.00	65.53	/
ATOM	40997	O4' URT	1044	208.992	123.736	0.839	1.00	52.58	Al6s	ATOM	41050	C2' GUA	1046	207.912	130.790	-3.791	1.00	58.94	/
ATOM	40998	C1' URT	1044	207.660	123.997	0.427	1.00	52.58	Al6s	ATOM	41051	O2' GUA	1046	208.367	131.587	-2.736	1.00	58.94	/
ATOM	40999	N1 URT	1044	207.065	124.946	1.376	1.00	66.41	Al6s	ATOM	41052	C3' GUA	1046	208.976	130.509	-4.844	1.00	58.94	/
ATOM	41000	C6 URT	1044	207.834	125.882	2.009	1.00	66.41	Al6s	ATOM	41053	O3' GUA	1046	210.210	131.028	-4.312	1.00	58.94	/
ATOM	41001	C2 URT	1044	205.712	124.868	1.609	1.00	66.41	Al6s	ATOM	41054	P URT	1047	210.922	132.352	-4.930	1.00	57.73	/
ATOM	41002	O2 URT	1044	204.997	124.053	1.079	1.00	66.41	Al6s	ATOM	41055	O1P URT	1047	210.981	132.257	-6.407	1.00	84.26	/
ATOM	41003	N3 URT	1044	205.225	125.782	2.496	1.00	66.41	Al6s	ATOM	41056	O2P URT	1047	212.179	132.497	-4.161	1.00	84.26	/
ATOM	41004	C4 URT	1044	205.937	126.742	3.167	1.00	66.41	Al6s	ATOM	41057	O5' URT	1047	210.003	133.601	-4.546	1.00	57.73	/
ATOM	41005	O4 URT	1044	205.359	127.463	3.973	1.00	66.41	Al6s	ATOM	41058	C5' URT	1047	208.779	133.830	-5.232	1.00	57.73	/
ATOM	41006	C5 URT	1044	207.330	126.761	2.876	1.00	66.41	Al6s	ATOM	41059	C4' URT	1047	208.298	135.256	-5.084	1.00	57.73	/
ATOM	41007	C2' URT	1044	207.711	124.540	-1.009	1.00	52.58	Al6s	ATOM	41060	O4' URT	1047	207.661	136.950	-3.688	1.00	57.73	/
ATOM	41008	O2' URT	1044	207.556	123.500	-1.954	1.00	52.58	Al6s	ATOM	41061	C1' URT	1047	207.676	137.418	-2.300	1.00	84.26	/
ATOM	41009	C3' URT	1044	209.117	125.101	-1.079	1.00	52.58	Al6s	ATOM	41062	N1 URT	1047	208.580	136.966	-1.375	1.00	84.26	/
ATOM	41010	O3' URT	1044	209.560	125.086	-2.427	1.00	52.58	Al6s	ATOM	41063	C6 URT	1047	206.732	138.365	-1.974	1.00	84.26	/
ATOM	41011	P CYT	1045	209.981	126.464	-3.141	1.00	33.22	Al6s	ATOM	41064	O2 URT	1047	205.907	138.772	-2.775	1.00	84.26	/
ATOM	41012	O1P CYT	1045	211.357	126.282	-3.684	1.00	84.00	Al6s	ATOM	41065	O2 URT	1047	206.787	138.820	-0.686	1.00	84.26	/
ATOM	41013	O2P CYT	1045	209.682	127.600	-2.225	1.00	33.22	Al6s	ATOM	41066	N3 URT	1047	207.676	138.431	0.289	1.00	84.26	/
ATOM	41014	O5' CYT	1045	208.994	126.601	-4.376	1.00	33.22	Al6s	ATOM	41067	C4 URT	1047	207.649	138.989	1.384	1.00	84.26	/
ATOM	41015	C5' CYT	1045	208.709	125.482	-5.185	1.00	33.22	Al6s	ATOM	41068	O4 URT	1047	208.614	137.428	-0.121	1.00	84.26	/
ATOM	41016	C4' CYT	1045	207.244	125.425	-5.470	1.00	33.22	Al6s	ATOM	41069	C5 URT	1047	208.682	137.593	-4.630	1.00	57.73	/
ATOM	41017	O4' CYT	1045	206.535	125.078	-4.263	1.00	33.22	Al6s	ATOM	41070	C2' URT	1047	208.073	138.618	-5.381	1.00	57.73	/
ATOM	41018	C1' CYT	1045	205.250	125.669	-4.304	1.00	33.22	Al6s	ATOM	41071	O2' URT	1047	209.265	136.380	-5.378	1.00	57.73	/
ATOM	41019	N1 CYT	1045	205.066	126.459	-3.080	1.00	84.00	Al6s	ATOM	41072	C3' URT	1047	209.467	136.521	-6.789	1.00	57.73	/
ATOM	41020	C6 CYT	1045	206.056	127.279	-2.620	1.00	84.00	Al6s	ATOM	41073	O3' URT	1047	208.227	136.853	-7.773	1.00	43.94	/
ATOM	41021	C2 CYT	1045	203.863	126.358	-2.394	1.00	84.00	Al6s	ATOM	41074	P CYT	1048	208.795	137.258	-9.085	1.00	69.66	/
ATOM	41022	O2 CYT	1045	202.992	125.602	-2.829	1.00	84.00	Al6s	ATOM	41075	O1P CYT	1048	207.219	137.721	-7.130	1.00	69.66	/
ATOM	41023	N3 CYT	1045	203.680	127.079	-1.272	1.00	84.00	Al6s	ATOM	41076	O2P CYT	1048	207.540	135.436	-7.987	1.00	43.94	/
ATOM	41024	C4 CYT	1045	204.652	127.873	-0.826	1.00	84.00	Al6s	ATOM	41077	O5' CYT	1048	207.419	134.876	-9.284	1.00	43.94	/
ATOM	41025	N4 CYT	1045	204.431	128.562	0.293	1.00	84.00	Al6s	ATOM	41078	C5' CYT	1048	206.067	134.224	-9.444	1.00	43.94	/
ATOM	41026	C5 CYT	1045	205.893	127.997	-1.506	1.00	84.00	Al6s	ATOM	41079	C4' CYT	1048	205.840	133.354	-8.315	1.00	43.94	/
ATOM	41027	C2' CYT	1045	205.150	126.494	-5.598	1.00	33.22	Al6s	ATOM	41080	O4' CYT	1048	204.454	133.246	-8.077	1.00	43.94	/
ATOM	41028	O2' CYT	1045	204.491	125.707	-6.569	1.00	33.22	Al6s	ATOM	41081	C1' CYT	1048	204.222	133.449	-6.639	1.00	69.66	/
ATOM	41029	C3' CYT	1045	206.618	126.725	-5.943	1.00	33.22	Al6s	ATOM	41082	N1 CYT	1048	205.119	134.136	-6.078	1.00	69.66	/
ATOM	41030	O3' CYT	1045	206.796	126.785	-7.347	1.00	33.22	Al6s	ATOM	41083	C6 CYT	1048	203.073	132.928	-6.800	1.00	69.66	/
ATOM	41031	P GUA	1046	207.229	128.153	-8.076	1.00	58.94	Al6s	ATOM	41084	C2 CYT	1048	202.828	133.117	-4.764	1.00	69.66	/
ATOM	41032	O1P GUA	1046	206.010	128.911	-8.453	1.00	65.53	Al6s	ATOM	41085	O2 CYT	1048	202.305	132.297	-6.800	1.00	69.66	/
ATOM	41033	O2P GUA	1046	208.184	127.748	-9.135	1.00	65.53	Al6s	ATOM	41086	N3 CYT	1048	203.699	133.970	-2.726	1.00	69.66	/
ATOM	41034	O5' GUA	1046	208.037	128.987	-6.983	1.00	58.94	Al6s	ATOM	41087	C4 CYT	1048	203.415	133.970	-4.017	1.00	69.66	/
ATOM	41035	C5' GUA	1046	208.608	130.274	-7.300	1.00	58.94	Al6s	ATOM	41088	N4 CYT	1048	204.899	134.330	-4.562	1.00	69.66	/
ATOM	41036	C4' GUA	1046	208.492	131.192	-6.111	1.00	58.94	Al6s	ATOM	41089	C5 CYT	1048	203.724	134.207	-9.028	1.00	43.94	/
ATOM	41037	O1' GUA	1046	207.106	131.530	-5.928	1.00	58.94	Al6s	ATOM	41090	C2' CYT	1048	203.165	133.475	-10.098	1.00	43.94	/
ATOM	41038	C4' GUA	1046	206.797	131.497	-4.562	1.00	58.94	Al6s	ATOM	41091	O2' CYT	1048	204.847	135.131	-9.497	1.00	43.94	/
ATOM	41039	N9 GUA	1046	205.516	130.848	-4.369	1.00	65.53	Al6s	ATOM	41092	C3' CYT	1048	204.670	135.483	-10.868	1.00	43.94	/
ATOM	41040	C4 GUA	1046	204.778	130.905	-3.228	1.00	65.53	Al6s	ATOM	41093	O3' CYT	1048						/

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ATOM	41094	P	ADE	1049	203.512	136.503	-11.316	1.00	67.43	A16S	ATOM	41147	N1	CYT	1051	192.358	134.823	-3.424	1.00	46.48	A1
ATOM	41095	O1P	ADE	1049	203.391	136.446	-12.794	1.00	57.26	A16S	ATOM	41148	C6	CYT	1051	192.619	135.022	-4.747	1.00	46.48	A1
ATOM	41096	O2P	ADE	1049	203.772	137.806	-10.669	1.00	67.26	A16S	ATOM	41149	C2	CYT	1051	191.742	135.820	-2.669	1.00	46.48	A1
ATOM	41097	O5'	ADE	1049	202.192	135.884	-10.685	1.00	67.43	A16S	ATOM	41150	O2	CYT	1051	191.483	135.589	-1.476	1.00	46.48	A1
ATOM	41098	C5'	ADE	1049	201.069	135.551	-11.495	1.00	67.43	A16S	ATOM	41151	N3	CYT	1051	191.439	137.004	-3.258	1.00	46.48	A1
ATOM	41099	C4'	ADE	1049	199.807	135.799	-10.718	1.00	67.43	A16S	ATOM	41152	C4	CYT	1051	191.720	137.193	-4.549	1.00	46.48	A1
ATOM	41100	O4'	ADE	1049	200.101	135.447	-9.352	1.00	67.43	A16S	ATOM	41153	N4	CYT	1051	191.433	138.375	-5.089	1.00	46.48	A1
ATOM	41101	C1'	ADE	1049	199.524	136.381	-8.482	1.00	67.43	A16S	ATOM	41154	C5	CYT	1051	192.319	136.178	-5.344	1.00	46.48	A1
ATOM	41102	N9	ADE	1049	200.553	136.822	-7.553	1.00	57.26	A16S	ATOM	41155	C2'	CYT	1051	191.522	132.673	-2.508	1.00	48.13	A1
ATOM	41103	C4	ADE	1049	199.420	136.780	-6.191	1.00	57.26	A16S	ATOM	41156	O2'	CYT	1051	191.754	131.865	-1.372	1.00	48.13	A1
ATOM	41104	N3	ADE	1049	199.333	136.440	-5.496	1.00	57.26	A16S	ATOM	41157	C3'	CYT	1051	191.497	131.846	-3.780	1.00	48.13	A1
ATOM	41105	C2	ADE	1049	199.577	136.440	-4.190	1.00	57.26	A16S	ATOM	41158	O3'	CYT	1051	190.801	130.638	-3.536	1.00	48.13	A1
ATOM	41106	N1	ADE	1049	200.700	136.784	-3.551	1.00	57.26	A16S	ATOM	41159	P	URI	1052	189.320	130.459	-4.105	1.00	66.96	A1
ATOM	41107	C6	ADE	1049	201.775	137.152	-4.281	1.00	57.26	A16S	ATOM	41160	O1P	URI	1052	189.005	129.040	-3.796	1.00	43.94	A1
ATOM	41108	N6	ADE	1049	202.898	137.466	-3.638	1.00	57.26	A16S	ATOM	41161	O2P	URI	1052	189.305	130.928	-5.508	1.00	43.94	A1
ATOM	41109	C5	ADE	1049	201.643	137.165	-5.680	1.00	57.26	A16S	ATOM	41162	O5'	URI	1052	188.433	131.500	-3.270	1.00	66.96	A1
ATOM	41110	N7	ADE	1049	202.521	137.486	-6.705	1.00	57.26	A16S	ATOM	41163	C5'	URI	1052	188.211	131.319	-1.876	1.00	66.96	A1
ATOM	41111	C8	ADE	1049	201.821	137.279	-7.794	1.00	57.26	A16S	ATOM	41164	C4'	URI	1052	187.832	132.626	-1.183	1.00	66.96	A1
ATOM	41112	C2'	ADE	1049	198.771	137.433	-9.291	1.00	67.43	A16S	ATOM	41165	O4'	URI	1052	188.675	133.729	-1.614	1.00	66.96	A1
ATOM	41113	O3'	ADE	1049	197.406	137.111	-9.313	1.00	67.43	A16S	ATOM	41166	C1'	URI	1052	188.077	134.944	-1.185	1.00	66.96	A1
ATOM	41114	C2'	ADE	1049	199.338	137.246	-10.679	1.00	67.43	A16S	ATOM	41167	N1	URI	1052	188.020	135.901	-2.293	1.00	43.94	A1
ATOM	41115	O3'	ADE	1049	198.341	137.478	-11.688	1.00	67.43	A16S	ATOM	41168	C6	URI	1052	188.286	135.550	-3.590	1.00	43.94	A1
ATOM	41116	P	GUA	1050	197.001	136.536	-11.813	1.00	38.83	A16S	ATOM	41169	C2	URI	1052	187.683	137.193	-1.969	1.00	43.94	A1
ATOM	41117	O1P	GUA	1050	197.140	136.099	-13.238	1.00	42.02	A16S	ATOM	41170	O2	URI	1052	187.421	137.534	-0.832	1.00	43.94	A1
ATOM	41118	O2P	GUA	1050	195.764	137.229	-11.395	1.00	42.02	A16S	ATOM	41171	N3	URI	1052	187.654	138.070	-3.020	1.00	43.94	A1
ATOM	41119	O5'	GUA	1050	197.170	135.281	-10.842	1.00	38.83	A16S	ATOM	41172	C4	URI	1052	187.912	137.789	-4.335	1.00	43.94	A1
ATOM	41120	C5'	GUA	1050	196.027	134.633	-10.267	1.00	38.83	A16S	ATOM	41173	O4	URI	1052	187.797	138.679	-5.171	1.00	43.94	A1
ATOM	41121	C4'	GUA	1050	196.373	134.040	-8.910	1.00	38.83	A16S	ATOM	41174	C5	URI	1052	188.246	136.430	-4.598	1.00	43.94	A1
ATOM	41122	O4'	GUA	1050	197.160	134.996	-8.151	1.00	38.83	A16S	ATOM	41175	C2'	URI	1052	186.680	134.593	-0.687	1.00	66.96	A1
ATOM	41123	C1'	GUA	1050	196.742	135.014	-6.800	1.00	38.83	A16S	ATOM	41176	O2'	URI	1052	186.745	134.463	0.720	1.00	66.96	A1
ATOM	41124	N9	GUA	1050	196.119	136.305	-6.551	1.00	42.02	A16S	ATOM	41177	C3'	URI	1052	186.456	133.246	-1.358	1.00	66.96	A1
ATOM	41125	C4	GUA	1050	195.703	136.781	-5.346	1.00	42.02	A16S	ATOM	41178	O3'	URI	1052	185.452	132.553	-0.631	1.00	66.96	A1
ATOM	41126	N3	GUA	1050	195.752	136.117	-4.178	1.00	42.02	A16S	ATOM	41179	P	CYT	1053	183.901	132.781	-1.003	1.00	50.85	A1
ATOM	41127	C2	GUA	1050	195.284	136.842	-3.187	1.00	42.02	A16S	ATOM	41180	O1P	CYT	1053	183.207	131.559	-0.501	1.00	44.56	A1
ATOM	41128	N2	GUA	1050	195.244	136.327	-1.961	1.00	42.02	A16S	ATOM	41181	O2P	CYT	1053	183.797	133.151	-2.441	1.00	44.56	A1
ATOM	41129	N1	GUA	1050	194.815	138.123	-3.328	1.00	42.02	A16S	ATOM	41182	O5'	CYT	1053	183.476	134.056	-0.142	1.00	50.85	A1
ATOM	41130	C6	GUA	1050	194.758	138.824	-4.528	1.00	42.02	A16S	ATOM	41183	C5'	CYT	1053	183.731	134.098	1.803	1.00	50.85	A1
ATOM	41131	O6	GUA	1050	195.242	138.054	-5.597	1.00	42.02	A16S	ATOM	41184	C4'	CYT	1053	183.527	135.497	1.265	1.00	50.85	A1
ATOM	41132	C5	GUA	1050	195.342	138.360	-6.945	1.00	42.02	A16S	ATOM	41185	O4'	CYT	1053	184.454	136.408	1.170	1.00	50.85	A1
ATOM	41133	N7	GUA	1050	195.857	137.288	-7.469	1.00	42.02	A16S	ATOM	41186	C1'	CYT	1053	183.842	137.670	1.002	1.00	44.56	A1
ATOM	41134	C8	GUA	1050	195.787	133.841	-6.602	1.00	38.83	A16S	ATOM	41187	N1	CYT	1053	183.866	138.006	-0.427	1.00	44.56	A1
ATOM	41135	C2'	GUA	1050	196.499	132.706	-6.167	1.00	38.83	A16S	ATOM	41188	C6	CYT	1053	184.251	137.082	-1.354	1.00	44.56	A1
ATOM	41136	O2'	GUA	1050	195.196	133.692	-8.002	1.00	38.83	A16S	ATOM	41189	C2	CYT	1053	183.510	139.299	-0.826	1.00	44.56	A1
ATOM	41137	C3'	GUA	1050	194.772	132.353	-8.201	1.00	38.83	A16S	ATOM	41190	O2	CYT	1053	183.144	140.111	0.036	1.00	44.56	A1
ATOM	41138	O3'	GUA	1050	193.242	131.942	-7.930	1.00	48.13	A16S	ATOM	41191	N3	CYT	1053	183.574	139.630	-2.135	1.00	44.56	A1
ATOM	41139	P	CYT	1051	193.184	130.473	-8.101	1.00	46.48	A16S	ATOM	41192	C4	CYT	1053	183.968	138.723	-3.028	1.00	44.56	A1
ATOM	41140	O1P	CYT	1051	193.388	132.826	-8.781	1.00	46.48	A16S	ATOM	41193	N4	CYT	1053	184.020	139.087	-4.302	1.00	44.56	A1
ATOM	41141	O2P	CYT	1051	193.020	132.197	-6.371	1.00	48.13	A16S	ATOM	41194	C5	CYT	1053	182.448	137.590	-2.651	1.00	50.85	A1
ATOM	41142	O5'	CYT	1051	193.401	131.206	-5.418	1.00	48.13	A16S	ATOM	41195	C2'	CYT	1053	182.537	138.007	2.949	1.00	50.85	A1
ATOM	41143	C5'	CYT	1051	192.976	131.598	-4.014	1.00	48.13	A16S	ATOM	41196	O2'	CYT	1053	182.165	136.099	1.524	1.00	50.85	A1
ATOM	41144	C4'	CYT	1051	193.594	132.854	-3.635	1.00	48.13	A16S	ATOM	41197	C3'	CYT	1053	181.260	135.687	2.532	1.00	50.85	A1
ATOM	41145	O4'	CYT	1051	192.729	133.567	-2.767	1.00	48.13	A16S	ATOM	41198	O3'	CYT	1053	179.691	135.632	2.218	1.00	53.73	A1
ATOM	41146	C1'	CYT	1051							ATOM	41199	P	GUA	1054						A1

ATOM	41200	O1P	GUA	1054	179.135	134.932	3.416	1.00	37.99	Al6S	ATOM	41253	C2	GUA	1056	175.274	140.441	-8.707	1.00	51.59	/
ATOM	41201	O2P	GUA	1054	179.410	135.086	0.865	1.00	37.99	Al6S	ATOM	41254	N2	GUA	1056	175.478	140.771	-9.988	1.00	51.59	/
ATOM	41202	O5'	GUA	1054	179.281	137.175	2.179	1.00	53.73	Al6S	ATOM	41255	N1	GUA	1056	175.970	139.355	-8.237	1.00	51.59	/
ATOM	41203	C5'	GUA	1054	179.158	137.946	3.371	1.00	53.73	Al6S	ATOM	41256	C6	GUA	1056	175.884	138.847	-6.948	1.00	51.59	/
ATOM	41204	C4'	GUA	1054	178.719	139.354	3.037	1.00	53.73	Al6S	ATOM	41257	O6	GUA	1056	176.559	137.857	-6.624	1.00	51.59	/
ATOM	41205	O4'	GUA	1054	179.753	140.005	2.252	1.00	53.73	Al6S	ATOM	41258	C5	GUA	1056	174.974	139.594	-6.157	1.00	51.59	/
ATOM	41206	C1'	GUA	1054	179.160	140.957	1.381	1.00	53.73	Al6S	ATOM	41259	N7	GUA	1056	174.580	139.427	-4.836	1.00	51.59	/
ATOM	41207	N9	GUA	1054	179.565	140.654	0.013	1.00	37.99	Al6S	ATOM	41260	C8	GUA	1056	173.730	140.393	-4.631	1.00	51.59	/
ATOM	41208	C4	GUA	1054	179.564	141.523	-1.052	1.00	37.99	Al6S	ATOM	41261	C2'	GUA	1056	171.440	142.071	-6.694	1.00	40.58	/
ATOM	41209	N3	GUA	1054	179.181	142.814	-1.019	1.00	37.99	Al6S	ATOM	41262	O2'	GUA	1056	171.032	143.256	-7.358	1.00	40.58	/
ATOM	41210	C2	GUA	1054	179.309	143.399	-2.199	1.00	37.99	Al6S	ATOM	41263	C3'	GUA	1056	169.456	141.593	-5.627	1.00	40.58	/
ATOM	41211	N2	GUA	1054	178.979	144.683	-2.345	1.00	37.99	Al6S	ATOM	41264	O3'	GUA	1056	169.116	141.785	-6.053	1.00	40.58	/
ATOM	41212	N1	GUA	1054	179.773	142.765	-3.323	1.00	37.99	Al6S	ATOM	41265	P	CYT	1057	168.286	140.555	-6.655	1.00	48.98	/
ATOM	41213	C6	GUA	1054	180.162	141.429	-3.382	1.00	37.99	Al6S	ATOM	41266	O1P	CYT	1057	166.924	141.032	-6.998	1.00	50.01	/
ATOM	41214	O6	GUA	1054	180.559	140.948	-4.449	1.00	37.99	Al6S	ATOM	41267	O2P	CYT	1057	168.460	139.403	-5.738	1.00	50.01	/
ATOM	41215	C5	GUA	1054	180.031	140.793	-2.120	1.00	37.99	Al6S	ATOM	41268	O5'	CYT	1057	169.008	140.248	-8.027	1.00	48.98	/
ATOM	41216	N7	GUA	1054	180.302	139.486	-1.742	1.00	37.99	Al6S	ATOM	41269	C5'	CYT	1057	168.828	141.116	-9.127	1.00	48.98	/
ATOM	41217	C8	GUA	1054	180.015	139.449	-0.470	1.00	37.99	Al6S	ATOM	41270	C4'	CYT	1057	169.711	140.685	-10.256	1.00	48.98	/
ATOM	41218	C2'	GUA	1054	177.644	140.870	1.566	1.00	53.73	Al6S	ATOM	41271	O4'	CYT	1057	171.092	140.776	-9.827	1.00	48.98	/
ATOM	41219	O2'	GUA	1054	177.202	141.904	2.407	1.00	53.73	Al6S	ATOM	41272	C1'	CYT	1057	171.845	139.752	-10.451	1.00	48.98	/
ATOM	41220	O3'	GUA	1054	177.486	139.474	2.156	1.00	53.73	Al6S	ATOM	41273	N1	CYT	1057	172.374	138.862	-9.418	1.00	50.01	/
ATOM	41221	C3'	GUA	1054	176.276	139.336	2.890	1.00	53.73	Al6S	ATOM	41274	C6	CYT	1057	173.328	137.922	-8.129	1.00	50.01	/
ATOM	41222	P	URI	1055	175.094	138.406	2.304	1.00	39.19	Al6S	ATOM	41275	C2	CYT	1057	173.744	137.933	-10.959	1.00	50.01	/
ATOM	41223	O1P	URI	1055	174.229	137.943	3.429	1.00	46.74	Al6S	ATOM	41276	O2	CYT	1057	173.777	137.035	-8.880	1.00	50.01	/
ATOM	41224	O2P	URI	1055	175.744	137.401	1.426	1.00	46.74	Al6S	ATOM	41277	N3	CYT	1057	173.319	136.172	-6.778	1.00	50.01	/
ATOM	41225	O5'	URI	1055	174.268	139.401	1.370	1.00	39.19	Al6S	ATOM	41278	C4	CYT	1057	173.770	136.172	-6.778	1.00	50.01	/
ATOM	41226	C5'	URI	1055	173.729	140.606	1.887	1.00	39.19	Al6S	ATOM	41279	N4	CYT	1057	172.372	136.058	-7.212	1.00	50.01	/
ATOM	41227	C4'	URI	1055	173.596	141.634	0.791	1.00	39.19	Al6S	ATOM	41280	C5	CYT	1057	170.886	138.988	-11.364	1.00	48.98	/
ATOM	41228	O4'	URI	1055	174.910	142.075	0.344	1.00	39.19	Al6S	ATOM	41281	C2'	CYT	1057	167.684	137.662	-11.538	1.00	48.98	/
ATOM	41229	C1'	URI	1055	174.835	142.457	-1.021	1.00	39.19	Al6S	ATOM	41282	O2'	CYT	1057	166.483	137.856	-12.400	1.00	36.82	/
ATOM	41230	N1	URI	1055	175.734	141.598	-1.805	1.00	46.74	Al6S	ATOM	41283	C3'	CYT	1057	169.566	139.551	-12.661	1.00	48.98	/
ATOM	41231	C6	URI	1055	176.159	140.384	-1.322	1.00	46.74	Al6S	ATOM	41284	O3'	CYT	1057	168.465	139.232	-10.655	1.00	48.98	/
ATOM	41232	O2	URI	1055	176.108	142.033	-3.064	1.00	46.74	Al6S	ATOM	41285	P	CYT	1058	167.684	137.662	-11.538	1.00	48.98	/
ATOM	41233	O2	URI	1055	175.801	143.118	-3.507	1.00	46.74	Al6S	ATOM	41286	O1P	CYT	1058	167.537	137.191	-10.144	1.00	36.82	/
ATOM	41234	N3	URI	1055	176.859	141.144	-3.782	1.00	46.74	Al6S	ATOM	41287	O2P	CYT	1058	168.681	136.657	-12.270	1.00	48.98	/
ATOM	41235	C4	URI	1055	177.285	139.898	-3.372	1.00	46.74	Al6S	ATOM	41288	O5'	CYT	1058	168.944	136.776	-13.663	1.00	48.98	/
ATOM	41236	O4	URI	1055	177.915	139.184	-4.157	1.00	46.74	Al6S	ATOM	41289	C5'	CYT	1058	169.817	135.640	-14.124	1.00	48.98	/
ATOM	41237	C5	URI	1055	176.900	139.543	-2.041	1.00	46.74	Al6S	ATOM	41290	O4'	CYT	1058	171.110	135.732	-13.481	1.00	48.98	/
ATOM	41238	C2'	URI	1055	173.383	142.238	-1.456	1.00	39.19	Al6S	ATOM	41291	O4'	CYT	1058	171.638	134.437	-13.290	1.00	48.98	/
ATOM	41239	O2'	URI	1055	172.658	143.419	-1.261	1.00	39.19	Al6S	ATOM	41292	C1'	CYT	1058	171.860	134.265	-11.863	1.00	36.82	/
ATOM	41240	C3'	URI	1055	172.944	141.156	-0.487	1.00	39.19	Al6S	ATOM	41293	N1	CYT	1058	171.355	135.165	-10.978	1.00	36.82	/
ATOM	41241	O3'	URI	1055	171.537	141.102	-0.368	1.00	40.58	Al6S	ATOM	41294	C6	CYT	1058	172.596	133.173	-11.416	1.00	36.82	/
ATOM	41242	P	GUA	1056	170.694	140.139	-1.345	1.00	51.59	Al6S	ATOM	41295	C2	CYT	1058	173.044	132.375	-12.236	1.00	36.82	/
ATOM	41243	O1P	GUA	1056	169.250	140.320	-1.029	1.00	51.59	Al6S	ATOM	41296	O2	CYT	1058	172.799	133.009	-10.102	1.00	36.82	/
ATOM	41244	O2P	GUA	1056	171.281	138.777	-1.260	1.00	51.59	Al6S	ATOM	41297	N3	CYT	1058	172.292	133.885	-9.242	1.00	36.82	/
ATOM	41245	O5'	GUA	1056	170.922	140.790	-2.785	1.00	40.58	Al6S	ATOM	41298	C4	CYT	1058	172.494	133.666	-7.946	1.00	36.82	/
ATOM	41246	C5'	GUA	1056	170.390	142.073	-3.080	1.00	40.58	Al6S	ATOM	41299	N4	CYT	1058	170.618	133.444	-13.835	1.00	48.98	/
ATOM	41247	C4'	GUA	1056	170.785	142.521	-4.469	1.00	40.58	Al6S	ATOM	41300	C5	CYT	1058	170.941	133.105	-15.165	1.00	48.98	/
ATOM	41248	O4'	GUA	1056	172.224	142.698	-4.548	1.00	40.58	Al6S	ATOM	41301	C2'	CYT	1058	169.337	133.253	-13.754	1.00	48.98	/
ATOM	41249	C1'	GUA	1056	172.679	142.358	-5.850	1.00	40.58	Al6S	ATOM	41302	O2'	CYT	1058	168.397	133.780	-14.699	1.00	48.98	/
ATOM	41250	N9	GUA	1056	173.540	141.188	-5.736	1.00	51.59	Al6S	ATOM	41303	C3'	CYT	1058	167.184	132.863	-14.205	1.00	41.61	/
ATOM	41251	C4	GUA	1056	174.332	140.672	-6.725	1.00	51.59	Al6S	ATOM	41304	O3'	CYT	1058						/
ATOM	41252	N3	GUA	1056	174.435	141.150	-7.980	1.00	51.59	Al6S	ATOM	41305	P	GUA	1059						/

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ATOM	41306	O1P	GUA	1059	166.243	132.753	-15.352	1.00	44.26	Al6s	ATOM	41359	C2	GUA	1061	171.723	120.955	-12.164	1.00	32.80	Al
ATOM	41307	O2P	GUA	1059	166.717	133.395	-12.910	1.00	44.26	Al6s	ATOM	41360	N1	GUA	1061	172.142	119.696	-12.385	1.00	32.80	Al
ATOM	41308	O5'	GUA	1059	167.859	131.463	-13.870	1.00	41.61	Al6s	ATOM	41361	N2	GUA	1061	171.610	121.780	-13.260	1.00	32.80	Al
ATOM	41309	C5'	GUA	1059	168.446	130.667	-14.893	1.00	41.61	Al6s	ATOM	41362	C6	GUA	1061	171.191	123.101	-13.227	1.00	32.80	Al
ATOM	41310	C4'	GUA	1059	169.118	129.467	-14.282	1.00	41.61	Al6s	ATOM	41363	O6	GUA	1061	171.125	123.746	-14.270	1.00	32.80	Al
ATOM	41311	O4'	GUA	1059	170.247	129.906	-13.485	1.00	41.61	Al6s	ATOM	41364	C5	GUA	1061	170.881	123.514	-11.919	1.00	32.80	Al
ATOM	41312	C1'	GUA	1059	170.515	128.934	-12.493	1.00	41.61	Al6s	ATOM	41365	N7	GUA	1061	170.421	124.733	-11.445	1.00	32.80	Al
ATOM	41313	N9	GUA	1059	170.630	129.583	-11.192	1.00	44.26	Al6s	ATOM	41366	C8	GUA	1061	170.279	124.542	-10.160	1.00	32.80	Al
ATOM	41314	C4	GUA	1059	171.243	129.049	-10.086	1.00	44.26	Al6s	ATOM	41367	C2'	GUA	1061	171.534	123.032	-7.424	1.00	42.63	Al
ATOM	41315	N3	GUA	1059	172.957	127.906	-10.051	1.00	44.26	Al6s	ATOM	41368	O2'	GUA	1061	171.731	121.924	-6.569	1.00	42.63	Al
ATOM	41316	C2	GUA	1059	172.381	127.628	-8.836	1.00	44.26	Al6s	ATOM	41369	C3'	GUA	1061	171.351	124.205	-6.712	1.00	42.63	Al
ATOM	41317	N2	GUA	1059	173.157	126.560	-8.619	1.00	44.26	Al6s	ATOM	41370	O3'	GUA	1061	171.879	124.332	-5.389	1.00	42.63	Al
ATOM	41318	N1	GUA	1059	172.090	128.382	-7.739	1.00	44.26	Al6s	ATOM	41371	P	AD	1062	172.669	125.188	-5.107	1.00	37.97	Al
ATOM	41319	C6	GUA	1059	171.348	129.555	-7.746	1.00	44.26	Al6s	ATOM	41372	O1P	AD	1062	172.822	125.335	-3.635	1.00	36.67	Al
ATOM	41320	O6	GUA	1059	171.117	130.141	-6.679	1.00	44.26	Al6s	ATOM	41373	O2P	AD	1062	173.631	126.380	-5.979	1.00	36.67	Al
ATOM	41321	C5	GUA	1059	170.936	129.899	-9.054	1.00	44.26	Al6s	ATOM	41374	O5'	AD	1062	173.859	124.257	-5.593	1.00	37.97	Al
ATOM	41322	N7	GUA	1059	170.238	131.001	-9.518	1.00	44.26	Al6s	ATOM	41375	C5'	AD	1062	174.323	123.204	-4.764	1.00	37.97	Al
ATOM	41323	C8	GUA	1059	169.090	130.775	-10.797	1.00	44.26	Al6s	ATOM	41376	C4'	AD	1062	175.299	122.347	-5.517	1.00	37.97	Al
ATOM	41324	C2'	GUA	1059	169.353	127.930	-12.504	1.00	41.61	Al6s	ATOM	41377	C1'	AD	1062	174.672	121.865	-6.736	1.00	37.97	Al
ATOM	41325	O2'	GUA	1059	169.718	126.724	-13.136	1.00	41.61	Al6s	ATOM	41378	O4'	AD	1062	175.660	121.704	-7.736	1.00	37.97	Al
ATOM	41326	C3'	GUA	1059	168.287	128.694	-13.274	1.00	41.61	Al6s	ATOM	41379	N9	AD	1062	175.296	122.541	-8.875	1.00	36.67	Al
ATOM	41327	O3'	GUA	1059	167.371	127.803	-13.897	1.00	41.61	Al6s	ATOM	41380	C4	AD	1062	175.263	122.157	-10.193	1.00	36.67	Al
ATOM	41328	P	URI	1060	165.834	127.784	-13.416	1.00	35.56	Al6s	ATOM	41381	N3	AD	1062	175.569	120.955	-10.698	1.00	36.67	Al
ATOM	41329	O1P	URI	1060	165.031	127.035	-14.406	1.00	46.74	Al6s	ATOM	41382	C2	AD	1062	175.405	120.945	-12.012	1.00	36.67	Al
ATOM	41330	O2P	URI	1060	165.487	129.197	-13.126	1.00	46.74	Al6s	ATOM	41383	N1	AD	1062	175.003	121.922	-12.818	1.00	36.67	Al
ATOM	41331	O5'	URI	1060	165.860	126.933	-12.068	1.00	35.56	Al6s	ATOM	41384	C6	AD	1062	174.700	123.118	-12.278	1.00	36.67	Al
ATOM	41332	C5'	URI	1060	164.953	127.202	-11.021	1.00	35.56	Al6s	ATOM	41385	N6	AD	1062	174.280	124.094	-13.081	1.00	36.67	Al
ATOM	41333	C4'	URI	1060	164.952	126.066	-10.041	1.00	35.56	Al6s	ATOM	41386	C5	AD	1062	174.836	123.262	-10.898	1.00	36.67	Al
ATOM	41334	O4'	URI	1060	164.668	124.861	-10.775	1.00	35.56	Al6s	ATOM	41387	N7	AD	1062	174.618	124.335	-10.047	1.00	36.67	Al
ATOM	41335	C1'	URI	1060	165.329	123.763	-10.171	1.00	35.56	Al6s	ATOM	41388	C8	AD	1062	174.906	123.855	-8.860	1.00	36.67	Al
ATOM	41336	N1	URI	1060	166.214	123.149	-11.165	1.00	46.74	Al6s	ATOM	41389	C2'	AD	1062	176.996	122.074	-7.094	1.00	37.97	Al
ATOM	41337	C6	URI	1060	166.758	123.877	-12.186	1.00	46.74	Al6s	ATOM	41390	O3'	AD	1062	177.548	123.037	-6.540	1.00	37.97	Al
ATOM	41338	C2	URI	1060	166.487	121.815	-11.020	1.00	46.74	Al6s	ATOM	41391	C2'	AD	1062	177.519	123.044	-4.952	1.00	37.97	Al
ATOM	41339	O2	URI	1060	165.981	121.142	-10.143	1.00	46.74	Al6s	ATOM	41392	O3'	AD	1062	178.294	124.402	-4.563	1.00	35.53	Al
ATOM	41340	N3	URI	1060	167.951	121.968	-12.989	1.00	46.74	Al6s	ATOM	41393	P	GUA	1063	177.346	125.542	-5.595	1.00	41.27	Al
ATOM	41341	C4	URI	1060	168.676	121.363	-13.769	1.00	46.74	Al6s	ATOM	41394	O1P	GUA	1063	179.072	124.123	-3.320	1.00	41.27	Al
ATOM	41342	O4	URI	1060	167.593	123.348	-13.078	1.00	46.74	Al6s	ATOM	41395	O2P	GUA	1063	179.292	124.605	-5.777	1.00	35.53	Al
ATOM	41343	C5	URI	1060	167.287	124.149	-7.822	1.00	35.56	Al6s	ATOM	41396	O5'	GUA	1063	179.509	125.886	-6.333	1.00	35.53	Al
ATOM	41344	O2'	URI	1060	166.095	124.301	-8.966	1.00	35.56	Al6s	ATOM	41397	C5'	GUA	1063	179.014	125.905	-7.745	1.00	35.53	Al
ATOM	41345	C2'	URI	1060	166.267	125.762	-9.344	1.00	35.56	Al6s	ATOM	41398	C4'	GUA	1063	177.564	125.766	-7.744	1.00	35.53	Al
ATOM	41346	C3'	URI	1060	166.373	126.529	-8.163	1.00	35.56	Al6s	ATOM	41399	O4'	GUA	1063	177.010	126.543	-8.800	1.00	35.53	Al
ATOM	41347	O3'	URI	1060	167.787	127.134	-7.743	1.00	42.63	Al6s	ATOM	41400	C1'	GUA	1063	176.206	127.597	-8.198	1.00	41.27	Al
ATOM	41348	P	GUA	1061	167.766	127.684	-6.358	1.00	32.80	Al6s	ATOM	41401	N9	GUA	1063	175.586	128.623	-8.855	1.00	41.27	Al
ATOM	41349	O1P	GUA	1061	168.170	128.020	-8.873	1.00	32.80	Al6s	ATOM	41402	C3	GUA	1063	175.580	128.819	-10.183	1.00	41.27	Al
ATOM	41350	O2P	GUA	1061	168.691	128.834	-7.630	1.00	42.63	Al6s	ATOM	41403	N3	GUA	1063	174.904	129.290	-10.512	1.00	41.27	Al
ATOM	41351	O5'	GUA	1061	168.459	124.912	-6.578	1.00	42.63	Al6s	ATOM	41404	C2	GUA	1063	174.775	130.249	-11.785	1.00	41.27	Al
ATOM	41352	C5'	GUA	1061	169.431	123.780	-6.666	1.00	42.63	Al6s	ATOM	41405	N2	GUA	1063	174.297	130.722	-9.612	1.00	41.27	Al
ATOM	41353	C4'	GUA	1061	169.218	123.080	-7.912	1.00	42.63	Al6s	ATOM	41406	N1	GUA	1063	174.294	130.537	-8.237	1.00	41.27	Al
ATOM	41354	O4'	GUA	1061	170.458	122.667	-8.445	1.00	42.63	Al6s	ATOM	41407	C6	GUA	1063	173.709	131.344	-7.508	1.00	41.27	Al
ATOM	41355	C1'	GUA	1061	170.594	123.263	-9.768	1.00	32.80	Al6s	ATOM	41408	O6	GUA	1063	175.001	129.384	-7.871	1.00	41.27	Al
ATOM	41356	N9	GUA	1061	171.020	122.610	-10.888	1.00	32.80	Al6s	ATOM	41409	C5	GUA	1063	175.231	128.836	-6.620	1.00	41.27	Al
ATOM	41357	C4	GUA	1061	171.440	121.333	-10.935	1.00	32.80	Al6s	ATOM	41410	N7	GUA	1063	175.946	127.775	-6.862	1.00	41.27	Al
ATOM	41358	N3	GUA	1061						Al6s	ATOM	41411	C8	GUA	1063						Al

ATOM	41412	C2' GUA	1063	178.188	127.121	-9.587	1.00	35.53	Al6S	ATOM	41465	O4' GUA	1066	181.638	139.981	-10.949	1.00	52.95	f
ATOM	41413	O2' GUA	1063	178.523	126.239	-10.640	1.00	35.53	Al6S	ATOM	41466	C1' GUA	1066	182.163	139.977	-9.617	1.00	52.95	f
ATOM	41414	C3' GUA	1063	179.252	127.195	-8.494	1.00	35.53	Al6S	ATOM	41467	N9 GUA	1066	182.506	138.607	-9.271	1.00	51.72	f
ATOM	41415	O3' GUA	1063	180.580	127.232	-8.978	1.00	35.53	Al6S	ATOM	41468	C4' GUA	1066	182.299	137.991	-8.059	1.00	51.72	f
ATOM	41416	P GUA	1064	181.389	128.613	-8.929	1.00	42.54	Al6S	ATOM	41469	N3 GUA	1066	181.730	138.552	-6.976	1.00	51.72	f
ATOM	41417	O1P GUA	1064	182.815	128.363	-9.288	1.00	45.11	Al6S	ATOM	41470	C2 GUA	1066	181.664	137.710	-5.969	1.00	51.72	f
ATOM	41418	O2P GUA	1064	181.061	129.243	-7.624	1.00	45.11	Al6S	ATOM	41471	N2 GUA	1066	181.102	138.093	-4.810	1.00	51.72	f
ATOM	41419	O5' GUA	1064	180.723	129.475	-10.093	1.00	42.54	Al6S	ATOM	41472	N1 GUA	1066	182.137	136.427	-6.017	1.00	51.72	f
ATOM	41420	C5' GUA	1064	180.589	128.940	-11.398	1.00	42.54	Al6S	ATOM	41473	C6 GUA	1066	182.738	135.836	-7.116	1.00	51.72	f
ATOM	41421	C4' GUA	1064	179.755	129.850	-12.262	1.00	42.54	Al6S	ATOM	41474	O6 GUA	1066	183.166	134.674	-7.037	1.00	51.72	f
ATOM	41422	O4' GUA	1064	178.375	129.845	-11.818	1.00	42.54	Al6S	ATOM	41475	C5 GUA	1066	182.787	136.715	-8.209	1.00	51.72	f
ATOM	41423	C1' GUA	1064	177.805	131.133	-12.018	1.00	42.54	Al6S	ATOM	41476	N7 GUA	1066	183.277	136.523	-9.492	1.00	51.72	f
ATOM	41424	N9 GUA	1064	177.432	131.681	-10.717	1.00	45.11	Al6S	ATOM	41477	C8 GUA	1066	183.092	137.672	-10.085	1.00	51.72	f
ATOM	41425	C4 GUA	1064	176.217	133.654	-11.420	1.00	45.11	Al6S	ATOM	41478	C2' GUA	1066	183.351	140.930	-9.553	1.00	52.95	f
ATOM	41426	N3 GUA	1064	175.207	133.684	-10.884	1.00	45.11	Al6S	ATOM	41479	O3' GUA	1066	182.898	142.202	-9.120	1.00	52.95	f
ATOM	41427	C2 GUA	1064	175.584	134.684	-10.884	1.00	45.11	Al6S	ATOM	41480	C3' GUA	1066	183.815	140.930	-9.553	1.00	52.95	f
ATOM	41428	N2 GUA	1064	175.000	135.582	-11.669	1.00	45.11	Al6S	ATOM	41481	O3' GUA	1066	184.514	142.100	-11.349	1.00	52.95	f
ATOM	41429	N1 GUA	1064	175.486	134.905	-9.539	1.00	45.11	Al6S	ATOM	41482	P URI	1067	186.057	142.251	-10.957	1.00	63.59	f
ATOM	41430	C6 GUA	1064	176.009	134.078	-8.555	1.00	45.11	Al6S	ATOM	41483	O1P URI	1067	186.207	142.103	-9.485	1.00	62.40	f
ATOM	41431	O6 GUA	1064	175.880	134.375	-7.367	1.00	45.11	Al6S	ATOM	41484	O2P URI	1067	186.744	141.008	-11.669	1.00	63.59	f
ATOM	41432	C5 GUA	1064	176.658	132.954	-9.113	1.00	45.11	Al6S	ATOM	41485	O5' URI	1067	188.153	140.922	-11.827	1.00	63.59	f
ATOM	41433	N7 GUA	1064	177.288	131.882	-8.494	1.00	45.11	Al6S	ATOM	41486	C5' URI	1067	188.545	139.480	-11.856	1.00	63.59	f
ATOM	41434	C8 GUA	1064	177.734	131.157	-9.481	1.00	45.11	Al6S	ATOM	41487	C4' URI	1067	187.988	137.671	-10.512	1.00	63.59	f
ATOM	41435	C2' GUA	1064	178.868	131.972	-12.724	1.00	42.54	Al6S	ATOM	41488	O4' URI	1067	188.537	138.970	-10.512	1.00	63.59	f
ATOM	41436	O2' GUA	1064	178.742	131.793	-14.110	1.00	42.54	Al6S	ATOM	41489	C1' URI	1067	187.092	137.569	-9.333	1.00	62.40	f
ATOM	41437	C3' GUA	1064	180.143	131.311	-12.235	1.00	42.54	Al6S	ATOM	41490	N1 URI	1067	186.845	136.311	-8.822	1.00	62.40	f
ATOM	41438	O3' GUA	1064	181.208	131.548	-13.134	1.00	42.54	Al6S	ATOM	41491	C6 URI	1067	185.628	137.378	-6.973	1.00	62.40	f
ATOM	41439	P URI	1065	182.301	132.674	-12.792	1.00	52.26	Al6S	ATOM	41492	C2 URI	1067	187.438	137.319	-11.880	1.00	63.59	f
ATOM	41440	O1P URI	1065	183.281	132.715	-13.921	1.00	55.41	Al6S	ATOM	41493	O2 URI	1067	187.222	135.287	-9.364	1.00	62.40	f
ATOM	41441	O2P URI	1065	182.798	132.456	-11.399	1.00	55.41	Al6S	ATOM	41494	N3 URI	1067	186.130	136.294	-7.653	1.00	62.40	f
ATOM	41442	O5' URI	1065	181.459	134.025	-12.865	1.00	52.26	Al6S	ATOM	41495	C4 URI	1067	185.628	137.378	-6.973	1.00	62.40	f
ATOM	41443	C5' URI	1065	180.944	134.482	-14.110	1.00	52.26	Al6S	ATOM	41496	O4 URI	1067	185.121	137.206	-5.864	1.00	62.40	f
ATOM	41444	C4' URI	1065	180.091	135.714	-13.916	1.00	52.26	Al6S	ATOM	41497	C5 URI	1067	185.860	138.640	-7.607	1.00	62.40	f
ATOM	41445	O4' URI	1065	179.032	135.406	-12.985	1.00	52.26	Al6S	ATOM	41498	C2' URI	1067	187.438	137.319	-11.880	1.00	63.59	f
ATOM	41446	C1' URI	1065	178.662	136.573	-12.280	1.00	52.26	Al6S	ATOM	41499	O2' URI	1067	188.163	138.246	-12.447	1.00	63.59	f
ATOM	41447	N1 URI	1065	178.804	136.287	-10.852	1.00	55.41	Al6S	ATOM	41500	C3' URI	1067	187.531	138.654	-12.622	1.00	63.59	f
ATOM	41448	C6 URI	1065	179.676	135.330	-10.421	1.00	55.41	Al6S	ATOM	41501	O3' URI	1067	187.848	138.625	-14.021	1.00	63.59	f
ATOM	41449	C2' URI	1065	178.028	137.001	-9.966	1.00	55.41	Al6S	ATOM	41502	P URI	1068	189.328	138.203	-14.536	1.00	61.18	f
ATOM	41450	O2 URI	1065	177.240	137.860	-10.321	1.00	55.41	Al6S	ATOM	41503	O1P URI	1068	189.929	137.147	-13.686	1.00	85.31	f
ATOM	41451	N3 URI	1065	178.208	136.666	-8.648	1.00	55.41	Al6S	ATOM	41504	O2P URI	1068	190.100	139.442	-14.809	1.00	85.31	f
ATOM	41452	C4 URI	1065	179.067	135.710	-8.150	1.00	55.41	Al6S	ATOM	41505	O5' URI	1068	189.001	137.533	-15.936	1.00	61.18	f
ATOM	41453	O4 URI	1065	179.120	135.513	-6.943	1.00	55.41	Al6S	ATOM	41506	C5' URI	1068	188.609	136.169	-16.009	1.00	61.18	f
ATOM	41454	C5 URI	1065	179.828	135.023	-9.135	1.00	55.41	Al6S	ATOM	41507	C4' URI	1068	187.513	136.005	-17.024	1.00	61.18	f
ATOM	41455	C2' URI	1065	179.545	137.712	-12.787	1.00	52.26	Al6S	ATOM	41508	O4' URI	1068	186.294	136.583	-16.499	1.00	61.18	f
ATOM	41456	O2' URI	1065	178.861	138.397	-13.821	1.00	52.26	Al6S	ATOM	41509	C1' URI	1068	185.584	137.232	-17.544	1.00	61.18	f
ATOM	41457	C3' URI	1065	180.752	136.950	-13.325	1.00	52.26	Al6S	ATOM	41510	N1 URI	1068	185.506	138.669	-17.227	1.00	85.31	f
ATOM	41458	O3' URI	1065	181.339	137.720	-14.370	1.00	52.26	Al6S	ATOM	41511	C6 URI	1068	184.924	139.527	-18.162	1.00	85.31	f
ATOM	41459	P GUA	1066	182.915	138.039	-14.356	1.00	52.95	Al6S	ATOM	41512	C2 URI	1068	184.513	139.152	-19.255	1.00	85.31	f
ATOM	41460	O1P GUA	1066	183.132	138.768	-15.637	1.00	51.72	Al6S	ATOM	41513	O2 URI	1068	184.845	140.842	-17.767	1.00	85.31	f
ATOM	41461	O2P GUA	1066	183.684	136.800	-14.058	1.00	51.72	Al6S	ATOM	41514	N3 URI	1068	185.083	142.576	-16.335	1.00	85.31	f
ATOM	41462	O5' GUA	1066	183.135	139.037	-13.135	1.00	52.95	Al6S	ATOM	41515	C4 URI	1068	185.277	141.380	-16.567	1.00	85.31	f
ATOM	41463	C5' GUA	1066	182.588	140.347	-13.151	1.00	52.95	Al6S	ATOM	41516	O4 URI	1068	185.083	142.576	-16.335	1.00	85.31	f
ATOM	41464	C4' GUA	1066	182.502	140.881	-11.748	1.00	52.95	Al6S	ATOM	41517	C5 URI	1068	185.882	140.439	-15.672	1.00	85.31	f

ATOM	41518	C2' URI	1068	186.329	136.906	-18.835	1.00	61.18	Al6S	ATOM	41571	O5' GUA	1071	194.889	144.652	-25.669	1.00	70.98	Al
ATOM	41519	O2' URI	1068	185.859	135.675	-19.328	1.00	61.18	Al6S	ATOM	41572	C5' GUA	1071	194.944	145.809	-26.489	1.00	70.98	Al
ATOM	41520	C3' URI	1068	187.741	136.777	-18.306	1.00	61.18	Al6S	ATOM	41573	O4' GUA	1071	195.337	147.013	-25.679	1.00	70.98	Al
ATOM	41521	O3' URI	1068	188.594	136.096	-19.200	1.00	61.18	Al6S	ATOM	41574	C4' GUA	1071	194.275	147.339	-24.746	1.00	70.98	Al
ATOM	41522	P' GUA	1069	189.731	136.924	-19.968	1.00	64.72	Al6S	ATOM	41575	C1' GUA	1071	194.836	147.900	-23.569	1.00	70.98	Al
ATOM	41523	O1P GUA	1069	190.431	135.960	-20.859	1.00	56.45	Al6S	ATOM	41576	N9 GUA	1071	194.597	146.983	-22.463	1.00	47.53	Al
ATOM	41524	O2P GUA	1069	190.504	137.694	-18.962	1.00	56.45	Al6S	ATOM	41577	C4 GUA	1071	194.763	147.274	-21.136	1.00	47.53	Al
ATOM	41525	O5' GUA	1069	188.913	137.939	-20.877	1.00	64.72	Al6S	ATOM	41578	N3 GUA	1071	195.123	148.468	-20.632	1.00	47.53	Al
ATOM	41526	C5' GUA	1069	188.050	137.459	-21.887	1.00	64.72	Al6S	ATOM	41579	C2 GUA	1071	195.617	149.521	-18.658	1.00	47.53	Al
ATOM	41527	C4' GUA	1069	187.454	138.615	-22.635	1.00	64.72	Al6S	ATOM	41580	N2 GUA	1071	195.032	147.312	-18.565	1.00	47.53	Al
ATOM	41528	O4' GUA	1069	186.584	139.359	-21.749	1.00	64.72	Al6S	ATOM	41581	N1 GUA	1071	194.659	146.072	-19.060	1.00	47.53	Al
ATOM	41529	C1' GUA	1069	186.675	140.741	-22.040	1.00	64.72	Al6S	ATOM	41582	C6 GUA	1071	194.500	145.126	-18.284	1.00	47.53	Al
ATOM	41530	N9 GUA	1069	187.153	141.416	-20.843	1.00	56.45	Al6S	ATOM	41583	O6 GUA	1071	194.522	146.094	-20.468	1.00	47.53	Al
ATOM	41531	C4 GUA	1069	187.360	142.759	-20.694	1.00	56.45	Al6S	ATOM	41584	C5 GUA	1071	194.178	145.084	-21.357	1.00	47.53	Al
ATOM	41532	N3 GUA	1069	187.192	143.696	-21.648	1.00	56.45	Al6S	ATOM	41585	N7 GUA	1071	194.222	145.661	-22.528	1.00	47.53	Al
ATOM	41533	C2 GUA	1069	187.478	144.905	-21.201	1.00	56.45	Al6S	ATOM	41586	C8 GUA	1071	196.341	148.003	-23.810	1.00	70.98	Al
ATOM	41534	N2 GUA	1069	187.403	145.949	-22.025	1.00	56.45	Al6S	ATOM	41587	O2' GUA	1071	196.659	149.255	-24.379	1.00	70.98	Al
ATOM	41535	N1 GUA	1069	187.869	145.172	-19.913	1.00	56.45	Al6S	ATOM	41588	C3' GUA	1071	196.550	146.853	-24.783	1.00	70.98	Al
ATOM	41536	C6 GUA	1069	188.039	144.215	-18.915	1.00	56.45	Al6S	ATOM	41589	O3' GUA	1071	197.781	146.960	-25.487	1.00	70.98	Al
ATOM	41537	O6 GUA	1069	188.390	144.557	-17.782	1.00	56.45	Al6S	ATOM	41590	C3' GUA	1071	199.042	146.080	-25.013	1.00	61.47	Al
ATOM	41538	C5 GUA	1069	187.763	142.922	-19.387	1.00	56.45	Al6S	ATOM	41591	P' GUA	1072	200.163	146.378	-25.931	1.00	66.40	Al
ATOM	41539	N7 GUA	1069	187.828	141.703	-18.736	1.00	56.45	Al6S	ATOM	41592	O1P URI	1072	198.587	144.672	-24.836	1.00	66.40	Al
ATOM	41540	C8 GUA	1069	187.463	140.837	-19.639	1.00	56.45	Al6S	ATOM	41593	O2P URI	1072	199.423	146.670	-23.579	1.00	61.47	Al
ATOM	41541	C2' GUA	1069	187.607	140.898	-23.239	1.00	64.72	Al6S	ATOM	41594	O5' URI	1072	199.658	148.067	-23.390	1.00	61.47	Al
ATOM	41542	O2' GUA	1069	186.846	140.914	-24.433	1.00	64.72	Al6S	ATOM	41595	C5' URI	1072	199.737	148.391	-21.914	1.00	61.47	Al
ATOM	41543	C3' GUA	1069	188.462	139.644	-23.108	1.00	64.72	Al6S	ATOM	41596	C4' URI	1072	198.465	148.080	-21.279	1.00	61.47	Al
ATOM	41544	O3' GUA	1069	189.023	139.256	-24.354	1.00	64.72	Al6S	ATOM	41597	O4' URI	1072	198.692	147.622	-19.953	1.00	61.47	Al
ATOM	41545	P' GUA	1070	190.550	139.918	-24.675	1.00	56.04	Al6S	ATOM	41598	C1' URI	1072	198.197	146.245	-19.839	1.00	66.40	Al
ATOM	41546	O1P GUA	1070	190.880	138.918	-25.938	1.00	56.04	Al6S	ATOM	41599	N1 URI	1072	197.842	145.521	-20.942	1.00	66.40	Al
ATOM	41547	O2P GUA	1070	190.368	139.366	-23.453	1.00	56.04	Al6S	ATOM	41600	C6 URI	1072	198.105	145.708	-18.574	1.00	66.40	Al
ATOM	41548	O5' GUA	1070	190.518	141.183	-24.967	1.00	67.16	Al6S	ATOM	41601	C2 URI	1072	198.432	146.319	-17.574	1.00	66.40	Al
ATOM	41549	C5' GUA	1070	190.300	141.666	-26.283	1.00	67.16	Al6S	ATOM	41602	O2 URI	1072	197.623	144.429	-18.520	1.00	66.40	Al
ATOM	41550	C4' GUA	1070	189.524	143.154	-26.328	1.00	67.16	Al6S	ATOM	41603	N3 URI	1072	197.235	143.648	-19.583	1.00	66.40	Al
ATOM	41551	O4' GUA	1070	189.554	143.795	-25.459	1.00	67.16	Al6S	ATOM	41604	C4 URI	1072	196.739	142.531	-19.372	1.00	66.40	Al
ATOM	41552	C1' GUA	1070	190.169	144.867	-24.770	1.00	56.04	Al6S	ATOM	41605	O4 URI	1072	197.380	144.275	-20.864	1.00	66.40	Al
ATOM	41553	N9 GUA	1070	190.324	144.470	-23.377	1.00	56.04	Al6S	ATOM	41606	C5 URI	1072	200.196	147.690	-19.702	1.00	61.47	Al
ATOM	41554	C4 GUA	1070	190.707	145.287	-22.354	1.00	56.04	Al6S	ATOM	41607	C2' URI	1072	200.529	148.912	-19.089	1.00	61.47	Al
ATOM	41555	N3 GUA	1070	190.983	146.598	-22.463	1.00	56.04	Al6S	ATOM	41608	O2' URI	1072	200.733	147.569	-21.117	1.00	61.47	Al
ATOM	41556	C2 GUA	1070	191.360	147.118	-21.313	1.00	56.04	Al6S	ATOM	41609	C3' URI	1072	202.053	148.070	-21.208	1.00	61.47	Al
ATOM	41557	N2 GUA	1070	191.700	148.415	-21.262	1.00	56.04	Al6S	ATOM	41610	O3' URI	1072	203.286	147.100	-20.860	1.00	57.59	Al
ATOM	41558	N1 GUA	1070	191.440	146.405	-20.136	1.00	56.04	Al6S	ATOM	41611	P' URI	1073	204.532	147.812	-21.248	1.00	59.08	Al
ATOM	41559	C6 GUA	1070	191.154	145.405	-20.005	1.00	56.04	Al6S	ATOM	41612	O1P URI	1073	203.003	145.753	-21.414	1.00	59.08	Al
ATOM	41560	O6 GUA	1070	191.267	144.482	-18.900	1.00	56.04	Al6S	ATOM	41613	O2P URI	1073	203.226	146.965	-19.274	1.00	57.59	Al
ATOM	41561	C5 GUA	1070	190.762	144.480	-21.239	1.00	56.04	Al6S	ATOM	41614	O5' URI	1073	203.407	148.101	-18.429	1.00	57.59	Al
ATOM	41562	N7 GUA	1070	190.404	143.178	-21.554	1.00	56.04	Al6S	ATOM	41615	C4' URI	1073	203.308	147.690	-16.980	1.00	57.59	Al
ATOM	41563	C8 GUA	1070	191.146	143.220	-22.834	1.00	67.16	Al6S	ATOM	41616	O4' URI	1073	201.956	147.252	-16.686	1.00	57.59	Al
ATOM	41564	C2' GUA	1070	191.536	145.057	-25.418	1.00	67.16	Al6S	ATOM	41617	C1' URI	1073	201.992	146.265	-15.672	1.00	57.59	Al
ATOM	41565	O2' GUA	1070	191.408	145.845	-26.577	1.00	67.16	Al6S	ATOM	41618	N1 URI	1073	201.326	145.059	-16.167	1.00	59.08	Al
ATOM	41566	C3' GUA	1070	192.859	143.628	-25.783	1.00	67.16	Al6S	ATOM	41619	C6 URI	1073	201.114	144.850	-17.500	1.00	59.08	Al
ATOM	41567	O3' GUA	1070	192.891	143.566	-26.751	1.00	70.98	Al6S	ATOM	41620	C2 URI	1073	200.940	144.136	-15.234	1.00	59.08	Al
ATOM	41568	P' GUA	1071	194.401	143.263	-26.280	1.00	47.53	Al6S	ATOM	41621	O2 URI	1073	201.080	144.312	-14.054	1.00	59.08	Al
ATOM	41569	O1P GUA	1071	195.155	142.973	-27.526	1.00	47.53	Al6S	ATOM	41622	O2 URI	1073	200.376	143.003	-15.735	1.00	59.08	Al
ATOM	41570	O2P GUA	1071	194.395	142.256	-25.183	1.00	47.53	Al6S	ATOM	41623	N3 URI	1073						Al

ATOM	41624	C4	URI	1073	200.145	142.718	-17.056	1.00	59.08	A16S	ATOM	41677	O2P	GUA	1076	198.418	138.944	-13.852	1.00	57.28
ATOM	41625	O4	URI	1073	199.622	141.643	-17.357	1.00	59.08	A16S	ATOM	41678	O5	GUA	1076	197.092	140.303	-12.223	1.00	62.55
ATOM	41626	C5	URI	1073	200.551	143.741	-17.968	1.00	59.08	A16S	ATOM	41679	C5	GUA	1076	196.147	141.382	-12.339	1.00	62.55
ATOM	41627	C2	URI	1073	203.459	145.988	-15.341	1.00	57.59	A16S	ATOM	41680	C4	GUA	1076	195.299	141.522	-11.071	1.00	62.55
ATOM	41628	O2	URI	1073	203.820	146.670	-14.161	1.00	57.59	A16S	ATOM	41681	O4	GUA	1076	194.261	140.530	-10.944	1.00	62.55
ATOM	41629	C3	URI	1073	204.156	146.494	-16.598	1.00	57.59	A16S	ATOM	41682	C1	GUA	1076	193.799	140.608	-9.626	1.00	62.55
ATOM	41630	O3	URI	1073	205.495	146.877	-16.343	1.00	57.59	A16S	ATOM	41683	N9	GUA	1076	192.992	139.452	-9.272	1.00	57.28
ATOM	41631	P	ADE	1074	206.680	145.823	-16.604	1.00	55.54	A16S	ATOM	41684	C4	GUA	1076	191.737	139.505	-8.714	1.00	57.28
ATOM	41632	O1P	ADE	1074	206.585	145.467	-18.043	1.00	58.24	A16S	ATOM	41685	N3	GUA	1076	191.030	140.627	-8.460	1.00	57.28
ATOM	41633	O2P	ADE	1074	207.963	146.334	-16.043	1.00	58.24	A16S	ATOM	41686	C2	GUA	1076	189.873	140.357	-7.881	1.00	57.28
ATOM	41634	O5	ADE	1074	206.278	144.543	-15.753	1.00	55.54	A16S	ATOM	41687	N2	GUA	1076	189.037	141.343	-7.564	1.00	57.28
ATOM	41635	C5	ADE	1074	207.093	143.391	-15.771	1.00	55.54	A16S	ATOM	41688	N1	GUA	1076	189.448	139.096	-7.572	1.00	57.28
ATOM	41636	C4	ADE	1074	207.090	142.757	-14.416	1.00	55.54	A16S	ATOM	41689	C6	GUA	1076	190.152	137.929	-7.826	1.00	57.28
ATOM	41637	O4	ADE	1074	207.733	143.660	-13.490	1.00	55.54	A16S	ATOM	41690	O6	GUA	1076	189.672	136.839	-7.494	1.00	57.28
ATOM	41638	C1	ADE	1074	207.142	143.522	-12.212	1.00	55.54	A16S	ATOM	41691	C5	GUA	1076	191.395	137.338	-8.459	1.00	57.28
ATOM	41639	N9	ADE	1074	206.732	144.849	-11.750	1.00	58.24	A16S	ATOM	41692	N7	GUA	1076	192.394	137.338	-8.459	1.00	57.28
ATOM	41640	C4	ADE	1074	206.314	145.161	-10.484	1.00	58.24	A16S	ATOM	41693	C8	GUA	1076	193.316	138.127	-9.372	1.00	57.28
ATOM	41641	N3	ADE	1074	206.142	144.316	-9.463	1.00	58.24	A16S	ATOM	41694	C2	GUA	1076	194.987	140.955	-8.722	1.00	62.55
ATOM	41642	C2	ADE	1074	205.761	144.974	-8.381	1.00	58.24	A16S	ATOM	41695	O2	GUA	1076	194.553	141.801	-7.676	1.00	62.55
ATOM	41643	N1	ADE	1074	205.555	146.282	-8.216	1.00	58.24	A16S	ATOM	41696	C3	GUA	1076	196.000	141.564	-9.714	1.00	62.55
ATOM	41644	C6	ADE	1074	205.742	147.100	-9.264	1.00	58.24	A16S	ATOM	41697	O3	GUA	1076	196.190	142.955	-9.447	1.00	62.55
ATOM	41645	N6	ADE	1074	205.550	148.403	-9.092	1.00	58.24	A16S	ATOM	41698	P	URI	1077	197.162	143.448	-8.270	1.00	58.17
ATOM	41646	C5	ADE	1074	206.133	146.527	-10.471	1.00	58.24	A16S	ATOM	41699	O1P	URI	1077	197.997	142.297	-7.857	1.00	52.23
ATOM	41647	N7	ADE	1074	206.387	147.068	-11.720	1.00	58.24	A16S	ATOM	41700	O2P	URI	1077	196.362	144.178	-7.241	1.00	52.23
ATOM	41648	C8	ADE	1074	206.026	142.484	-12.325	1.00	55.54	A16S	ATOM	41701	O5	URI	1077	198.044	144.533	-9.035	1.00	58.17
ATOM	41649	C2	ADE	1074	206.527	141.227	-11.925	1.00	55.54	A16S	ATOM	41702	C5	URI	1077	198.740	145.549	-8.330	1.00	58.17
ATOM	41650	O2	ADE	1074	205.716	142.551	-13.814	1.00	55.54	A16S	ATOM	41703	O4	URI	1077	199.059	146.705	-9.252	1.00	58.17
ATOM	41651	C3	ADE	1074	205.130	141.361	-14.308	1.00	55.54	A16S	ATOM	41704	C4	URI	1077	199.724	146.204	-10.441	1.00	58.17
ATOM	41652	O3	ADE	1074	203.677	141.423	-14.978	1.00	56.60	A16S	ATOM	41705	C1	URI	1077	199.425	147.047	-11.546	1.00	58.17
ATOM	41653	P	ADE	1075	203.443	140.153	-15.703	1.00	45.14	A16S	ATOM	41706	N1	URI	1077	198.799	146.039	-12.602	1.00	52.23
ATOM	41654	O1P	ADE	1075	203.540	142.708	-15.704	1.00	45.14	A16S	ATOM	41707	C6	URI	1077	198.189	145.037	-12.327	1.00	52.23
ATOM	41655	O2P	ADE	1075	202.709	141.427	-13.720	1.00	56.60	A16S	ATOM	41708	C2	URI	1077	198.855	146.723	-13.888	1.00	52.23
ATOM	41656	O5	ADE	1075	202.637	140.281	-12.873	1.00	56.60	A16S	ATOM	41709	O2	URI	1077	199.362	147.789	-14.162	1.00	52.23
ATOM	41657	C5	ADE	1075	201.883	140.610	-11.610	1.00	56.60	A16S	ATOM	41710	N3	URI	1077	198.289	145.917	-14.841	1.00	52.23
ATOM	41658	C4	ADE	1075	202.636	141.575	-10.835	1.00	56.60	A16S	ATOM	41711	C4	URI	1077	197.674	144.706	-14.638	1.00	52.23
ATOM	41659	O4	ADE	1075	201.746	142.452	-10.178	1.00	56.60	A16S	ATOM	41712	O4	URI	1077	197.210	144.096	-15.598	1.00	52.23
ATOM	41660	C1	ADE	1075	202.096	143.816	-10.557	1.00	45.14	A16S	ATOM	41713	C5	URI	1077	197.638	144.276	-13.278	1.00	52.23
ATOM	41661	N9	ADE	1075	202.220	144.889	-9.709	1.00	45.14	A16S	ATOM	41714	C2	URI	1077	198.506	148.151	-11.028	1.00	58.17
ATOM	41662	C4	ADE	1075	202.082	144.895	-8.369	1.00	45.14	A16S	ATOM	41715	O2	URI	1077	199.276	149.277	-10.650	1.00	58.17
ATOM	41663	N3	ADE	1075	202.242	146.120	-7.895	1.00	45.14	A16S	ATOM	41716	C3	URI	1077	197.874	147.462	-9.827	1.00	58.17
ATOM	41664	C2	ADE	1075	202.496	147.254	-8.558	1.00	45.14	A16S	ATOM	41717	O3	URI	1077	197.370	148.419	-8.907	1.00	58.17
ATOM	41665	N1	ADE	1075	202.626	147.206	-9.900	1.00	45.14	A16S	ATOM	41718	P	CYT	1078	195.807	148.765	-8.906	1.00	54.35
ATOM	41666	C6	ADE	1075	202.864	148.329	-10.562	1.00	45.14	A16S	ATOM	41719	O1P	CYT	1078	195.604	149.681	-7.751	1.00	59.23
ATOM	41667	N6	ADE	1075	202.495	145.973	-10.519	1.00	45.14	A16S	ATOM	41720	O2P	CYT	1078	195.055	147.487	-8.971	1.00	59.23
ATOM	41668	C5	ADE	1075	202.578	145.586	-11.848	1.00	45.14	A16S	ATOM	41721	O5	CYT	1078	196.040	150.951	-10.305	1.00	54.35
ATOM	41669	N7	ADE	1075	202.344	144.300	-10.533	1.00	56.60	A16S	ATOM	41722	C5	CYT	1078	196.111	151.431	-11.734	1.00	54.35
ATOM	41670	C8	ADE	1075	199.793	141.285	-9.450	1.00	56.60	A16S	ATOM	41723	C4	CYT	1078	196.911	150.493	-12.507	1.00	54.35
ATOM	41671	C2	ADE	1075	200.514	141.235	-11.826	1.00	56.60	A16S	ATOM	41724	O4	CYT	1078	195.992	149.102	-14.152	1.00	59.23
ATOM	41672	O2	ADE	1075	199.572	140.166	-11.979	1.00	56.60	A16S	ATOM	41725	C1	CYT	1078	195.805	148.174	-13.170	1.00	59.23
ATOM	41673	C3	ADE	1075	198.430	140.243	-13.105	1.00	62.55	A16S	ATOM	41726	N1	CYT	1078	195.730	148.785	-15.479	1.00	59.23
ATOM	41674	O3	ADE	1075	198.633	141.512	-13.858	1.00	57.28	A16S	ATOM	41727	C6	CYT	1078	195.957	149.638	-16.345	1.00	59.23
ATOM	41675	P	GUA	1076							ATOM	41728	C2	CYT	1078					
ATOM	41676	O1P	GUA	1076							ATOM	41729	O2	CYT	1078					

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ATOM	41730	N3	CYT	1078	195.249	147.564	-15.790	1.00	59.23	Al6S	ATOM	41783	C4' GUA	1081	183.576	149.946	-21.957	1.00	66.08	A	
ATOM	41731	C4	CYT	1078	195.051	146.667	-14.828	1.00	59.23	Al6S	ATOM	41784	O4' GUA	1081	184.764	149.305	-21.432	1.00	66.08	A	
ATOM	41732	N4	CYT	1078	194.570	145.476	-15.179	1.00	59.23	Al6S	ATOM	41785	Cl' GUA	1081	184.447	147.992	-21.011	1.00	66.08	A	
ATOM	41733	C5	CYT	1078	195.339	146.953	-13.461	1.00	59.23	Al6S	ATOM	41786	N9 GUA	1081	184.798	147.842	-19.605	1.00	48.42	A	
ATOM	41734	C2' CYT	1078	195.285	151.455	-13.938	1.00	54.35	Al6S	ATOM	41787	C4 GUA	1081	184.772	146.668	-18.910	1.00	48.42	A		
ATOM	41735	O2' CYT	1078	195.754	152.706	-14.397	1.00	54.35	Al6S	ATOM	41788	N3 GUA	1081	184.387	145.477	-19.401	1.00	48.42	A		
ATOM	41736	C3' CYT	1078	194.801	151.488	-12.494	1.00	54.35	Al6S	ATOM	41789	C2 GUA	1081	184.487	144.522	-18.500	1.00	48.42	A		
ATOM	41737	O3' CYT	1078	194.070	152.677	-12.221	1.00	54.35	Al6S	ATOM	41790	N2 GUA	1081	184.142	143.268	-18.814	1.00	48.42	A		
ATOM	41738	P	CYT	1079	192.537	152.796	-12.708	1.00	67.58	Al6S	ATOM	41791	N1 GUA	1081	184.937	144.722	-17.223	1.00	48.42	A	
ATOM	41739	O1P	CYT	1079	192.044	154.128	-12.299	1.00	62.76	Al6S	ATOM	41792	C6 GUA	1081	185.359	145.937	-16.704	1.00	48.42	A	
ATOM	41740	O2P	CYT	1079	191.782	151.581	-12.320	1.00	62.76	Al6S	ATOM	41793	O6 GUA	1081	185.798	145.992	-15.550	1.00	48.42	A	
ATOM	41741	O5' CYT	1079	192.620	152.811	-14.292	1.00	67.58	Al6S	ATOM	41794	C5 GUA	1081	185.234	146.974	-17.650	1.00	48.42	A		
ATOM	41742	C5' CYT	1079	193.078	153.964	-14.965	1.00	67.58	Al6S	ATOM	41795	N7 GUA	1081	185.519	148.326	-17.545	1.00	48.42	A		
ATOM	41743	C4' CYT	1079	192.896	153.799	-16.445	1.00	67.58	Al6S	ATOM	41796	C8 GUA	1081	185.240	148.805	-18.727	1.00	48.42	A		
ATOM	41744	O4' CYT	1079	193.661	152.650	-16.888	1.00	67.58	Al6S	ATOM	41797	C2' GUA	1081	182.964	147.786	-21.261	1.00	66.08	A		
ATOM	41745	C1' CYT	1079	192.983	152.023	-17.958	1.00	67.58	Al6S	ATOM	41798	O2' GUA	1081	182.821	147.193	-22.531	1.00	66.08	A		
ATOM	41746	N1	CYT	1079	192.658	150.656	-17.551	1.00	62.76	Al6S	ATOM	41799	C3' GUA	1081	182.468	149.221	-21.222	1.00	66.08	A	
ATOM	41747	C6	CYT	1079	192.706	150.274	-16.240	1.00	62.76	Al6S	ATOM	41800	O3' GUA	1081	181.232	149.339	-21.903	1.00	66.08	A	
ATOM	41748	C2	CYT	1079	192.304	149.749	-18.533	1.00	62.76	Al6S	ATOM	41801	P	CYT	1082	179.874	149.447	-21.052	1.00	62.86	A
ATOM	41749	O2	CYT	1079	192.264	150.142	-19.710	1.00	62.76	Al6S	ATOM	41802	O1P	CYT	1082	178.766	149.577	-22.034	1.00	49.15	A
ATOM	41750	N3	CYT	1079	192.018	148.472	-18.187	1.00	62.76	Al6S	ATOM	41803	O2P	CYT	1082	180.082	150.505	-20.022	1.00	49.15	A
ATOM	41751	C4	CYT	1079	192.083	148.103	-16.910	1.00	62.76	Al6S	ATOM	41804	O5' CYT	1082	179.738	148.029	-20.330	1.00	62.86	A	
ATOM	41752	N4	CYT	1079	191.812	146.832	-16.614	1.00	62.76	Al6S	ATOM	41805	C5' CYT	1082	179.235	146.895	-21.036	1.00	62.86	A	
ATOM	41753	C5	CYT	1079	192.431	149.019	-15.879	1.00	62.76	Al6S	ATOM	41806	C4' CYT	1082	179.311	145.660	-20.168	1.00	62.86	A	
ATOM	41754	C2' CYT	1079	191.729	152.846	-18.243	1.00	67.58	Al6S	ATOM	41807	O4' CYT	1082	180.659	145.553	-19.661	1.00	62.86	A		
ATOM	41755	O2' CYT	1079	192.005	153.817	-19.226	1.00	67.58	Al6S	ATOM	41808	C1' CYT	1082	180.640	144.961	-18.380	1.00	62.86	A		
ATOM	41756	C3' CYT	1079	191.483	153.482	-16.888	1.00	67.58	Al6S	ATOM	41809	N1	CYT	1082	181.273	145.885	-17.454	1.00	49.15	A	
ATOM	41757	O3' CYT	1079	190.719	154.669	-17.022	1.00	67.58	Al6S	ATOM	41810	C6	CYT	1082	181.395	147.209	-17.756	1.00	49.15	A	
ATOM	41758	P	CYT	1080	189.115	154.598	-16.937	1.00	67.85	Al6S	ATOM	41811	C2	CYT	1082	181.752	145.389	-16.255	1.00	49.15	A
ATOM	41759	O1P	CYT	1080	188.628	155.985	-17.196	1.00	56.20	Al6S	ATOM	41812	O2	CYT	1082	181.619	144.177	-16.022	1.00	49.15	A
ATOM	41760	O2P	CYT	1080	188.745	153.902	-15.670	1.00	56.20	Al6S	ATOM	41813	N3	CYT	1082	182.346	146.228	-15.380	1.00	49.15	A
ATOM	41761	O5' CYT	1080	188.691	153.686	-18.175	1.00	67.85	Al6S	ATOM	41814	C4	CYT	1082	182.456	147.521	-15.675	1.00	49.15	A	
ATOM	41762	C5' CYT	1080	188.802	154.180	-19.504	1.00	67.85	Al6S	ATOM	41815	N4	CYT	1082	183.032	148.313	-14.784	1.00	49.15	A	
ATOM	41763	C4' CYT	1080	188.330	153.147	-20.498	1.00	67.85	Al6S	ATOM	41816	C5	CYT	1082	181.975	148.056	-16.900	1.00	49.15	A	
ATOM	41764	O4' CYT	1080	189.238	152.015	-20.495	1.00	67.85	Al6S	ATOM	41817	C2' CYT	1082	179.189	144.680	-18.004	1.00	62.86	A		
ATOM	41765	C1' CYT	1080	188.520	150.832	-20.806	1.00	67.85	Al6S	ATOM	41818	O2' CYT	1082	178.881	143.324	-18.243	1.00	62.86	A		
ATOM	41766	N1	CYT	1080	188.962	150.379	-19.428	1.00	56.20	Al6S	ATOM	41819	C3' CYT	1082	177.443	145.644	-18.917	1.00	62.86	A	
ATOM	41767	C6	CYT	1080	188.344	148.575	-19.865	1.00	56.20	Al6S	ATOM	41820	O3' CYT	1082	177.161	145.113	-19.220	1.00	62.86	A	
ATOM	41768	C2	CYT	1080	188.039	148.193	-21.002	1.00	56.20	Al6S	ATOM	41821	P	ADE	1083	175.855	145.702	-18.489	1.00	53.93	A
ATOM	41769	O2	CYT	1080	188.412	147.723	-18.821	1.00	56.20	Al6S	ATOM	41822	O1P	ADE	1083	174.716	145.182	-19.304	1.00	44.72	A
ATOM	41770	N3	CYT	1080	188.730	148.182	-17.613	1.00	56.20	Al6S	ATOM	41823	O2P	ADE	1083	176.025	147.171	-18.301	1.00	44.72	A
ATOM	41771	C4	CYT	1080	188.412	147.723	-18.821	1.00	56.20	Al6S	ATOM	41824	O5' ADE	1083	175.829	147.171	-18.301	1.00	44.72	A	
ATOM	41772	N4	CYT	1080	188.730	148.182	-17.613	1.00	56.20	Al6S	ATOM	41825	C5' ADE	1083	175.584	143.601	-16.957	1.00	53.93	A	
ATOM	41773	C5	CYT	1080	188.755	147.317	-16.603	1.00	56.20	Al6S	ATOM	41826	C4' ADE	1083	175.882	143.120	-15.565	1.00	53.93	A	
ATOM	41774	C5	CYT	1080	189.028	149.553	-17.383	1.00	56.20	Al6S	ATOM	41827	O4' ADE	1083	175.882	143.120	-15.565	1.00	53.93	A	
ATOM	41775	C2' CYT	1080	187.073	151.248	-22.061	1.00	67.85	Al6S	ATOM	41828	C1' ADE	1083	175.001	143.747	-14.625	1.00	53.93	A		
ATOM	41776	O2' CYT	1080	186.891	151.528	-22.433	1.00	67.85	Al6S	ATOM	41829	O1' ADE	1083	174.694	142.841	-13.582	1.00	53.93	A		
ATOM	41777	C3' CYT	1080	186.983	152.508	-20.220	1.00	67.85	Al6S	ATOM	41829	N9	ADE	1083	173.271	142.971	-13.264	1.00	44.72	A	
ATOM	41778	O3' CYT	1080	185.899	153.323	-20.632	1.00	67.85	Al6S	ATOM	41830	C4	ADE	1083	172.771	143.179	-12.005	1.00	44.72	A	
ATOM	41779	P	GUA	1081	184.469	153.160	-19.908	1.00	66.08	Al6S	ATOM	41831	N3	ADE	1083	173.464	143.239	-10.860	1.00	44.72	A
ATOM	41780	O1P	GUA	1081	183.582	154.212	-20.485	1.00	48.42	Al6S	ATOM	41832	C2	ADE	1083	172.656	143.502	-9.836	1.00	44.72	A
ATOM	41781	O5' GUA	1081	184.679	153.105	-18.433	1.00	48.42	Al6S	ATOM	41833	N1	ADE	1083	171.331	143.706	-9.828	1.00	44.72	A	
ATOM	41782	C5' GUA	1081	183.966	151.716	-20.370	1.00	66.08	Al6S	ATOM	41834	C6	ADE	1083	170.667	143.636	-10.997	1.00	44.72	A	
ATOM	41782	C5' GUA	1081	183.687	151.438	-21.737	1.00	66.08	Al6S	ATOM	41835	N6	ADE	1083	169.352	143.850	-10.990	1.00	44.72	A	

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ATOM	41836	C5	ADE	1083	171.412	143.345	-12.161	1.00	44.72	A16S	ATOM	41889	C5' GUA	1086	183.223	149.942	-5.153	1.00	56.90		
ATOM	41837	N7	ADE	1083	171.051	143.194	-13.493	1.00	44.72	A16S	ATOM	41890	C4' GUA	1086	182.789	149.250	-3.899	1.00	56.90		
ATOM	41838	C8	ADE	1083	172.187	142.967	-14.102	1.00	44.72	A16S	ATOM	41891	O4' GUA	1086	181.948	148.133	-4.260	1.00	56.90		
ATOM	41839	C2'	ADE	1083	175.217	141.445	-13.936	1.00	53.93	A16S	ATOM	41892	C1' GUA	1086	182.136	147.084	-3.328	1.00	56.90		
ATOM	41840	O2'	ADE	1083	176.195	140.991	-13.022	1.00	53.93	A16S	ATOM	41893	N9 GUA	1086	182.573	145.889	-4.043	1.00	50.27		
ATOM	41841	C3'	ADE	1083	175.707	141.629	-15.368	1.00	53.93	A16S	ATOM	41894	C4 GUA	1086	182.795	144.661	-3.479	1.00	50.27		
ATOM	41842	O3'	ADE	1083	176.938	140.963	-15.672	1.00	53.93	A16S	ATOM	41895	N3 GUA	1086	182.635	144.353	-2.175	1.00	50.27		
ATOM	41843	P	ADE	1084	178.364	141.526	-15.120	1.00	49.71	A16S	ATOM	41896	C2 GUA	1086	182.917	143.093	-1.927	1.00	50.27		
ATOM	41844	O1P	ADE	1084	179.186	141.487	-16.351	1.00	39.42	A16S	ATOM	41897	N2 GUA	1086	182.787	142.617	-0.688	1.00	50.27		
ATOM	41845	O2P	ADE	1084	178.854	140.873	-13.867	1.00	39.42	A16S	ATOM	41898	N1 GUA	1086	183.342	142.205	-2.881	1.00	50.27		
ATOM	41846	O5'	ADE	1084	178.174	143.064	-14.805	1.00	49.71	A16S	ATOM	41899	C6 GUA	1086	183.520	142.504	-4.232	1.00	50.27		
ATOM	41847	C5'	ADE	1084	179.046	143.732	-13.912	1.00	49.71	A16S	ATOM	41900	O6 GUA	1086	183.913	141.627	-5.013	1.00	50.27		
ATOM	41848	C4'	ADE	1084	178.228	144.530	-12.934	1.00	49.71	A16S	ATOM	41901	C5 GUA	1086	183.204	143.853	-4.511	1.00	50.27		
ATOM	41849	O4'	ADE	1084	177.342	143.636	-12.209	1.00	49.71	A16S	ATOM	41902	N7 GUA	1086	183.232	144.556	-5.706	1.00	50.27		
ATOM	41850	C1'	ADE	1084	177.236	144.058	-10.871	1.00	49.71	A16S	ATOM	41903	C8 GUA	1086	182.849	145.759	-5.382	1.00	50.27		
ATOM	41851	N9	ADE	1084	177.796	143.004	-10.040	1.00	39.42	A16S	ATOM	41904	C2' GUA	1086	183.180	147.550	-2.312	1.00	56.90		
ATOM	41852	C4	ADE	1084	177.589	142.815	-8.696	1.00	39.42	A16S	ATOM	41905	O2' GUA	1086	182.555	148.056	-1.156	1.00	56.90		
ATOM	41853	N3	ADE	1084	176.853	143.575	-7.863	1.00	39.42	A16S	ATOM	41906	C3' GUA	1086	183.910	148.614	-3.110	1.00	56.90		
ATOM	41854	C2	ADE	1084	176.856	143.058	-6.631	1.00	39.42	A16S	ATOM	41907	O3' GUA	1086	184.541	149.569	-2.277	1.00	56.90		
ATOM	41855	N1	ADE	1084	177.460	141.956	-6.175	1.00	39.42	A16S	ATOM	41908	P	ADE	1087	186.103	149.409	-1.943	1.00	65.90	
ATOM	41856	C6	ADE	1084	178.195	141.222	-7.036	1.00	39.42	A16S	ATOM	41909	O1P	ADE	1087	186.517	150.658	-1.246	1.00	60.86	
ATOM	41857	N6	ADE	1084	178.801	140.123	-6.582	1.00	39.42	A16S	ATOM	41910	O2P	ADE	1087	186.819	148.987	-3.181	1.00	60.86	
ATOM	41858	C5	ADE	1084	178.277	141.664	-8.371	1.00	39.42	A16S	ATOM	41911	O5'	ADE	1087	186.121	148.201	-0.908	1.00	65.90	
ATOM	41859	N7	ADE	1084	178.923	141.153	-9.483	1.00	39.42	A16S	ATOM	41912	C5'	ADE	1087	185.387	148.287	0.291	1.00	65.90	
ATOM	41860	C8	ADE	1084	178.609	141.987	-10.440	1.00	39.42	A16S	ATOM	41913	C4'	ADE	1087	185.461	146.988	1.029	1.00	65.90	
ATOM	41861	C2'	ADE	1084	177.949	145.404	-10.770	1.00	49.71	A16S	ATOM	41914	O4'	ADE	1087	184.760	145.965	0.282	1.00	65.90	
ATOM	41862	O2'	ADE	1084	177.003	146.403	-11.088	1.00	49.71	A16S	ATOM	41915	C1'	ADE	1087	185.398	144.712	0.480	1.00	65.90	
ATOM	41863	C3'	ADE	1084	179.001	145.270	-11.866	1.00	49.71	A16S	ATOM	41916	N9	ADE	1087	185.830	144.215	-0.828	1.00	60.86	
ATOM	41864	O3'	ADE	1084	179.381	146.530	-12.404	1.00	49.71	A16S	ATOM	41917	C4	ADE	1087	186.196	142.927	-1.139	1.00	60.86	
ATOM	41865	P	CYT	1085	180.474	147.432	-11.642	1.00	58.88	A16S	ATOM	41918	N3	ADE	1087	186.233	141.866	-0.313	1.00	60.86	
ATOM	41866	O1P	CYT	1085	180.519	148.717	-12.400	1.00	45.12	A16S	ATOM	41919	C2'	ADE	1087	186.621	140.735	-0.972	1.00	60.86	
ATOM	41867	O2P	CYT	1085	181.722	146.652	-11.432	1.00	45.12	A16S	ATOM	41920	N1	ADE	1087	186.950	140.635	-2.265	1.00	60.86	
ATOM	41868	O5'	CYT	1085	179.843	147.697	-10.203	1.00	58.88	A16S	ATOM	41921	C6	ADE	1087	186.899	141.720	-3.066	1.00	60.86	
ATOM	41869	C4'	CYT	1085	178.958	149.005	-9.990	1.00	58.88	A16S	ATOM	41922	N6	ADE	1087	187.220	141.577	-4.355	1.00	60.86	
ATOM	41870	C5'	CYT	1085	178.787	149.005	-8.521	1.00	58.88	A16S	ATOM	41923	C5	ADE	1087	186.505	142.939	-2.489	1.00	60.86	
ATOM	41871	O4'	CYT	1085	178.151	147.843	-7.946	1.00	58.88	A16S	ATOM	41924	N7	ADE	1087	186.343	144.211	-3.017	1.00	60.86	
ATOM	41872	C1'	CYT	1085	178.653	147.619	-6.646	1.00	58.88	A16S	ATOM	41925	C8	ADE	1087	185.944	144.929	-1.996	1.00	60.86	
ATOM	41873	N1	CYT	1085	179.272	146.303	-6.643	1.00	45.12	A16S	ATOM	41926	C2'	ADE	1087	186.547	144.960	1.458	1.00	65.90	
ATOM	41874	C6	CYT	1085	179.708	145.730	-7.804	1.00	45.12	A16S	ATOM	41927	O2'	ADE	1087	186.085	144.784	2.782	1.00	65.90	
ATOM	41875	C2	CYT	1085	179.402	145.637	-5.439	1.00	45.12	A16S	ATOM	41928	C3'	ADE	1087	186.851	146.420	1.178	1.00	65.90	
ATOM	41876	O2	CYT	1085	178.997	146.195	-4.419	1.00	45.12	A16S	ATOM	41929	O3'	ADE	1087	187.525	147.025	2.258	1.00	65.90	
ATOM	41877	N3	CYT	1085	179.960	144.402	-5.414	1.00	45.12	A16S	ATOM	41930	P	GUA	1088	189.119	146.903	2.347	1.00	59.21	
ATOM	41878	C4	CYT	1085	180.369	143.839	-6.553	1.00	45.12	A16S	ATOM	41931	O1P	GUA	1088	189.614	147.721	3.496	1.00	47.45	
ATOM	41879	N4	CYT	1085	180.882	142.620	-6.496	1.00	45.12	A16S	ATOM	41932	O2P	GUA	1088	189.641	147.150	0.968	1.00	47.45	
ATOM	41880	C5	CYT	1085	180.257	144.508	-7.805	1.00	45.12	A16S	ATOM	41933	O5'	GUA	1088	189.351	145.386	2.756	1.00	59.21	
ATOM	41881	C2'	CYT	1085	179.935	149.788	-5.678	1.00	58.88	A16S	ATOM	41934	C5'	GUA	1088	189.044	144.960	4.066	1.00	59.21	
ATOM	41882	O2'	CYT	1085	178.995	149.732	-6.347	1.00	58.88	A16S	ATOM	41935	C4'	GUA	1088	189.261	142.845	4.183	1.00	59.21	
ATOM	41883	C3'	CYT	1085	180.086	149.108	-7.753	1.00	58.88	A16S	ATOM	41936	O4'	GUA	1088	188.510	142.887	3.125	1.00	59.21	
ATOM	41884	O3'	CYT	1085	180.601	150.424	-7.820	1.00	58.88	A16S	ATOM	41937	C1'	GUA	1088	189.159	141.646	2.751	1.00	59.21	
ATOM	41885	P	GUA	1086	182.114	150.691	-7.387	1.00	56.90	A16S	ATOM	41938	N9	GUA	1088	189.401	141.672	1.315	1.00	47.45	
ATOM	41886	O1P	GUA	1086	182.407	152.126	-7.619	1.00	50.27	A16S	ATOM	41939	C4	GUA	1088	189.783	140.596	0.559	1.00	47.45	
ATOM	41887	O2P	GUA	1086	182.957	149.646	-8.022	1.00	50.27	A16S	ATOM	41940	N3	GUA	1088	190.011	139.350	1.027	1.00	47.45	
ATOM	41888	O5'	GUA	1086	182.089	150.441	-5.823	1.00	56.90	A16S	ATOM	41941	C2	GUA	1088	190.340	138.516	0.063	1.00	47.45	

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ATOM	41942	N2	GUA	1088	190.591	137.233	0.358	1.00	47.45	Al6S	ATOM	41995	O3' GUA	1090	201.164	139.701	0.130	1.00	64.12	Al	
ATOM	41943	N1	GUA	1088	190.443	138.880	-1.261	1.00	47.45	Al6S	ATOM	41996	P	CYT	1091	202.230	140.791	-0.404	1.00	45.09	Al
ATOM	41944	C6	GUA	1088	190.216	140.159	-1.761	1.00	47.45	Al6S	ATOM	41997	O1P	CYT	1091	203.525	140.087	-0.552	1.00	67.86	Al
ATOM	41945	O6	GUA	1088	190.336	140.377	-2.971	1.00	47.45	Al6S	ATOM	41998	O2P	CYT	1091	202.157	142.027	0.411	1.00	67.86	Al
ATOM	41946	C5	GUA	1088	189.858	141.062	-0.734	1.00	47.45	Al6S	ATOM	41999	O5' CYT	1091	201.696	141.201	-1.848	1.00	45.09	Al	
ATOM	41947	N7	GUA	1088	189.541	142.413	-0.790	1.00	47.45	Al6S	ATOM	42000	C5' CYT	1091	202.152	140.526	-3.017	1.00	45.09	Al	
ATOM	41948	C8	GUA	1088	189.284	142.735	0.451	1.00	47.45	Al6S	ATOM	42001	C4' CYT	1091	202.224	141.484	-4.181	1.00	45.09	Al	
ATOM	41949	C2' GUA	1088	190.450	141.561	3.557	1.00	59.21	Al6S	ATOM	42002	O4' CYT	1091	200.890	141.869	-4.605	1.00	45.09	Al		
ATOM	41950	O2' GUA	1088	190.237	140.766	4.699	1.00	59.21	Al6S	ATOM	42003	C1' CYT	1091	200.894	143.224	-5.037	1.00	45.09	Al		
ATOM	41951	C3' GUA	1088	190.670	143.024	3.893	1.00	59.21	Al6S	ATOM	42004	N1	CYT	1091	200.018	143.987	-4.136	1.00	67.86	Al	
ATOM	41952	O3' GUA	1088	191.529	143.183	5.002	1.00	59.21	Al6S	ATOM	42005	C6	CYT	1091	199.598	145.449	-2.950	1.00	67.86	Al	
ATOM	41953	P	CYT	1089	193.083	143.444	4.736	1.00	49.40	Al6S	ATOM	42006	C2	CYT	1091	199.625	145.284	-4.505	1.00	67.86	Al
ATOM	41954	O1P	CYT	1089	193.766	143.753	6.017	1.00	37.39	Al6S	ATOM	42007	O2	CYT	1091	200.011	145.744	-5.594	1.00	67.86	Al
ATOM	41955	O2P	CYT	1089	193.165	144.414	3.612	1.00	37.39	Al6S	ATOM	42008	N3	CYT	1091	198.840	145.997	-3.664	1.00	67.86	Al
ATOM	41956	O5' CYT	1089	193.619	142.017	4.269	1.00	49.40	Al6S	ATOM	42009	C4	CYT	1091	198.451	145.465	-2.500	1.00	67.86	Al	
ATOM	41957	C5' CYT	1089	193.905	141.006	5.233	1.00	49.40	Al6S	ATOM	42010	N4	CYT	1091	197.699	146.210	-1.691	1.00	67.86	Al	
ATOM	41958	C4' CYT	1089	194.373	139.731	4.558	1.00	49.40	Al6S	ATOM	42011	C5	CYT	1091	198.824	144.145	-2.111	1.00	67.86	Al	
ATOM	41959	O4' CYT	1089	193.356	139.257	3.638	1.00	49.40	Al6S	ATOM	42012	C2' CYT	1091	202.342	143.712	-4.976	1.00	45.09	Al		
ATOM	41960	C1' CYT	1089	193.973	138.551	2.572	1.00	49.40	Al6S	ATOM	42013	O2' CYT	1091	202.914	142.562	-6.250	1.00	45.09	Al		
ATOM	41961	N1	CYT	1089	193.730	139.297	1.341	1.00	37.39	Al6S	ATOM	42014	C3' CYT	1091	202.914	142.803	-3.888	1.00	45.09	Al	
ATOM	41962	C6	CYT	1089	193.343	140.606	1.378	1.00	37.39	Al6S	ATOM	42015	O3' CYT	1091	204.323	142.651	-3.940	1.00	45.09	Al	
ATOM	41963	C2' CYT	1089	193.929	138.655	0.128	1.00	37.39	Al6S	ATOM	42016	P	ADE	1092	205.263	143.693	-3.177	1.00	56.11	Al	
ATOM	41964	O2' CYT	1089	194.179	137.434	0.141	1.00	37.39	Al6S	ATOM	42017	O1P	ADE	1092	206.618	143.507	-3.754	1.00	56.50	Al	
ATOM	41965	N3	CYT	1089	193.821	139.368	-1.024	1.00	37.39	Al6S	ATOM	42018	O2P	ADE	1092	205.070	143.562	-1.695	1.00	56.50	Al
ATOM	41966	C4	CYT	1089	193.474	140.654	-0.976	1.00	37.39	Al6S	ATOM	42019	O5' ADE	1092	204.702	145.114	-3.648	1.00	56.11	Al	
ATOM	41967	N4	CYT	1089	193.397	141.330	-2.116	1.00	37.39	Al6S	ATOM	42020	C5' ADE	1092	205.078	145.696	-4.899	1.00	56.11	Al	
ATOM	41968	C5	CYT	1089	195.467	138.524	0.253	1.00	37.39	Al6S	ATOM	42021	C4' ADE	1092	204.505	147.098	-5.026	1.00	56.11	Al	
ATOM	41969	C2' CYT	1089	195.780	137.392	3.660	1.00	49.40	Al6S	ATOM	42022	O4' ADE	1092	203.051	147.021	-4.997	1.00	56.11	Al		
ATOM	41970	O2' CYT	1089	195.613	139.800	3.683	1.00	49.40	Al6S	ATOM	42023	C1' ADE	1092	202.525	148.052	-4.173	1.00	56.11	Al		
ATOM	41971	C3' CYT	1089	196.786	139.729	4.466	1.00	49.40	Al6S	ATOM	42024	N9	ADE	1092	202.092	147.442	-2.914	1.00	56.50	Al	
ATOM	41972	O3' CYT	1089	197.934	140.820	4.262	1.00	64.12	Al6S	ATOM	42025	C4	ADE	1092	201.202	147.951	-1.999	1.00	56.50	Al	
ATOM	41973	P	GUA	1090	198.959	140.435	5.262	1.00	55.46	Al6S	ATOM	42026	N3	ADE	1092	199.788	149.116	-2.064	1.00	56.50	Al
ATOM	41974	O1P	GUA	1090	197.333	142.167	4.304	1.00	55.46	Al6S	ATOM	42027	C2	ADE	1092	199.629	148.482	0.072	1.00	56.50	Al
ATOM	41975	O2P	GUA	1090	198.456	140.567	2.776	1.00	64.12	Al6S	ATOM	42028	N1	ADE	1092	200.123	147.313	0.099	1.00	56.50	Al
ATOM	41976	O5' GUA	1090	198.887	139.273	2.391	1.00	64.12	Al6S	ATOM	42029	C6	ADE	1092	200.298	147.313	0.099	1.00	56.50	Al	
ATOM	41977	C5' GUA	1090	198.893	139.101	0.884	1.00	64.12	Al6S	ATOM	42030	N6	ADE	1092	201.138	146.499	-1.143	1.00	56.50	Al	
ATOM	41978	C4' GUA	1090	197.591	139.367	0.284	1.00	64.12	Al6S	ATOM	42031	C5	ADE	1092	201.966	147.021	-0.980	1.00	56.50	Al	
ATOM	41979	O4' GUA	1090	197.763	139.419	-1.121	1.00	64.12	Al6S	ATOM	42032	N7	ADE	1092	201.966	145.944	-1.247	1.00	56.50	Al	
ATOM	41980	C1' GUA	1090	197.116	140.596	-1.688	1.00	55.46	Al6S	ATOM	42033	C8	ADE	1092	202.503	146.241	-2.401	1.00	56.50	Al	
ATOM	41981	N9	GUA	1090	197.134	140.915	-3.026	1.00	55.46	Al6S	ATOM	42034	C2' ADE	1092	203.671	149.035	-3.961	1.00	56.11	Al	
ATOM	41982	C4	GUA	1090	197.729	140.191	-3.995	1.00	55.46	Al6S	ATOM	42035	O2' ADE	1092	203.732	149.897	-5.076	1.00	56.11	Al	
ATOM	41983	N3	GUA	1090	197.598	140.746	-5.184	1.00	55.46	Al6S	ATOM	42036	C3' ADE	1092	204.853	148.078	-3.908	1.00	56.11	Al	
ATOM	41984	C2	GUA	1090	198.141	140.150	-6.255	1.00	55.46	Al6S	ATOM	42037	O3' ADE	1092	206.099	148.747	-4.129	1.00	56.11	Al	
ATOM	41985	N2	GUA	1090	196.928	141.920	-5.417	1.00	55.46	Al6S	ATOM	42038	P	ADE	1093	207.079	149.050	-2.884	1.00	77.27	Al
ATOM	41986	N1	GUA	1090	196.292	142.684	-4.448	1.00	55.46	Al6S	ATOM	42039	O1P	ADE	1093	208.333	149.605	-3.436	1.00	58.86	Al
ATOM	41987	C6	GUA	1090	195.689	143.727	-4.787	1.00	55.46	Al6S	ATOM	42040	O2P	ADE	1093	207.127	147.860	-1.993	1.00	58.86	Al
ATOM	41988	O6	GUA	1090	196.440	142.097	-3.138	1.00	55.46	Al6S	ATOM	42041	O5' ADE	1093	206.349	150.213	-2.085	1.00	77.27	Al	
ATOM	41989	C5	GUA	1090	195.987	142.515	-1.892	1.00	55.46	Al6S	ATOM	42042	C5' ADE	1093	206.151	151.198	-2.663	1.00	77.27	Al	
ATOM	41990	N7	GUA	1090	196.410	141.589	-1.064	1.00	55.46	Al6S	ATOM	42043	C4' ADE	1093	205.260	152.327	-1.770	1.00	77.27	Al	
ATOM	41991	C8	GUA	1090	199.272	139.470	-1.357	1.00	64.12	Al6S	ATOM	42044	O4' ADE	1093	203.949	151.699	-1.705	1.00	77.27	Al	
ATOM	41992	C2' GUA	1090	199.706	138.145	-1.596	1.00	64.12	Al6S	ATOM	42045	C1' ADE	1093	203.444	151.782	-0.382	1.00	77.27	Al		
ATOM	41993	O2' GUA	1090	199.768	139.961	-0.003	1.00	64.12	Al6S	ATOM	42046	N9	ADE	1093	203.441	150.438	0.195	1.00	58.86	Al	
ATOM	41994	C3' GUA	1090	199.768	139.961	-0.003	1.00	64.12	Al6S	ATOM	42047	C4	ADE	1093	202.679	150.026	1.259	1.00	58.86	Al	

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ATOM	42048	N3	ADE	1093	201.777	150.750	1.942	1.00	58.86	Al6s	ATOM	42101	O1P	CYT	1096	214.511	154.677	9.007	1.00	60.49	f
ATOM	42049	C2	ADE	1093	201.245	150.028	2.924	1.00	58.86	Al6s	ATOM	42102	O2P	CYT	1096	213.620	154.205	6.647	1.00	60.49	f
ATOM	42050	N1	ADE	1093	201.492	148.764	3.274	1.00	58.86	Al6s	ATOM	42103	O5	CYT	1096	215.104	152.576	7.857	1.00	61.26	f
ATOM	42051	C6	ADE	1093	202.403	148.065	2.570	1.00	58.86	Al6s	ATOM	42104	C5	CYT	1096	215.491	151.831	8.988	1.00	61.26	f
ATOM	42052	N6	ADE	1093	202.648	146.809	2.932	1.00	58.86	Al6s	ATOM	42105	C4	CYT	1096	216.332	150.673	8.557	1.00	61.26	f
ATOM	42053	C5	ADE	1093	203.039	148.715	1.498	1.00	58.86	Al6s	ATOM	42106	O4	CYT	1096	215.514	149.762	7.777	1.00	61.26	f
ATOM	42054	N7	ADE	1093	203.997	148.298	0.586	1.00	58.86	Al6s	ATOM	42107	C1	CYT	1096	216.302	149.187	6.741	1.00	61.26	f
ATOM	42055	C8	ADE	1093	204.194	149.353	-0.167	1.00	58.86	Al6s	ATOM	42108	N1	CYT	1096	215.735	149.589	5.448	1.00	60.49	f
ATOM	42056	C2	ADE	1093	204.395	152.694	0.391	1.00	77.27	Al6s	ATOM	42109	C6	CYT	1096	214.739	150.521	5.371	1.00	60.49	f
ATOM	42057	O2	ADE	1093	203.996	154.041	0.254	1.00	77.27	Al6s	ATOM	42110	C2	CYT	1096	216.232	148.992	4.297	1.00	60.49	f
ATOM	42058	C3	ADE	1093	205.706	152.399	-0.315	1.00	77.27	Al6s	ATOM	42111	O2	CYT	1096	217.139	148.167	4.407	1.00	60.49	f
ATOM	42059	O3	ADE	1093	206.678	153.414	-0.096	1.00	77.27	Al6s	ATOM	42112	N3	CYT	1096	215.718	149.327	3.095	1.00	60.49	f
ATOM	42060	P	CYT	1094	207.865	153.166	0.962	1.00	79.07	Al6s	ATOM	42113	C4	CYT	1096	214.739	150.231	3.022	1.00	60.49	f
ATOM	42061	O1P	CYT	1094	208.799	154.299	0.780	1.00	66.43	Al6s	ATOM	42114	N4	CYT	1096	214.251	150.530	1.813	1.00	60.49	f
ATOM	42062	O2P	CYT	1094	208.373	151.775	0.844	1.00	66.43	Al6s	ATOM	42115	C5	CYT	1096	214.214	150.870	4.189	1.00	60.49	f
ATOM	42063	O5	CYT	1094	207.157	153.319	2.382	1.00	79.07	Al6s	ATOM	42116	C2	CYT	1096	217.729	149.695	6.937	1.00	61.26	f
ATOM	42064	C5	CYT	1094	206.679	154.588	2.831	1.00	79.07	Al6s	ATOM	42117	O2	CYT	1096	218.411	148.787	7.779	1.00	61.26	f
ATOM	42065	C4	CYT	1094	205.990	154.445	4.166	1.00	79.07	Al6s	ATOM	42118	C3	CYT	1096	217.459	151.036	7.606	1.00	61.26	f
ATOM	42066	O4	CYT	1094	204.865	153.548	4.012	1.00	79.07	Al6s	ATOM	42119	O3	CYT	1096	218.581	151.545	8.310	1.00	61.26	f
ATOM	42067	C1	CYT	1094	204.737	152.740	5.163	1.00	79.07	Al6s	ATOM	42120	P	CYT	1097	219.477	152.701	7.643	1.00	87.93	f
ATOM	42068	N1	CYT	1094	204.923	151.348	4.757	1.00	66.43	Al6s	ATOM	42121	O1P	CYT	1097	220.362	153.205	8.725	1.00	57.09	f
ATOM	42069	C6	CYT	1094	205.444	151.041	3.534	1.00	66.43	Al6s	ATOM	42122	O2P	CYT	1097	218.623	153.654	6.889	1.00	57.09	f
ATOM	42070	C2	CYT	1094	204.555	150.340	5.639	1.00	66.43	Al6s	ATOM	42123	O5	CYT	1097	220.355	151.916	6.573	1.00	87.93	f
ATOM	42071	O2	CYT	1094	204.104	150.645	6.738	1.00	66.43	Al6s	ATOM	42124	C5	CYT	1097	221.178	150.831	6.971	1.00	87.93	f
ATOM	42072	N3	CYT	1094	204.731	149.054	5.280	1.00	66.43	Al6s	ATOM	42125	C4	CYT	1097	221.813	150.196	5.765	1.00	87.93	f
ATOM	42073	C4	CYT	1094	205.236	148.759	4.087	1.00	66.43	Al6s	ATOM	42126	O4	CYT	1097	220.825	149.457	5.001	1.00	87.93	f
ATOM	42074	N4	CYT	1094	205.377	147.470	3.775	1.00	66.43	Al6s	ATOM	42127	C1	CYT	1097	221.191	149.469	3.627	1.00	87.93	f
ATOM	42075	C5	CYT	1094	205.618	149.771	3.162	1.00	66.43	Al6s	ATOM	42128	N1	CYT	1097	220.127	150.124	2.858	1.00	57.09	f
ATOM	42076	C2	CYT	1094	205.786	153.201	6.175	1.00	79.07	Al6s	ATOM	42129	C6	CYT	1097	219.079	150.741	3.477	1.00	57.09	f
ATOM	42077	O2	CYT	1094	205.224	154.132	7.077	1.00	79.07	Al6s	ATOM	42130	C2	CYT	1097	220.205	150.096	1.472	1.00	57.09	f
ATOM	42078	C3	CYT	1094	206.835	153.825	5.267	1.00	79.07	Al6s	ATOM	42131	O2	CYT	1097	221.162	149.526	0.949	1.00	57.09	f
ATOM	42079	O3	CYT	1094	207.543	154.838	5.970	1.00	79.07	Al6s	ATOM	42132	N3	CYT	1097	219.236	150.679	0.736	1.00	57.09	f
ATOM	42080	P	CYT	1095	209.119	155.012	5.742	1.00	60.79	Al6s	ATOM	42133	C4	CYT	1097	218.205	151.259	1.343	1.00	57.09	f
ATOM	42081	O1P	CYT	1095	209.348	156.215	6.488	1.00	60.93	Al6s	ATOM	42134	N4	CYT	1097	217.248	151.789	0.580	1.00	57.09	f
ATOM	42082	O2P	CYT	1095	209.346	154.948	4.272	1.00	60.93	Al6s	ATOM	42135	C5	CYT	1097	223.582	149.362	3.660	1.00	87.93	f
ATOM	42083	O5	CYT	1095	209.753	153.740	7.873	1.00	60.79	Al6s	ATOM	42136	C2	CYT	1097	222.493	150.253	3.530	1.00	87.93	f
ATOM	42084	C5	CYT	1095	209.716	153.619	7.873	1.00	60.79	Al6s	ATOM	42137	O2	CYT	1097	223.582	149.362	3.660	1.00	87.93	f
ATOM	42085	O4	CYT	1095	210.440	152.371	8.309	1.00	60.79	Al6s	ATOM	42138	C3	CYT	1097	222.351	151.162	4.734	1.00	87.93	f
ATOM	42086	C4	CYT	1095	209.759	151.217	7.761	1.00	60.79	Al6s	ATOM	42139	O3	CYT	1097	223.583	151.717	5.111	1.00	87.93	f
ATOM	42087	C1	CYT	1095	210.704	150.215	7.426	1.00	60.79	Al6s	ATOM	42140	P	CYT	1098	223.986	153.159	4.549	1.00	71.12	f
ATOM	42088	N1	CYT	1095	210.606	149.953	5.983	1.00	60.93	Al6s	ATOM	42141	O1P	CYT	1098	225.251	153.491	5.253	1.00	52.30	f
ATOM	42089	C6	CYT	1095	209.895	150.783	5.164	1.00	60.93	Al6s	ATOM	42142	O2P	CYT	1098	222.820	154.077	4.632	1.00	52.30	f
ATOM	42090	C2	CYT	1095	211.274	148.847	5.460	1.00	60.93	Al6s	ATOM	42143	O5	CYT	1098	224.247	152.930	2.995	1.00	71.12	f
ATOM	42091	O2	CYT	1095	211.872	148.088	6.235	1.00	60.93	Al6s	ATOM	42144	C5	CYT	1098	225.343	152.152	2.550	1.00	71.12	f
ATOM	42092	N3	CYT	1095	211.248	148.629	4.128	1.00	60.93	Al6s	ATOM	42145	C4	CYT	1098	225.283	151.974	1.056	1.00	71.12	f
ATOM	42093	C4	CYT	1095	210.578	149.459	3.333	1.00	60.93	Al6s	ATOM	42146	O4	CYT	1098	224.001	151.398	0.697	1.00	71.12	f
ATOM	42094	N4	CYT	1095	210.609	149.222	2.026	1.00	60.93	Al6s	ATOM	42147	C1	CYT	1098	223.696	151.744	-0.641	1.00	71.12	f
ATOM	42095	C5	CYT	1095	209.854	150.575	3.846	1.00	60.93	Al6s	ATOM	42148	N1	CYT	1098	222.397	152.415	-0.686	1.00	52.30	f
ATOM	42096	C2	CYT	1095	212.082	150.731	7.843	1.00	60.79	Al6s	ATOM	42149	C6	CYT	1098	221.794	152.895	0.439	1.00	52.30	f
ATOM	42097	O2	CYT	1095	212.402	150.249	9.129	1.00	60.79	Al6s	ATOM	42150	C2	CYT	1098	221.804	152.583	-1.924	1.00	52.30	f
ATOM	42098	C3	CYT	1095	211.862	152.238	7.799	1.00	60.79	Al6s	ATOM	42151	O2	CYT	1098	222.360	152.089	-2.911	1.00	52.30	f
ATOM	42099	O3	CYT	1095	212.764	152.942	8.644	1.00	60.79	Al6s	ATOM	42152	N3	CYT	1098	220.642	153.272	-2.023	1.00	52.30	f
ATOM	42100	P	CYT	1096	214.013	153.716	7.998	1.00	61.26	Al6s	ATOM	42153	C4	CYT	1098	220.073	153.771	-0.927	1.00	52.30	f

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ATOM	42154	N4	CYT	1098	218.952	154.475	-1.074	1.00	52.30	Al6S	ATOM	42207	C5'	CYT	1101	226.223	167.077	-2.964	1.00	90.48	A
ATOM	42155	C5	CYT	1098	220.638	153.578	-0.366	1.00	52.30	Al6S	ATOM	42208	C4'	CYT	1101	224.952	167.776	-2.537	1.00	90.48	A
ATOM	42156	C2'	CYT	1098	224.792	152.696	-1.116	1.00	71.12	Al6S	ATOM	42209	O4'	CYT	1101	223.835	166.847	-2.584	1.00	90.48	A
ATOM	42157	O2'	CYT	1098	225.769	151.984	-1.846	1.00	71.12	Al6S	ATOM	42210	C1'	CYT	1101	222.891	167.189	-1.578	1.00	90.48	A
ATOM	42158	C3'	CYT	1098	225.313	153.232	-0.209	1.00	71.12	Al6S	ATOM	42211	N1	CYT	1101	222.765	166.055	-0.648	1.00	77.25	A
ATOM	42159	O3'	CYT	1098	226.632	153.741	-0.068	1.00	71.12	Al6S	ATOM	42212	C6	CYT	1101	223.702	165.062	-0.612	1.00	77.25	A
ATOM	42160	P	GU	1099	226.881	155.332	0.052	1.00	73.05	Al6S	ATOM	42213	C2	CYT	1101	221.665	166.012	-0.205	1.00	77.25	A
ATOM	42161	O1P	GU	1099	228.241	155.522	0.625	1.00	63.93	Al6S	ATOM	42214	O2	CYT	1101	220.836	166.929	0.149	1.00	77.25	A
ATOM	42162	O2P	GU	1099	225.712	155.997	0.682	1.00	63.93	Al6S	ATOM	42215	N3	CYT	1101	221.530	164.978	1.067	1.00	77.25	A
ATOM	42163	O5'	GU	1099	226.889	155.724	-1.494	1.00	73.05	Al6S	ATOM	42216	C4	CYT	1101	222.446	164.013	1.093	1.00	77.25	A
ATOM	42164	C5'	GU	1099	225.815	155.311	-2.316	1.00	73.05	Al6S	ATOM	42217	N4	CYT	1101	222.275	163.013	1.955	1.00	77.25	A
ATOM	42165	C4'	GU	1099	225.834	155.997	-3.658	1.00	73.05	Al6S	ATOM	42218	C5	CYT	1101	223.581	164.031	0.235	1.00	77.25	A
ATOM	42166	O4'	GU	1099	224.698	155.452	-4.368	1.00	73.05	Al6S	ATOM	42219	C2'	CYT	1101	223.414	168.449	-0.888	1.00	90.48	A
ATOM	42167	C1'	GU	1099	223.883	156.493	-4.845	1.00	73.05	Al6S	ATOM	42220	O2'	CYT	1101	222.886	169.591	-1.533	1.00	90.48	A
ATOM	42168	N9	GU	1099	222.722	156.570	-3.969	1.00	63.93	Al6S	ATOM	42221	C3'	CYT	1101	224.912	168.303	-1.113	1.00	90.48	A
ATOM	42169	C4	GU	1099	221.431	156.776	-4.360	1.00	63.93	Al6S	ATOM	42222	O3'	CYT	1101	225.587	169.547	-0.992	1.00	90.48	A
ATOM	42170	N3	GU	1099	221.003	156.887	-5.632	1.00	63.93	Al6S	ATOM	42223	P	GU	1102	226.280	169.934	0.404	1.00	104.49	A
ATOM	42171	C2	GU	1099	219.704	157.099	-5.695	1.00	63.93	Al6S	ATOM	42224	O1P	GU	1102	227.200	171.068	0.134	1.00	85.49	A
ATOM	42172	N2	GU	1099	219.101	157.207	-6.895	1.00	63.93	Al6S	ATOM	42225	O2P	GU	1102	226.814	168.696	1.031	1.00	85.49	A
ATOM	42173	N1	GU	1099	218.898	157.211	-4.588	1.00	63.93	Al6S	ATOM	42226	O5'	GU	1102	225.063	170.452	1.300	1.00	104.49	A
ATOM	42174	C6	GU	1099	219.326	157.096	-3.271	1.00	63.93	Al6S	ATOM	42227	C5'	GU	1102	224.286	171.583	0.903	1.00	104.49	A
ATOM	42175	O6	GU	1099	218.519	157.212	-2.350	1.00	63.93	Al6S	ATOM	42228	C4'	GU	1102	223.133	171.808	1.861	1.00	104.49	A
ATOM	42176	C5	GU	1099	220.705	156.851	-3.196	1.00	63.93	Al6S	ATOM	42229	O4'	GU	1102	222.232	170.470	1.817	1.00	104.49	A
ATOM	42177	N7	GU	1099	221.519	156.658	-2.093	1.00	63.93	Al6S	ATOM	42230	C1'	GU	1102	221.649	170.475	3.095	1.00	104.49	A
ATOM	42178	C8	GU	1099	222.707	156.488	-2.599	1.00	63.93	Al6S	ATOM	42231	N9	GU	1102	222.040	169.156	3.582	1.00	85.49	A
ATOM	42179	C2'	GU	1099	224.730	157.766	-4.829	1.00	73.05	Al6S	ATOM	42232	C4	GU	1102	221.483	168.481	4.642	1.00	85.49	A
ATOM	42180	O2'	GU	1099	225.410	157.920	-6.054	1.00	73.05	Al6S	ATOM	42233	N3	GU	1102	220.453	168.909	5.404	1.00	85.49	A
ATOM	42181	C3'	GU	1099	226.637	157.509	-3.633	1.00	73.05	Al6S	ATOM	42234	C2	GU	1102	220.155	168.046	6.363	1.00	85.49	A
ATOM	42182	O3'	GU	1099	226.886	158.163	-3.809	1.00	73.05	Al6S	ATOM	42235	N2	GU	1102	219.155	168.311	7.215	1.00	85.49	A
ATOM	42183	P	CYT	1100	227.235	159.479	-2.959	1.00	61.96	Al6S	ATOM	42236	N1	GU	1102	220.817	166.861	6.556	1.00	85.49	A
ATOM	42184	O1P	CYT	1100	228.617	159.874	-3.309	1.00	77.88	Al6S	ATOM	42237	C6	GU	1102	221.876	166.402	5.783	1.00	85.49	A
ATOM	42185	O2P	CYT	1100	226.889	159.199	-1.544	1.00	77.88	Al6S	ATOM	42238	O6	GU	1102	222.402	165.320	6.048	1.00	85.49	A
ATOM	42186	O5'	CYT	1100	226.267	160.599	-3.538	1.00	61.96	Al6S	ATOM	42239	C5	GU	1102	222.204	167.314	4.751	1.00	85.49	A
ATOM	42187	C5'	CYT	1100	226.577	161.248	-4.760	1.00	61.96	Al6S	ATOM	42240	N7	GU	1102	223.181	167.245	3.768	1.00	85.49	A
ATOM	42188	C4'	CYT	1100	225.707	162.468	-4.944	1.00	61.96	Al6S	ATOM	42241	C8	GU	1102	223.043	168.355	3.096	1.00	85.49	A
ATOM	42189	O4'	CYT	1100	224.317	162.067	-5.044	1.00	61.96	Al6S	ATOM	42242	C2'	GU	1102	222.161	171.596	4.004	1.00	104.49	A
ATOM	42190	C1'	CYT	1100	223.494	163.050	-4.444	1.00	61.96	Al6S	ATOM	42243	O2'	GU	1102	221.255	172.679	3.998	1.00	104.49	A
ATOM	42191	N1	CYT	1100	222.766	162.429	-3.336	1.00	77.88	Al6S	ATOM	42244	C3'	GU	1102	223.483	171.946	3.336	1.00	104.49	A
ATOM	42192	C6	CYT	1100	223.134	161.211	-2.847	1.00	77.88	Al6S	ATOM	42245	O3'	GU	1102	223.882	173.277	3.658	1.00	104.49	A
ATOM	42193	C2	CYT	1100	221.680	163.107	-2.790	1.00	77.88	Al6S	ATOM	42246	P	URI	1103	224.795	173.549	4.959	1.00	106.36	A
ATOM	42194	O2	CYT	1100	221.377	164.214	-3.252	1.00	77.88	Al6S	ATOM	42247	O1P	URI	1103	225.138	174.991	4.919	1.00	114.97	A
ATOM	42195	N3	CYT	1100	220.988	162.545	-1.779	1.00	77.88	Al6S	ATOM	42248	O2P	URI	1103	225.882	172.546	5.033	1.00	114.97	A
ATOM	42196	C4	CYT	1100	221.348	161.353	-0.313	1.00	77.88	Al6S	ATOM	42249	O5'	URI	1103	223.816	173.291	6.189	1.00	106.36	A
ATOM	42197	N4	CYT	1100	220.631	160.830	-0.319	1.00	77.88	Al6S	ATOM	42250	C5'	URI	1103	222.783	174.220	6.503	1.00	106.36	A
ATOM	42198	C5	CYT	1100	222.458	160.641	-1.847	1.00	77.88	Al6S	ATOM	42251	C4'	URI	1103	222.035	173.779	7.739	1.00	106.36	A
ATOM	42199	C2'	CYT	1100	224.396	164.194	-3.997	1.00	61.96	Al6S	ATOM	42252	O4'	URI	1103	221.383	172.511	7.471	1.00	106.36	A
ATOM	42200	O2'	CYT	1100	224.403	165.166	-5.023	1.00	61.96	Al6S	ATOM	42253	C1'	URI	1103	221.353	171.732	8.656	1.00	106.36	A
ATOM	42201	C3'	CYT	1100	225.720	163.461	-3.797	1.00	61.96	Al6S	ATOM	42254	N1	URI	1103	222.098	170.419	8.407	1.00	114.97	A
ATOM	42202	O3'	CYT	1100	226.859	164.316	-3.875	1.00	61.96	Al6S	ATOM	42255	C6	URI	1103	223.055	170.419	7.424	1.00	114.97	A
ATOM	42203	P	CYT	1101	227.537	164.857	-2.523	1.00	90.48	Al6S	ATOM	42256	C2	URI	1103	221.808	169.391	9.199	1.00	114.97	A
ATOM	42204	O1P	CYT	1101	228.832	165.454	-2.916	1.00	77.25	Al6S	ATOM	42257	O2	URI	1103	220.965	169.409	10.077	1.00	114.97	A
ATOM	42205	O2P	CYT	1101	227.513	163.775	-1.506	1.00	77.25	Al6S	ATOM	42258	N3	URI	1103	222.543	168.270	8.922	1.00	114.97	A
ATOM	42206	O5'	CYT	1101	226.545	166.017	-2.068	1.00	90.48	Al6S	ATOM	42259	C4	URI	1103	223.515	168.135	7.957	1.00	114.97	A

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ATOM	42260	O4	URI	1103	224.108	167.062	7.847	1.00114.97	Al6S	ATOM	42313	C4' GUA	1106	233.901	169.366	17.901	1.00110.66
ATOM	42261	C5	URI	1103	223.754	169.310	7.178	1.00114.97	Al6S	ATOM	42314	O4' GUA	1106	233.025	168.516	17.119	1.00110.66
ATOM	42262	C2' URI	1103	221.966	172.581	9.772	1.00106.36	Al6S	ATOM	42315	C1' GUA	1106	233.786	167.697	16.258	1.00110.66	
ATOM	42263	O2' URI	1103	220.946	173.283	10.455	1.00106.36	Al6S	ATOM	42316	N9 GUA	1106	233.535	168.138	14.887	1.00113.66	
ATOM	42264	C3' URI	1103	222.875	173.511	8.979	1.00106.36	Al6S	ATOM	42317	C4 GUA	1106	233.335	167.321	13.801	1.00113.66	
ATOM	42265	O3' URI	1103	223.132	174.711	9.704	1.00106.36	Al6S	ATOM	42318	N3 GUA	1106	233.370	165.970	13.810	1.00113.66	
ATOM	42266	P	URI	1104	224.326	174.755	10.785	1.00103.29	Al6S	ATOM	42319	C2 GUA	1106	233.131	165.461	12.616	1.00113.66
ATOM	42267	O1P URI	1104	224.206	176.046	11.503	1.00109.15	Al6S	ATOM	42320	N2 GUA	1106	233.136	164.129	12.451	1.00113.66	
ATOM	42268	O2P URI	1104	225.605	174.403	10.116	1.00109.15	Al6S	ATOM	42321	N1 GUA	1106	232.872	166.219	11.497	1.00113.66	
ATOM	42269	O5' URI	1104	223.966	173.598	11.818	1.00103.29	Al6S	ATOM	42322	C6 GUA	1106	232.828	167.610	11.464	1.00113.66	
ATOM	42270	C5' URI	1104	222.964	173.794	12.805	1.00103.29	Al6S	ATOM	42323	O6 GUA	1106	232.579	168.192	10.402	1.00113.66	
ATOM	42271	C4' URI	1104	222.926	172.616	13.742	1.00103.29	Al6S	ATOM	42324	C5 GUA	1106	233.090	168.171	12.742	1.00113.66	
ATOM	42272	O4' URI	1104	222.492	171.434	13.019	1.00103.29	Al6S	ATOM	42325	N7 GUA	1106	233.149	169.498	13.152	1.00113.66	
ATOM	42273	C1' URI	1104	223.139	170.285	13.552	1.00103.29	Al6S	ATOM	42326	C8 GUA	1106	233.421	169.430	14.428	1.00113.66	
ATOM	42274	N1 URI	1104	223.935	169.663	12.483	1.00109.15	Al6S	ATOM	42327	C2' GUA	1106	235.238	167.760	16.738	1.00110.66	
ATOM	42275	C6 URI	1104	224.291	170.370	11.358	1.00109.15	Al6S	ATOM	42328	O2' GUA	1106	235.443	166.702	17.320	1.00110.66	
ATOM	42276	C2 URI	1104	224.330	168.345	12.650	1.00109.15	Al6S	ATOM	42329	C3' GUA	1106	235.298	169.172	17.320	1.00110.66	
ATOM	42277	O2 URI	1104	224.020	167.677	13.620	1.00109.15	Al6S	ATOM	42330	O3' GUA	1106	236.360	169.462	18.244	1.00110.66	
ATOM	42278	N3 URI	1104	225.101	167.840	11.634	1.00109.15	Al6S	ATOM	42331	P	URI	1107	236.661	168.487	19.498	1.00141.66
ATOM	42279	C4 URI	1104	225.504	168.497	10.491	1.00109.15	Al6S	ATOM	42332	O1P URI	1107	235.393	168.256	20.212	1.00141.66	
ATOM	42280	O4 URI	1104	226.222	167.913	9.678	1.00109.15	Al6S	ATOM	42333	O2P URI	1107	237.804	169.064	20.223	1.00141.66	
ATOM	42281	C5 URI	1104	225.041	169.847	10.384	1.00109.15	Al6S	ATOM	42334	O5' URI	1107	237.147	167.090	18.903	1.00141.66	
ATOM	42282	C2' URI	1104	224.013	170.762	14.716	1.00103.29	Al6S	ATOM	42335	C5' URI	1107	238.393	166.981	18.229	1.00141.66	
ATOM	42283	O2' URI	1104	223.317	170.653	15.943	1.00103.29	Al6S	ATOM	42336	C4' URI	1107	239.255	165.907	18.861	1.00141.66	
ATOM	42284	C3' URI	1104	224.269	172.208	14.318	1.00103.29	Al6S	ATOM	42337	O4' URI	1107	239.432	166.180	20.270	1.00141.66	
ATOM	42285	O3' URI	1104	224.626	173.001	15.439	1.00103.29	Al6S	ATOM	42338	C1' URI	1107	239.862	164.997	20.903	1.00141.66	
ATOM	42286	P	ADE	1105	226.172	173.340	15.703	1.00121.00	Al6S	ATOM	42339	N1 URI	1107	239.186	164.853	22.191	1.00141.66
ATOM	42287	O1P ADE	1105	226.242	174.119	16.966	1.00121.00	Al6S	ATOM	42340	C6 URI	1107	238.112	165.631	22.547	1.00141.66	
ATOM	42288	O2P ADE	1105	226.726	173.916	14.452	1.00121.00	Al6S	ATOM	42341	C2 URI	1107	239.680	163.886	23.033	1.00141.66	
ATOM	42289	O5' ADE	1105	226.844	171.917	15.954	1.00121.00	Al6S	ATOM	42342	O2 URI	1107	240.644	163.199	22.741	1.00141.66	
ATOM	42290	C5' ADE	1105	226.574	171.187	17.148	1.00121.00	Al6S	ATOM	42343	N3 URI	1107	239.007	163.751	24.226	1.00141.66	
ATOM	42291	C4' ADE	1105	227.399	169.921	17.192	1.00121.00	Al6S	ATOM	42344	C4 URI	1107	237.910	164.484	24.649	1.00141.66	
ATOM	42292	O4' ADE	1105	226.981	169.031	16.132	1.00121.00	Al6S	ATOM	42345	O4 URI	1107	237.339	164.171	25.697	1.00141.66	
ATOM	42293	C1' ADE	1105	228.066	168.197	15.771	1.00121.00	Al6S	ATOM	42346	C5 URI	1107	237.475	165.489	23.721	1.00141.66	
ATOM	42294	N9 ADE	1105	228.213	168.208	14.318	1.00121.00	Al6S	ATOM	42347	C2' URI	1107	239.603	163.820	19.960	1.00141.66	
ATOM	42295	C4 ADE	1105	228.379	167.098	13.525	1.00121.00	Al6S	ATOM	42348	O2' URI	1107	240.849	163.286	19.562	1.00141.66	
ATOM	42296	N3 ADE	1105	228.405	165.811	13.917	1.00121.00	Al6S	ATOM	42349	C3' URI	1107	238.772	164.463	18.841	1.00141.66	
ATOM	42297	C2 ADE	1105	228.600	165.008	12.877	1.00121.00	Al6S	ATOM	42350	O3' URI	1107	239.076	163.896	17.559	1.00141.66	
ATOM	42298	N1 ADE	1105	228.764	165.320	11.586	1.00121.00	Al6S	ATOM	42351	P	URI	1108	238.938	162.306	17.304	1.00149.21
ATOM	42299	C6 ADE	1105	228.734	166.622	11.225	1.00121.00	Al6S	ATOM	42352	O1P URI	1108	237.543	162.094	16.839	1.00200.66	
ATOM	42300	N6 ADE	1105	228.909	166.934	9.938	1.00121.00	Al6S	ATOM	42353	O2P URI	1108	239.433	161.555	18.484	1.00200.66	
ATOM	42301	C5 ADE	1105	228.524	167.575	12.236	1.00121.00	Al6S	ATOM	42354	O5' URI	1108	239.930	162.039	16.074	1.00149.21	
ATOM	42302	N7 ADE	1105	228.429	168.960	12.212	1.00121.00	Al6S	ATOM	42355	C5' URI	1108	240.441	160.732	15.780	1.00149.21	
ATOM	42303	C8 ADE	1105	228.241	169.284	13.468	1.00121.00	Al6S	ATOM	42356	C4' URI	1108	239.998	160.291	14.395	1.00149.21	
ATOM	42304	C2' ADE	1105	229.313	168.693	16.508	1.00121.00	Al6S	ATOM	42357	O4' URI	1108	238.557	160.423	14.337	1.00149.21	
ATOM	42305	O2' ADE	1105	229.603	167.833	17.586	1.00121.00	Al6S	ATOM	42358	C1' URI	1108	238.168	160.952	13.087	1.00149.21	
ATOM	42306	C3' ADE	1105	229.890	170.088	16.958	1.00121.00	Al6S	ATOM	42359	N1 URI	1108	237.618	162.292	13.326	1.00200.66	
ATOM	42307	O3' ADE	1105	229.545	170.435	18.170	1.00121.00	Al6S	ATOM	42360	C6 URI	1108	238.198	163.145	14.234	1.00200.66	
ATOM	42308	P	GUA	1106	230.779	171.462	18.143	1.00110.68	Al6S	ATOM	42361	C2 URI	1108	236.495	162.663	12.618	1.00200.66
ATOM	42309	O1P GUA	1106	231.178	171.699	19.550	1.00113.65	Al6S	ATOM	42362	O2 URI	1108	235.961	161.936	11.795	1.00200.66	
ATOM	42310	O2P GUA	1106	230.389	172.603	17.280	1.00113.65	Al6S	ATOM	42363	N3 URI	1108	236.019	163.917	12.912	1.00200.66	
ATOM	42311	O5' GUA	1106	231.949	170.664	17.417	1.00110.68	Al6S	ATOM	42364	C4 URI	1108	236.546	164.814	13.822	1.00200.66	
ATOM	42312	C5' GUA	1106	233.310	170.752	17.852	1.00110.68	Al6S	ATOM	42365	O4 URI	1108	235.995	165.899	13.992	1.00200.66	

ATOM	42366	C5	URI	1108	237.713	164.357	14.501	1.00200.66	Al6s	ATOM	42419	C4	CYT	1111	246.580	172.077	5.008	1.00198.77	Al6s
ATOM	42367	C2	URI	1108	239.398	160.932	12.181	1.00149.21	Al6s	ATOM	42420	O4	CYT	1111	246.182	172.747	6.232	1.00198.77	Al6s
ATOM	42368	O2	URI	1108	239.452	159.705	11.488	1.00149.21	Al6s	ATOM	42421	C1	CYT	1111	247.273	173.475	6.760	1.00198.77	Al6s
ATOM	42369	C3	URI	1108	240.529	161.068	13.191	1.00149.21	Al6s	ATOM	42422	N1	CYT	1111	247.573	172.908	8.091	1.00181.76	Al6s
ATOM	42370	O3	URI	1108	241.704	160.422	12.700	1.00149.21	Al6s	ATOM	42423	C6	CYT	1111	246.662	172.122	8.713	1.00181.76	Al6s
ATOM	42371	P	GUA	1109	242.427	160.932	11.345	1.0069.58	Al6s	ATOM	42424	O2	CYT	1111	248.796	173.191	8.726	1.00181.76	Al6s
ATOM	42372	O1P	GUA	1109	242.672	159.732	10.508	1.00200.66	Al6s	ATOM	42425	O2	CYT	1111	249.634	173.904	8.146	1.00181.76	Al6s
ATOM	42373	O2P	GUA	1109	243.568	161.798	11.730	1.00200.66	Al6s	ATOM	42426	N3	CYT	1111	249.028	172.678	9.962	1.00181.76	Al6s
ATOM	42374	O5	GUA	1109	241.370	161.841	10.575	1.0069.58	Al6s	ATOM	42427	C4	CYT	1111	248.101	171.921	10.558	1.00181.76	Al6s
ATOM	42375	C5	GUA	1109	241.215	161.717	9.165	1.0069.58	Al6s	ATOM	42428	N4	CYT	1111	248.368	171.441	11.777	1.00181.76	Al6s
ATOM	42376	C4	GUA	1109	240.702	163.004	8.568	1.0069.58	Al6s	ATOM	42429	C5	CYT	1111	246.859	171.622	9.933	1.00181.76	Al6s
ATOM	42377	O4	GUA	1109	239.641	163.505	9.417	1.0069.58	Al6s	ATOM	42430	C2	CYT	1111	248.377	173.517	5.694	1.00198.77	Al6s
ATOM	42378	C1	GUA	1109	239.666	164.920	9.434	1.0069.58	Al6s	ATOM	42431	O2	CYT	1111	248.287	174.727	4.966	1.00198.77	Al6s
ATOM	42379	N9	GUA	1109	239.927	165.343	10.802	1.00200.66	Al6s	ATOM	42432	C3	CYT	1111	248.084	172.250	4.890	1.00198.77	Al6s
ATOM	42380	C4	GUA	1109	239.277	166.340	11.473	1.00200.66	Al6s	ATOM	42433	O3	CYT	1111	248.491	172.207	3.508	1.00198.77	Al6s
ATOM	42381	N3	GUA	1109	238.290	167.109	10.976	1.00200.66	Al6s	ATOM	42434	P	ADE	1112	247.929	173.294	2.447	1.00133.25	Al6s
ATOM	42382	C2	GUA	1109	237.849	167.977	11.864	1.00200.66	Al6s	ATOM	42435	O1P	ADE	1112	249.081	173.808	1.662	1.0091.13	Al6s
ATOM	42383	N2	GUA	1109	236.865	168.827	11.534	1.00200.66	Al6s	ATOM	42436	O2P	ADE	1112	247.038	174.250	3.126	1.0091.13	Al6s
ATOM	42384	N1	GUA	1109	238.338	168.078	13.143	1.00200.66	Al6s	ATOM	42437	O5	ADE	1112	247.033	172.445	1.437	1.00133.25	Al6s
ATOM	42385	C6	GUA	1109	239.355	167.294	13.676	1.00200.66	Al6s	ATOM	42438	C5	ADE	1112	245.836	171.813	1.883	1.00133.25	Al6s
ATOM	42386	O6	GUA	1109	239.716	167.463	14.845	1.00200.66	Al6s	ATOM	42439	C4	ADE	1112	244.631	172.573	1.392	1.00133.25	Al6s
ATOM	42387	C5	GUA	1109	239.840	166.362	12.730	1.00200.66	Al6s	ATOM	42440	O4	ADE	1112	243.460	172.068	2.079	1.00133.25	Al6s
ATOM	42388	N7	GUA	1109	240.836	165.404	12.841	1.00200.66	Al6s	ATOM	42441	C1	ADE	1112	242.656	173.146	2.511	1.00133.25	Al6s
ATOM	42389	C8	GUA	1109	240.854	164.825	11.673	1.00200.66	Al6s	ATOM	42442	N9	ADE	1112	242.706	173.161	3.966	1.0091.13	Al6s
ATOM	42390	C2	GUA	1109	240.750	165.367	8.458	1.0069.58	Al6s	ATOM	42443	C4	ADE	1112	241.927	173.889	4.828	1.0091.13	Al6s
ATOM	42391	O2	GUA	1109	240.167	165.623	7.194	1.0069.58	Al6s	ATOM	42444	N3	ADE	1112	240.974	174.778	4.511	1.0091.13	Al6s
ATOM	42392	C3	GUA	1109	241.684	164.161	8.482	1.0069.58	Al6s	ATOM	42445	C8	ADE	1112	240.413	175.269	5.612	1.0091.13	Al6s
ATOM	42393	O3	GUA	1109	242.448	164.087	7.282	1.0069.58	Al6s	ATOM	42446	N1	ADE	1112	240.670	174.985	6.897	1.0091.13	Al6s
ATOM	42394	P	CYT	1110	244.034	163.839	7.357	1.00106.94	Al6s	ATOM	42447	C6	ADE	1112	241.627	174.078	7.178	1.0091.13	Al6s
ATOM	42395	O1P	CYT	1110	244.305	162.505	6.764	1.00141.13	Al6s	ATOM	42448	N6	ADE	1112	241.861	173.768	8.456	1.0091.13	Al6s
ATOM	42396	O2P	CYT	1110	244.498	164.134	8.733	1.00141.13	Al6s	ATOM	42449	C5	ADE	1112	242.312	173.502	6.100	1.0091.13	Al6s
ATOM	42397	O5	CYT	1110	244.617	164.936	6.367	1.00106.94	Al6s	ATOM	42450	N7	ADE	1112	243.337	172.573	6.038	1.0091.13	Al6s
ATOM	42398	C5	CYT	1110	243.796	165.479	5.344	1.00106.94	Al6s	ATOM	42451	C8	ADE	1112	243.533	172.411	4.754	1.0091.13	Al6s
ATOM	42399	C4	CYT	1110	243.394	166.885	5.702	1.00106.94	Al6s	ATOM	42452	C2	ADE	1112	243.199	174.414	1.856	1.00133.25	Al6s
ATOM	42400	O4	CYT	1110	242.943	166.885	7.075	1.00106.94	Al6s	ATOM	42453	O2	ADE	1112	242.548	174.617	0.621	1.00133.25	Al6s
ATOM	42401	C1	CYT	1110	243.150	168.164	7.632	1.00106.94	Al6s	ATOM	42454	C3	ADE	1112	244.671	174.063	1.635	1.00133.25	Al6s
ATOM	42402	N1	CYT	1110	243.623	168.023	9.020	1.00141.13	Al6s	ATOM	42455	O3	ADE	1112	245.242	174.733	0.577	1.00133.25	Al6s
ATOM	42403	C6	CYT	1110	244.022	166.812	9.509	1.00141.13	Al6s	ATOM	42456	P	GUA	1113	246.113	176.069	0.788	1.00200.66	Al6s
ATOM	42404	C2	CYT	1110	243.627	169.152	9.843	1.00141.13	Al6s	ATOM	42457	O1P	GUA	1113	245.974	176.869	-0.459	1.00149.01	Al6s
ATOM	42405	O2	CYT	1110	243.289	170.246	9.362	1.00141.13	Al6s	ATOM	42458	O2P	GUA	1113	247.466	175.691	1.259	1.00149.01	Al6s
ATOM	42406	N3	CYT	1110	244.003	169.025	11.138	1.00141.13	Al6s	ATOM	42459	O5	GUA	1113	245.366	176.864	1.950	1.00200.66	Al6s
ATOM	42407	C4	CYT	1110	244.371	167.833	11.612	1.00141.13	Al6s	ATOM	42460	C5	GUA	1113	245.136	178.265	1.828	1.00200.66	Al6s
ATOM	42408	N4	CYT	1110	244.722	167.752	12.897	1.00141.13	Al6s	ATOM	42461	C4	GUA	1113	245.544	178.982	3.093	1.00200.66	Al6s
ATOM	42409	C5	CYT	1110	244.397	166.672	10.789	1.00106.94	Al6s	ATOM	42462	O1	GUA	1113	244.598	178.695	4.155	1.00200.66	Al6s
ATOM	42410	C2	CYT	1110	244.010	168.981	6.666	1.00106.94	Al6s	ATOM	42463	C1	GUA	1113	245.269	178.717	5.406	1.00200.66	Al6s
ATOM	42411	O2	CYT	1110	243.168	169.928	6.050	1.00106.94	Al6s	ATOM	42464	N9	GUA	1113	245.131	177.403	6.021	1.00149.01	Al6s
ATOM	42412	C3	CYT	1110	244.505	167.921	5.677	1.00106.94	Al6s	ATOM	42465	C4	GUA	1113	244.720	177.132	7.306	1.00149.01	Al6s
ATOM	42413	O3	CYT	1110	244.557	168.472	4.358	1.00106.94	Al6s	ATOM	42466	N3	GUA	1113	244.342	178.040	8.230	1.00149.01	Al6s
ATOM	42414	P	CYT	1111	245.944	168.517	3.566	1.00198.77	Al6s	ATOM	42467	C2	GUA	1113	244.006	177.469	9.376	1.00149.01	Al6s
ATOM	42415	O1P	CYT	1111	245.614	168.481	2.112	1.00181.76	Al6s	ATOM	42468	N2	GUA	1113	243.586	178.219	10.405	1.00149.01	Al6s
ATOM	42416	O2P	CYT	1111	246.873	167.510	4.127	1.00181.76	Al6s	ATOM	42469	N1	GUA	1113	244.051	176.118	9.539	1.00149.01	Al6s
ATOM	42417	O5	CYT	1111	246.510	169.965	3.874	1.00198.77	Al6s	ATOM	42470	C6	GUA	1113	244.439	175.166	8.664	1.00149.01	Al6s
ATOM	42418	C5	CYT	1111	246.136	170.640	5.064	1.00198.77	Al6s	ATOM	42471	O6	GUA	1113	244.444	173.966	8.972	1.00149.01	Al6s

ATOM	42472	C5	GUA	1113	244.790	175.763	7.427	1.00149.01	Al6S	ATOM	42525	O5' GUA	1116	257.902	178.244	12.096	1.00120.19	A	
ATOM	42473	N7	GUA	1113	245.217	175.185	6.242	1.00149.01	Al6S	ATOM	42526	C5' GUA	1116	258.403	178.651	13.366	1.00120.19	A	
ATOM	42474	C8	GUA	1113	245.406	176.194	5.438	1.00149.01	Al6S	ATOM	42527	C4' GUA	1116	258.236	177.549	14.387	1.00120.19	A	
ATOM	42475	C2' GUA	1113	246.735	179.059	5.126	1.00200.66	Al6S	ATOM	42528	O4' GUA	1116	256.823	177.263	14.569	1.00120.19	A		
ATOM	42476	O2' GUA	1113	246.943	180.450	5.265	1.00200.66	Al6S	ATOM	42529	C1' GUA	1116	256.649	175.880	14.839	1.00120.19	A		
ATOM	42477	C3' GUA	1113	246.884	178.585	3.688	1.00200.66	Al6S	ATOM	42530	N9 GUA	1116	255.897	175.292	13.733	1.00189.55	A		
ATOM	42478	O3' GUA	1113	247.969	179.229	3.036	1.00200.66	Al6S	ATOM	42531	C4 GUA	1116	255.382	174.016	13.678	1.00189.55	A		
ATOM	42479	P	CYT	1114	249.472	178.760	3.352	1.00152.47	Al6S	ATOM	42532	N3 GUA	1116	255.460	173.084	14.653	1.00189.55	A	
ATOM	42480	O1P	CYT	1114	250.347	179.432	2.361	1.00138.08	Al6S	ATOM	42533	C2 GUA	1116	254.879	171.950	14.299	1.00189.55	A	
ATOM	42481	O2P	CYT	1114	249.497	177.281	3.461	1.00138.08	Al6S	ATOM	42534	N2 GUA	1116	254.862	170.914	15.152	1.00189.55	A	
ATOM	42482	O5' CYT	1114	249.759	179.363	4.800	1.00152.47	Al6S	ATOM	42535	N1 GUA	1116	254.270	171.746	13.085	1.00189.55	A		
ATOM	42483	C5' CYT	1114	249.784	180.772	5.010	1.00152.47	Al6S	ATOM	42536	C6 GUA	1116	254.180	172.690	12.066	1.00189.55	A		
ATOM	42484	C4' CYT	1114	249.940	181.094	6.482	1.00152.47	Al6S	ATOM	42537	O6 GUA	1116	253.613	172.400	11.004	1.00189.55	A		
ATOM	42485	O4' CYT	1114	248.787	180.615	7.219	1.00152.47	Al6S	ATOM	42538	C5 GUA	1116	254.797	173.913	12.433	1.00189.55	A		
ATOM	42486	C1' CYT	1114	249.165	180.362	8.563	1.00152.47	Al6S	ATOM	42539	N7 GUA	1116	254.926	175.101	11.728	1.00189.55	A		
ATOM	42487	N1	CYT	1114	248.725	179.010	8.942	1.00138.08	Al6S	ATOM	42540	C8 GUA	1116	255.582	175.889	12.537	1.00189.55	A	
ATOM	42488	C6	CYT	1114	248.315	178.111	8.000	1.00138.08	Al6S	ATOM	42541	C2' GUA	1116	258.048	175.271	14.949	1.00120.19	A	
ATOM	42489	C2	CYT	1114	248.729	178.660	10.299	1.00138.08	Al6S	ATOM	42542	O2' GUA	1116	258.491	175.311	16.292	1.00120.19	A	
ATOM	42490	O2	CYT	1114	249.114	179.490	11.134	1.00138.08	Al6S	ATOM	42543	C3' GUA	1116	258.839	176.199	14.039	1.00120.19	A	
ATOM	42491	N3	CYT	1114	248.315	177.430	10.665	1.00138.08	Al6S	ATOM	42544	O3' GUA	1116	260.227	176.148	14.335	1.00120.19	A	
ATOM	42492	C4	CYT	1114	247.909	176.563	9.740	1.00138.08	Al6S	ATOM	42545	P	URI	1117	261.208	175.309	13.382	1.00182.17	A
ATOM	42493	N4	CYT	1114	247.497	175.366	10.153	1.00138.08	Al6S	ATOM	42546	O1P	URI	1117	260.843	175.658	11.986	1.00173.63	A
ATOM	42494	C5	CYT	1114	247.903	176.887	8.350	1.00138.08	Al6S	ATOM	42547	O2P	URI	1117	262.602	175.506	13.846	1.00173.63	A
ATOM	42495	C2' CYT	1114	250.679	180.565	8.669	1.00152.47	Al6S	ATOM	42548	O5' URI	1117	260.807	173.789	13.644	1.00182.17	A		
ATOM	42496	O2' CYT	1114	250.947	181.834	9.231	1.00152.47	Al6S	ATOM	42549	C5' URI	1117	260.973	173.198	14.931	1.00182.17	A		
ATOM	42497	C3' CYT	1114	251.113	180.458	7.210	1.00152.47	Al6S	ATOM	42550	C4' URI	1117	260.440	171.786	14.926	1.00182.17	A		
ATOM	42498	O3' CYT	1114	252.319	181.184	6.988	1.00152.47	Al6S	ATOM	42551	O1' URI	1117	259.033	171.820	14.571	1.00182.17	A		
ATOM	42499	P	GUA	1115	253.737	180.491	7.303	1.00150.59	Al6S	ATOM	42552	C1' URI	1117	258.713	170.698	13.765	1.00182.17	A	
ATOM	42500	O1P	GUA	1115	254.799	181.434	6.874	1.00161.13	Al6S	ATOM	42553	N1	URI	1117	258.245	171.188	12.460	1.00173.63	A
ATOM	42501	O2P	GUA	1115	253.716	179.113	6.752	1.00161.13	Al6S	ATOM	42554	C6	URI	1117	258.643	172.410	11.973	1.00173.63	A
ATOM	42502	O5' GUA	1115	253.782	180.392	8.894	1.00150.59	Al6S	ATOM	42555	C2	URI	1117	257.385	170.381	11.738	1.00173.63	A	
ATOM	42503	C5' GUA	1115	254.163	181.514	9.688	1.00150.59	Al6S	ATOM	42556	O2	URI	1117	257.018	169.286	12.130	1.00173.63	A	
ATOM	42504	C4' GUA	1115	254.372	181.097	11.126	1.00150.59	Al6S	ATOM	42557	N3	URI	1117	256.970	170.905	10.538	1.00173.63	A	
ATOM	42505	O4' GUA	1115	253.107	180.659	11.695	1.00150.59	Al6S	ATOM	42558	C4	URI	1117	257.321	172.124	9.998	1.00173.63	A	
ATOM	42506	C1' GUA	1115	253.330	179.562	12.569	1.00150.59	Al6S	ATOM	42559	O4	URI	1117	256.830	172.475	8.924	1.00173.63	A	
ATOM	42507	N9	GUA	1115	252.716	178.380	11.972	1.00161.13	Al6S	ATOM	42560	C5	URI	1117	258.223	172.892	10.799	1.00173.63	A
ATOM	42508	C4	GUA	1115	252.519	177.162	12.578	1.00161.13	Al6S	ATOM	42561	C2' URI	1117	259.966	169.824	13.681	1.00182.17	A	
ATOM	42509	N3	GUA	1115	252.829	176.850	13.855	1.00161.13	Al6S	ATOM	42562	O2' URI	1117	259.935	168.838	14.694	1.00182.17	A	
ATOM	42510	C2	GUA	1115	252.537	175.592	14.141	1.00161.13	Al6S	ATOM	42563	C3' URI	1117	261.067	170.851	13.903	1.00182.17	A	
ATOM	42511	N2	GUA	1115	252.768	175.113	15.372	1.00161.13	Al6S	ATOM	42564	O3' URI	1117	262.237	170.238	14.432	1.00182.17	A	
ATOM	42512	N1	GUA	1115	251.996	174.711	13.241	1.00161.13	Al6S	ATOM	42565	P	URI	1118	263.123	169.275	13.499	1.00163.66	A
ATOM	42513	C6	GUA	1115	251.673	175.011	11.921	1.00161.13	Al6S	ATOM	42566	O1P	URI	1118	262.510	169.276	12.146	1.00171.47	A
ATOM	42514	O6	GUA	1115	251.196	174.137	11.190	1.00161.13	Al6S	ATOM	42567	O2P	URI	1118	264.545	169.664	13.659	1.00171.47	A
ATOM	42515	C5	GUA	1115	251.967	176.356	11.606	1.00161.13	Al6S	ATOM	42568	O5' URI	1118	262.925	167.827	14.136	1.00163.66	A	
ATOM	42516	N7	GUA	1115	251.795	177.059	10.422	1.00161.13	Al6S	ATOM	42569	C5' URI	1118	263.883	166.792	13.921	1.00163.66	A	
ATOM	42517	C8	GUA	1115	252.247	178.253	10.687	1.00161.13	Al6S	ATOM	42570	C4' URI	1118	263.583	165.614	14.818	1.00163.66	A	
ATOM	42518	C2' GUA	1115	254.846	179.399	12.695	1.00150.59	Al6S	ATOM	42571	O4' URI	1118	263.702	166.044	16.194	1.00163.66	A		
ATOM	42519	O2' GUA	1115	255.329	180.174	13.774	1.00150.59	Al6S	ATOM	42572	C1' URI	1118	262.703	165.425	16.978	1.00163.66	A		
ATOM	42520	C3' GUA	1115	255.308	179.919	11.342	1.00150.59	Al6S	ATOM	42573	N1	URI	1118	261.915	166.483	17.623	1.00171.47	A	
ATOM	42521	O3' GUA	1115	256.673	180.321	11.357	1.00150.59	Al6S	ATOM	42574	C6	URI	1118	261.876	167.758	17.105	1.00171.47	A	
ATOM	42522	P	GUA	1116	257.812	179.285	10.890	1.00120.19	Al6S	ATOM	42575	C2	URI	1118	261.224	166.159	18.774	1.00171.47	A
ATOM	42523	O1P	GUA	1116	259.097	180.025	10.820	1.00189.55	Al6S	ATOM	42576	O2	URI	1118	261.229	165.037	19.256	1.00171.47	A
ATOM	42524	O2P	GUA	1116	257.316	178.569	9.689	1.00189.55	Al6S	ATOM	42577	N3	URI	1118	260.528	167.199	19.341	1.00171.47	A

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ATOM	42578	C4	URI	1118	260.455	168.499	18.881	1.00171.47	A16S	ATOM	42631	O5' GUA	1121	251.448	161.915	9.101	1.00140.52	A1	
ATOM	42579	O4	URI	1118	259.806	169.330	19.517	1.00171.47	A16S	ATOM	42632	C5' GUA	1121	250.486	161.723	10.137	1.00140.52	A1	
ATOM	42580	C5	URI	1118	261.190	168.750	17.679	1.00171.47	A16S	ATOM	42633	C4' GUA	1121	250.537	162.875	11.107	1.00140.52	A1	
ATOM	42581	C2' URI	1118	261.900	164.484	16.076	1.00163.66	A16S	ATOM	42634	O4' GUA	1121	250.649	164.112	10.371	1.00140.52	A1		
ATOM	42582	O2' URI	1118	262.370	163.160	16.231	1.00163.66	A16S	ATOM	42635	C1' GUA	1121	250.094	165.155	11.141	1.00140.52	A1		
ATOM	42583	C3' URI	1118	262.173	165.059	14.688	1.00163.66	A16S	ATOM	42636	N9 GUA	1121	249.165	165.901	10.310	1.00157.13	A1		
ATOM	42584	O3' URI	1118	262.151	164.007	13.730	1.00163.66	A16S	ATOM	42637	C4 GUA	1121	248.437	166.986	10.705	1.00157.13	A1		
ATOM	42585	P	CYT	1119	262.262	164.341	12.162	1.00200.65	A16S	ATOM	42638	N3 GUA	1121	248.443	167.531	11.938	1.00157.13	A1	
ATOM	42586	O1P	CYT	1119	263.591	164.954	11.917	1.00156.76	A16S	ATOM	42639	C2 GUA	1121	247.652	168.580	12.013	1.00157.13	A1	
ATOM	42587	O2P	CYT	1119	261.876	163.114	11.420	1.00156.76	A16S	ATOM	42640	N2 GUA	1121	247.543	169.249	13.166	1.00157.13	A1	
ATOM	42588	O5' CYT	1119	261.149	165.450	11.909	1.00200.65	A16S	ATOM	42641	N1 GUA	1121	246.910	169.053	10.960	1.00157.13	A1		
ATOM	42589	C5' CYT	1119	259.798	165.231	12.296	1.00200.65	A16S	ATOM	42642	C6 GUA	1121	246.890	168.503	9.681	1.00157.13	A1		
ATOM	42590	C4' CYT	1119	258.861	165.744	11.230	1.00200.65	A16S	ATOM	42643	O6 GUA	1121	246.184	169.010	8.798	1.00157.13	A1		
ATOM	42591	O4' CYT	1119	259.134	167.147	10.997	1.00200.65	A16S	ATOM	42644	C5 GUA	1121	247.734	167.380	9.590	1.00157.13	A1		
ATOM	42592	C1' CYT	1119	258.936	167.448	9.629	1.00200.65	A16S	ATOM	42645	N7 GUA	1121	248.008	166.546	8.514	1.00157.13	A1		
ATOM	42593	N1	CYT	1119	260.206	167.937	9.082	1.00156.76	A16S	ATOM	42646	C8 GUA	1121	248.859	165.680	8.991	1.00157.13	A1	
ATOM	42594	C6	CYT	1119	261.383	167.728	9.745	1.00156.76	A16S	ATOM	42647	C2' GUA	1121	249.453	164.551	12.390	1.00140.52	A1	
ATOM	42595	C2	CYT	1119	260.191	168.620	7.866	1.00156.76	A16S	ATOM	42648	O2' GUA	1121	250.317	164.768	13.480	1.00140.52	A1	
ATOM	42596	O2	CYT	1119	259.106	168.793	7.291	1.00156.76	A16S	ATOM	42649	C3' GUA	1121	249.326	163.081	12.003	1.00140.52	A1	
ATOM	42597	N3	CYT	1119	261.355	169.074	7.349	1.00156.76	A16S	ATOM	42650	O3' GUA	1121	249.394	162.218	13.134	1.00140.52	A1	
ATOM	42598	C4	CYT	1119	262.502	168.865	8.001	1.00156.76	A16S	ATOM	42651	P	CYT	1122	248.777	162.689	14.539	1.00140.49	A1
ATOM	42599	N4	CYT	1119	263.628	169.329	7.452	1.00156.76	A16S	ATOM	42652	O1P	CYT	1122	248.455	161.473	15.329	1.00130.45	A1
ATOM	42600	C5	CYT	1119	262.544	168.171	9.246	1.00156.76	A16S	ATOM	42653	O2P	CYT	1122	247.714	163.693	14.271	1.00130.45	A1
ATOM	42601	C2' CYT	1119	258.431	166.178	8.943	1.00200.65	A16S	ATOM	42654	O5' CYT	1122	250.006	163.419	15.244	1.00140.49	A1		
ATOM	42602	O2' CYT	1119	257.019	166.201	8.910	1.00200.65	A16S	ATOM	42655	C5' CYT	1122	251.123	162.672	15.726	1.00140.49	A1		
ATOM	42603	C3' CYT	1119	258.983	165.093	9.861	1.00200.65	A16S	ATOM	42656	C4' CYT	1122	252.162	163.596	16.329	1.00140.49	A1		
ATOM	42604	O3' CYT	1119	258.166	163.925	9.815	1.00200.65	A16S	ATOM	42657	O4' CYT	1122	253.170	163.972	15.357	1.00140.49	A1		
ATOM	42605	P	GUA	1120	258.687	162.599	9.064	1.00191.97	A16S	ATOM	42658	C1' CYT	1122	253.727	165.225	15.731	1.00140.49	A1	
ATOM	42606	O1P	GUA	1120	258.577	162.823	7.599	1.00181.99	A16S	ATOM	42659	N1	CYT	1122	253.679	166.140	14.580	1.00130.45	A1
ATOM	42607	O2P	GUA	1120	259.991	162.202	9.651	1.00181.99	A16S	ATOM	42660	C6	CYT	1122	253.100	165.765	13.401	1.00130.45	A1
ATOM	42608	O5' GUA	1120	257.601	161.509	9.477	1.00191.97	A16S	ATOM	42661	C2	CYT	1122	254.244	167.411	14.713	1.00130.45	A1	
ATOM	42609	C5' GUA	1120	256.275	161.916	9.787	1.00191.97	A16S	ATOM	42662	O2	CYT	1122	254.751	167.729	15.799	1.00130.45	A1	
ATOM	42610	C4' GUA	1120	255.675	161.034	10.857	1.00191.97	A16S	ATOM	42663	N3	CYT	1122	254.221	168.262	13.661	1.00130.45	A1	
ATOM	42611	O4' GUA	1120	256.624	160.837	11.935	1.00191.97	A16S	ATOM	42664	C4	CYT	1122	253.659	167.885	12.514	1.00130.45	A1	
ATOM	42612	C1' GUA	1120	255.944	160.865	13.178	1.00191.97	A16S	ATOM	42665	N4	CYT	1122	253.664	168.700	11.502	1.00130.45	A1	
ATOM	42613	N9	GUA	1120	256.510	161.953	13.969	1.00181.99	A16S	ATOM	42666	C5	CYT	1122	253.068	166.603	12.352	1.00130.45	A1
ATOM	42614	C4	GUA	1120	256.509	163.288	13.646	1.00181.99	A16S	ATOM	42667	C2' CYT	1122	252.942	165.742	16.940	1.00140.49	A1	
ATOM	42615	N3	GUA	1120	255.975	163.835	12.533	1.00181.99	A16S	ATOM	42668	O2' CYT	1122	253.659	165.484	18.128	1.00140.49	A1	
ATOM	42616	C2	GUA	1120	256.148	165.143	12.494	1.00181.99	A16S	ATOM	42669	C3' CYT	1122	251.658	164.931	16.842	1.00140.49	A1	
ATOM	42617	N2	GUA	1120	255.690	165.847	11.451	1.00181.99	A16S	ATOM	42670	O3' CYT	1122	251.029	164.816	18.106	1.00140.49	A1	
ATOM	42618	N1	GUA	1120	256.788	165.860	13.472	1.00181.99	A16S	ATOM	42671	P	CYT	1123	250.014	165.959	18.579	1.00145.12	A1
ATOM	42619	C6	GUA	1120	257.347	165.319	14.625	1.00181.99	A16S	ATOM	42672	O1P	CYT	1123	249.584	165.624	19.959	1.00163.68	A1
ATOM	42620	O6	GUA	1120	257.911	166.058	15.442	1.00181.99	A16S	ATOM	42673	O2P	CYT	1123	248.993	166.142	17.515	1.00163.68	A1
ATOM	42621	C5	GUA	1120	257.173	163.915	14.679	1.00181.99	A16S	ATOM	42674	O5' CYT	1123	250.923	167.266	18.632	1.00145.12	A1	
ATOM	42622	N7	GUA	1120	257.574	162.994	15.638	1.00181.99	A16S	ATOM	42675	C5' CYT	1123	251.786	167.515	19.739	1.00145.12	A1	
ATOM	42623	C8	GUA	1120	257.158	161.846	15.177	1.00181.99	A16S	ATOM	42676	C4' CYT	1123	252.154	168.978	19.789	1.00145.12	A1	
ATOM	42624	C2' GUA	1120	254.445	160.991	12.891	1.00191.97	A16S	ATOM	42677	O4' CYT	1123	253.004	169.303	18.657	1.00145.12	A1		
ATOM	42625	O2' GUA	1120	253.850	159.710	12.889	1.00191.97	A16S	ATOM	42678	C1' CYT	1123	252.681	170.454	16.793	1.00163.68	A1		
ATOM	42626	C3' GUA	1120	254.452	161.649	11.516	1.00191.97	A16S	ATOM	42679	N1	CYT	1123	252.191	170.454	16.793	1.00163.68	A1	
ATOM	42627	O3' GUA	1120	253.287	161.361	10.755	1.00191.97	A16S	ATOM	42680	C6	CYT	1123	251.855	169.226	16.294	1.00163.68	A1	
ATOM	42628	P	GUA	1121	252.978	162.221	9.434	1.00140.52	A16S	ATOM	42681	C2	CYT	1123	252.070	171.596	15.998	1.00163.68	A1
ATOM	42629	O1P	GUA	1121	253.804	161.645	8.343	1.00157.13	A16S	ATOM	42682	O2	CYT	1123	252.384	172.696	16.477	1.00163.68	A1
ATOM	42630	O2P	GUA	1121	253.110	163.661	9.767	1.00157.13	A16S	ATOM	42683	N3	CYT	1123	251.613	171.473	14.731	1.00163.68	A1

ATOM	42684	C4	CYT	1123	251.283	170.271	14.256	1.00163.68	Al6S	ATOM	42737	P	GUA	1126	241.135	177.299	17.703	1.00120.12	A
ATOM	42685	N4	CYT	1123	250.830	170.196	13.004	1.00163.68	Al6S	ATOM	42738	OlP	GUA	1126	240.246	178.439	18.047	1.00187.37	A
ATOM	42686	C5	CYT	1123	251.400	169.090	15.004	1.00163.68	Al6S	ATOM	42739	OlP	GUA	1126	241.025	176.028	18.465	1.00187.37	A
ATOM	42687	C2	CYT	1123	251.633	171.190	19.114	1.00145.12	Al6S	ATOM	42740	OlP	GUA	1126	240.958	176.979	16.154	1.00120.12	A
ATOM	42688	OlP	CYT	1123	252.262	171.964	20.114	1.00145.12	Al6S	ATOM	42741	C5	GUA	1126	240.937	178.028	15.190	1.00120.12	A
ATOM	42689	C3	CYT	1123	250.978	169.930	19.663	1.00145.12	Al6S	ATOM	42742	C4	GUA	1126	240.729	177.460	13.805	1.00120.12	A
ATOM	42690	OlP	CYT	1123	250.357	170.151	20.921	1.00145.12	Al6S	ATOM	42743	C4	GUA	1126	241.917	176.731	13.391	1.00120.12	A
ATOM	42691	P	GUA	1124	248.844	170.684	20.972	1.00116.98	Al6S	ATOM	42744	C1	GUA	1126	241.536	175.585	12.645	1.00120.12	A
ATOM	42692	OlP	GUA	1124	248.410	170.666	22.394	1.00145.33	Al6S	ATOM	42745	N9	GUA	1126	241.887	174.402	13.423	1.00187.37	A
ATOM	42693	OlP	GUA	1124	248.055	169.944	19.956	1.00145.33	Al6S	ATOM	42746	C4	GUA	1126	241.714	173.092	13.046	1.00187.37	A
ATOM	42694	OlP	GUA	1124	248.962	172.204	20.510	1.00116.98	Al6S	ATOM	42747	N3	GUA	1126	241.186	172.665	11.880	1.00187.37	A
ATOM	42695	C5	GUA	1124	249.484	173.195	21.390	1.00116.98	Al6S	ATOM	42748	C2	GUA	1126	241.148	171.345	11.810	1.00187.37	A
ATOM	42696	C4	GUA	1124	249.324	174.567	20.782	1.00116.98	Al6S	ATOM	42749	N2	GUA	1126	240.652	170.749	10.717	1.00187.37	A
ATOM	42697	OlP	GUA	1124	250.208	174.707	19.643	1.00116.98	Al6S	ATOM	42750	N1	GUA	1126	241.593	170.512	12.807	1.00187.37	A
ATOM	42698	C1	GUA	1124	249.607	175.550	18.677	1.00116.98	Al6S	ATOM	42751	C6	GUA	1126	242.141	170.932	14.015	1.00187.37	A
ATOM	42699	N9	GUA	1124	249.541	174.822	17.419	1.00145.33	Al6S	ATOM	42752	OlP	GUA	1126	242.516	170.097	14.846	1.00187.37	A
ATOM	42700	C4	GUA	1124	249.476	175.365	16.160	1.00145.33	Al6S	ATOM	42753	C5	GUA	1126	242.186	172.343	14.103	1.00187.37	A
ATOM	42701	N3	GUA	1124	249.488	176.681	15.861	1.00145.33	Al6S	ATOM	42754	N7	GUA	1126	242.646	173.164	15.122	1.00187.37	A
ATOM	42702	C2	GUA	1124	249.399	176.891	14.557	1.00145.33	Al6S	ATOM	42755	C8	GUA	1126	242.449	174.374	14.675	1.00187.37	A
ATOM	42703	N2	GUA	1124	249.409	178.141	14.073	1.00145.33	Al6S	ATOM	42756	C2	GUA	1126	240.029	175.690	12.423	1.00120.12	A
ATOM	42704	N1	GUA	1124	249.297	175.890	13.629	1.00145.33	Al6S	ATOM	42757	OlP	GUA	1126	239.789	176.429	11.244	1.00120.12	A
ATOM	42705	C6	GUA	1124	249.281	174.531	13.917	1.00145.33	Al6S	ATOM	42758	C3	GUA	1126	239.608	176.442	13.676	1.00120.12	A
ATOM	42706	C6	GUA	1124	249.183	173.710	13.002	1.00145.33	Al6S	ATOM	42759	OlP	GUA	1126	238.336	177.064	13.525	1.00120.12	A
ATOM	42707	C5	GUA	1124	249.387	174.291	15.305	1.00145.33	Al6S	ATOM	42760	P	CYT	1127	237.096	176.587	14.439	1.00126.83	A
ATOM	42708	N7	GUA	1124	249.418	173.096	16.010	1.00145.33	Al6S	ATOM	42761	OlP	CYT	1127	237.125	177.368	15.703	1.00126.83	A
ATOM	42709	C8	GUA	1124	249.513	173.460	17.258	1.00145.33	Al6S	ATOM	42762	OlP	CYT	1127	237.086	175.106	14.503	1.00126.83	A
ATOM	42710	C2	GUA	1124	248.226	175.954	19.750	1.00116.98	Al6S	ATOM	42763	OlP	CYT	1127	235.823	177.061	13.611	1.00116.05	A
ATOM	42711	OlP	GUA	1124	247.943	174.863	20.227	1.00116.98	Al6S	ATOM	42764	C5	CYT	1127	234.841	175.125	13.192	1.00116.05	A
ATOM	42712	C3	GUA	1124	247.086	175.315	21.270	1.00116.98	Al6S	ATOM	42765	C4	CYT	1127	235.311	175.396	11.955	1.00116.05	A
ATOM	42713	OlP	GUA	1124	245.532	174.910	22.431	1.00183.58	Al6S	ATOM	42766	OlP	CYT	1127	236.544	173.437	11.583	1.00116.05	A
ATOM	42714	OlP	GUA	1125	244.891	175.554	22.431	1.00183.58	Al6S	ATOM	42767	C1	CYT	1127	236.729	172.406	12.607	1.00126.83	A
ATOM	42715	OlP	GUA	1125	244.971	175.617	19.942	1.00108.72	Al6S	ATOM	42768	N1	CYT	1127	235.995	172.417	13.760	1.00126.83	A
ATOM	42716	OlP	GUA	1125	245.085	177.025	19.766	1.00108.72	Al6S	ATOM	42769	C2	CYT	1127	237.694	171.433	12.397	1.00126.83	A
ATOM	42717	OlP	GUA	1125	244.978	177.384	18.301	1.00108.72	Al6S	ATOM	42770	C2	CYT	1127	238.297	171.417	11.315	1.00126.83	A
ATOM	42718	C5	GUA	1125	246.053	176.744	17.565	1.00108.72	Al6S	ATOM	42771	OlP	CYT	1127	237.945	170.532	13.370	1.00126.83	A
ATOM	42719	C4	GUA	1125	245.607	176.421	16.257	1.00108.72	Al6S	ATOM	42772	N3	CYT	1127	237.252	170.571	14.509	1.00126.83	A
ATOM	42720	OlP	GUA	1125	245.701	174.976	16.082	1.00183.58	Al6S	ATOM	42773	C4	CYT	1127	236.221	171.526	14.730	1.00126.83	A
ATOM	42721	C1	GUA	1125	245.623	174.295	13.691	1.00183.58	Al6S	ATOM	42774	N4	CYT	1127	235.260	173.327	10.763	1.00116.05	A
ATOM	42722	N9	GUA	1125	245.466	174.850	13.691	1.00183.58	Al6S	ATOM	42775	C5	CYT	1127	234.351	174.335	11.462	1.00116.05	A
ATOM	42723	C4	GUA	1125	245.407	173.936	12.719	1.00183.58	Al6S	ATOM	42776	C2	CYT	1127	233.452	174.970	10.570	1.00116.05	A
ATOM	42724	N3	GUA	1125	245.494	172.585	12.945	1.00183.58	Al6S	ATOM	42777	OlP	CYT	1127	232.649	174.096	9.506	1.00127.47	A
ATOM	42725	C2	GUA	1125	245.655	171.992	14.192	1.00183.58	Al6S	ATOM	42778	C3	CYT	1127	231.437	174.866	9.135	1.00127.47	A
ATOM	42726	N2	GUA	1125	245.717	170.761	14.285	1.00183.58	Al6S	ATOM	42779	OlP	CYT	1128	232.513	172.734	10.092	1.00127.47	A
ATOM	42727	C6	GUA	1125	245.877	172.806	16.596	1.00183.58	Al6S	ATOM	42780	OlP	CYT	1128	233.617	174.053	8.239	1.00127.47	A
ATOM	42728	N1	GUA	1125	245.863	174.026	17.062	1.00183.58	Al6S	ATOM	42781	C5	ADE	1128	234.470	174.775	7.284	1.00127.47	A
ATOM	42729	OlP	GUA	1125	244.166	176.917	16.129	1.00108.72	Al6S	ATOM	42782	C4	ADE	1128	235.874	174.904	6.425	1.00127.47	A
ATOM	42730	C7	GUA	1125	243.721	176.918	17.586	1.00108.72	Al6S	ATOM	42783	OlP	ADE	1128	237.500	173.221	6.356	1.00127.47	A
ATOM	42731	N7	GUA	1125	242.648	177.823	17.806	1.00108.72	Al6S	ATOM	42784	C5	ADE	1128	238.476	172.397	5.858	1.00127.47	A
ATOM	42732	C8	GUA	1125						ATOM	42785	C4	ADE	1128					A
ATOM	42733	C2	GUA	1125						ATOM	42786	OlP	ADE	1128					A
ATOM	42734	OlP	GUA	1125						ATOM	42787	C1	ADE	1128					A
ATOM	42735	C3	GUA	1125						ATOM	42788	N9	ADE	1128					A
ATOM	42736	OlP	GUA	1125						ATOM	42789	C4	ADE	1128					A

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ATOM	42790	N3	ADE	1128	238.817	172.230	4.569	1.00	69.09	Al6S	ATOM	42843	O1P	CYT	1131	232.586	160.211	1.866	1.00	74.96	Al1
ATOM	42791	C2	ADE	1128	239.798	171.336	4.457	1.00	69.09	Al6S	ATOM	42844	O2P	CYT	1131	232.083	162.533	2.831	1.00	74.96	Al1
ATOM	42792	N1	ADE	1128	240.426	170.641	5.416	1.00	69.09	Al6S	ATOM	42845	O5	CYT	1131	233.118	160.746	4.258	1.00	62.46	Al1
ATOM	42793	C6	ADE	1128	240.060	170.833	6.701	1.00	69.09	Al6S	ATOM	42846	C5	CYT	1131	234.048	159.705	4.535	1.00	62.46	Al1
ATOM	42794	N6	ADE	1128	240.684	170.133	7.653	1.00	69.09	Al6S	ATOM	42847	C4	CYT	1131	234.366	159.663	6.016	1.00	62.46	Al1
ATOM	42795	C5	ADE	1128	239.033	171.761	6.955	1.00	69.09	Al6S	ATOM	42848	C1	CYT	1131	234.841	160.975	6.423	1.00	62.46	Al1
ATOM	42796	N7	ADE	1128	238.424	172.184	8.128	1.00	69.09	Al6S	ATOM	42849	C4	CYT	1131	234.450	161.232	7.762	1.00	62.46	Al1
ATOM	42797	C8	ADE	1128	237.524	173.048	7.717	1.00	69.09	Al6S	ATOM	42850	N1	CYT	1131	233.676	162.482	7.790	1.00	74.96	Al1
ATOM	42798	C2	ADE	1128	235.651	173.293	4.693	1.00	127.47	Al6S	ATOM	42851	C6	CYT	1131	233.074	162.961	6.660	1.00	74.96	Al1
ATOM	42799	O2	ADE	1128	235.506	173.928	3.439	1.00	127.47	Al6S	ATOM	42852	C2	CYT	1131	233.575	163.183	8.995	1.00	74.96	Al1
ATOM	42800	C3	ADE	1128	234.385	173.368	5.536	1.00	127.47	Al6S	ATOM	42853	O2	CYT	1131	234.105	162.711	10.008	1.00	74.96	Al1
ATOM	42801	O3	ADE	1128	233.231	173.186	4.737	1.00	127.47	Al6S	ATOM	42854	N3	CYT	1131	232.900	164.351	9.024	1.00	74.96	Al1
ATOM	42802	P	CYT	1129	232.524	171.747	4.696	1.00	102.14	Al6S	ATOM	42855	C4	CYT	1131	232.332	164.821	7.912	1.00	74.96	Al1
ATOM	42803	O1P	CYT	1129	232.299	171.321	6.109	1.00	72.85	Al6S	ATOM	42856	N4	CYT	1131	231.696	165.991	7.982	1.00	74.96	Al1
ATOM	42804	O2P	CYT	1129	231.367	171.856	3.764	1.00	72.85	Al6S	ATOM	42857	C5	CYT	1131	232.397	164.115	6.676	1.00	74.96	Al1
ATOM	42805	O5	CYT	1129	233.636	170.795	4.059	1.00	102.14	Al6S	ATOM	42858	C2	CYT	1131	233.673	160.016	8.268	1.00	62.46	Al1
ATOM	42806	C5	CYT	1129	234.057	170.969	2.706	1.00	102.14	Al6S	ATOM	42859	O2	CYT	1131	234.522	159.167	9.018	1.00	62.46	Al1
ATOM	42807	C4	CYT	1129	235.172	170.003	2.362	1.00	102.14	Al6S	ATOM	42860	C3	CYT	1131	233.200	159.384	6.961	1.00	62.46	Al1
ATOM	42808	O4	CYT	1129	236.351	170.310	3.144	1.00	102.14	Al6S	ATOM	42861	O3	CYT	1131	233.995	157.984	7.149	1.00	62.46	Al1
ATOM	42809	C1	CYT	1129	237.089	169.124	3.370	1.00	102.14	Al6S	ATOM	42862	P	URI	1132	231.548	157.448	7.584	1.00	78.75	Al1
ATOM	42810	N1	CYT	1129	237.261	168.948	4.814	1.00	72.85	Al6S	ATOM	42863	O1P	URI	1132	231.561	155.970	7.519	1.00	67.64	Al1
ATOM	42811	C6	CYT	1129	236.476	169.624	5.702	1.00	72.85	Al6S	ATOM	42864	O2P	URI	1132	230.553	158.221	6.802	1.00	67.64	Al1
ATOM	42812	C2	CYT	1129	238.254	168.076	5.270	1.00	72.85	Al6S	ATOM	42865	O5	URI	1132	231.394	157.852	9.113	1.00	78.75	Al1
ATOM	42813	O2	CYT	1129	238.929	167.453	4.442	1.00	72.85	Al6S	ATOM	42866	C5	URI	1132	232.048	157.121	10.138	1.00	78.75	Al1
ATOM	42814	N3	CYT	1129	238.448	167.929	6.599	1.00	72.85	Al6S	ATOM	42867	C4	URI	1132	231.809	157.794	11.464	1.00	78.75	Al1
ATOM	42815	C4	CYT	1129	237.689	168.609	7.459	1.00	72.85	Al6S	ATOM	42868	O4	URI	1132	232.227	159.175	11.332	1.00	78.75	Al1
ATOM	42816	N4	CYT	1129	237.930	168.484	8.757	1.00	72.85	Al6S	ATOM	42869	C1	URI	1132	231.348	160.012	12.059	1.00	78.75	Al1
ATOM	42817	C5	CYT	1129	236.652	169.485	7.023	1.00	102.14	Al6S	ATOM	42870	N1	URI	1132	230.789	160.901	11.139	1.00	67.64	Al1
ATOM	42818	C2	CYT	1129	236.331	167.972	2.714	1.00	102.14	Al6S	ATOM	42871	C6	URI	1132	230.951	160.901	9.787	1.00	67.64	Al1
ATOM	42819	O2	CYT	1129	236.894	167.736	1.445	1.00	102.14	Al6S	ATOM	42872	C2	URI	1132	230.114	162.073	11.688	1.00	67.64	Al1
ATOM	42820	C3	CYT	1129	234.914	168.532	2.644	1.00	102.14	Al6S	ATOM	42873	O2	URI	1132	229.922	162.176	12.884	1.00	67.64	Al1
ATOM	42821	O3	CYT	1129	234.184	167.943	1.571	1.00	102.14	Al6S	ATOM	42874	N3	URI	1132	229.666	163.008	10.788	1.00	67.64	Al1
ATOM	42822	P	URI	1130	233.328	166.602	1.819	1.00	76.68	Al6S	ATOM	42875	C4	URI	1132	229.811	162.974	9.419	1.00	67.64	Al1
ATOM	42823	O1P	URI	1130	232.347	166.819	2.906	1.00	83.26	Al6S	ATOM	42876	O4	URI	1132	229.363	163.897	8.732	1.00	67.64	Al1
ATOM	42824	O2P	URI	1130	232.851	166.169	0.481	1.00	83.26	Al6S	ATOM	42877	C5	URI	1132	230.498	161.820	8.929	1.00	67.64	Al1
ATOM	42825	O5	URI	1130	234.396	165.548	2.349	1.00	76.68	Al6S	ATOM	42878	C2	URI	1132	230.323	159.123	12.762	1.00	78.75	Al1
ATOM	42826	C5	URI	1130	235.156	164.784	1.429	1.00	76.68	Al6S	ATOM	42879	O2	URI	1132	230.758	158.885	14.088	1.00	78.75	Al1
ATOM	42827	C4	URI	1130	235.902	163.689	2.143	1.00	76.68	Al6S	ATOM	42880	C3	URI	1132	230.348	157.876	11.884	1.00	78.75	Al1
ATOM	42828	O1	URI	1130	236.889	164.273	3.029	1.00	76.68	Al6S	ATOM	42881	O3	URI	1132	229.981	156.711	12.622	1.00	78.75	Al1
ATOM	42829	C1	URI	1130	237.081	163.421	4.146	1.00	76.68	Al6S	ATOM	42882	P	ADE	1133	228.643	155.906	12.234	1.00	69.33	Al1
ATOM	42830	N1	URI	1130	236.699	164.154	5.359	1.00	83.26	Al6S	ATOM	42883	O1P	ADE	1133	228.507	154.670	13.070	1.00	70.87	Al1
ATOM	42831	C6	URI	1130	235.896	165.262	5.298	1.00	83.26	Al6S	ATOM	42884	O2P	ADE	1133	228.577	155.801	10.754	1.00	70.87	Al1
ATOM	42832	C2	URI	1130	237.175	163.683	6.569	1.00	83.26	Al6S	ATOM	42885	O5	ADE	1133	227.455	156.867	12.672	1.00	69.33	Al1
ATOM	42833	O2	URI	1130	237.889	162.701	6.658	1.00	83.26	Al6S	ATOM	42886	C4	ADE	1133	227.298	157.267	14.024	1.00	69.33	Al1
ATOM	42834	N2	URI	1130	236.781	164.401	7.669	1.00	83.26	Al6S	ATOM	42887	C5	ADE	1133	226.348	158.429	14.103	1.00	69.33	Al1
ATOM	42835	C4	URI	1130	235.976	165.516	7.678	1.00	83.26	Al6S	ATOM	42888	O4	ADE	1133	226.823	159.489	13.258	1.00	69.33	Al1
ATOM	42836	O4	URI	1130	235.687	166.043	8.751	1.00	83.26	Al6S	ATOM	42889	C1	ADE	1133	225.746	160.349	13.011	1.00	69.33	Al1
ATOM	42837	C5	URI	1130	235.527	165.941	6.386	1.00	83.26	Al6S	ATOM	42890	N9	ADE	1133	225.991	161.150	11.818	1.00	70.87	Al1
ATOM	42838	O2	URI	1130	236.198	162.195	3.919	1.00	76.68	Al6S	ATOM	42891	C4	ADE	1133	225.741	162.498	11.757	1.00	70.87	Al1
ATOM	42839	C2	URI	1130	236.930	161.213	3.211	1.00	76.68	Al6S	ATOM	42892	N3	ADE	1133	225.216	163.270	12.723	1.00	70.87	Al1
ATOM	42840	C3	URI	1130	235.094	162.792	3.063	1.00	76.68	Al6S	ATOM	42893	C2	ADE	1133	225.120	164.532	12.316	1.00	70.87	Al1
ATOM	42841	O3	URI	1130	234.425	161.771	2.343	1.00	76.68	Al6S	ATOM	42894	N1	ADE	1133	225.464	165.068	11.143	1.00	70.87	Al1
ATOM	42842	P	CYT	1131	232.946	161.324	2.780	1.00	62.46	Al6S	ATOM	42895	C6	ADE	1133	225.991	164.264	10.195	1.00	70.87	Al1

ATOM	42896	N6	ADE	1133	226.337	164.805	9.026	1.00	70.87	Al6s	ATOM	42949	O5'	GUA	1136	213.693	164.683	8.647	1.00	91.65	A
ATOM	42897	C5	ADE	1133	226.142	162.900	10.503	1.00	70.87	Al6s	ATOM	42950	C5'	GUA	1136	213.365	166.067	8.593	1.00	91.65	A
ATOM	42898	N7	ADE	1133	226.624	161.821	9.776	1.00	70.87	Al6s	ATOM	42951	C4'	GUA	1136	214.143	166.771	7.502	1.00	91.65	A
ATOM	42899	C8	ADE	1133	226.506	160.808	10.601	1.00	70.87	Al6s	ATOM	42952	O4'	GUA	1136	215.556	166.496	7.655	1.00	91.65	A
ATOM	42900	C2'	ADE	1133	224.444	159.559	13.147	1.00	69.33	Al6s	ATOM	42953	C1'	GUA	1136	216.201	166.699	6.412	1.00	91.65	A
ATOM	42901	O2'	ADE	1133	223.660	160.219	14.115	1.00	69.33	Al6s	ATOM	42954	N9	GUA	1136	217.014	165.532	6.097	1.00	91.65	A
ATOM	42902	C3'	ADE	1133	224.932	158.178	13.608	1.00	69.33	Al6s	ATOM	42955	C4	GUA	1136	217.928	165.449	5.079	1.00	91.65	A
ATOM	42903	O3'	ADE	1133	224.184	157.734	14.742	1.00	69.33	Al6s	ATOM	42956	C3	GUA	1136	218.238	166.439	4.217	1.00	91.65	A
ATOM	42904	P	ADE	1134	222.638	157.347	14.593	1.00	70.37	Al6s	ATOM	42957	C2	GUA	1136	219.149	166.064	3.341	1.00	91.65	A
ATOM	42905	O1P	ADE	1134	222.510	156.539	13.363	1.00	84.68	Al6s	ATOM	42958	N2	GUA	1136	219.577	166.934	2.421	1.00	91.65	A
ATOM	42906	O2P	ADE	1134	222.862	158.726	14.374	1.00	70.37	Al6s	ATOM	42959	N1	GUA	1136	219.707	164.808	3.306	1.00	91.65	A
ATOM	42907	O5'	ADE	1134	220.848	159.146	15.286	1.00	70.37	Al6s	ATOM	42960	C6	GUA	1136	219.397	163.769	4.180	1.00	91.65	A
ATOM	42908	C5'	ADE	1134	220.307	160.526	14.926	1.00	70.37	Al6s	ATOM	42961	O6	GUA	1136	219.948	162.667	4.052	1.00	91.65	A
ATOM	42909	C4'	ADE	1134	221.399	161.418	14.574	1.00	70.37	Al6s	ATOM	42962	C5	GUA	1136	218.427	164.168	5.137	1.00	91.65	A
ATOM	42910	O4'	ADE	1134	220.890	162.500	13.812	1.00	70.37	Al6s	ATOM	42963	N7	GUA	1136	217.849	163.463	6.184	1.00	91.65	A
ATOM	42911	C1'	ADE	1134	221.673	162.647	12.589	1.00	84.68	Al6s	ATOM	42964	C8	GUA	1136	217.018	164.312	6.726	1.00	91.65	A
ATOM	42912	N9	ADE	1134	221.737	163.793	11.836	1.00	84.68	Al6s	ATOM	42965	C2'	GUA	1136	215.116	166.954	5.365	1.00	91.65	A
ATOM	42913	C4	ADE	1134	221.407	165.849	12.085	1.00	84.68	Al6s	ATOM	42966	O2'	GUA	1136	215.025	168.343	5.128	1.00	91.65	A
ATOM	42914	N3	ADE	1134	222.129	164.964	11.131	1.00	84.68	Al6s	ATOM	42967	C3'	GUA	1136	213.881	166.387	6.056	1.00	91.65	A
ATOM	42915	C2	ADE	1134	222.162	165.705	10.039	1.00	84.68	Al6s	ATOM	42968	O3'	GUA	1136	212.710	167.028	5.564	1.00	91.65	A
ATOM	42916	N1	ADE	1134	222.756	164.513	9.819	1.00	84.68	Al6s	ATOM	42969	P	GUA	1137	211.953	166.434	4.272	1.00	81.99	A
ATOM	42917	C6	ADE	1134	222.545	163.368	8.726	1.00	84.68	Al6s	ATOM	42970	O1P	GUA	1137	210.604	167.058	4.210	1.00	76.69	A
ATOM	42918	N6	ADE	1134	222.996	162.182	10.759	1.00	84.68	Al6s	ATOM	42971	O2P	GUA	1137	212.075	164.951	4.317	1.00	76.69	A
ATOM	42919	C5	ADE	1134	222.453	161.728	11.940	1.00	84.68	Al6s	ATOM	42972	O5'	GUA	1137	212.788	166.996	3.039	1.00	81.99	A
ATOM	42920	N7	ADE	1134	219.425	162.190	13.506	1.00	70.37	Al6s	ATOM	42973	C5'	GUA	1137	212.849	168.392	2.791	1.00	81.99	A
ATOM	42921	C8	ADE	1134	218.604	162.894	14.414	1.00	70.37	Al6s	ATOM	42974	C4'	GUA	1137	213.828	168.683	1.685	1.00	81.99	A
ATOM	42922	O2'	ADE	1134	219.372	160.684	13.733	1.00	70.37	Al6s	ATOM	42975	O4'	GUA	1137	215.152	168.268	2.092	1.00	81.99	A
ATOM	42923	C3'	ADE	1134	218.029	160.317	14.045	1.00	70.37	Al6s	ATOM	42976	C1'	GUA	1137	215.869	167.805	0.966	1.00	81.99	A
ATOM	42924	O3'	ADE	1134	216.940	160.189	12.864	1.00	64.10	Al6s	ATOM	42977	N9	GUA	1137	216.337	166.456	1.254	1.00	76.69	A
ATOM	42925	O3'	ADE	1134	215.666	159.761	13.446	1.00	64.10	Al6s	ATOM	42978	C4	GUA	1137	217.225	165.725	0.506	1.00	76.69	A
ATOM	42926	P	CYT	1135	216.744	161.672	12.317	1.00	64.10	Al6s	ATOM	42979	N3	GUA	1137	217.806	166.122	-0.643	1.00	76.69	A
ATOM	42927	O1P	CYT	1135	216.049	162.638	13.085	1.00	64.10	Al6s	ATOM	42980	C2	GUA	1137	218.618	165.201	-1.126	1.00	76.69	A
ATOM	42928	O2P	CYT	1135	217.525	159.378	11.764	1.00	100.99	Al6s	ATOM	42981	N1	GUA	1137	218.849	163.991	-0.527	1.00	76.69	A
ATOM	42929	O5'	CYT	1135	216.125	163.989	12.422	1.00	64.10	Al6s	ATOM	42982	N2	GUA	1137	219.273	165.424	-2.266	1.00	76.69	A
ATOM	42930	C4'	CYT	1135	217.515	164.337	12.179	1.00	64.10	Al6s	ATOM	42983	C6	GUA	1137	218.268	163.561	0.657	1.00	76.69	A
ATOM	42931	O4'	CYT	1135	217.592	165.204	11.054	1.00	64.10	Al6s	ATOM	42984	O6	GUA	1137	218.556	162.450	1.115	1.00	76.69	A
ATOM	42932	C1'	CYT	1135	218.523	164.628	10.079	1.00	100.99	Al6s	ATOM	42985	C5	GUA	1137	217.382	164.516	1.184	1.00	76.69	A
ATOM	42933	N1	CYT	1135	218.930	163.329	10.176	1.00	100.99	Al6s	ATOM	42986	N7	GUA	1137	216.598	164.516	2.331	1.00	76.69	A
ATOM	42934	C6	CYT	1135	218.981	165.438	9.039	1.00	100.99	Al6s	ATOM	42987	C8	GUA	1137	215.994	165.672	2.328	1.00	76.69	A
ATOM	42935	O2	CYT	1135	218.593	166.612	8.981	1.00	100.99	Al6s	ATOM	42988	C2'	GUA	1137	214.948	167.902	-0.251	1.00	81.99	A
ATOM	42936	C2	CYT	1135	219.830	164.924	8.128	1.00	100.99	Al6s	ATOM	42989	O2'	GUA	1137	215.216	169.088	-0.968	1.00	81.99	A
ATOM	42937	N3	CYT	1135	220.223	163.655	7.311	1.00	100.99	Al6s	ATOM	42990	C3'	GUA	1137	213.574	167.928	0.399	1.00	81.99	A
ATOM	42938	C4	CYT	1135	221.068	163.192	7.311	1.00	100.99	Al6s	ATOM	42991	O3'	GUA	1137	212.665	168.659	-0.400	1.00	81.99	A
ATOM	42939	N4	CYT	1135	219.770	162.806	9.279	1.00	100.99	Al6s	ATOM	42992	P	GUA	1138	211.708	167.877	-1.415	1.00	88.53	A
ATOM	42940	C5	CYT	1135	216.183	165.329	10.471	1.00	64.10	Al6s	ATOM	42993	O1P	GUA	1138	210.050	168.884	-2.285	1.00	80.12	A
ATOM	42941	C2'	CYT	1135	215.572	166.538	10.879	1.00	64.10	Al6s	ATOM	42994	O2P	GUA	1138	210.871	166.939	-0.617	1.00	80.12	A
ATOM	42942	O3'	CYT	1135	215.510	164.086	11.040	1.00	64.10	Al6s	ATOM	42995	O5'	GUA	1138	212.731	167.053	-2.322	1.00	88.53	A
ATOM	42943	C3'	CYT	1135	214.108	164.266	11.104	1.00	64.10	Al6s	ATOM	42996	C5'	GUA	1138	213.444	167.702	-3.367	1.00	88.53	A
ATOM	42944	O3'	CYT	1135	213.204	163.784	9.873	1.00	91.65	Al6s	ATOM	42997	O4'	GUA	1138	214.308	166.720	-4.121	1.00	88.53	A
ATOM	42945	P	GUA	1136	211.803	164.145	10.212	1.00	100.24	Al6s	ATOM	42998	C4'	GUA	1138	215.388	166.246	-3.275	1.00	88.53	A
ATOM	42946	O1P	GUA	1136	213.554	162.365	9.590	1.00	100.24	Al6s	ATOM	42999	C1'	GUA	1138	215.765	164.944	-3.681	1.00	88.53	A
ATOM	42947	O2P	GUA	1136						Al6s	ATOM	43000	N9	GUA	1138	215.584	164.049	-2.547	1.00	80.12	A
ATOM	42948	O2P	GUA	1136						Al6s	ATOM	43001	C4	GUA	1138	216.284	162.897	-2.283	1.00	80.12	A

ATOM	43002	N3	GU	1138	217.295	162.395	-3.018	1.00	80.12	Al6S	ATOM	43055	C3	CYT	1140	206.292	160.119	-9.123	1.00	96.95	Al1
ATOM	43003	C2	GU	1138	217.755	161.263	-2.514	1.00	80.12	Al6S	ATOM	43056	O3	CYT	1140	205.365	159.031	-9.216	1.00	96.95	Al1
ATOM	43004	N2	GU	1138	218.760	160.624	-3.117	1.00	80.12	Al6S	ATOM	43057	P	URI	1141	205.416	158.024	-10.466	1.00	93.19	Al1
ATOM	43005	N1	GU	1138	217.262	160.672	-1.380	1.00	80.12	Al6S	ATOM	43058	O1P	URI	1141	205.103	156.664	-9.957	1.00	146.05	Al1
ATOM	43006	C6	GU	1138	216.221	161.172	-0.609	1.00	80.12	Al6S	ATOM	43059	O2P	URI	1141	206.679	158.252	-11.205	1.00	146.05	Al1
ATOM	43007	O6	GU	1138	215.846	160.557	0.398	1.00	80.12	Al6S	ATOM	43060	O5	URI	1141	204.215	158.507	-11.390	1.00	93.19	Al1
ATOM	43008	C5	GU	1138	215.722	162.385	-1.135	1.00	80.12	Al6S	ATOM	43061	C5	URI	1141	204.313	158.390	-12.798	1.00	93.19	Al1
ATOM	43009	N7	GU	1138	214.705	163.205	-0.678	1.00	80.12	Al6S	ATOM	43062	C4	URI	1141	205.022	159.595	-13.367	1.00	93.19	Al1
ATOM	43010	C8	GU	1138	214.663	164.181	-1.543	1.00	88.53	Al6S	ATOM	43063	O1	URI	1141	206.006	159.163	-14.325	1.00	93.19	Al1
ATOM	43011	C2	GU	1138	214.861	164.566	-4.858	1.00	88.53	Al6S	ATOM	43064	C1	URI	1141	206.247	160.204	-15.243	1.00	93.19	Al1
ATOM	43012	O2	GU	1138	215.512	164.908	-6.063	1.00	88.53	Al6S	ATOM	43065	N1	URI	1141	206.334	159.626	-16.588	1.00	146.05	Al1
ATOM	43013	C3	GU	1138	213.644	165.445	-4.603	1.00	88.53	Al6S	ATOM	43066	C6	URI	1141	205.214	159.305	-17.313	1.00	146.05	Al1
ATOM	43014	O3	GU	1138	212.914	165.677	-5.803	1.00	88.53	Al6S	ATOM	43067	C2	URI	1141	207.599	159.425	-17.100	1.00	146.05	Al1
ATOM	43015	P	ADE	1139	211.367	165.246	-5.892	1.00	129.49	Al6S	ATOM	43068	O2	URI	1141	208.615	159.694	-16.475	1.00	146.05	Al1
ATOM	43016	O1P	ADE	1139	210.790	165.932	-7.070	1.00	109.04	Al6S	ATOM	43069	N3	URI	1141	207.633	158.895	-18.364	1.00	146.05	Al1
ATOM	43017	O2P	ADE	1139	210.754	165.448	-4.563	1.00	109.04	Al6S	ATOM	43070	C4	URI	1141	206.550	158.554	-19.149	1.00	146.05	Al1
ATOM	43018	O5	ADE	1139	211.395	163.680	-6.188	1.00	129.49	Al6S	ATOM	43071	O4	URI	1141	206.740	158.089	-20.274	1.00	146.05	Al1
ATOM	43019	C5	ADE	1139	210.212	162.984	-6.591	1.00	129.49	Al6S	ATOM	43072	C5	URI	1141	205.276	158.790	-18.545	1.00	146.05	Al1
ATOM	43020	C4	ADE	1139	210.554	161.971	-7.655	1.00	129.49	Al6S	ATOM	43073	C2	URI	1141	205.175	161.285	-15.051	1.00	93.19	Al1
ATOM	43021	O4	ADE	1139	211.188	162.685	-8.736	1.00	129.49	Al6S	ATOM	43074	O2	URI	1141	205.762	162.431	-14.483	1.00	93.19	Al1
ATOM	43022	C1	ADE	1139	212.116	161.839	-9.366	1.00	129.49	Al6S	ATOM	43075	C3	URI	1141	204.171	160.607	-14.115	1.00	93.19	Al1
ATOM	43023	N9	ADE	1139	213.284	162.613	-9.774	1.00	109.04	Al6S	ATOM	43076	O3	URI	1141	203.606	161.530	-13.182	1.00	93.19	Al1
ATOM	43024	C4	ADE	1139	214.437	162.116	-10.328	1.00	109.04	Al6S	ATOM	43077	P	GU	1142	202.943	162.902	-13.702	1.00	97.11	Al1
ATOM	43025	N3	ADE	1139	214.744	160.829	-10.549	1.00	109.04	Al6S	ATOM	43078	O1P	GU	1142	201.756	163.151	-12.847	1.00	100.06	Al1
ATOM	43026	C2	ADE	1139	215.940	160.725	-11.124	1.00	109.04	Al6S	ATOM	43079	O2P	GU	1142	202.779	162.849	-15.179	1.00	100.06	Al1
ATOM	43027	N1	ADE	1139	216.798	161.689	-11.478	1.00	109.04	Al6S	ATOM	43080	O5	GU	1142	204.041	164.007	-13.367	1.00	97.11	Al1
ATOM	43028	C6	ADE	1139	216.456	162.973	-11.241	1.00	109.04	Al6S	ATOM	43081	C5	GU	1142	203.775	165.031	-12.417	1.00	97.11	Al1
ATOM	43029	N6	ADE	1139	217.309	163.938	-11.592	1.00	109.04	Al6S	ATOM	43082	C4	GU	1142	204.789	166.147	-12.535	1.00	97.11	Al1
ATOM	43030	C5	ADE	1139	215.213	163.216	-10.631	1.00	109.04	Al6S	ATOM	43083	O4	GU	1142	206.078	165.727	-12.015	1.00	97.11	Al1
ATOM	43031	N7	ADE	1139	214.576	164.385	-10.248	1.00	109.04	Al6S	ATOM	43084	C1	GU	1142	207.106	166.448	-12.678	1.00	97.11	Al1
ATOM	43032	C8	ADE	1139	213.443	163.971	-9.737	1.00	109.04	Al6S	ATOM	43085	N9	GU	1142	208.012	165.498	-13.310	1.00	100.06	Al1
ATOM	43033	C2	ADE	1139	212.354	160.604	-8.496	1.00	129.49	Al6S	ATOM	43086	C4	GU	1142	209.128	165.816	-14.038	1.00	100.06	Al1
ATOM	43034	O2	ADE	1139	211.871	159.462	-9.174	1.00	129.49	Al6S	ATOM	43087	N3	GU	1142	209.592	167.060	-14.268	1.00	100.06	Al1
ATOM	43035	C3	ADE	1139	211.571	160.921	-7.218	1.00	129.49	Al6S	ATOM	43088	C2	GU	1142	210.678	167.048	-15.013	1.00	100.06	Al1
ATOM	43036	O3	ADE	1139	210.944	159.692	-6.827	1.00	129.49	Al6S	ATOM	43089	N2	GU	1142	211.275	168.198	-15.333	1.00	100.06	Al1
ATOM	43037	P	CYT	1140	209.573	159.694	-5.982	1.00	96.95	Al6S	ATOM	43090	N1	GU	1142	211.260	165.908	-15.499	1.00	100.06	Al1
ATOM	43038	O1P	CYT	1140	209.689	160.708	-4.906	1.00	102.02	Al6S	ATOM	43091	C6	GU	1142	210.795	164.618	-15.279	1.00	100.06	Al1
ATOM	43039	O2P	CYT	1140	209.257	158.287	-5.629	1.00	102.02	Al6S	ATOM	43092	O6	GU	1142	211.384	163.659	-15.781	1.00	100.06	Al1
ATOM	43040	O5	CYT	1140	208.451	160.166	-7.010	1.00	96.95	Al6S	ATOM	43093	C5	GU	1142	209.637	164.615	-14.472	1.00	100.06	Al1
ATOM	43041	C5	CYT	1140	207.074	160.048	-6.666	1.00	96.95	Al6S	ATOM	43094	N7	GU	1142	208.866	163.559	-14.011	1.00	100.06	Al1
ATOM	43042	C4	CYT	1140	206.203	160.698	-7.717	1.00	96.95	Al6S	ATOM	43095	C8	GU	1142	207.916	164.130	-13.323	1.00	100.06	Al1
ATOM	43043	O4	CYT	1140	206.558	162.093	-7.850	1.00	96.95	Al6S	ATOM	43096	C2	GU	1142	206.436	167.346	-13.720	1.00	97.11	Al1
ATOM	43044	C1	CYT	1140	206.300	162.507	-9.171	1.00	96.95	Al6S	ATOM	43097	O2	GU	1142	206.261	168.648	-13.204	1.00	97.11	Al1
ATOM	43045	N1	CYT	1140	207.422	163.336	-9.624	1.00	102.02	Al6S	ATOM	43098	C3	GU	1142	205.115	166.624	-13.937	1.00	97.11	Al1
ATOM	43046	C6	CYT	1140	207.403	164.687	-9.424	1.00	102.02	Al6S	ATOM	43099	O3	GU	1142	204.140	167.517	-14.440	1.00	97.11	Al1
ATOM	43047	C2	CYT	1140	208.489	162.740	-10.278	1.00	102.02	Al6S	ATOM	43100	P	CYT	1143	204.038	167.756	-16.020	1.00	1010.79	Al1
ATOM	43048	O2	CYT	1140	208.504	161.514	-10.396	1.00	102.02	Al6S	ATOM	43101	O1P	CYT	1143	203.101	168.889	-16.229	1.00	111.41	Al1
ATOM	43049	N3	CYT	1140	209.488	163.513	-10.755	1.00	102.02	Al6S	ATOM	43102	O2P	CYT	1143	203.769	168.449	-16.670	1.00	111.41	Al1
ATOM	43050	C4	CYT	1140	209.450	164.833	-10.579	1.00	102.02	Al6S	ATOM	43103	O5	CYT	1143	205.505	168.225	-16.432	1.00	110.79	Al1
ATOM	43051	N4	CYT	1140	210.444	165.560	-11.090	1.00	102.02	Al6S	ATOM	43104	C5	CYT	1143	205.895	169.589	-16.314	1.00	110.79	Al1
ATOM	43052	C5	CYT	1140	208.388	165.465	-9.879	1.00	102.02	Al6S	ATOM	43105	C4	CYT	1143	207.049	169.887	-17.241	1.00	110.79	Al1
ATOM	43053	C2	CYT	1140	205.896	161.296	-10.021	1.00	96.95	Al6S	ATOM	43106	O4	CYT	1143	208.226	169.162	-16.802	1.00	1010.79	Al1
ATOM	43054	O2	CYT	1140	204.519	161.367	-10.328	1.00	96.95	Al6S	ATOM	43107	C1	CYT	1143	209.042	168.859	-17.925	1.00	1010.79	Al1

ATOM	43108	N1	CYT	1143	209.252	167.404	-17.988	1.00111.41	Al6s	ATOM	43161	O1P	GUA	1146	203.708	167.344	-31.466	1.0098.17	Ai
ATOM	43109	C6	CYT	1143	208.291	166.531	-17.560	1.00111.41	Al6s	ATOM	43162	O2P	GUA	1146	203.889	166.518	-29.056	1.0098.17	Ai
ATOM	43110	C2	CYT	1143	210.453	166.925	-18.521	1.00111.41	Al6s	ATOM	43163	O5*	GUA	1146	204.295	164.970	-30.981	1.00106.31	Ai
ATOM	43111	O2	CYT	1143	211.320	167.739	-18.869	1.00111.41	Al6s	ATOM	43164	C5*	GUA	1146	204.949	164.589	-32.181	1.00106.31	Ai
ATOM	43112	N3	CYT	1143	210.640	165.591	-18.641	1.00111.41	Al6s	ATOM	43165	C4*	GUA	1146	205.175	163.100	-32.198	1.00106.31	Ai
ATOM	43113	C4	CYT	1143	209.687	164.748	-18.241	1.00111.41	Al6s	ATOM	43166	O4*	GUA	1146	206.132	162.727	-31.166	1.00106.31	Ai
ATOM	43114	N4	CYT	1143	209.908	163.442	-18.394	1.00111.41	Al6s	ATOM	43167	C1*	GUA	1146	205.800	161.448	-30.654	1.00106.31	Ai
ATOM	43115	C5	CYT	1143	208.464	165.208	-17.669	1.00111.41	Al6s	ATOM	43168	N9	GUA	1146	205.436	161.568	-29.248	1.0098.17	Ai
ATOM	43116	C2*	CYT	1143	208.317	169.374	-19.171	1.00110.79	Al6s	ATOM	43169	C4	GUA	1146	205.223	160.565	-28.355	1.0098.17	Ai
ATOM	43117	O2*	CYT	1143	206.876	169.439	-18.682	1.00110.79	Al6s	ATOM	43170	N3	GUA	1146	205.331	159.245	-28.620	1.0098.17	Ai
ATOM	43119	O3*	CYT	1143	206.122	170.372	-19.440	1.00110.79	Al6s	ATOM	43171	C2	GUA	1146	205.051	158.501	-27.564	1.0098.17	Ai
ATOM	43120	P	CYT	1144	205.340	169.878	-20.752	1.00105.40	Al6s	ATOM	43172	N2	GUA	1146	205.114	157.169	-27.655	1.0098.17	Ai
ATOM	43121	O1P	CYT	1144	204.444	170.984	-21.176	1.00126.64	Al6s	ATOM	43173	N1	GUA	1146	204.688	159.010	-26.341	1.0098.17	Ai
ATOM	43122	O2P	CYT	1144	204.768	168.539	-20.462	1.00126.64	Al6s	ATOM	43174	C6	GUA	1146	204.566	160.366	-26.041	1.0098.17	Ai
ATOM	43123	O5*	CYT	1144	206.481	169.709	-21.853	1.00105.40	Al6s	ATOM	43175	O6	GUA	1146	204.225	160.718	-24.902	1.0098.17	Ai
ATOM	43124	C5*	CYT	1144	207.104	170.848	-22.442	1.00105.40	Al6s	ATOM	43176	C5	GUA	1146	204.871	161.180	-27.172	1.0098.17	Ai
ATOM	43125	C4*	CYT	1144	208.128	170.416	-23.467	1.00105.40	Al6s	ATOM	43177	N7	GUA	1146	205.215	162.756	-28.560	1.0098.17	Ai
ATOM	43126	O4*	CYT	1144	209.192	169.678	-22.812	1.00105.40	Al6s	ATOM	43178	C8	GUA	1146	204.607	160.942	-31.469	1.00106.31	Ai
ATOM	43127	C1*	CYT	1144	209.691	168.678	-23.635	1.00105.40	Al6s	ATOM	43179	C2*	GUA	1146	205.056	160.205	-32.589	1.00106.31	Ai
ATOM	43128	N1	CYT	1144	209.530	167.365	-23.056	1.00126.64	Al6s	ATOM	43180	O2*	GUA	1146	203.962	162.262	-31.852	1.00106.31	Ai
ATOM	43129	C6	CYT	1144	208.786	167.226	-21.918	1.00126.64	Al6s	ATOM	43181	C3*	GUA	1146	201.488	162.034	-32.626	1.00118.85	Ai
ATOM	43130	C2	CYT	1144	210.151	166.255	-23.633	1.00126.64	Al6s	ATOM	43182	O3*	GUA	1146	203.058	162.143	-32.933	1.00106.31	Ai
ATOM	43131	O2	CYT	1144	210.817	166.411	-24.666	1.00126.64	Al6s	ATOM	43183	P	CYT	1147	201.488	162.034	-32.626	1.00118.85	Ai
ATOM	43132	N3	CYT	1144	210.008	165.043	-23.054	1.00126.64	Al6s	ATOM	43184	O1P	CYT	1147	200.759	162.813	-33.879	1.0079.74	Ai
ATOM	43133	C4	CYT	1144	209.280	164.918	-21.943	1.00126.64	Al6s	ATOM	43185	O2P	CYT	1147	201.213	162.813	-33.393	1.0079.74	Ai
ATOM	43134	N4	CYT	1144	209.166	163.705	-21.403	1.00126.64	Al6s	ATOM	43186	O5*	CYT	1147	201.286	160.494	-32.278	1.00118.85	Ai
ATOM	43135	C5	CYT	1144	208.636	166.032	-21.335	1.00126.64	Al6s	ATOM	43187	C5*	CYT	1147	201.653	159.492	-33.216	1.00118.85	Ai
ATOM	43136	C2*	CYT	1144	208.917	168.799	-25.009	1.00105.40	Al6s	ATOM	43188	C4*	CYT	1147	201.478	158.120	-32.613	1.00118.85	Ai
ATOM	43137	O2*	CYT	1144	209.649	169.590	-25.921	1.00105.40	Al6s	ATOM	43189	O4*	CYT	1147	202.464	157.915	-31.565	1.00118.85	Ai
ATOM	43138	C3*	CYT	1144	207.629	169.466	-24.542	1.00105.40	Al6s	ATOM	43190	C1*	CYT	1147	201.901	157.115	-30.535	1.00118.85	Ai
ATOM	43139	O3*	CYT	1144	206.996	170.168	-25.604	1.00105.40	Al6s	ATOM	43191	N1	CYT	1147	201.815	157.928	-29.316	1.0079.74	Ai
ATOM	43140	P	CYT	1145	205.024	168.650	-25.821	1.0095.42	Al6s	ATOM	43192	C6	CYT	1147	201.812	159.293	-29.379	1.0079.74	Ai
ATOM	43141	O1P	CYT	1145	207.009	168.286	-27.280	1.00112.56	Al6s	ATOM	43193	C2	CYT	1147	201.722	157.277	-28.086	1.0079.74	Ai
ATOM	43142	O2P	CYT	1145	207.708	168.571	-28.483	1.00112.56	Al6s	ATOM	43194	O2	CYT	1147	201.731	156.037	-28.063	1.0079.74	Ai
ATOM	43143	O5*	CYT	1145	207.961	167.298	-29.248	1.00112.56	Al6s	ATOM	43195	N3	CYT	1147	201.620	158.010	-26.957	1.0079.74	Ai
ATOM	43144	C5*	CYT	1145	208.909	166.471	-28.521	1.00112.56	Al6s	ATOM	43196	N4	CYT	1147	201.610	159.340	-27.028	1.0079.74	Ai
ATOM	43145	C4*	CYT	1145	208.560	165.103	-28.670	1.00112.56	Al6s	ATOM	43197	C4	CYT	1147	201.706	160.031	-28.272	1.0079.74	Ai
ATOM	43146	O4*	CYT	1145	208.184	164.581	-27.350	1.0095.42	Al6s	ATOM	43198	C5	CYT	1147	200.507	156.704	-31.008	1.00118.85	Ai
ATOM	43147	C1*	CYT	1145	207.972	165.425	-26.295	1.0095.42	Al6s	ATOM	43199	C2*	CYT	1147	200.568	155.480	-31.711	1.00118.85	Ai
ATOM	43148	N1	CYT	1145	208.030	163.203	-27.192	1.0095.42	Al6s	ATOM	43200	O2*	CYT	1147	199.097	157.587	-32.797	1.00118.85	Ai
ATOM	43149	C6	CYT	1145	208.245	162.461	-28.164	1.0095.42	Al6s	ATOM	43201	C3*	CYT	1147	197.604	158.037	-32.410	1.0098.34	Ai
ATOM	43150	C2	CYT	1145	207.649	162.715	-25.990	1.0095.42	Al6s	ATOM	43202	O3*	CYT	1148	196.667	157.364	-33.347	1.00102.69	Ai
ATOM	43151	O2	CYT	1145	207.430	163.547	-24.972	1.0095.42	Al6s	ATOM	43203	P	GUA	1148	197.565	159.518	-32.265	1.00102.69	Ai
ATOM	43152	N3	CYT	1145	207.043	163.024	-23.809	1.0095.42	Al6s	ATOM	43204	O1P	GUA	1148	197.386	157.386	-30.976	1.0098.34	Ai
ATOM	43153	C4	CYT	1145	207.596	164.955	-25.101	1.0095.42	Al6s	ATOM	43205	O2P	GUA	1148	196.924	155.616	-29.423	1.0098.34	Ai
ATOM	43154	N4	CYT	1145	207.384	165.045	-29.645	1.00112.56	Al6s	ATOM	43206	O5*	GUA	1148	197.983	156.015	-28.512	1.0098.34	Ai
ATOM	43155	C5	CYT	1145	207.847	164.868	-30.968	1.00112.56	Al6s	ATOM	43207	C5*	GUA	1148	197.417	156.376	-27.261	1.0098.34	Ai
ATOM	43156	C2*	CYT	1145	206.746	166.405	-29.410	1.00112.56	Al6s	ATOM	43208	O4*	GUA	1148	197.702	157.783	-27.014	1.00102.69	Ai
ATOM	43157	O2*	CYT	1145	205.928	166.816	-30.494	1.00112.56	Al6s	ATOM	43209	C1*	GUA	1148	197.636	158.414	-25.802	1.00102.69	Ai
ATOM	43158	C3*	CYT	1145	204.359	166.476	-30.470	1.00106.31	Al6s	ATOM	43210	N9	GUA	1148	197.325	157.833	-24.627	1.00102.69	Ai
ATOM	43159	O3*	CYT	1145						ATOM	43211	C4	GUA	1148					Ai
ATOM	43160	P	GUA	1146						ATOM	43212	N3	GUA	1148					Ai
ATOM	43161	O1P	GUA	1146						ATOM	43213	N3	GUA	1148					Ai

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ATOM	43214	C2	GUA	1148	197.316	158.703	-23.633	1.00102.69	Al6s	ATOM	43267	O2' ADE	1150	193.099	156.284	-18.925	1.00	90.39	Al6s	
ATOM	43215	N2	GUA	1148	197.016	158.296	-22.339	1.00102.69	Al6s	ATOM	43268	C3' ADE	1150	194.073	157.752	-20.609	1.00	90.39	Al6s	
ATOM	43216	N1	GUA	1148	197.598	160.037	-23.778	1.00102.69	Al6s	ATOM	43269	O3' ADE	1150	194.438	158.548	-19.483	1.00	90.39	Al6s	
ATOM	43217	C6	GUA	1148	197.927	160.659	-24.978	1.00102.69	Al6s	ATOM	43270	P ADE	1151	195.966	158.586	-18.981	1.00	75.36	Al6s	
ATOM	43218	O6	GUA	1148	198.170	161.873	-24.995	1.00102.69	Al6s	ATOM	43271	O1P ADE	1151	196.002	159.449	-17.774	1.00	73.47	Al6s	
ATOM	43219	C5	GUA	1148	197.934	159.735	-26.058	1.00102.69	Al6s	ATOM	43272	O2P ADE	1151	196.845	158.903	-20.132	1.00	73.47	Al6s	
ATOM	43220	N7	GUA	1148	198.199	159.926	-27.407	1.00102.69	Al6s	ATOM	43273	O5' ADE	1151	196.270	157.094	-18.511	1.00	75.36	Al6s	
ATOM	43221	C8	GUA	1148	198.056	158.741	-27.934	1.00102.69	Al6s	ATOM	43274	C5' ADE	1151	195.974	156.682	-17.179	1.00	75.36	Al6s	
ATOM	43222	C2'	GUA	1148	195.913	156.132	-27.380	1.00	98.34	Al6s	ATOM	43275	C4' ADE	1151	196.229	155.206	-17.022	1.00	75.36	Al6s
ATOM	43223	O2'	GUA	1148	195.628	154.800	-27.000	1.00	98.34	Al6s	ATOM	43276	O4' ADE	1151	195.535	154.538	-18.103	1.00	75.36	Al6s
ATOM	43224	C3'	GUA	1148	195.714	156.342	-28.871	1.00	98.34	Al6s	ATOM	43277	C1' ADE	1151	196.308	153.450	-18.568	1.00	75.36	Al6s
ATOM	43225	O3'	GUA	1148	194.494	155.795	-29.350	1.00	98.34	Al6s	ATOM	43278	N9 ADE	1151	196.707	153.739	-19.943	1.00	73.47	Al6s
ATOM	43226	P ADE	1149	193.316	156.786	-29.816	1.00108.38	Al6s	ATOM	43279	C4 ADE	1151	197.017	152.815	-20.910	1.00	73.47	Al6s		
ATOM	43227	O1P ADE	1149	192.477	156.036	-30.781	1.00	83.02	Al6s	ATOM	43280	N3 ADE	1151	197.040	151.480	-20.782	1.00	73.47	Al6s	
ATOM	43228	O2P ADE	1149	193.925	158.078	-30.223	1.00	83.02	Al6s	ATOM	43281	C2 ADE	1151	197.362	150.906	-21.932	1.00	73.47	Al6s	
ATOM	43229	O5' ADE	1149	192.470	157.038	-28.490	1.00108.38	Al6s	ATOM	43282	N1 ADE	1151	197.642	151.471	-23.110	1.00	73.47	Al6s		
ATOM	43230	C5' ADE	1149	191.653	158.199	-28.344	1.00108.38	Al6s	ATOM	43283	C6 ADE	1151	197.612	152.817	-23.205	1.00	73.47	Al6s		
ATOM	43231	C4' ADE	1149	190.977	158.185	-26.992	1.00108.38	Al6s	ATOM	43284	N6 ADE	1151	197.886	153.381	-24.383	1.00	73.47	Al6s		
ATOM	43232	O4' ADE	1149	190.165	156.987	-26.910	1.00108.38	Al6s	ATOM	43285	C5 ADE	1151	197.287	153.543	-22.053	1.00	73.47	Al6s		
ATOM	43233	C1' ADE	1149	190.307	156.396	-25.634	1.00108.38	Al6s	ATOM	43286	N7 ADE	1151	197.170	154.903	-21.809	1.00	73.47	Al6s		
ATOM	43234	N9 ADE	1149	190.939	155.092	-25.823	1.00	83.02	Al6s	ATOM	43287	C8 ADE	1151	196.830	154.966	-20.544	1.00	73.47	Al6s	
ATOM	43235	C4 ADE	1149	190.942	154.053	-24.927	1.00	83.02	Al6s	ATOM	43288	C2' ADE	1151	197.482	153.306	-17.608	1.00	75.36	Al6s	
ATOM	43236	N3 ADE	1149	190.398	154.039	-23.700	1.00	83.02	Al6s	ATOM	43289	O2' ADE	1151	197.088	152.473	-16.538	1.00	75.36	Al6s	
ATOM	43237	C2 ADE	1149	190.573	152.853	-23.129	1.00	83.02	Al6s	ATOM	43290	C3' ADE	1151	197.671	154.748	-17.170	1.00	75.36	Al6s	
ATOM	43238	N1 ADE	1149	191.183	151.763	-23.608	1.00	83.02	Al6s	ATOM	43291	O3' ADE	1151	198.372	154.804	-15.932	1.00	75.36	Al6s	
ATOM	43239	C6 ADE	1149	191.720	151.812	-24.844	1.00	83.02	Al6s	ATOM	43292	P ADE	1152	199.858	155.427	-15.876	1.00	84.17	Al6s	
ATOM	43240	N6 ADE	1149	192.325	150.723	-25.318	1.00	83.02	Al6s	ATOM	43293	O1P ADE	1152	200.430	155.035	-14.560	1.00	74.98	Al6s	
ATOM	43241	C5 ADE	1149	191.606	153.016	-25.555	1.00	83.02	Al6s	ATOM	43294	O2P ADE	1152	199.783	156.865	-16.244	1.00	74.98	Al6s	
ATOM	43242	N7 ADE	1149	192.038	153.402	-26.816	1.00	83.02	Al6s	ATOM	43295	O5' ADE	1152	200.669	154.681	-17.030	1.00	84.17	Al6s	
ATOM	43243	C8 ADE	1149	191.622	154.639	-26.925	1.00	83.02	Al6s	ATOM	43296	C5' ADE	1152	200.869	153.273	-16.996	1.00	84.17	Al6s	
ATOM	43244	C2' ADE	1149	191.106	157.362	-24.759	1.00108.38	Al6s	ATOM	43297	O4' ADE	1152	201.013	152.727	-18.401	1.00	84.17	Al6s		
ATOM	43245	O2' ADE	1149	190.243	158.212	-24.032	1.00108.38	Al6s	ATOM	43298	C4' ADE	1152	200.000	153.348	-19.242	1.00	84.17	Al6s		
ATOM	43246	C3' ADE	1149	191.925	158.107	-25.803	1.00108.38	Al6s	ATOM	43299	C1' ADE	1152	200.480	153.458	-20.573	1.00	84.17	Al6s		
ATOM	43247	O3' ADE	1149	192.276	159.405	-25.340	1.00108.38	Al6s	ATOM	43300	N9 ADE	1152	200.489	154.868	-20.949	1.00	74.98	Al6s		
ATOM	43248	P ADE	1150	193.728	159.651	-24.701	1.00	90.39	Al6s	ATOM	43301	C4 ADE	1152	200.701	155.371	-22.210	1.00	74.98	Al6s	
ATOM	43249	O1P ADE	1150	193.870	161.098	-24.399	1.00	78.30	Al6s	ATOM	43302	N3 ADE	1152	200.961	154.646	-23.320	1.00	74.98	Al6s	
ATOM	43250	O2P ADE	1150	194.704	158.989	-25.604	1.00	78.30	Al6s	ATOM	43303	C2 ADE	1152	201.110	155.415	-24.389	1.00	74.98	Al6s	
ATOM	43251	O5' ADE	1150	193.690	158.872	-23.311	1.00	90.39	Al6s	ATOM	43304	N2 ADE	1152	201.386	154.859	-25.580	1.00	74.98	Al6s	
ATOM	43252	C5' ADE	1150	192.856	159.315	-22.242	1.00	90.39	Al6s	ATOM	43305	N1 ADE	1152	201.002	156.786	-24.370	1.00	74.98	Al6s	
ATOM	43253	C4' ADE	1150	192.750	158.242	-21.183	1.00	90.39	Al6s	ATOM	43306	C6 ADE	1152	200.734	157.550	-23.239	1.00	74.98	Al6s	
ATOM	43254	O4' ADE	1150	192.130	157.069	-21.765	1.00	90.39	Al6s	ATOM	43307	O6 ADE	1152	200.654	158.778	-23.332	1.00	74.98	Al6s	
ATOM	43255	C1' ADE	1150	192.760	155.899	-21.276	1.00	90.39	Al6s	ATOM	43308	C5 ADE	1152	200.583	156.738	-22.083	1.00	74.98	Al6s	
ATOM	43256	N9 ADE	1150	193.392	155.219	-22.407	1.00	78.30	Al6s	ATOM	43309	N7 ADE	1152	200.319	157.089	-20.767	1.00	74.98	Al6s	
ATOM	43257	C4 ADE	1150	193.690	153.882	-22.502	1.00	78.30	Al6s	ATOM	43310	C8 ADE	1152	200.276	155.950	-20.132	1.00	74.98	Al6s	
ATOM	43258	N3 ADE	1150	193.473	152.933	-21.579	1.00	78.30	Al6s	ATOM	43311	C2' ADE	1152	201.868	152.828	-20.595	1.00	84.17	Al6s	
ATOM	43259	C2 ADE	1150	193.888	151.752	-22.019	1.00	78.30	Al6s	ATOM	43312	O2' ADE	1152	201.735	151.463	-20.939	1.00	84.17	Al6s	
ATOM	43260	N1 ADE	1150	194.452	151.434	-23.189	1.00	78.30	Al6s	ATOM	43313	C3' ADE	1152	202.300	153.035	-19.149	1.00	84.17	Al6s	
ATOM	43261	C6 ADE	1150	194.658	152.412	-24.092	1.00	78.30	Al6s	ATOM	43314	O3' ADE	1153	203.365	152.151	-18.804	1.00	91.94	Al6s	
ATOM	43262	N6 ADE	1150	195.222	152.094	-25.258	1.00	78.30	Al6s	ATOM	43315	P ADE	1153	204.870	152.539	-19.218	1.00	91.94	Al6s	
ATOM	43263	C5 ADE	1150	194.262	153.711	-23.746	1.00	78.30	Al6s	ATOM	43316	O1P ADE	1153	205.800	151.514	-18.693	1.00	74.39	Al6s	
ATOM	43264	N7 ADE	1150	194.331	154.917	-24.425	1.00	78.30	Al6s	ATOM	43317	O2P ADE	1153	205.076	153.967	-18.872	1.00	74.39	Al6s	
ATOM	43265	C8 ADE	1150	193.805	155.777	-23.591	1.00	78.30	Al6s	ATOM	43318	O5' ADE	1153	204.863	152.428	-20.803	1.00	91.94	Al6s	
ATOM	43266	C2' ADE	1150	193.740	156.330	-20.182	1.00	90.39	Al6s	ATOM	43319	C5' ADE	1153	204.799	151.163	-21.445	1.00	91.94	Al6s	

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ATOM	43320	C4' CYT	1153	205.156	151.318	-22.896	1.00	91.94	Al6s	ATOM	43373	O6 GUA	1155	209.551	161.407	-22.478	1.00	99.18	A
ATOM	43321	O4' CYT	1153	204.141	152.121	-23.548	1.00	91.94	Al6s	ATOM	43374	C5 GUA	1155	210.670	160.362	-23.314	1.00	99.18	A
ATOM	43322	C1' CYT	1153	204.747	152.978	-24.504	1.00	91.94	Al6s	ATOM	43375	N7 GUA	1155	210.789	159.016	-23.933	1.00	99.18	A
ATOM	43323	N1 CYT	1153	204.556	154.365	-24.066	1.00	74.39	Al6s	ATOM	43376	C8 GUA	1155	211.404	158.492	-25.017	1.00	99.18	A
ATOM	43324	C6 CYT	1153	204.340	154.671	-22.748	1.00	74.39	Al6s	ATOM	43377	C2' GUA	1155	213.884	159.622	-27.074	1.00	117.92	A
ATOM	43325	C2 CYT	1153	204.611	155.379	-25.028	1.00	74.39	Al6s	ATOM	43378	O2' GUA	1155	214.367	160.202	-28.270	1.00	117.92	A
ATOM	43326	O2 CYT	1153	204.798	155.062	-26.218	1.00	74.39	Al6s	ATOM	43379	C3' GUA	1155	214.548	158.300	-26.710	1.00	117.92	A
ATOM	43327	N3 CYT	1153	204.459	156.673	-24.638	1.00	74.39	Al6s	ATOM	43380	O3' GUA	1155	215.943	158.341	-26.962	1.00	117.92	A
ATOM	43328	C4 CYT	1153	204.255	156.961	-23.347	1.00	74.39	Al6s	ATOM	43381	P GUA	1156	216.927	158.951	-25.845	1.00	117.92	A
ATOM	43329	N4 CYT	1153	204.113	158.245	-23.008	1.00	74.39	Al6s	ATOM	43382	O1P GUA	1156	218.303	158.892	-26.399	1.00	114.69	A
ATOM	43330	C5 CYT	1153	204.187	155.943	-22.348	1.00	74.39	Al6s	ATOM	43383	O2P GUA	1156	216.629	160.485	-24.553	1.00	114.69	A
ATOM	43331	C2' CYT	1153	206.227	152.615	-24.545	1.00	91.94	Al6s	ATOM	43384	O5' GUA	1156	216.497	160.485	-25.731	1.00	110.27	A
ATOM	43332	O2' CYT	1153	206.450	151.608	-25.508	1.00	91.94	Al6s	ATOM	43385	C5' GUA	1156	216.802	161.409	-26.773	1.00	110.27	A
ATOM	43333	C3' CYT	1153	206.425	152.113	-23.129	1.00	91.94	Al6s	ATOM	43386	C4' GUA	1156	216.386	162.815	-26.388	1.00	110.27	A
ATOM	43334	O3' CYT	1153	207.584	151.318	-22.997	1.00	91.94	Al6s	ATOM	43387	O4' GUA	1156	214.943	162.875	-26.213	1.00	110.27	A
ATOM	43335	P GUA	1154	208.971	152.025	-22.628	1.00	96.88	Al6s	ATOM	43388	C1' GUA	1156	214.623	163.877	-25.254	1.00	110.27	A
ATOM	43336	O1P GUA	1154	209.950	150.939	-22.376	1.00	92.20	Al6s	ATOM	43389	N9 GUA	1156	213.976	163.242	-24.111	1.00	114.69	A
ATOM	43337	O2P GUA	1154	208.720	153.052	-21.579	1.00	92.20	Al6s	ATOM	43390	C4 GUA	1156	213.411	163.892	-23.038	1.00	114.69	A
ATOM	43338	O5' GUA	1154	209.358	152.771	-23.980	1.00	96.88	Al6s	ATOM	43391	N3 GUA	1156	213.324	165.229	-22.877	1.00	114.69	A
ATOM	43339	C5' GUA	1154	209.549	152.037	-25.185	1.00	96.88	Al6s	ATOM	43392	C2 GUA	1156	212.748	165.552	-21.732	1.00	114.69	A
ATOM	43340	C4' GUA	1154	209.862	152.976	-26.322	1.00	96.88	Al6s	ATOM	43393	N2 GUA	1156	212.581	166.839	-21.409	1.00	114.69	A
ATOM	43341	O4' GUA	1154	208.682	153.744	-26.663	1.00	96.88	Al6s	ATOM	43394	N1 GUA	1156	212.293	164.637	-20.819	1.00	114.69	A
ATOM	43342	C1' GUA	1154	209.068	155.039	-27.094	1.00	92.20	Al6s	ATOM	43395	C6 GUA	1156	212.370	163.256	-20.964	1.00	114.69	A
ATOM	43343	N9 GUA	1154	208.465	156.018	-26.199	1.00	92.20	Al6s	ATOM	43396	O5 GUA	1156	211.930	162.519	-20.076	1.00	114.69	A
ATOM	43344	C4 GUA	1154	208.297	157.350	-26.461	1.00	92.20	Al6s	ATOM	43397	C6 GUA	1156	212.984	162.893	-22.190	1.00	114.69	A
ATOM	43345	N3 GUA	1154	208.630	157.976	-27.607	1.00	92.20	Al6s	ATOM	43398	N7 GUA	1156	213.254	161.641	-22.726	1.00	114.69	A
ATOM	43346	C2 GUA	1154	208.365	159.269	-27.555	1.00	92.20	Al6s	ATOM	43399	C8 GUA	1156	213.836	161.897	-23.867	1.00	114.69	A
ATOM	43347	N2 GUA	1154	208.621	160.049	-28.617	1.00	92.20	Al6s	ATOM	43400	C2' GUA	1156	215.940	164.521	-24.823	1.00	110.27	A
ATOM	43348	N1 GUA	1154	207.827	159.896	-26.459	1.00	92.20	Al6s	ATOM	43401	O2' GUA	1156	216.180	165.676	-25.601	1.00	110.27	A
ATOM	43349	C6 GUA	1154	207.481	159.269	-25.268	1.00	92.20	Al6s	ATOM	43402	C3' GUA	1156	216.919	163.379	-25.079	1.00	110.27	A
ATOM	43350	O6 GUA	1154	207.014	159.931	-24.339	1.00	92.20	Al6s	ATOM	43403	O3' GUA	1156	218.265	163.839	-25.180	1.00	110.27	A
ATOM	43351	C5 GUA	1154	207.745	157.882	-25.316	1.00	92.20	Al6s	ATOM	43404	P ADE	1157	219.141	164.051	-23.843	1.00	104.31	A
ATOM	43352	N7 GUA	1154	207.547	156.895	-24.361	1.00	92.20	Al6s	ATOM	43405	O1P ADE	1157	220.498	164.473	-24.272	1.00	102.46	A
ATOM	43353	C8 GUA	1154	207.983	155.805	-24.930	1.00	92.20	Al6s	ATOM	43406	O2P ADE	1157	218.989	162.870	-22.953	1.00	102.46	A
ATOM	43354	C2' GUA	1154	210.596	155.108	-27.042	1.00	96.88	Al6s	ATOM	43407	O5' ADE	1157	218.458	165.302	-23.136	1.00	104.31	A
ATOM	43355	O2' GUA	1154	211.146	154.856	-28.320	1.00	96.88	Al6s	ATOM	43408	C5' ADE	1157	218.470	166.581	-23.761	1.00	104.31	A
ATOM	43356	C3' GUA	1154	210.909	154.029	-26.013	1.00	96.88	Al6s	ATOM	43409	C4' ADE	1157	216.961	167.632	-22.808	1.00	104.31	A
ATOM	43357	O3' GUA	1154	212.222	153.508	-26.149	1.00	96.88	Al6s	ATOM	43410	O4' ADE	1157	216.561	167.389	-22.523	1.00	104.31	A
ATOM	43358	P GUA	1155	213.420	154.162	-25.307	1.00	117.92	Al6s	ATOM	43411	C1' ADE	1157	216.281	167.747	-21.180	1.00	104.31	A
ATOM	43359	O1P GUA	1155	214.644	153.407	-25.671	1.00	99.18	Al6s	ATOM	43412	N9 ADE	1157	215.772	166.563	-20.488	1.00	102.46	A
ATOM	43360	O2P GUA	1155	213.012	154.250	-23.881	1.00	99.18	Al6s	ATOM	43413	C4 ADE	1157	215.048	166.554	-19.321	1.00	102.46	A
ATOM	43361	O5' GUA	1155	213.521	155.643	-25.893	1.00	117.92	Al6s	ATOM	43414	N3 ADE	1157	214.660	167.617	-18.594	1.00	102.46	A
ATOM	43362	C5' GUA	1155	213.883	155.859	-27.254	1.00	117.92	Al6s	ATOM	43415	C2 ADE	1157	213.984	167.225	-17.517	1.00	102.46	A
ATOM	43363	C4' GUA	1155	213.806	157.328	-27.671	1.00	117.92	Al6s	ATOM	43416	N1 ADE	1157	213.674	165.985	-17.115	1.00	102.46	A
ATOM	43364	O4' GUA	1155	212.432	157.794	-27.525	1.00	117.92	Al6s	ATOM	43417	C6 ADE	1157	214.078	164.941	-17.872	1.00	102.46	A
ATOM	43365	C1' GUA	1155	212.427	159.188	-27.236	1.00	117.92	Al6s	ATOM	43418	N6 ADE	1157	213.771	163.707	-17.473	1.00	102.46	A
ATOM	43366	N9 GUA	1155	211.708	159.414	-25.989	1.00	99.18	Al6s	ATOM	43419	C5 ADE	1157	214.803	165.223	-19.039	1.00	102.46	A
ATOM	43367	C4 GUA	1155	211.226	160.621	-25.546	1.00	99.18	Al6s	ATOM	43420	N7 ADE	1157	215.353	164.405	-20.016	1.00	102.46	A
ATOM	43368	N3 GUA	1155	211.309	161.797	-26.204	1.00	99.18	Al6s	ATOM	43421	C8 ADE	1157	215.914	165.246	-20.849	1.00	102.46	A
ATOM	43369	C2 GUA	1155	210.762	162.786	-25.518	1.00	99.18	Al6s	ATOM	43422	C2' ADE	1157	217.573	168.302	-20.571	1.00	104.31	A
ATOM	43370	N2 GUA	1155	210.746	164.029	-26.025	1.00	99.18	Al6s	ATOM	43423	O2' ADE	1157	217.587	169.712	-20.665	1.00	104.31	A
ATOM	43371	N1 GUA	1155	210.186	162.633	-24.283	1.00	99.18	Al6s	ATOM	43424	C3' ADE	1157	218.633	167.646	-21.446	1.00	104.31	A
ATOM	43372	C6 GUA	1155	210.091	161.433	-23.588	1.00	99.18	Al6s	ATOM	43425	O3' ADE	1157	219.828	168.414	-21.492	1.00	104.31	A

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ATOM	43426	P	GUA	1158	221.042	168.059	-20.500	1.00	88.47	Al6S	ATOM	43479	C1' ADE	1160	224.187	161.998	-8.298	1.00	85.77	Al
ATOM	43427	O1P GUA	1158	222.186	168.934	-20.867	1.00	91.31	Al6S	ATOM	43480	N9 ADE	1160	222.966	162.581	-7.746	1.00	79.05	Al	
ATOM	43428	O2P GUA	1158	221.218	166.583	-20.507	1.00	91.31	Al6S	ATOM	43481	C4 ADE	1160	222.018	161.941	-6.985	1.00	79.05	Al	
ATOM	43429	O5' GUA	1158	220.520	168.525	-19.065	1.00	88.47	Al6S	ATOM	43482	N3 ADE	1160	222.011	160.653	-6.603	1.00	79.05	Al	
ATOM	43430	C5' GUA	1158	220.210	169.896	-18.813	1.00	88.47	Al6S	ATOM	43483	C2 ADE	1160	220.946	160.396	-5.853	1.00	79.05	Al	
ATOM	43431	C4' GUA	1158	219.317	170.017	-17.603	1.00	88.47	Al6S	ATOM	43484	N1 ADE	1160	219.962	161.216	-5.471	1.00	79.05	Al	
ATOM	43432	O4' GUA	1158	218.100	169.268	-17.847	1.00	88.47	Al6S	ATOM	43485	C6 ADE	1160	220.001	162.502	-5.874	1.00	79.05	Al	
ATOM	43433	C1' GUA	1158	217.676	168.643	-16.649	1.00	88.47	Al6S	ATOM	43486	N6 ADE	1160	219.024	163.320	-5.487	1.00	79.05	Al	
ATOM	43434	N9 GUA	1158	217.724	167.201	-16.844	1.00	91.31	Al6S	ATOM	43487	C5 ADE	1160	221.075	162.900	-6.675	1.00	79.05	Al	
ATOM	43435	C4 GUA	1158	217.050	166.266	-16.106	1.00	91.31	Al6S	ATOM	43488	N7 ADE	1160	221.411	164.118	-7.242	1.00	79.05	Al	
ATOM	43436	N3 GUA	1158	216.197	166.526	-15.057	1.00	91.31	Al6S	ATOM	43489	C8 ADE	1160	222.537	163.874	-7.867	1.00	79.05	Al	
ATOM	43437	C2 GUA	1158	215.729	165.426	-14.554	1.00	91.31	Al6S	ATOM	43490	C2' ADE	1160	223.953	161.243	-9.606	1.00	85.77	Al	
ATOM	43438	N2 GUA	1158	214.870	165.499	-13.524	1.00	91.31	Al6S	ATOM	43491	O2' ADE	1160	224.927	160.228	-9.746	1.00	85.77	Al	
ATOM	43439	N1 GUA	1158	216.070	164.156	-14.973	1.00	91.31	Al6S	ATOM	43492	C3' ADE	1160	224.145	162.359	-10.617	1.00	85.77	Al	
ATOM	43440	C6 GUA	1158	216.946	163.865	-16.012	1.00	91.31	Al6S	ATOM	43493	O3' ADE	1160	224.476	161.858	-11.893	1.00	85.77	Al	
ATOM	43441	O6 GUA	1158	217.192	162.691	-16.300	1.00	91.31	Al6S	ATOM	43494	P ADE	1161	223.321	161.677	-12.983	1.00	80.48	Al	
ATOM	43442	C5 GUA	1158	217.453	165.045	-16.604	1.00	91.31	Al6S	ATOM	43495	O1P ADE	1161	223.937	161.055	-14.181	1.00	89.49	Al	
ATOM	43443	N7 GUA	1158	218.341	165.212	-17.656	1.00	91.31	Al6S	ATOM	43496	O2P ADE	1161	222.599	162.968	-13.112	1.00	89.49	Al	
ATOM	43444	C8 GUA	1158	218.467	166.507	-17.768	1.00	91.31	Al6S	ATOM	43497	O5' ADE	1161	222.340	160.612	-12.322	1.00	80.48	Al	
ATOM	43445	C2' GUA	1158	218.627	169.078	-15.534	1.00	88.47	Al6S	ATOM	43498	C5' ADE	1161	222.771	159.278	-12.081	1.00	80.48	Al	
ATOM	43446	O2' GUA	1158	218.097	170.171	-14.819	1.00	88.47	Al6S	ATOM	43499	C4' ADE	1161	221.717	158.528	-11.309	1.00	80.48	Al	
ATOM	43447	C3' GUA	1158	219.881	169.424	-16.323	1.00	88.47	Al6S	ATOM	43500	O4' ADE	1161	221.519	159.176	-10.028	1.00	80.48	Al	
ATOM	43448	O3' GUA	1158	220.658	170.383	-15.628	1.00	88.47	Al6S	ATOM	43501	C1' ADE	1161	220.148	159.154	-9.693	1.00	80.48	Al	
ATOM	43449	P GUA	1159	221.976	169.918	-14.848	1.00	88.47	Al6S	ATOM	43502	N9 ADE	1161	219.705	160.537	-9.581	1.00	89.49	Al	
ATOM	43450	O1P GUA	1159	222.415	171.060	-14.013	1.00	94.19	Al6S	ATOM	43503	C4 ADE	1161	218.650	160.995	-8.837	1.00	89.49	Al	
ATOM	43451	O2P GUA	1159	222.914	169.319	-15.838	1.00	94.19	Al6S	ATOM	43504	N3 ADE	1161	217.809	160.267	-8.089	1.00	89.49	Al	
ATOM	43452	O5' GUA	1159	221.468	168.783	-13.856	1.00	94.19	Al6S	ATOM	43505	C2 ADE	1161	216.915	161.046	-7.500	1.00	89.49	Al	
ATOM	43453	C5' GUA	1159	220.980	169.118	-12.562	1.00	94.19	Al6S	ATOM	43506	N1 ADE	1161	216.778	162.376	-7.566	1.00	89.49	Al	
ATOM	43454	C4' GUA	1159	220.549	167.872	-11.822	1.00	94.19	Al6S	ATOM	43507	C6 ADE	1161	217.645	163.077	-8.324	1.00	89.49	Al	
ATOM	43455	O4' GUA	1159	219.517	167.194	-12.594	1.00	94.19	Al6S	ATOM	43508	N6 ADE	1161	217.517	164.401	-8.383	1.00	89.49	Al	
ATOM	43456	C1' GUA	1159	219.639	165.790	-12.423	1.00	94.19	Al6S	ATOM	43509	C5 ADE	1161	218.636	162.364	-9.005	1.00	89.49	Al	
ATOM	43457	N9 GUA	1159	220.014	165.201	-13.703	1.00	94.19	Al6S	ATOM	43510	N7 ADE	1161	219.654	162.764	-9.856	1.00	89.49	Al	
ATOM	43458	C4 GUA	1159	219.804	163.902	-14.085	1.00	94.19	Al6S	ATOM	43511	C8 ADE	1161	220.256	161.644	-10.170	1.00	89.49	Al	
ATOM	43459	N3 GUA	1159	219.164	162.961	-13.363	1.00	94.19	Al6S	ATOM	43512	C2' ADE	1161	219.414	158.346	-10.767	1.00	80.48	Al	
ATOM	43460	C2 GUA	1159	219.130	161.799	-13.986	1.00	94.19	Al6S	ATOM	43513	O2' ADE	1161	219.301	156.997	-10.365	1.00	80.48	Al	
ATOM	43461	N2 GUA	1159	218.507	160.755	-13.413	1.00	94.19	Al6S	ATOM	43514	C3' ADE	1161	220.343	158.501	-11.962	1.00	80.48	Al	
ATOM	43462	N1 GUA	1159	219.700	161.575	-15.216	1.00	94.19	Al6S	ATOM	43515	O3' ADE	1161	220.254	157.371	-12.821	1.00	80.48	Al	
ATOM	43463	C6 GUA	1159	220.371	162.529	-15.974	1.00	94.19	Al6S	ATOM	43516	P GUA	1162	219.399	157.457	-14.171	1.00	113.25	Al	
ATOM	43464	O6 GUA	1159	220.859	162.218	-17.064	1.00	94.19	Al6S	ATOM	43517	O1P GUA	1162	219.702	156.227	-14.931	1.00	94.34	Al	
ATOM	43465	C5 GUA	1159	220.393	163.785	-15.324	1.00	94.19	Al6S	ATOM	43518	O2P GUA	1162	219.610	158.777	-14.797	1.00	94.34	Al	
ATOM	43466	N7 GUA	1159	220.933	164.997	-15.728	1.00	94.19	Al6S	ATOM	43519	O5' GUA	1162	217.897	157.365	-13.671	1.00	113.25	Al	
ATOM	43467	C8 GUA	1159	220.677	165.809	-14.739	1.00	94.19	Al6S	ATOM	43520	C5' GUA	1162	217.523	156.358	-12.751	1.00	113.25	Al	
ATOM	43468	C2' GUA	1159	220.747	165.566	-11.394	1.00	111.88	Al6S	ATOM	43521	C4' GUA	1162	216.028	156.246	-12.687	1.00	113.25	Al	
ATOM	43469	O2' GUA	1159	220.199	165.527	-10.092	1.00	111.88	Al6S	ATOM	43522	O4' GUA	1162	215.484	157.723	-12.203	1.00	113.25	Al	
ATOM	43470	C3' GUA	1159	221.608	166.796	-11.630	1.00	111.88	Al6S	ATOM	43523	C1' GUA	1162	214.226	157.723	-12.806	1.00	113.25	Al	
ATOM	43471	O3' GUA	1159	222.456	167.062	-10.520	1.00	111.88	Al6S	ATOM	43524	N9 GUA	1162	214.294	158.989	-13.520	1.00	94.34	Al	
ATOM	43472	P ADE	1160	224.031	166.763	-10.639	1.00	85.77	Al6S	ATOM	43525	C4 GUA	1162	213.449	160.051	-13.348	1.00	94.34	Al	
ATOM	43473	O1P ADE	1160	224.732	167.507	-9.558	1.00	79.05	Al6S	ATOM	43526	N3 GUA	1162	212.383	160.086	-12.526	1.00	94.34	Al	
ATOM	43474	O2P ADE	1160	224.433	166.967	-12.060	1.00	79.05	Al6S	ATOM	43527	C2 GUA	1162	211.774	161.256	-12.562	1.00	94.34	Al	
ATOM	43475	O5' ADE	1160	224.173	165.213	-10.304	1.00	85.77	Al6S	ATOM	43528	N2 GUA	1162	210.679	161.454	-11.827	1.00	94.34	Al	
ATOM	43476	C5' ADE	1160	225.422	164.553	-10.467	1.00	85.77	Al6S	ATOM	43529	N1 GUA	1162	212.188	162.314	-13.327	1.00	94.34	Al	
ATOM	43477	C4' ADE	1160	225.312	163.116	-10.024	1.00	85.77	Al6S	ATOM	43530	C6 GUA	1162	213.281	162.297	-14.181	1.00	94.34	Al	
ATOM	43478	O4' ADE	1160	225.076	163.060	-8.592	1.00	85.77	Al6S	ATOM	43531	O6 GUA	1162	213.566	163.305	-14.832	1.00	94.34	Al	

ATOM	43532	C5	GU	1162	213.936	161.041	-14.167	1.00	94.34	3585	OLP	GU	1165	213.675	151.586	-8.758	1.00	60.91	A.
ATOM	43533	N7	GU	1162	215.047	160.597	-14.868	1.00	94.34	43586	O2P	GU	1165	212.493	153.687	-7.875	1.00	60.91	A.
ATOM	43534	C8	GU	1162	215.218	159.370	-14.458	1.00	94.34	43587	O5'	GU	1165	214.150	153.809	-9.741	1.00	60.92	A.
ATOM	43535	C2'	GU	1162	213.916	156.517	-13.691	1.00	113.25	43588	C5'	GU	1165	214.774	153.378	-10.947	1.00	60.62	A.
ATOM	43536	O2'	GU	1162	213.192	155.588	-12.906	1.00	113.25	43589	C4'	GU	1165	216.249	153.114	-10.718	1.00	90.62	A.
ATOM	43537	C3'	GU	1162	215.316	156.015	-14.009	1.00	113.25	43590	O4'	GU	1165	216.831	154.249	-10.023	1.00	90.62	A.
ATOM	43538	O3'	GU	1162	215.299	154.623	-14.306	1.00	113.25	43591	C1'	GU	1165	217.861	153.806	-9.154	1.00	90.62	A.
ATOM	43539	P	GU	1163	214.733	154.116	-15.717	1.00	84.64	43592	N9	GU	1165	217.484	154.168	-7.793	1.00	60.91	A.
ATOM	43540	O1P	GU	1163	215.273	152.754	-15.937	1.00	146.40	43593	C4	GU	1165	218.220	153.972	-6.651	1.00	60.91	A.
ATOM	43541	O2P	GU	1163	214.982	155.179	-16.723	1.00	146.40	43594	N3	GU	1165	219.447	153.428	-6.585	1.00	60.91	A.
ATOM	43542	O5'	GU	1163	213.160	154.014	-15.494	1.00	84.64	43595	C2	GU	1165	219.892	153.361	-5.343	1.00	60.91	A.
ATOM	43543	C5'	GU	1163	212.620	153.380	-14.339	1.00	84.64	43596	N2	GU	1165	221.099	152.846	-5.098	1.00	60.91	A.
ATOM	43544	C4'	GU	1163	211.191	153.816	-14.132	1.00	84.64	43597	N1	GU	1165	219.187	153.789	-4.250	1.00	60.91	A.
ATOM	43545	O4'	GU	1163	211.162	155.264	-14.086	1.00	84.64	43598	C6	GU	1165	217.917	154.349	-4.292	1.00	60.91	A.
ATOM	43546	C1'	GU	1163	209.999	155.746	-14.724	1.00	84.64	43599	O6	GU	1165	217.359	154.693	-3.242	1.00	60.91	A.
ATOM	43547	N9	GU	1163	210.392	156.783	-15.677	1.00	146.40	43600	C5	GU	1165	217.432	154.436	-5.624	1.00	60.91	A.
ATOM	43548	C4	GU	1163	210.138	156.827	-17.030	1.00	146.40	43601	N7	GU	1165	216.234	154.939	-6.113	1.00	60.91	A.
ATOM	43549	N3	GU	1163	209.468	155.897	-17.747	1.00	146.40	43602	C8	GU	1165	216.311	154.762	-7.402	1.00	60.91	A.
ATOM	43550	N3	GU	1163	209.388	156.222	-19.030	1.00	146.40	43603	C2'	GU	1165	218.001	152.298	-9.357	1.00	90.62	A.
ATOM	43551	N2	GU	1163	208.755	155.406	-19.891	1.00	146.40	43604	O2'	GU	1165	218.989	152.049	-10.336	1.00	90.62	A.
ATOM	43552	N1	GU	1163	209.921	157.370	-19.564	1.00	146.40	43605	C3'	GU	1165	216.603	151.930	-9.834	1.00	90.62	A.
ATOM	43553	C6	GU	1163	210.614	158.342	-18.847	1.00	146.40	43606	O3'	GU	1165	216.630	150.732	-10.600	1.00	90.62	A.
ATOM	43554	O6	GU	1163	211.054	159.343	-19.430	1.00	146.40	43607	P	GU	1166	216.320	149.323	-9.891	1.00	60.81	A.
ATOM	43555	C5	GU	1163	210.709	158.005	-17.469	1.00	146.40	43608	O1P	GU	1166	216.220	148.313	-10.970	1.00	62.76	A.
ATOM	43556	N7	GU	1163	211.305	158.688	-16.418	1.00	146.40	43609	O2P	GU	1166	217.646	148.977	-9.989	1.00	60.81	A.
ATOM	43557	C8	GU	1163	211.094	157.929	-15.380	1.00	146.40	43610	O5'	GU	1166	218.796	148.532	-9.785	1.00	60.81	A.
ATOM	43558	C2'	GU	1163	208.098	154.531	-14.366	1.00	84.64	43611	C5'	GU	1166	219.884	149.181	-8.816	1.00	60.81	A.
ATOM	43559	O2'	GU	1163	210.232	153.438	-15.248	1.00	84.64	43612	C4'	GU	1166	220.351	149.378	-8.143	1.00	60.81	A.
ATOM	43560	C3'	GU	1163	209.767	152.078	-15.105	1.00	84.64	43613	O4'	GU	1166	220.690	149.061	-6.803	1.00	60.81	A.
ATOM	43561	O3'	GU	1163	208.816	151.630	-13.861	1.00	96.91	43614	C1'	GU	1166	219.736	149.735	-5.932	1.00	62.76	A.
ATOM	43562	P	ADE	1164	208.725	150.148	-13.953	1.00	87.63	43615	N9	GU	1166	219.786	149.803	-4.562	1.00	62.76	A.
ATOM	43563	O1P	ADE	1164	207.567	152.426	-13.762	1.00	87.63	43616	C4	GU	1166	220.752	149.285	-3.780	1.00	62.76	A.
ATOM	43564	O2P	ADE	1164	209.682	151.920	-12.563	1.00	96.91	43618	C2	GU	1166	220.518	149.499	-2.499	1.00	62.76	A.
ATOM	43565	O5'	ADE	1164	209.085	152.480	-11.409	1.00	96.91	43619	N2	GU	1166	221.384	149.056	-1.584	1.00	62.76	A.
ATOM	43566	C5'	ADE	1164	209.663	151.848	-10.172	1.00	96.91	43620	N1	GU	1166	219.419	150.166	-2.023	1.00	62.76	A.
ATOM	43567	C4'	ADE	1164	209.039	150.571	-9.918	1.00	96.91	43621	C6	GU	1166	218.412	150.708	-2.811	1.00	62.76	A.
ATOM	43568	O4'	ADE	1164	209.918	149.777	-9.148	1.00	96.91	43622	O6	GU	1166	217.458	151.286	-2.279	1.00	62.76	A.
ATOM	43569	C1'	ADE	1164	209.845	148.394	-8.619	1.00	87.63	43623	C5	GU	1166	218.656	150.491	-4.189	1.00	62.76	A.
ATOM	43570	N9	ADE	1164	209.532	147.309	-8.835	1.00	87.63	43624	C5	GU	1166	217.921	150.870	-5.303	1.00	62.76	A.
ATOM	43571	C4	ADE	1164	209.237	147.310	-7.524	1.00	87.63	43625	N7	GU	1166	218.601	150.402	-6.313	1.00	62.76	A.
ATOM	43572	N3	ADE	1164	208.994	146.072	-7.095	1.00	87.63	43626	C8	GU	1166	220.566	147.542	-6.679	1.00	60.81	A.
ATOM	43573	C2	ADE	1164	209.013	144.921	-7.776	1.00	87.63	43627	O2'	GU	1166	221.777	146.924	-7.075	1.00	60.81	A.
ATOM	43574	N1	ADE	1164	209.312	144.955	-9.091	1.00	87.63	43628	C3'	GU	1166	219.459	147.271	-7.680	1.00	60.81	A.
ATOM	43575	C6	ADE	1164	209.336	143.806	-9.767	1.00	87.63	43629	O3'	GU	1166	219.445	145.931	-8.095	1.00	60.81	A.
ATOM	43576	N6	ADE	1164	209.586	146.209	-9.669	1.00	87.63	43630	P	GU	1167	218.408	144.916	-7.430	1.00	57.85	A.
ATOM	43577	C5	ADE	1164	209.919	146.591	-10.962	1.00	87.63	43631	O1P	GU	1167	218.531	143.633	-8.165	1.00	61.50	A.
ATOM	43578	N7	ADE	1164	210.061	147.894	-10.879	1.00	87.63	43632	O2P	GU	1167	217.108	144.725	-7.375	1.00	61.50	A.
ATOM	43579	C8	ADE	1164	211.303	150.441	-9.150	1.00	96.91	43633	O5'	GU	1167	218.946	144.725	-5.946	1.00	57.85	A.
ATOM	43580	C2'	ADE	1164	211.586	150.893	-7.839	1.00	96.91	43634	C5'	GU	1167	220.224	144.150	-5.717	1.00	57.85	A.
ATOM	43581	O2'	ADE	1164	211.144	151.528	-10.228	1.00	96.91	43635	C4'	GU	1167	220.505	144.069	-4.240	1.00	57.85	A.
ATOM	43582	C3'	ADE	1164	211.881	152.755	-10.105	1.00	96.91	43636	O4'	GU	1167	220.658	145.404	-3.686	1.00	57.85	A.
ATOM	43583	O3'	ADE	1164	213.053	152.909	-9.015	1.00	90.62	43637	C1'	GU	1167	220.150	145.433	-2.357	1.00	57.85	A.

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ATOM	43638	N9	GUA	1167	219.035	146.372	-2.316	1.00	61.50	Al6S	ATOM	43691	C5	ADE	1169	211.700	144.145	2.806	1.00	51.48	Al6S
ATOM	43639	C4	GUA	1167	218.461	146.905	-1.192	1.00	61.50	Al6S	ATOM	43692	N7	ADE	1169	212.708	143.380	2.242	1.00	51.48	Al6S
ATOM	43640	N3	GUA	1167	218.836	146.660	0.079	1.00	61.50	Al6S	ATOM	43693	C8	ADE	1169	213.363	142.914	3.276	1.00	51.48	Al6S
ATOM	43641	C2	GUA	1167	218.100	147.329	0.950	1.00	61.50	Al6S	ATOM	43694	C2	ADE	1169	212.464	141.976	6.544	1.00	62.77	Al6S
ATOM	43642	N2	GUA	1167	218.349	147.204	2.260	1.00	61.50	Al6S	ATOM	43695	O2	ADE	1169	212.476	142.224	7.928	1.00	62.77	Al6S
ATOM	43643	N1	GUA	1167	217.072	148.169	0.598	1.00	61.50	Al6S	ATOM	43696	C3	ADE	1169	213.200	140.687	6.249	1.00	62.77	Al6S
ATOM	43644	C6	GUA	1167	216.669	148.435	-0.705	1.00	61.50	Al6S	ATOM	43697	O3	ADE	1169	212.975	139.746	7.282	1.00	62.77	Al6S
ATOM	43645	O6	GUA	1167	215.727	149.211	-0.915	1.00	61.50	Al6S	ATOM	43698	P	CYT	1170	212.029	138.490	7.002	1.00	54.99	Al6S
ATOM	43646	C5	GUA	1167	217.455	147.726	-1.649	1.00	61.50	Al6S	ATOM	43699	O1P	CYT	1170	211.717	137.816	8.287	1.00	62.44	Al6S
ATOM	43647	N7	GUA	1167	217.401	147.711	-3.034	1.00	61.50	Al6S	ATOM	43700	O2P	CYT	1170	212.645	137.714	5.903	1.00	62.44	Al6S
ATOM	43648	C8	GUA	1167	218.355	146.895	-3.384	1.00	61.50	Al6S	ATOM	43701	O5	CYT	1170	210.703	139.175	6.449	1.00	54.99	Al6S
ATOM	43649	C2	GUA	1167	219.725	144.005	-2.016	1.00	57.85	Al6S	ATOM	43702	C5	CYT	1170	209.903	139.995	7.292	1.00	54.99	Al6S
ATOM	43650	O2	GUA	1167	220.805	143.326	-1.410	1.00	57.85	Al6S	ATOM	43703	C4	CYT	1170	208.717	140.518	6.534	1.00	54.99	Al6S
ATOM	43651	C3	GUA	1167	219.398	143.463	-3.402	1.00	57.85	Al6S	ATOM	43704	O4	CYT	1170	209.159	141.473	5.548	1.00	54.99	Al6S
ATOM	43652	O3	GUA	1167	218.424	142.050	-2.693	1.00	57.12	Al6S	ATOM	43705	C1	CYT	1170	208.325	141.397	4.409	1.00	54.99	Al6S
ATOM	43653	P	GUA	1168	218.273	141.232	-2.693	1.00	57.12	Al6S	ATOM	43706	N1	CYT	1170	209.161	141.046	3.257	1.00	62.44	Al6S
ATOM	43654	O1P	GUA	1168	218.445	139.774	-2.945	1.00	49.98	Al6S	ATOM	43707	C6	CYT	1170	210.157	140.117	3.372	1.00	62.44	Al6S
ATOM	43655	O2P	GUA	1168	216.989	141.901	-3.017	1.00	49.98	Al6S	ATOM	43708	C2	CYT	1170	208.911	142.524	2.033	1.00	62.44	Al6S
ATOM	43656	O5	GUA	1168	218.572	141.491	-1.156	1.00	57.12	Al6S	ATOM	43709	O2	CYT	1170	208.014	142.524	1.964	1.00	62.44	Al6S
ATOM	43657	C5	GUA	1168	217.610	141.159	-0.179	1.00	57.12	Al6S	ATOM	43710	N3	CYT	1170	209.649	141.319	0.955	1.00	62.44	Al6S
ATOM	43658	C4	GUA	1168	217.930	141.841	1.121	1.00	57.12	Al6S	ATOM	43711	C4	CYT	1170	210.603	140.395	1.072	1.00	62.44	Al6S
ATOM	43659	O4	GUA	1168	218.006	143.279	0.931	1.00	57.12	Al6S	ATOM	43712	N4	CYT	1170	211.287	140.065	-0.024	1.00	62.44	Al6S
ATOM	43660	C1	GUA	1168	217.385	143.936	2.024	1.00	49.98	Al6S	ATOM	43713	C5	CYT	1170	210.894	139.764	2.317	1.00	62.44	Al6S
ATOM	43661	N9	GUA	1168	216.241	144.683	1.505	1.00	49.98	Al6S	ATOM	43714	C2	CYT	1170	207.250	140.343	4.701	1.00	54.99	Al6S
ATOM	43662	C4	GUA	1168	215.291	145.351	2.236	1.00	49.98	Al6S	ATOM	43715	O2	CYT	1170	206.089	140.955	5.237	1.00	54.99	Al6S
ATOM	43663	N3	GUA	1168	215.239	145.430	3.580	1.00	49.98	Al6S	ATOM	43716	C3	CYT	1170	207.947	139.481	5.739	1.00	54.99	Al6S
ATOM	43664	C2	GUA	1168	214.228	146.175	3.993	1.00	49.98	Al6S	ATOM	43717	O3	CYT	1170	206.984	138.880	6.580	1.00	54.99	Al6S
ATOM	43665	N2	GUA	1168	214.067	146.402	5.302	1.00	49.98	Al6S	ATOM	43718	P	CYT	1171	206.800	137.297	6.581	1.00	64.04	Al6S
ATOM	43666	N1	GUA	1168	213.309	146.764	3.154	1.00	49.98	Al6S	ATOM	43719	O1P	GUA	1171	205.741	137.029	7.577	1.00	92.63	Al6S
ATOM	43667	C6	GUA	1168	213.332	146.685	1.766	1.00	49.98	Al6S	ATOM	43720	O2P	GUA	1171	208.118	136.633	6.704	1.00	92.63	Al6S
ATOM	43668	O6	GUA	1168	212.447	147.243	1.102	1.00	49.98	Al6S	ATOM	43721	O5	GUA	1171	206.183	137.011	5.155	1.00	64.04	Al6S
ATOM	43669	C5	GUA	1168	214.442	145.916	1.307	1.00	49.98	Al6S	ATOM	43722	C5	GUA	1171	204.822	137.296	4.903	1.00	64.04	Al6S
ATOM	43670	N7	GUA	1168	214.850	145.609	0.018	1.00	49.98	Al6S	ATOM	43723	C4	GUA	1171	204.380	136.569	3.671	1.00	64.04	Al6S
ATOM	43671	C8	GUA	1168	215.913	144.872	0.184	1.00	49.98	Al6S	ATOM	43724	O4	GUA	1171	205.401	136.836	2.686	1.00	64.04	Al6S
ATOM	43672	C2	GUA	1168	217.043	142.858	3.055	1.00	57.12	Al6S	ATOM	43725	C1	GUA	1171	205.641	135.671	1.933	1.00	64.04	Al6S
ATOM	43673	O2	GUA	1168	218.143	142.677	3.920	1.00	57.12	Al6S	ATOM	43726	N9	GUA	1171	207.003	135.238	2.195	1.00	92.63	Al6S
ATOM	43674	C3	GUA	1168	216.849	141.648	2.157	1.00	57.12	Al6S	ATOM	43727	C4	GUA	1171	207.810	134.620	1.298	1.00	92.63	Al6S
ATOM	43675	O3	GUA	1168	217.094	140.424	2.813	1.00	57.12	Al6S	ATOM	43728	N3	GUA	1171	207.475	134.317	0.039	1.00	92.63	Al6S
ATOM	43676	P	ADE	1169	215.891	139.389	3.013	1.00	62.77	Al6S	ATOM	43729	C2	GUA	1171	208.460	133.753	-0.606	1.00	92.63	Al6S
ATOM	43677	O1P	ADE	1169	216.434	138.110	3.537	1.00	51.48	Al6S	ATOM	43730	N2	GUA	1171	208.297	133.455	-1.885	1.00	92.63	Al6S
ATOM	43678	O2P	ADE	1169	215.086	139.395	1.770	1.00	51.48	Al6S	ATOM	43731	N1	GUA	1171	209.678	133.465	-0.047	1.00	92.63	Al6S
ATOM	43679	O5	ADE	1169	215.023	140.067	4.158	1.00	62.77	Al6S	ATOM	43732	C6	GUA	1171	210.047	133.762	1.258	1.00	92.63	Al6S
ATOM	43680	C5	ADE	1169	215.565	140.261	5.459	1.00	62.77	Al6S	ATOM	43733	O5	GUA	1171	211.178	133.462	1.665	1.00	92.63	Al6S
ATOM	43681	C4	ADE	1169	214.648	141.134	6.266	1.00	62.77	Al6S	ATOM	43734	C6	GUA	1171	208.997	134.403	3.253	1.00	92.63	Al6S
ATOM	43682	O4	ADE	1169	214.624	142.454	5.681	1.00	62.77	Al6S	ATOM	43735	N7	GUA	1171	208.932	134.882	3.352	1.00	92.63	Al6S
ATOM	43683	C1	ADE	1169	213.334	143.001	5.814	1.00	62.77	Al6S	ATOM	43736	C8	GUA	1171	207.725	135.366	2.317	1.00	92.63	Al6S
ATOM	43684	N9	ADE	1169	212.855	143.325	4.479	1.00	51.48	Al6S	ATOM	43737	C2	GUA	1171	204.581	134.636	2.317	1.00	64.04	Al6S
ATOM	43685	C4	ADE	1169	211.781	144.121	4.182	1.00	51.48	Al6S	ATOM	43738	O2	GUA	1171	203.458	134.795	1.468	1.00	64.04	Al6S
ATOM	43686	N3	ADE	1169	210.975	144.751	5.050	1.00	51.48	Al6S	ATOM	43739	C3	GUA	1171	204.283	135.040	3.750	1.00	64.04	Al6S
ATOM	43687	C2	ADE	1169	210.042	145.437	4.400	1.00	51.48	Al6S	ATOM	43740	O3	GUA	1171	202.974	134.664	4.232	1.00	64.04	Al6S
ATOM	43688	N1	ADE	1169	209.838	145.552	3.083	1.00	51.48	Al6S	ATOM	43741	P	ADE	1172	202.047	133.584	3.444	1.00	47.98	Al6S
ATOM	43689	C6	ADE	1169	210.668	144.899	2.244	1.00	51.48	Al6S	ATOM	43742	O1P	ADE	1172	202.840	132.807	2.462	1.00	64.90	Al6S
ATOM	43690	N6	ADE	1169	210.462	145.000	0.932	1.00	51.48	Al6S	ATOM	43743	O2P	ADE	1172	201.285	132.852	4.494	1.00	64.90	Al6S

ATOM	43744	OS' ADE	1172	200.991	134.478	2.648	1.00	47.98	Al6s	ATOM	43797	C6	GUA	1174	200.650	127.855	1.448	1.00	67.94	A
ATOM	43745	C5' ADE	1172	200.318	135.545	3.307	1.00	47.98	Al6s	ATOM	43798	O6	GUA	1174	201.614	128.332	2.062	1.00	67.94	A
ATOM	43746	C4' ADE	1172	198.944	135.775	2.712	1.00	47.98	Al6s	ATOM	43799	C5	GUA	1174	199.266	127.938	1.762	1.00	67.94	A
ATOM	43747	O4' ADE	1172	199.052	136.271	1.360	1.00	47.98	Al6s	ATOM	43800	N7	GUA	1174	198.618	128.557	2.821	1.00	67.94	A
ATOM	43748	C1' ADE	1172	198.105	135.629	0.542	1.00	47.98	Al6s	ATOM	43801	C8	GUA	1174	197.355	128.298	2.623	1.00	67.94	A
ATOM	43749	N9 ADE	1172	198.841	134.841	-0.438	1.00	64.90	Al6s	ATOM	43802	C2' GUA	1174	195.743	125.506	1.100	1.00	48.98	A	
ATOM	43750	C4 ADE	1172	198.334	134.266	-1.573	1.00	64.90	Al6s	ATOM	43803	O2' GUA	1174	194.730	125.061	0.230	1.00	48.98	A	
ATOM	43751	N3 ADE	1172	197.059	134.283	-1.993	1.00	64.90	Al6s	ATOM	43804	C3' GUA	1174	195.266	125.308	2.522	1.00	48.98	A	
ATOM	43752	C2 ADE	1172	196.943	133.649	-3.154	1.00	64.90	Al6s	ATOM	43805	O3' GUA	1174	194.620	124.056	2.634	1.00	48.98	A	
ATOM	43753	N1 ADE	1172	197.888	133.049	-3.889	1.00	64.90	Al6s	ATOM	43806	P	URI	1175	195.421	122.808	3.227	1.00	51.18	A
ATOM	43754	C6 ADE	1172	199.160	133.050	-3.438	1.00	64.90	Al6s	ATOM	43807	O1P URI	1175	194.481	121.684	3.440	1.00	69.09	A	
ATOM	43755	N6 ADE	1172	200.101	132.463	-4.178	1.00	64.90	Al6s	ATOM	43808	O2P URI	1175	196.248	123.293	4.357	1.00	69.09	A	
ATOM	43756	C5 ADE	1172	199.413	133.682	-2.211	1.00	64.90	Al6s	ATOM	43809	O5' URI	1175	196.385	122.405	2.034	1.00	51.18	A	
ATOM	43757	N7 ADE	1172	200.575	133.862	-1.474	1.00	64.90	Al6s	ATOM	43810	C5' URI	1175	195.896	122.271	0.703	1.00	51.18	A	
ATOM	43758	C8 ADE	1172	200.180	134.548	-0.432	1.00	64.90	Al6s	ATOM	43811	C4' URI	1175	197.046	121.978	-0.234	1.00	51.18	A	
ATOM	43759	C2' ADE	1172	197.163	134.818	-1.438	1.00	47.98	Al6s	ATOM	43812	O4' URI	1175	197.908	123.138	-0.344	1.00	51.18	A	
ATOM	43760	O2' ADE	1172	196.014	135.596	1.706	1.00	47.98	Al6s	ATOM	43813	C1' URI	1175	199.251	122.718	-0.508	1.00	51.18	A	
ATOM	43761	C3' ADE	1172	198.014	134.572	2.684	1.00	47.98	Al6s	ATOM	43814	N1 URI	1175	200.050	123.339	0.551	1.00	69.09	A	
ATOM	43762	O3' ADE	1172	197.179	134.661	3.840	1.00	47.98	Al6s	ATOM	43815	C6 URI	1175	199.467	123.772	1.714	1.00	69.09	A	
ATOM	43763	P	URI	197.055	133.428	4.853	1.00	49.98	Al6s	ATOM	43816	C2 URI	1175	201.396	123.501	0.328	1.00	69.09	A	
ATOM	43764	O1P	URI	196.671	133.997	6.165	1.00	71.11	Al6s	ATOM	43817	O2 URI	1175	201.951	123.086	-0.672	1.00	69.09	A	
ATOM	43765	O2P	URI	198.275	132.586	4.744	1.00	71.11	Al6s	ATOM	43818	N3 URI	1175	202.069	124.167	1.321	1.00	69.09	A	
ATOM	43766	O5' URI	1173	195.802	132.618	4.303	1.00	49.98	Al6s	ATOM	43819	O4 URI	1175	201.537	124.667	2.490	1.00	69.09	A	
ATOM	43767	C5' URI	1173	194.497	133.183	4.348	1.00	49.98	Al6s	ATOM	43820	C4 URI	1175	202.227	125.383	3.205	1.00	69.09	A	
ATOM	43768	C4' URI	1173	193.572	132.427	3.429	1.00	49.98	Al6s	ATOM	43821	C5 URI	1175	200.147	124.413	2.666	1.00	69.09	A	
ATOM	43769	O4' URI	1173	193.916	132.705	2.049	1.00	49.98	Al6s	ATOM	43822	C2' URI	1175	199.260	121.192	-0.514	1.00	51.18	A	
ATOM	43770	C1' URI	1173	193.753	131.531	1.275	1.00	49.98	Al6s	ATOM	43823	O2' URI	1175	199.187	120.758	-1.855	1.00	51.18	A	
ATOM	43771	N1 URI	1173	195.059	131.176	0.709	1.00	71.11	Al6s	ATOM	43824	C3' URI	1175	197.977	120.877	0.237	1.00	51.18	A	
ATOM	43772	C6 URI	1173	196.201	131.339	1.438	1.00	71.11	Al6s	ATOM	43825	O3' URI	1175	197.450	119.635	-0.172	1.00	51.18	A	
ATOM	43773	C2 URI	1173	195.117	130.670	-0.584	1.00	71.11	Al6s	ATOM	43826	P	URI	1176	197.159	118.508	0.917	1.00	58.22	A
ATOM	43774	O2 URI	1173	194.066	130.543	-1.227	1.00	71.11	Al6s	ATOM	43827	O1P URI	1176	196.243	117.504	0.315	1.00	59.16	A	
ATOM	43775	N3 URI	1173	196.316	130.338	-1.107	1.00	71.11	Al6s	ATOM	43828	O2P URI	1176	196.793	119.189	2.187	1.00	59.16	A	
ATOM	43776	C4 URI	1173	197.425	130.501	-0.389	1.00	71.11	Al6s	ATOM	43829	O5' URI	1176	198.556	117.789	1.093	1.00	58.22	A	
ATOM	43777	N4 URI	1173	198.586	130.164	-0.946	1.00	71.11	Al6s	ATOM	43830	C5' URI	1176	199.135	117.105	0.004	1.00	58.22	A	
ATOM	43778	C5 URI	1173	197.394	131.019	0.932	1.00	71.11	Al6s	ATOM	43831	C4' URI	1176	200.601	116.969	0.232	1.00	58.22	A	
ATOM	43779	O2' URI	1173	193.192	130.441	2.190	1.00	49.98	Al6s	ATOM	43832	O4' URI	1176	201.115	118.291	0.463	1.00	58.22	A	
ATOM	43780	C2' URI	1173	191.789	130.374	2.084	1.00	49.98	Al6s	ATOM	43833	C1' URI	1176	202.231	118.211	1.318	1.00	58.22	A	
ATOM	43781	C3' URI	1173	193.651	130.917	3.558	1.00	49.98	Al6s	ATOM	43834	N1 URI	1176	202.180	119.346	2.264	1.00	59.16	A	
ATOM	43782	O3' URI	1173	192.765	130.455	4.560	1.00	49.98	Al6s	ATOM	43835	C6 URI	1176	200.984	119.829	2.708	1.00	59.16	A	
ATOM	43783	P	GUA	193.008	129.020	5.223	1.00	48.98	Al6s	ATOM	43836	C2 URI	1176	203.381	119.963	2.663	1.00	59.16	A	
ATOM	43784	O1P	GUA	191.806	128.642	6.007	1.00	67.94	Al6s	ATOM	43837	O2 URI	1176	204.461	119.481	2.293	1.00	59.16	A	
ATOM	43785	O2P	GUA	194.341	129.055	5.881	1.00	67.94	Al6s	ATOM	43838	N3 URI	1176	203.330	121.067	3.439	1.00	59.16	A	
ATOM	43786	O5' GUA	1174	193.098	128.031	3.983	1.00	48.98	Al6s	ATOM	43839	C4 URI	1176	202.154	121.552	3.831	1.00	59.16	A	
ATOM	43787	C5' GUA	1174	193.939	126.887	4.033	1.00	48.98	Al6s	ATOM	43840	N4 URI	1176	202.150	122.657	4.567	1.00	59.16	A	
ATOM	43788	C4' GUA	1174	194.252	126.427	2.639	1.00	48.98	Al6s	ATOM	43841	C5 URI	1176	200.927	120.924	3.479	1.00	59.16	A	
ATOM	43789	O4' GUA	1174	194.835	127.528	1.890	1.00	48.98	Al6s	ATOM	43842	C2' URI	1176	202.358	116.761	1.811	1.00	58.22	A	
ATOM	43790	C1' GUA	1174	195.843	127.034	1.027	1.00	48.98	Al6s	ATOM	43843	O2' URI	1176	203.357	116.161	1.013	1.00	58.22	A	
ATOM	43791	N9 GUA	1174	197.130	127.539	1.502	1.00	67.94	Al6s	ATOM	43844	C3' URI	1176	200.990	116.177	1.469	1.00	58.22	A	
ATOM	43792	C4 GUA	1174	198.360	127.322	0.930	1.00	67.94	Al6s	ATOM	43845	O3' URI	1176	201.043	114.807	1.043	1.00	58.22	A	
ATOM	43793	N3 GUA	1174	198.595	126.624	-0.197	1.00	67.94	Al6s	ATOM	43846	P	URI	1177	201.442	113.633	2.068	1.00	77.32	A
ATOM	43794	C2 GUA	1174	199.881	126.550	-0.473	1.00	67.94	Al6s	ATOM	43847	O1P URI	1177	202.798	113.929	2.574	1.00	123.28	A	
ATOM	43795	N2 GUA	1174	200.288	125.877	-1.551	1.00	67.94	Al6s	ATOM	43848	O2P URI	1177	201.188	112.353	1.370	1.00	123.28	A	
ATOM	43796	N1 GUA	1174	200.864	127.125	0.288	1.00	67.94	Al6s	ATOM	43849	O5' URI	1177	200.403	113.728	3.275	1.00	77.32	A	

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ATOM	43850	C5' URI	1177	200.542	114.719	4.294	1.00	77.32	Al6S	ATOM	43903	C6	GUA	1179	206.539	121.545	11.450	1.00	67.35	Al
ATOM	43851	C4' URI	1177	200.180	114.148	5.649	1.00	77.32	Al6S	ATOM	43904	O6	GUA	1179	205.367	121.867	11.675	1.00	67.35	Al
ATOM	43852	O4' URI	1177	198.860	113.564	5.575	1.00	77.32	Al6S	ATOM	43905	C5	GUA	1179	207.029	120.428	10.722	1.00	67.35	Al
ATOM	43853	C1' URI	1177	198.701	112.680	6.667	1.00	77.32	Al6S	ATOM	43906	N7	GUA	1179	206.350	119.416	10.064	1.00	67.35	Al
ATOM	43854	N1 URI	1177	197.899	111.517	6.269	1.00	123.28	Al6S	ATOM	43907	C8	GUA	1179	207.292	118.662	9.571	1.00	67.35	Al
ATOM	43855	C6 URI	1177	198.065	110.915	5.049	1.00	123.28	Al6S	ATOM	43908	C2' GUA	1179	210.350	117.610	10.602	1.00	47.29	Al	
ATOM	43856	C2 URI	1177	196.977	111.033	7.188	1.00	123.28	Al6S	ATOM	43909	O2' GUA	1179	211.747	117.698	10.597	1.00	47.29	Al	
ATOM	43857	O2 URI	1177	196.772	111.561	8.267	1.00	123.28	Al6S	ATOM	43910	C3' GUA	1179	209.887	116.247	10.138	1.00	47.29	Al	
ATOM	43858	N3 URI	1177	196.300	109.912	6.791	1.00	123.28	Al6S	ATOM	43911	O3' GUA	1179	210.694	115.235	10.692	1.00	47.29	Al	
ATOM	43859	C4 URI	1177	196.435	109.245	5.591	1.00	123.28	Al6S	ATOM	43912	P URI	1180	210.053	114.217	11.753	1.00	46.92	Al	
ATOM	43860	O4 URI	1177	195.788	108.213	5.396	1.00	123.28	Al6S	ATOM	43913	O1P URI	1180	210.439	112.798	11.429	1.00	55.68	Al	
ATOM	43861	C5 URI	1177	197.383	109.825	4.686	1.00	123.28	Al6S	ATOM	43914	O2P URI	1180	208.614	114.574	11.834	1.00	55.68	Al	
ATOM	43862	C2' URI	1177	200.098	112.317	7.178	1.00	77.32	Al6S	ATOM	43915	O5' URI	1180	210.711	114.653	13.136	1.00	46.92	Al	
ATOM	43863	O2' URI	1177	200.252	112.821	8.485	1.00	77.32	Al6S	ATOM	43916	C5' URI	1180	211.953	115.348	13.178	1.00	46.92	Al	
ATOM	43864	C3' URI	1177	201.023	112.985	6.153	1.00	77.32	Al6S	ATOM	43917	C4' URI	1180	211.863	116.558	14.094	1.00	46.92	Al	
ATOM	43865	O3' URI	1177	202.227	113.360	7.250	1.00	77.32	Al6S	ATOM	43918	O4' URI	1180	211.069	117.603	13.497	1.00	46.92	Al	
ATOM	43866	P GUA	1178	202.515	114.900	8.226	1.00	44.73	Al6S	ATOM	43919	C1' URI	1180	210.524	118.417	14.507	1.00	46.92	Al	
ATOM	43867	O1P GUA	1178	203.625	114.820	8.226	1.00	70.23	Al6S	ATOM	43920	N1 URI	1180	209.090	118.568	14.247	1.00	55.68	Al	
ATOM	43868	O2P GUA	1178	201.254	115.596	7.623	1.00	70.23	Al6S	ATOM	43921	C6 URI	1180	208.318	117.537	13.766	1.00	55.68	Al	
ATOM	43869	O5' GUA	1178	203.084	115.594	5.939	1.00	44.73	Al6S	ATOM	43922	C2 URI	1180	208.550	119.796	14.492	1.00	55.68	Al	
ATOM	43870	C5' GUA	1178	203.886	114.866	5.018	1.00	44.73	Al6S	ATOM	43923	O2 URI	1180	209.201	120.711	14.941	1.00	55.68	Al	
ATOM	43871	C4' GUA	1178	205.198	115.569	4.792	1.00	44.73	Al6S	ATOM	43924	N3 URI	1180	207.216	119.916	14.194	1.00	55.68	Al	
ATOM	43872	O4' GUA	1178	204.935	116.931	4.374	1.00	44.73	Al6S	ATOM	43925	C4 URI	1180	206.382	118.939	13.691	1.00	55.68	Al	
ATOM	43873	C1' GUA	1178	205.956	117.778	4.862	1.00	44.73	Al6S	ATOM	43926	O4 URI	1180	205.215	119.226	13.406	1.00	55.68	Al	
ATOM	43874	N9 GUA	1178	205.315	118.855	5.605	1.00	70.23	Al6S	ATOM	43927	C5 URI	1180	207.012	117.676	15.855	1.00	46.92	Al	
ATOM	43875	C4 GUA	1178	205.937	119.875	6.291	1.00	70.23	Al6S	ATOM	43928	C2' URI	1180	210.868	117.782	15.855	1.00	46.92	Al	
ATOM	43876	N3 GUA	1178	207.270	120.058	6.414	1.00	70.23	Al6S	ATOM	43929	O2' URI	1180	211.954	118.468	16.452	1.00	46.92	Al	
ATOM	43877	C2 GUA	1178	207.557	121.129	7.130	1.00	70.23	Al6S	ATOM	43930	C3' URI	1180	212.236	116.360	15.455	1.00	46.92	Al	
ATOM	43878	N2 GUA	1178	208.829	121.465	7.351	1.00	70.23	Al6S	ATOM	43931	O3' URI	1180	212.212	115.856	16.336	1.00	46.92	Al	
ATOM	43879	N1 GUA	1178	206.616	121.951	7.681	1.00	70.23	Al6S	ATOM	43932	P GUA	1181	211.907	114.530	17.150	1.00	75.81	Al	
ATOM	43880	C6 GUA	1178	205.240	121.784	7.571	1.00	70.23	Al6S	ATOM	43933	O1P GUA	1181	213.174	114.111	17.794	1.00	78.25	Al	
ATOM	43881	O6 GUA	1178	204.475	122.589	8.113	1.00	70.23	Al6S	ATOM	43934	O2P GUA	1181	211.217	113.611	16.224	1.00	78.25	Al	
ATOM	43882	C5 GUA	1178	204.915	120.641	6.805	1.00	70.23	Al6S	ATOM	43935	O5' GUA	1181	210.879	115.007	18.263	1.00	75.81	Al	
ATOM	43883	N7 GUA	1178	203.677	120.114	6.452	1.00	70.23	Al6S	ATOM	43936	C5' GUA	1181	210.753	114.282	19.483	1.00	75.81	Al	
ATOM	43884	C8 GUA	1178	203.964	119.057	5.746	1.00	70.23	Al6S	ATOM	43937	C4' GUA	1181	209.789	114.977	20.413	1.00	75.81	Al	
ATOM	43885	C2' GUA	1178	206.950	116.914	5.650	1.00	44.73	Al6S	ATOM	43938	O4' GUA	1181	208.512	115.134	19.754	1.00	75.81	Al	
ATOM	43886	O2' GUA	1178	208.014	116.581	4.777	1.00	44.73	Al6S	ATOM	43939	C1' GUA	1181	207.495	115.146	20.725	1.00	75.81	Al	
ATOM	43887	C3' GUA	1178	206.102	115.695	6.008	1.00	44.73	Al6S	ATOM	43940	N1 GUA	1181	206.343	114.374	20.236	1.00	78.25	Al	
ATOM	43888	O3' GUA	1178	206.893	114.509	6.096	1.00	44.73	Al6S	ATOM	43941	C6 GUA	1181	206.401	113.700	19.051	1.00	78.25	Al	
ATOM	43889	P GUA	1179	207.260	113.888	7.536	1.00	47.29	Al6S	ATOM	43942	C2 GUA	1181	205.167	114.368	20.994	1.00	78.25	Al	
ATOM	43890	O1P GUA	1179	208.225	112.772	7.347	1.00	67.35	Al6S	ATOM	43943	O2 GUA	1181	205.144	114.968	22.081	1.00	78.25	Al	
ATOM	43891	O2P GUA	1179	205.974	113.621	8.248	1.00	67.35	Al6S	ATOM	43944	N3 GUA	1181	204.086	113.712	20.527	1.00	78.25	Al	
ATOM	43892	O5' GUA	1179	208.084	115.072	7.210	1.00	47.29	Al6S	ATOM	43945	C4 GUA	1181	204.147	113.073	19.361	1.00	78.25	Al	
ATOM	43893	C5' GUA	1179	209.416	115.339	7.768	1.00	47.29	Al6S	ATOM	43946	N4 GUA	1181	203.046	112.450	18.938	1.00	78.25	Al	
ATOM	43894	C4' GUA	1179	210.097	116.362	8.646	1.00	47.29	Al6S	ATOM	43947	C5 GUA	1181	205.336	113.046	18.578	1.00	78.25	Al	
ATOM	43895	O4' GUA	1179	209.634	117.700	8.346	1.00	47.29	Al6S	ATOM	43948	C2' GUA	1181	208.098	114.743	22.076	1.00	75.81	Al	
ATOM	43896	C1' GUA	1179	209.819	118.513	9.491	1.00	47.29	Al6S	ATOM	43949	O2' GUA	1181	208.228	115.904	22.882	1.00	75.81	Al	
ATOM	43897	N9 GUA	1179	208.548	119.515	8.866	1.00	67.35	Al6S	ATOM	43950	C3' GUA	1181	209.479	114.217	21.694	1.00	75.81	Al	
ATOM	43898	C4 GUA	1179	208.387	120.257	10.607	1.00	67.35	Al6S	ATOM	43951	O3' GUA	1181	210.359	114.677	22.717	1.00	75.81	Al	
ATOM	43899	N3 GUA	1179	209.379	121.027	11.100	1.00	67.35	Al6S	ATOM	43952	P ADE	1182	211.634	113.808	23.156	1.00	66.97	Al	
ATOM	43900	C2 GUA	1179	208.909	122.072	11.759	1.00	67.35	Al6S	ATOM	43953	O1P ADE	1182	211.464	112.402	22.699	1.00	59.33	Al	
ATOM	43901	N2 GUA	1179	209.754	122.969	12.288	1.00	67.35	Al6S	ATOM	43954	O2P ADE	1182	211.857	114.081	24.599	1.00	59.33	Al	
ATOM	43902	N1 GUA	1179	207.576	122.326	11.940	1.00	67.35	Al6S	ATOM	43955	O5' ADE	1182	212.835	114.485	22.351	1.00	66.97	Al	

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ATOM	43956	C5' ADE	1182	213.120	115.887	22.471	1.00	66.97	Al6S	ATOM	44009	N3	CYT	1184	208.678	122.637	21.626	1.00	65.71	Al
ATOM	43957	C4' ADE	1182	214.339	116.238	21.646	1.00	66.97	Al6S	ATOM	44010	N4	CYT	1184	209.283	121.476	21.355	1.00	65.71	Al
ATOM	43958	O4' ADE	1182	215.418	115.390	22.079	1.00	66.97	Al6S	ATOM	44011	N4	CYT	1184	208.777	120.716	20.384	1.00	65.71	Al
ATOM	43959	C1' ADE	1182	216.232	115.055	20.988	1.00	66.97	Al6S	ATOM	44012	C5	CYT	1184	210.433	121.039	22.074	1.00	65.71	Al
ATOM	43960	N9 ADE	1182	216.662	113.670	21.152	1.00	59.33	Al6S	ATOM	44013	C2'	CYT	1184	210.003	123.688	25.729	1.00	60.44	Al
ATOM	43961	C4 ADE	1182	217.887	113.149	20.801	1.00	59.33	Al6S	ATOM	44014	O2'	CYT	1184	210.058	124.885	26.479	1.00	60.44	Al
ATOM	43962	N3 ADE	1182	218.912	113.788	20.208	1.00	59.33	Al6S	ATOM	44015	O3' CYT	1184	210.793	122.555	26.364	1.00	60.44	Al	
ATOM	43963	C2 ADE	1182	219.944	112.961	20.031	1.00	59.33	Al6S	ATOM	44016	C3' CYT	1184	210.593	122.417	27.757	1.00	60.44	Al	
ATOM	43964	N1 ADE	1182	220.055	111.667	20.350	1.00	59.33	Al6S	ATOM	44017	P	ADE	1185	209.848	121.109	28.312	1.00	66.81	Al
ATOM	43965	C6 ADE	1182	219.001	111.054	20.940	1.00	59.33	Al6S	ATOM	44018	O1P ADE	1185	210.174	120.963	29.747	1.00	79.61	Al	
ATOM	43966	N6 ADE	1182	219.097	109.762	21.248	1.00	59.33	Al6S	ATOM	44019	O2P ADE	1185	210.124	119.979	27.390	1.00	79.61	Al	
ATOM	43967	C5 ADE	1182	217.856	111.820	21.190	1.00	59.33	Al6S	ATOM	44020	O5' ADE	1185	208.318	121.505	28.165	1.00	66.81	Al	
ATOM	43968	N7 ADE	1182	216.636	111.506	21.766	1.00	59.33	Al6S	ATOM	44021	C5' ADE	1185	207.881	122.813	28.489	1.00	66.81	Al	
ATOM	43969	C8 ADE	1182	215.963	112.635	21.711	1.00	59.33	Al6S	ATOM	44022	C4' ADE	1185	206.585	123.115	27.782	1.00	66.81	Al	
ATOM	43970	C2' ADE	1182	215.534	115.452	19.684	1.00	66.97	Al6S	ATOM	44023	O4' ADE	1185	206.826	123.268	26.358	1.00	66.81	Al	
ATOM	43971	O2' ADE	1182	216.297	116.384	18.964	1.00	66.97	Al6S	ATOM	44024	C1' ADE	1185	206.074	121.719	24.765	1.00	79.61	Al	
ATOM	43972	C3' ADE	1182	214.181	115.962	20.164	1.00	66.97	Al6S	ATOM	44025	N9 ADE	1185	206.074	121.719	24.765	1.00	79.61	Al	
ATOM	43973	O3' ADE	1182	213.619	117.091	19.474	1.00	66.97	Al6S	ATOM	44026	C4 ADE	1185	205.288	121.146	23.792	1.00	79.61	Al	
ATOM	43974	P	1183	214.401	118.508	19.396	1.00	55.25	Al6S	ATOM	44027	N3 ADE	1185	204.037	121.490	23.447	1.00	79.61	Al	
ATOM	43975	O1P GUA	1183	213.394	119.491	18.933	1.00	58.04	Al6S	ATOM	44028	C2 ADE	1185	203.588	120.708	22.472	1.00	79.61	Al	
ATOM	43976	O2P GUA	1183	215.675	118.400	18.656	1.00	58.04	Al6S	ATOM	44029	N1 ADE	1185	204.195	119.701	21.845	1.00	79.61	Al	
ATOM	43977	O5' GUA	1183	214.725	118.898	20.907	1.00	55.25	Al6S	ATOM	44030	C6 ADE	1185	205.451	119.377	22.212	1.00	79.61	Al	
ATOM	43978	C5' GUA	1183	216.013	119.398	21.285	1.00	55.25	Al6S	ATOM	44031	N6 ADE	1185	206.053	118.364	21.587	1.00	79.61	Al	
ATOM	43979	C4' GUA	1183	215.884	120.647	22.142	1.00	55.25	Al6S	ATOM	44032	C5 ADE	1185	206.048	120.131	23.241	1.00	79.61	Al	
ATOM	43980	O4' GUA	1183	215.734	121.817	21.309	1.00	55.25	Al6S	ATOM	44033	N7 ADE	1185	207.296	120.064	24.742	1.00	79.61	Al	
ATOM	43981	C1' GUA	1183	214.958	122.787	21.986	1.00	55.25	Al6S	ATOM	44034	C8 ADE	1185	207.263	121.026	24.742	1.00	79.61	Al	
ATOM	43982	N9 GUA	1183	213.784	123.078	21.174	1.00	58.04	Al6S	ATOM	44035	C2' ADE	1185	204.636	122.414	26.677	1.00	66.81	Al	
ATOM	43983	C4 GUA	1183	212.973	124.186	21.266	1.00	58.04	Al6S	ATOM	44036	O2' ADE	1185	203.822	123.523	26.994	1.00	66.81	Al	
ATOM	43984	N3 GUA	1183	213.125	125.210	22.128	1.00	58.04	Al6S	ATOM	44037	C3' ADE	1185	205.524	122.029	27.848	1.00	66.81	Al	
ATOM	43985	C2 GUA	1183	212.180	126.118	21.982	1.00	58.04	Al6S	ATOM	44038	O3' ADE	1185	204.810	122.064	29.073	1.00	66.81	Al	
ATOM	43986	N2 GUA	1183	212.165	127.206	22.754	1.00	58.04	Al6S	ATOM	44039	P	URI	1186	204.204	120.706	29.681	1.00	74.94	Al
ATOM	43987	N1 GUA	1183	211.173	126.030	21.068	1.00	58.04	Al6S	ATOM	44040	O1P URI	1186	203.406	121.112	30.863	1.00	62.87	Al	
ATOM	43988	C6 GUA	1183	210.986	124.983	20.182	1.00	58.04	Al6S	ATOM	44041	O2P URI	1186	205.272	119.682	29.833	1.00	62.87	Al	
ATOM	43989	O6 GUA	1183	210.011	124.992	19.424	1.00	58.04	Al6S	ATOM	44042	O5' URI	1186	203.184	120.203	28.568	1.00	74.94	Al	
ATOM	43990	C5 GUA	1183	211.997	124.005	20.315	1.00	58.04	Al6S	ATOM	44043	C5' URI	1186	201.900	120.802	28.434	1.00	74.94	Al	
ATOM	43991	N7 GUA	1183	212.194	122.817	19.625	1.00	58.04	Al6S	ATOM	44044	C4' URI	1186	201.099	120.084	27.378	1.00	74.94	Al	
ATOM	43992	C8 GUA	1183	213.262	122.300	20.170	1.00	58.04	Al6S	ATOM	44045	O4' URI	1186	201.780	120.230	26.105	1.00	74.94	Al	
ATOM	43993	C2' GUA	1183	214.594	122.209	23.351	1.00	55.25	Al6S	ATOM	44046	C1' URI	1186	201.620	119.045	25.340	1.00	74.94	Al	
ATOM	43994	O2' GUA	1183	215.532	122.620	24.312	1.00	55.25	Al6S	ATOM	44047	N1 URI	1186	202.943	118.441	25.145	1.00	62.87	Al	
ATOM	43995	C3' GUA	1183	214.701	120.716	23.094	1.00	55.25	Al6S	ATOM	44048	C6 URI	1186	203.981	118.724	25.996	1.00	62.87	Al	
ATOM	43996	O3' GUA	1183	214.948	120.025	24.316	1.00	55.25	Al6S	ATOM	44049	C2 URI	1186	203.102	117.561	24.088	1.00	62.87	Al	
ATOM	43997	P	1184	213.706	119.476	25.180	1.00	60.44	Al6S	ATOM	44050	O2 URI	1186	202.210	117.311	23.286	1.00	62.87	Al	
ATOM	43998	O1P CYT	1184	214.199	119.085	26.529	1.00	65.71	Al6S	ATOM	44051	N3 URI	1186	204.348	116.989	24.000	1.00	62.87	Al	
ATOM	43999	O2P CYT	1184	212.979	118.477	24.361	1.00	65.71	Al6S	ATOM	44052	C4 URI	1186	205.421	117.215	24.834	1.00	62.87	Al	
ATOM	44000	O5' CYT	1184	212.786	120.765	25.339	1.00	60.44	Al6S	ATOM	44053	O4 URI	1186	206.466	116.603	24.646	1.00	62.87	Al	
ATOM	44001	C5' CYT	1184	213.226	121.866	26.109	1.00	60.44	Al6S	ATOM	44054	C5 URI	1186	205.180	118.156	25.881	1.00	62.87	Al	
ATOM	44002	C4' CYT	1184	212.212	122.971	26.053	1.00	60.44	Al6S	ATOM	44055	C2' URI	1186	200.686	118.123	26.129	1.00	74.94	Al	
ATOM	44003	O4' CYT	1184	212.117	123.479	24.697	1.00	60.44	Al6S	ATOM	44056	O2' URI	1186	199.349	118.349	25.735	1.00	74.94	Al	
ATOM	44004	C1' CYT	1184	210.781	123.874	24.425	1.00	60.44	Al6S	ATOM	44057	C3' URI	1186	200.958	118.577	27.555	1.00	74.94	Al	
ATOM	44005	N1 CYT	1184	210.275	123.018	23.343	1.00	65.71	Al6S	ATOM	44058	O3' URI	1186	199.879	118.244	28.428	1.00	74.94	Al	
ATOM	44006	C6 CYT	1184	210.893	121.834	23.048	1.00	65.71	Al6S	ATOM	44059	P	GUA	1187	199.719	116.732	28.971	1.00	77.95	Al
ATOM	44007	C2 CYT	1184	209.146	123.428	22.620	1.00	65.71	Al6S	ATOM	44060	O1P GUA	1187	198.937	116.814	30.226	1.00	72.07	Al	
ATOM	44008	O2 CYT	1184	208.602	124.504	22.914	1.00	65.71	Al6S	ATOM	44061	O2P GUA	1187	201.041	116.056	28.975	1.00	72.07	Al	

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ATOM	44062	O5' GUA	1187	198.783	116.035	27.886	1.00	77.95	Al6S	ATOM	44115	C2	CYT	1189	203.167	105.801	26.441	1.00	73.34	Al
ATOM	44063	C5' GUA	1187	197.403	116.393	27.777	1.00	77.95	Al6S	ATOM	44116	O2	CYT	1189	203.696	104.960	25.698	1.00	73.34	Al
ATOM	44064	C4' GUA	1187	196.666	115.380	26.939	1.00	77.95	Al6S	ATOM	44117	N3	CYT	1189	203.880	106.806	26.998	1.00	73.34	Al
ATOM	44065	O4' GUA	1187	197.088	115.501	25.558	1.00	77.95	Al6S	ATOM	44118	C4	CYT	1189	203.270	107.699	27.775	1.00	73.34	Al
ATOM	44066	C1' GUA	1187	197.225	114.210	24.985	1.00	77.95	Al6S	ATOM	44119	N4	CYT	1189	204.012	108.667	28.309	1.00	73.34	Al
ATOM	44067	N9	1187	198.637	113.998	24.691	1.00	72.07	Al6S	ATOM	44120	C5	CYT	1189	201.871	107.638	28.038	1.00	73.34	Al
ATOM	44068	C4 GUA	1187	199.188	112.949	23.991	1.00	72.07	Al6S	ATOM	44121	C2' CYT	1189	201.256	103.300	26.937	1.00	84.52	Al	
ATOM	44069	N3	1187	198.516	111.922	23.436	1.00	72.07	Al6S	ATOM	44122	O2' CYT	1189	201.184	102.163	26.099	1.00	84.52	Al	
ATOM	44070	C2	1187	199.327	111.061	22.841	1.00	72.07	Al6S	ATOM	44123	C3' CYT	1189	200.074	103.370	27.886	1.00	84.52	Al	
ATOM	44071	N2	1187	198.825	109.972	22.246	1.00	72.07	Al6S	ATOM	44124	O3' CYT	1189	199.800	102.083	28.421	1.00	84.52	Al	
ATOM	44072	N1	1187	200.686	111.201	22.789	1.00	72.07	Al6S	ATOM	44125	P	CYT	1190	200.383	101.688	29.868	1.00	92.61	Al
ATOM	44073	C6	1187	201.399	112.249	23.351	1.00	72.07	Al6S	ATOM	44126	O1P	CYT	1190	199.912	100.310	30.167	1.00	72.52	Al
ATOM	44074	O6	1187	202.627	112.278	23.248	1.00	72.07	Al6S	ATOM	44127	O2P	CYT	1190	200.055	102.796	30.797	1.00	72.52	Al
ATOM	44075	C5	1187	200.543	113.178	23.999	1.00	72.07	Al6S	ATOM	44128	O5' CYT	1190	201.967	101.664	29.679	1.00	92.61	Al	
ATOM	44076	N7	1187	200.840	114.350	24.681	1.00	72.07	Al6S	ATOM	44129	C5' CYT	1190	202.592	100.676	28.862	1.00	92.61	Al	
ATOM	44077	C8	1187	199.680	114.802	25.070	1.00	72.07	Al6S	ATOM	44130	C4' CYT	1190	204.078	100.946	28.737	1.00	92.61	Al	
ATOM	44078	C2' GUA	1187	196.695	113.201	26.006	1.00	77.95	Al6S	ATOM	44131	O4' CYT	1190	204.290	102.235	28.098	1.00	92.61	Al	
ATOM	44079	O2' GUA	1187	195.323	112.946	25.782	1.00	77.95	Al6S	ATOM	44132	C1' CYT	1190	205.479	102.824	28.597	1.00	92.61	Al	
ATOM	44080	C3' GUA	1187	196.955	113.934	27.311	1.00	77.95	Al6S	ATOM	44133	N1	CYT	1190	203.819	104.332	29.600	1.00	72.52	Al
ATOM	44081	O3' GUA	1187	196.086	113.487	28.339	1.00	77.95	Al6S	ATOM	44134	C6	CYT	1190	206.129	104.967	29.616	1.00	72.52	Al
ATOM	44082	P	1188	196.631	112.469	29.447	1.00	61.37	Al6S	ATOM	44135	C2	CYT	1190	206.129	104.967	29.616	1.00	72.52	Al
ATOM	44083	O1P	1188	195.548	112.293	30.440	1.00	75.40	Al6S	ATOM	44136	O2	CYT	1190	207.298	104.710	29.284	1.00	72.52	Al
ATOM	44084	O2P	1188	197.965	112.940	29.893	1.00	75.40	Al6S	ATOM	44137	N3	CYT	1190	205.813	106.095	30.289	1.00	72.52	Al
ATOM	44085	O5' GUA	1188	196.840	111.103	28.660	1.00	61.37	Al6S	ATOM	44138	C4	CYT	1190	204.545	106.338	30.613	1.00	72.52	Al
ATOM	44086	C5' GUA	1188	195.799	110.559	27.865	1.00	61.37	Al6S	ATOM	44139	N4	CYT	1190	204.278	107.453	31.290	1.00	72.52	Al
ATOM	44087	C4' GUA	1188	196.355	109.560	26.881	1.00	61.37	Al6S	ATOM	44140	C5	CYT	1190	203.491	105.446	30.260	1.00	72.52	Al
ATOM	44088	O4' GUA	1188	197.259	110.228	25.960	1.00	61.37	Al6S	ATOM	44141	C2' CYT	1190	206.094	101.828	29.578	1.00	92.61	Al	
ATOM	44089	C1' GUA	1188	198.208	109.286	25.478	1.00	61.37	Al6S	ATOM	44142	O2' CYT	1190	207.021	100.992	28.914	1.00	92.61	Al	
ATOM	44090	N9	1188	199.551	109.800	25.708	1.00	75.40	Al6S	ATOM	44143	C3' CYT	1190	204.856	101.076	30.034	1.00	92.61	Al	
ATOM	44091	C4	1188	200.699	109.276	25.176	1.00	75.40	Al6S	ATOM	44144	O3' CYT	1190	205.198	99.819	30.590	1.00	92.61	Al	
ATOM	44092	N3	1188	200.770	108.202	24.361	1.00	75.40	Al6S	ATOM	44145	P	CYT	1191	205.397	99.697	32.178	1.00	86.24	Al
ATOM	44093	C2	1188	202.012	107.936	23.999	1.00	75.40	Al6S	ATOM	44146	O1P	CYT	1191	205.389	98.250	32.520	1.00	56.73	Al
ATOM	44094	N2	1188	202.263	106.887	23.200	1.00	75.40	Al6S	ATOM	44147	O2P	CYT	1191	204.429	100.619	32.834	1.00	56.73	Al
ATOM	44095	N1	1188	203.098	108.675	24.400	1.00	75.40	Al6S	ATOM	44148	O5' CYT	1191	206.858	100.273	32.427	1.00	86.24	Al	
ATOM	44096	C6	1188	203.046	109.785	25.238	1.00	75.40	Al6S	ATOM	44149	C5' CYT	1191	207.995	99.635	31.865	1.00	86.24	Al	
ATOM	44097	O6	1188	204.085	110.376	25.534	1.00	75.40	Al6S	ATOM	44150	C4' CYT	1191	209.245	100.271	32.397	1.00	86.24	Al	
ATOM	44098	C5	1188	201.718	110.073	25.643	1.00	75.40	Al6S	ATOM	44151	O4' CYT	1191	209.919	101.655	31.981	1.00	86.24	Al	
ATOM	44099	N7	1188	201.221	111.074	26.466	1.00	75.40	Al6S	ATOM	44152	C1' CYT	1191	209.919	102.434	32.971	1.00	86.24	Al	
ATOM	44100	C8	1188	199.930	110.873	26.475	1.00	75.40	Al6S	ATOM	44153	N1	CYT	1191	209.020	103.530	33.338	1.00	56.73	Al
ATOM	44101	C2' GUA	1188	197.984	107.972	26.228	1.00	61.37	Al6S	ATOM	44154	C6	CYT	1191	207.712	103.518	32.945	1.00	56.73	Al
ATOM	44102	O2' GUA	1188	197.257	107.060	25.428	1.00	61.37	Al6S	ATOM	44155	C2	CYT	1191	209.532	104.614	34.071	1.00	56.73	Al
ATOM	44103	C3' GUA	1188	197.223	108.454	27.458	1.00	61.37	Al6S	ATOM	44156	O2	CYT	1191	210.713	104.575	34.458	1.00	56.73	Al
ATOM	44104	O3' GUA	1188	196.463	107.402	28.020	1.00	61.37	Al6S	ATOM	44157	N3	CYT	1191	208.725	105.668	34.340	1.00	56.73	Al
ATOM	44105	P	1189	197.107	106.510	29.185	1.00	84.52	Al6S	ATOM	44158	C4	CYT	1191	207.455	105.657	33.919	1.00	56.73	Al
ATOM	44106	O1P	1189	196.007	105.652	29.702	1.00	73.34	Al6S	ATOM	44159	N4	CYT	1191	206.703	106.724	34.175	1.00	56.73	Al
ATOM	44107	O2P	1189	197.841	107.417	30.106	1.00	73.34	Al6S	ATOM	44160	C5	CYT	1191	206.903	104.550	33.208	1.00	56.73	Al
ATOM	44108	O5' CYT	1189	198.183	105.591	28.454	1.00	84.52	Al6S	ATOM	44161	C2' CYT	1191	210.306	101.496	34.109	1.00	86.24	Al	
ATOM	44109	C5' CYT	1189	197.778	104.511	27.623	1.00	84.52	Al6S	ATOM	44162	O2' CYT	1191	211.635	101.075	33.895	1.00	86.24	Al	
ATOM	44110	C4' CYT	1189	198.977	103.875	26.963	1.00	84.52	Al6S	ATOM	44163	C3' CYT	1191	209.311	100.366	33.905	1.00	86.24	Al	
ATOM	44111	O4' CYT	1189	199.662	104.876	26.163	1.00	84.52	Al6S	ATOM	44164	O3' CYT	1191	209.769	99.143	34.452	1.00	86.24	Al	
ATOM	44112	C1' CYT	1189	201.051	104.577	26.123	1.00	84.52	Al6S	ATOM	44165	P	1192	209.311	98.723	35.930	1.00	94.09	Al	
ATOM	44113	N1	1189	201.797	105.705	26.700	1.00	73.34	Al6S	ATOM	44166	O1P	1192	209.097	97.250	35.912	1.00	64.96	Al	
ATOM	44114	C6	1189	201.180	106.634	27.484	1.00	73.34	Al6S	ATOM	44167	O2P	1192	208.203	99.625	36.353	1.00	64.96	Al	

ATOM	44168	05' URI	1192	210.584	99.069	36.816	1.00	94.09	Al6S	ATOM	44221	N7 ADE	1194	216.485	103.119	39.430	1.00	86.11	A
ATOM	44169	C5' URI	1192	210.435	99.503	38.155	1.00	94.09	Al6S	ATOM	44222	C8 ADE	1194	216.556	101.954	38.831	1.00	86.11	A
ATOM	44170	C4' URI	1192	210.930	100.918	38.298	1.00	94.09	Al6S	ATOM	44223	C2' ADE	1194	215.200	100.521	35.670	1.00	171.53	A
ATOM	44171	04' URI	1192	210.161	101.799	37.448	1.00	94.09	Al6S	ATOM	44224	02' ADE	1194	213.897	100.164	35.262	1.00	171.53	A
ATOM	44172	C1' URI	1192	209.043	103.105	37.975	1.00	94.09	Al6S	ATOM	44225	C3' ADE	1194	216.236	99.457	35.292	1.00	171.53	A
ATOM	44173	01' URI	1192	209.013	103.859	37.712	1.00	94.09	Al6S	ATOM	44226	03' ADE	1195	215.745	98.685	34.200	1.00	171.53	A
ATOM	44174	C6 URI	1192	207.918	103.298	37.090	1.00	94.09	Al6S	ATOM	44227	P CYT	1195	216.246	98.989	32.705	1.00	88.78	A
ATOM	44175	C2 URI	1192	209.002	105.192	38.106	1.00	94.09	Al6S	ATOM	44228	01P CYT	1195	215.460	98.103	31.817	1.00	88.65	A
ATOM	44176	02 URI	1192	209.945	105.721	38.670	1.00	94.09	Al6S	ATOM	44229	02P CYT	1195	217.728	98.908	32.689	1.00	88.65	A
ATOM	44177	N3 URI	1192	207.851	105.882	37.816	1.00	94.09	Al6S	ATOM	44230	05' CYT	1195	215.795	100.495	32.420	1.00	88.78	A
ATOM	44178	C4 URI	1192	206.728	105.393	37.191	1.00	94.09	Al6S	ATOM	44231	C5' CYT	1195	216.632	101.395	31.687	1.00	88.78	A
ATOM	44179	04 URI	1192	205.776	106.151	36.992	1.00	94.09	Al6S	ATOM	44232	C4' CYT	1195	215.796	102.446	30.998	1.00	88.78	A
ATOM	44180	C5 URI	1192	206.804	104.002	36.820	1.00	94.09	Al6S	ATOM	44233	04' CYT	1195	214.959	101.796	30.019	1.00	88.78	A
ATOM	44181	C2' URI	1192	210.690	103.011	39.440	1.00	94.09	Al6S	ATOM	44234	C1' CYT	1195	213.791	102.569	29.830	1.00	88.78	A
ATOM	44182	02' URI	1192	211.944	103.634	39.608	1.00	94.09	Al6S	ATOM	44235	N1 CYT	1195	212.630	101.680	29.664	1.00	88.65	A
ATOM	44183	C3' URI	1192	210.739	101.503	39.687	1.00	94.09	Al6S	ATOM	44236	C6 CYT	1195	212.762	100.323	29.745	1.00	88.65	A
ATOM	44184	03' URI	1192	211.873	101.196	40.493	1.00	94.09	Al6S	ATOM	44237	C2 CYT	1195	211.383	102.252	29.383	1.00	88.65	A
ATOM	44185	P URI	1193	211.802	99.992	41.549	1.00	129.52	Al6S	ATOM	44238	02 CYT	1195	211.281	103.489	29.367	1.00	88.65	A
ATOM	44186	01P URI	1193	210.379	99.848	41.951	1.00	129.52	Al6S	ATOM	44239	N3 CYT	1195	210.320	101.445	29.144	1.00	88.65	A
ATOM	44187	02P URI	1193	212.835	100.237	42.583	1.00	129.52	Al6S	ATOM	44240	C4 CYT	1195	210.465	100.119	29.203	1.00	88.65	A
ATOM	44188	05' URI	1193	212.211	98.713	40.692	1.00	129.52	Al6S	ATOM	44241	N4 CYT	1195	209.394	99.360	28.952	1.00	88.65	A
ATOM	44189	C5' URI	1193	213.239	97.825	41.125	1.00	129.52	Al6S	ATOM	44242	C5 CYT	1195	211.717	99.512	29.522	1.00	88.65	A
ATOM	44190	C4' URI	1193	214.593	98.430	40.844	1.00	129.52	Al6S	ATOM	44243	C2' CYT	1195	213.705	103.615	30.943	1.00	88.78	A
ATOM	44191	04' URI	1193	214.945	99.326	41.930	1.00	129.52	Al6S	ATOM	44244	02' CYT	1195	213.904	104.907	30.394	1.00	88.78	A
ATOM	44192	C1' URI	1193	216.354	99.362	42.087	1.00	129.52	Al6S	ATOM	44245	C3' CYT	1195	214.813	103.174	31.902	1.00	88.78	A
ATOM	44193	N1 URI	1193	216.683	99.035	43.483	1.00	129.52	Al6S	ATOM	44246	03' CYT	1195	215.364	104.348	32.505	1.00	88.78	A
ATOM	44194	C6 URI	1193	216.728	97.732	43.926	1.00	129.52	Al6S	ATOM	44247	P GUA	1196	216.720	105.013	31.931	1.00	80.94	A
ATOM	44195	C2 URI	1193	216.968	100.087	44.342	1.00	129.52	Al6S	ATOM	44248	01P GUA	1196	216.448	105.461	30.538	1.00	72.32	A
ATOM	44196	02 URI	1193	216.915	101.254	44.001	1.00	129.52	Al6S	ATOM	44249	02P GUA	1196	217.866	104.115	32.200	1.00	72.32	A
ATOM	44197	N3 URI	1193	217.308	99.720	45.619	1.00	129.52	Al6S	ATOM	44250	05' GUA	1196	216.882	106.330	32.817	1.00	80.94	A
ATOM	44198	C4 URI	1193	217.384	98.440	46.122	1.00	129.52	Al6S	ATOM	44251	C5' GUA	1196	215.832	107.300	32.873	1.00	80.94	A
ATOM	44199	04 URI	1193	217.713	98.271	47.297	1.00	129.52	Al6S	ATOM	44252	C4' GUA	1196	215.652	107.823	34.287	1.00	80.94	A
ATOM	44200	C5 URI	1193	217.061	97.407	45.181	1.00	129.52	Al6S	ATOM	44253	04' GUA	1196	215.239	106.751	35.177	1.00	80.94	A
ATOM	44201	C2' URI	1193	216.948	98.390	41.062	1.00	129.52	Al6S	ATOM	44254	C1' GUA	1196	215.842	106.926	36.449	1.00	80.94	A
ATOM	44202	02' URI	1193	215.353	99.122	39.925	1.00	129.52	Al6S	ATOM	44255	N9 GUA	1196	216.730	105.791	36.676	1.00	72.32	A
ATOM	44203	C3' URI	1193	215.763	97.466	40.787	1.00	129.52	Al6S	ATOM	44256	C4' GUA	1196	217.642	105.630	37.694	1.00	72.32	A
ATOM	44204	03' URI	1193	215.784	96.870	39.489	1.00	129.52	Al6S	ATOM	44257	N3 GUA	1196	217.884	106.503	38.692	1.00	72.32	A
ATOM	44205	P ADE	1194	216.155	96.287	38.886	1.00	171.53	Al6S	ATOM	44258	C2 GUA	1196	218.808	106.054	39.531	1.00	72.32	A
ATOM	44206	01P ADE	1194	216.779	95.256	37.884	1.00	86.11	Al6S	ATOM	44259	N2 GUA	1196	219.153	106.785	40.603	1.00	72.32	A
ATOM	44207	02P ADE	1194	218.052	95.921	40.011	1.00	86.11	Al6S	ATOM	44260	N1 GUA	1196	219.457	104.853	39.388	1.00	72.32	A
ATOM	44208	05' ADE	1194	217.793	97.541	38.132	1.00	171.53	Al6S	ATOM	44261	C6 GUA	1196	219.228	103.940	38.364	1.00	72.32	A
ATOM	44209	C5' ADE	1194	217.575	97.778	36.737	1.00	171.53	Al6S	ATOM	44262	06 GUA	1196	219.872	102.878	38.323	1.00	72.32	A
ATOM	44210	C4' ADE	1194	216.306	98.575	36.531	1.00	171.53	Al6S	ATOM	44263	C5 GUA	1196	218.225	104.402	37.469	1.00	72.32	A
ATOM	44211	04' ADE	1194	216.106	99.483	37.627	1.00	171.53	Al6S	ATOM	44264	N7 GUA	1196	217.688	103.802	36.339	1.00	72.32	A
ATOM	44212	C1' ADE	1194	215.243	100.506	37.201	1.00	171.53	Al6S	ATOM	44265	C8 GUA	1196	216.812	104.662	35.902	1.00	72.32	A
ATOM	44213	N9 ADE	1194	215.549	101.734	37.927	1.00	86.11	Al6S	ATOM	44266	C2' GUA	1196	216.556	108.275	36.418	1.00	80.94	A
ATOM	44214	C4 ADE	1194	214.811	102.890	37.904	1.00	86.11	Al6S	ATOM	44267	02' GUA	1196	215.657	109.282	36.836	1.00	80.94	A
ATOM	44215	N3 ADE	1194	213.742	103.155	37.137	1.00	86.11	Al6S	ATOM	44268	C3' GUA	1196	216.895	108.392	34.941	1.00	80.94	A
ATOM	44216	C2 ADE	1194	213.257	104.364	37.417	1.00	86.11	Al6S	ATOM	44269	03' GUA	1196	217.076	109.740	34.545	1.00	80.94	A
ATOM	44217	N1 ADE	1194	213.678	105.262	38.323	1.00	86.11	Al6S	ATOM	44270	P GUA	1197	218.511	110.217	34.021	1.00	79.68	A
ATOM	44218	C6 ADE	1194	214.750	104.954	39.084	1.00	86.11	Al6S	ATOM	44271	01P GUA	1197	218.405	111.653	33.653	1.00	81.08	A
ATOM	44219	N6 ADE	1194	215.148	105.830	40.007	1.00	86.11	Al6S	ATOM	44272	02P GUA	1197	218.964	109.228	33.015	1.00	81.08	A
ATOM	44220	C5 ADE	1194	215.372	103.716	38.862	1.00	86.11	Al6S	ATOM	44273	05' GUA	1197	219.442	110.086	35.305	1.00	79.68	A

ATOM	44274	C5' GUA	1197	219.217	110.917	36.432	1.00	79.68	Al6S	ATOM	44327	N4' CYT	1199	228.387	105.310	34.046	1.00	67.83	Al6S
ATOM	44275	C4' GUA	1197	220.131	110.538	37.564	1.00	79.68	Al6S	ATOM	44328	C5' CYT	1199	228.926	107.269	35.309	1.00	67.83	Al6S
ATOM	44276	O4' GUA	1197	219.837	109.191	38.006	1.00	79.68	Al6S	ATOM	44329	C2' CYT	1199	233.004	108.233	37.132	1.00	81.47	Al6S
ATOM	44277	C1' GUA	1197	220.991	108.647	38.619	1.00	79.68	Al6S	ATOM	44330	O2' CYT	1199	234.068	107.885	37.991	1.00	81.47	Al6S
ATOM	44278	N9' GUA	1197	221.307	107.368	38.004	1.00	81.08	Al6S	ATOM	44331	C3' CYT	1199	232.758	109.738	37.077	1.00	81.47	Al6S
ATOM	44279	C4' GUA	1197	222.277	106.509	38.432	1.00	81.08	Al6S	ATOM	44332	O3' CYT	1199	233.965	110.491	37.188	1.00	81.47	Al6S
ATOM	44280	N3' GUA	1197	223.101	106.715	39.478	1.00	81.08	Al6S	ATOM	44333	P' URI	1200	234.756	110.930	35.862	1.00	77.76	Al6S
ATOM	44281	C2' GUA	1197	223.922	105.703	39.662	1.00	81.08	Al6S	ATOM	44334	O1P URI	1200	235.764	111.945	36.251	1.00	66.18	Al6S
ATOM	44282	N2' GUA	1197	224.808	105.745	40.662	1.00	81.08	Al6S	ATOM	44335	O2P URI	1200	233.752	111.264	34.818	1.00	66.18	Al6S
ATOM	44283	N1' GUA	1197	223.934	104.574	38.880	1.00	81.08	Al6S	ATOM	44336	O5' URI	1200	235.511	109.594	35.444	1.00	77.76	Al6S
ATOM	44284	C6' GUA	1197	223.092	104.345	37.793	1.00	81.08	Al6S	ATOM	44337	C5' URI	1200	236.464	109.001	36.315	1.00	77.76	Al6S
ATOM	44285	O6' GUA	1197	223.179	103.291	37.153	1.00	81.08	Al6S	ATOM	44338	C4' URI	1200	236.804	107.610	35.848	1.00	77.76	Al6S
ATOM	44286	C5' GUA	1197	222.210	105.426	37.585	1.00	81.08	Al6S	ATOM	44339	O4' URI	1200	235.679	106.715	36.069	1.00	77.76	Al6S
ATOM	44287	N7' GUA	1197	221.225	105.610	36.628	1.00	81.08	Al6S	ATOM	44340	C1' URI	1200	235.632	105.740	35.034	1.00	77.76	Al6S
ATOM	44288	C8' GUA	1197	220.715	106.778	36.914	1.00	81.08	Al6S	ATOM	44341	N1' URI	1200	234.383	105.929	34.280	1.00	66.18	Al6S
ATOM	44289	C2' GUA	1197	222.122	109.653	38.436	1.00	79.68	Al6S	ATOM	44342	C6' URI	1200	233.766	107.155	34.238	1.00	66.18	Al6S
ATOM	44290	O2' GUA	1197	222.220	110.416	39.619	1.00	79.68	Al6S	ATOM	44343	C2' URI	1200	233.850	104.838	33.601	1.00	66.18	Al6S
ATOM	44291	C3' GUA	1197	221.611	110.458	37.249	1.00	79.68	Al6S	ATOM	44344	O2' URI	1200	234.353	103.731	33.621	1.00	66.18	Al6S
ATOM	44292	O3' GUA	1197	222.218	111.741	37.171	1.00	79.68	Al6S	ATOM	44345	N3' URI	1200	232.700	105.100	32.898	1.00	66.18	Al6S
ATOM	44293	P' CYT	1198	223.555	111.925	36.299	1.00	77.83	Al6S	ATOM	44346	C4' URI	1200	232.039	106.310	32.804	1.00	66.18	Al6S
ATOM	44294	O1P CYT	1198	223.727	113.383	36.083	1.00	66.62	Al6S	ATOM	44347	O4' URI	1200	231.036	106.403	32.093	1.00	66.18	Al6S
ATOM	44295	O5P CYT	1198	223.492	111.008	35.132	1.00	66.62	Al6S	ATOM	44348	C5' URI	1200	232.643	107.378	33.544	1.00	66.18	Al6S
ATOM	44296	O5' CYT	1198	224.710	111.377	37.245	1.00	77.83	Al6S	ATOM	44349	C2' URI	1200	236.865	105.983	34.164	1.00	77.76	Al6S
ATOM	44297	C5' CYT	1198	224.985	112.003	38.484	1.00	77.83	Al6S	ATOM	44350	O2' URI	1200	237.949	105.241	34.681	1.00	77.76	Al6S
ATOM	44298	C4' CYT	1198	226.100	111.283	39.191	1.00	77.83	Al6S	ATOM	44351	C3' URI	1200	237.059	107.476	34.361	1.00	77.76	Al6S
ATOM	44299	O4' CYT	1198	225.677	109.940	39.524	1.00	77.83	Al6S	ATOM	44352	O3' URI	1200	238.350	107.934	33.989	1.00	77.76	Al6S
ATOM	44300	C1' CYT	1198	226.815	109.099	39.613	1.00	77.83	Al6S	ATOM	44353	P' GUA	1201	238.532	108.707	32.592	1.00	76.23	Al6S
ATOM	44301	N1' CYT	1198	226.618	107.955	38.723	1.00	66.62	Al6S	ATOM	44354	O1P GUA	1201	239.925	109.200	32.521	1.00	48.66	Al6S
ATOM	44302	C6' CYT	1198	225.737	108.018	37.682	1.00	66.62	Al6S	ATOM	44355	O2P GUA	1201	237.403	109.677	32.454	1.00	48.66	Al6S
ATOM	44303	C2' CYT	1198	227.352	106.794	38.957	1.00	66.62	Al6S	ATOM	44356	O5' GUA	1201	238.377	107.533	31.527	1.00	76.23	Al6S
ATOM	44304	O2' CYT	1198	228.137	106.767	39.919	1.00	66.62	Al6S	ATOM	44357	C5' GUA	1201	239.358	106.509	31.469	1.00	76.23	Al6S
ATOM	44305	N3' CYT	1198	227.189	105.733	38.137	1.00	66.62	Al6S	ATOM	44358	C4' GUA	1201	238.849	105.308	30.713	1.00	76.23	Al6S
ATOM	44306	C4' CYT	1198	226.329	105.803	37.122	1.00	66.62	Al6S	ATOM	44359	O4' GUA	1201	237.676	104.760	31.375	1.00	76.23	Al6S
ATOM	44307	N4' CYT	1198	226.199	104.734	36.338	1.00	66.62	Al6S	ATOM	44360	C1' GUA	1201	236.867	104.089	30.414	1.00	76.23	Al6S
ATOM	44308	C5' CYT	1198	225.563	106.974	36.864	1.00	66.62	Al6S	ATOM	44361	N9' GUA	1201	235.578	104.766	30.318	1.00	48.66	Al6S
ATOM	44309	C2' CYT	1198	228.023	109.940	39.210	1.00	77.83	Al6S	ATOM	44362	C4' GUA	1201	234.460	104.252	29.726	1.00	48.66	Al6S
ATOM	44310	O2' CYT	1198	228.640	110.448	40.379	1.00	77.83	Al6S	ATOM	44363	N3' GUA	1201	234.364	103.035	29.155	1.00	48.66	Al6S
ATOM	44311	C3' CYT	1198	227.354	111.027	38.384	1.00	77.83	Al6S	ATOM	44364	C2' GUA	1201	233.178	102.838	28.614	1.00	48.66	Al6S
ATOM	44312	O3' CYT	1198	228.162	112.183	38.296	1.00	77.83	Al6S	ATOM	44365	N2' GUA	1201	232.934	101.693	27.963	1.00	48.66	Al6S
ATOM	44313	P' CYT	1199	229.131	112.363	37.033	1.00	87.47	Al6S	ATOM	44366	N1' GUA	1201	232.154	103.754	28.663	1.00	48.66	Al6S
ATOM	44314	O1P CYT	1199	229.812	113.681	37.184	1.00	67.83	Al6S	ATOM	44367	C6' GUA	1201	232.234	105.011	29.262	1.00	48.66	Al6S
ATOM	44315	O2P CYT	1199	228.353	112.060	35.799	1.00	67.83	Al6S	ATOM	44368	O6' GUA	1201	231.252	105.765	29.259	1.00	48.66	Al6S
ATOM	44316	O5' CYT	1199	230.210	111.208	37.204	1.00	81.47	Al6S	ATOM	44369	C5' GUA	1201	233.508	105.243	29.815	1.00	48.66	Al6S
ATOM	44317	C5' CYT	1199	231.085	111.211	38.313	1.00	81.47	Al6S	ATOM	44370	N7' GUA	1201	234.015	106.359	30.466	1.00	48.66	Al6S
ATOM	44318	C4' CYT	1199	231.910	109.961	38.314	1.00	81.47	Al6S	ATOM	44371	C8' GUA	1201	235.245	106.029	30.754	1.00	48.66	Al6S
ATOM	44319	O4' CYT	1199	231.030	108.815	38.328	1.00	81.47	Al6S	ATOM	44372	C2' GUA	1201	237.591	104.225	29.076	1.00	76.23	Al6S
ATOM	44320	C1' CYT	1199	231.688	107.719	37.727	1.00	87.83	Al6S	ATOM	44373	C3' GUA	1201	238.462	103.129	28.887	1.00	76.23	Al6S
ATOM	44321	N1' CYT	1199	230.779	107.111	36.749	1.00	67.83	Al6S	ATOM	44374	O2' GUA	1201	238.338	105.527	29.304	1.00	76.23	Al6S
ATOM	44322	C6' CYT	1199	229.745	107.822	36.208	1.00	67.83	Al6S	ATOM	44375	O3' GUA	1201	239.365	105.714	28.353	1.00	76.23	Al6S
ATOM	44323	C2' CYT	1199	230.995	105.781	36.375	1.00	67.83	Al6S	ATOM	44376	P' GUA	1202	239.072	106.611	27.060	1.00	86.75	Al6S
ATOM	44324	O2' CYT	1199	231.943	105.163	36.886	1.00	67.83	Al6S	ATOM	44377	O1P GUA	1202	240.384	106.914	26.465	1.00	62.09	Al6S
ATOM	44325	N3' CYT	1199	230.171	105.207	35.471	1.00	67.83	Al6S	ATOM	44378	O2P GUA	1202	238.188	107.735	27.455	1.00	62.09	Al6S
ATOM	44326	C4' CYT	1199	229.169	105.913	34.943	1.00	67.83	Al6S	ATOM	44379	O5' GUA	1202	238.262	105.624	26.102	1.00	86.75	Al6S

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ATOM	44380	C5' GUA	1202	238.840	104.391	25.681	1.00	86.75	Al6S	ATOM	44433	O2	CYT	1204	228.474	110.800	19.641	1.00	72.66	Al
ATOM	44381	C4' GUA	1202	237.798	103.485	25.065	1.00	86.75	Al6S	ATOM	44434	N3	CYT	1204	230.341	111.384	20.715	1.00	72.66	Al
ATOM	44382	O4' GUA	1202	236.783	103.166	26.054	1.00	86.75	Al6S	ATOM	44435	C4	CYT	1204	231.651	111.424	20.909	1.00	72.66	Al
ATOM	44383	C1' GUA	1202	235.520	103.055	25.419	1.00	86.75	Al6S	ATOM	44436	N4	CYT	1204	232.259	112.147	21.764	1.00	72.66	Al
ATOM	44384	N9	1202	234.707	104.185	25.840	1.00	62.09	Al6S	ATOM	44437	C5	CYT	1204	232.396	110.314	20.231	1.00	72.66	Al
ATOM	44385	C4	1202	233.391	104.400	25.582	1.00	62.09	Al6S	ATOM	44438	C2	CYT	1204	229.612	109.478	16.798	1.00	60.16	Al
ATOM	44386	N3	1202	232.616	103.587	24.782	1.00	62.09	Al6S	ATOM	44439	O2	CYT	1204	228.339	109.276	16.223	1.00	60.16	Al
ATOM	44387	C2	1202	231.404	104.076	24.620	1.00	62.09	Al6S	ATOM	44440	C3	CYT	1204	230.341	108.617	14.678	1.00	60.16	Al
ATOM	44388	N2	1202	230.515	103.404	23.885	1.00	62.09	Al6S	ATOM	44441	O3	CYT	1204	230.860	109.732	13.639	1.00	68.46	Al
ATOM	44389	G1	1202	230.978	105.259	25.160	1.00	62.09	Al6S	ATOM	44442	P	GUA	1205	230.264	111.074	13.959	1.00	66.76	Al
ATOM	44390	C6	1202	231.757	106.111	25.935	1.00	62.09	Al6S	ATOM	44443	O1P	GUA	1205	230.643	109.152	12.296	1.00	66.76	Al
ATOM	44391	O6	1202	231.271	107.159	26.384	1.00	62.09	Al6S	ATOM	44444	O2P	GUA	1205	232.426	109.757	13.912	1.00	68.46	Al
ATOM	44392	C5	1202	233.067	105.606	26.098	1.00	62.09	Al6S	ATOM	44445	O5	GUA	1205	233.207	108.565	13.830	1.00	68.46	Al
ATOM	44393	N7	1202	234.156	106.136	26.776	1.00	62.09	Al6S	ATOM	44446	C5	GUA	1205	234.655	108.924	13.586	1.00	68.46	Al
ATOM	44394	C8	1202	235.103	105.256	26.600	1.00	62.09	Al6S	ATOM	44447	C4	GUA	1205	235.080	109.870	14.566	1.00	68.46	Al
ATOM	44395	C2	1202	235.776	103.140	23.917	1.00	86.75	Al6S	ATOM	44448	O4	GUA	1205	236.466	109.804	14.675	1.00	68.46	Al
ATOM	44396	O2	1202	236.005	101.844	23.403	1.00	86.75	Al6S	ATOM	44449	C1	GUA	1205	236.844	110.327	15.979	1.00	66.76	Al
ATOM	44397	C3	1202	237.007	104.035	23.889	1.00	86.75	Al6S	ATOM	44450	N9	GUA	1205	237.597	111.453	16.167	1.00	66.76	Al
ATOM	44398	O3	1202	237.725	103.908	22.666	1.00	86.75	Al6S	ATOM	44451	C4	GUA	1205	238.190	112.172	15.190	1.00	66.76	Al
ATOM	44399	P	1203	237.503	104.985	21.485	1.00	67.55	Al6S	ATOM	44452	N3	GUA	1205	238.799	113.240	15.665	1.00	66.76	Al
ATOM	44400	O1P	1203	238.346	104.491	20.369	1.00	68.80	Al6S	ATOM	44453	C2	GUA	1205	239.437	114.064	14.829	1.00	66.76	Al
ATOM	44401	O2P	1203	237.701	106.363	21.999	1.00	68.80	Al6S	ATOM	44454	N2	GUA	1205	238.828	113.580	16.993	1.00	66.76	Al
ATOM	44402	O5	1203	235.962	104.841	21.090	1.00	67.55	Al6S	ATOM	44455	N1	GUA	1205	238.320	113.857	18.018	1.00	66.76	Al
ATOM	44403	C5	1203	235.431	103.606	20.596	1.00	67.55	Al6S	ATOM	44456	C6	GUA	1205	238.320	113.857	19.180	1.00	66.76	Al
ATOM	44404	C4	1203	233.962	103.758	20.256	1.00	67.55	Al6S	ATOM	44457	O6	GUA	1205	237.567	111.695	17.521	1.00	66.76	Al
ATOM	44405	O4	1203	233.183	103.956	21.470	1.00	67.55	Al6S	ATOM	44458	C5	GUA	1205	236.858	110.701	18.182	1.00	66.76	Al
ATOM	44406	C1	1203	232.097	104.835	21.213	1.00	67.55	Al6S	ATOM	44459	N7	GUA	1205	236.467	109.897	17.227	1.00	66.76	Al
ATOM	44407	N9	1203	232.305	106.046	21.995	1.00	68.80	Al6S	ATOM	44460	C8	GUA	1205	237.927	108.879	13.070	1.00	68.46	Al
ATOM	44408	C4	1203	231.385	107.035	22.253	1.00	68.80	Al6S	ATOM	44461	C2	GUA	1205	237.927	108.879	13.070	1.00	68.46	Al
ATOM	44409	N3	1203	230.103	107.056	21.832	1.00	68.80	Al6S	ATOM	44462	O2	GUA	1205	235.700	107.810	13.559	1.00	68.46	Al
ATOM	44410	C2	1203	229.471	108.150	22.231	1.00	68.80	Al6S	ATOM	44463	O3	GUA	1205	235.631	107.408	12.170	1.00	68.46	Al
ATOM	44411	N2	1203	228.188	108.349	21.885	1.00	68.80	Al6S	ATOM	44464	C3	GUA	1205	236.807	106.576	11.441	1.00	69.95	Al
ATOM	44412	N1	1203	230.049	109.133	22.996	1.00	68.80	Al6S	ATOM	44465	P	ADE	1206	238.161	107.001	11.906	1.00	63.56	Al
ATOM	44413	C6	1203	231.364	109.128	23.451	1.00	68.80	Al6S	ATOM	44466	O1P	ADE	1206	236.473	106.670	10.001	1.00	63.56	Al
ATOM	44414	O6	1203	231.783	110.064	24.161	1.00	68.80	Al6S	ATOM	44467	O2P	ADE	1206	236.597	105.063	11.886	1.00	69.95	Al
ATOM	44415	C5	1203	232.057	107.970	23.011	1.00	68.80	Al6S	ATOM	44468	O5	ADE	1206	237.624	104.362	12.579	1.00	69.95	Al
ATOM	44416	N7	1203	233.370	107.578	23.223	1.00	68.80	Al6S	ATOM	44469	C5	ADE	1206	237.176	102.960	12.853	1.00	69.95	Al
ATOM	44417	C8	1203	233.469	106.432	22.610	1.00	68.80	Al6S	ATOM	44470	C4	ADE	1206	235.848	103.050	13.397	1.00	69.95	Al
ATOM	44418	C2	1203	232.122	105.124	19.716	1.00	67.55	Al6S	ATOM	44471	O1	ADE	1206	235.109	101.933	12.996	1.00	63.56	Al
ATOM	44419	O2	1203	231.349	104.156	19.051	1.00	67.55	Al6S	ATOM	44472	C1	ADE	1206	233.738	102.350	12.742	1.00	63.56	Al
ATOM	44420	C3	1203	233.605	104.971	19.420	1.00	67.55	Al6S	ATOM	44473	N9	ADE	1206	232.845	101.846	11.830	1.00	63.56	Al
ATOM	44421	O3	1203	233.859	104.775	18.039	1.00	67.55	Al6S	ATOM	44474	C4	ADE	1206	233.062	100.892	10.912	1.00	63.56	Al
ATOM	44422	P	1204	234.267	105.036	17.137	1.00	60.16	Al6S	ATOM	44475	N3	ADE	1206	231.950	100.639	10.228	1.00	63.56	Al
ATOM	44423	O1P	1204	234.509	105.534	15.767	1.00	72.66	Al6S	ATOM	44476	C2	ADE	1206	230.743	101.187	10.347	1.00	63.56	Al
ATOM	44424	O2P	1204	235.334	106.781	17.852	1.00	72.66	Al6S	ATOM	44477	N1	ADE	1206	230.563	102.150	11.272	1.00	63.56	Al
ATOM	44425	O5	1204	232.943	106.919	17.106	1.00	60.16	Al6S	ATOM	44478	C6	ADE	1206	229.359	102.712	11.385	1.00	63.56	Al
ATOM	44426	C5	1204	231.748	106.334	16.573	1.00	60.16	Al6S	ATOM	44479	N6	ADE	1206	231.661	103.444	13.072	1.00	63.56	Al
ATOM	44427	C4	1204	230.589	107.334	16.707	1.00	60.16	Al6S	ATOM	44480	N7	ADE	1206	233.063	103.315	13.431	1.00	63.56	Al
ATOM	44428	O4	1204	230.340	107.618	18.098	1.00	60.16	Al6S	ATOM	44481	C8	ADE	1206	235.875	101.165	11.915	1.00	69.95	Al
ATOM	44429	C1	1204	229.672	108.858	18.199	1.00	60.16	Al6S	ATOM	44482	C2	ADE	1206	236.284	99.939	12.479	1.00	69.95	Al
ATOM	44430	N1	1204	230.393	109.697	19.159	1.00	72.66	Al6S	ATOM	44483	O2	ADE	1206	237.067	102.082	11.615	1.00	69.95	Al
ATOM	44431	C6	1204	231.732	109.528	19.373	1.00	72.66	Al6S	ATOM	44484	O3	ADE	1206						
ATOM	44432	C2	1204	229.687	110.684	19.846	1.00	72.66	Al6S	ATOM	44485	C3	ADE	1206						

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ATOM	44486	O3' ADE	1206	238.243	101.265	11.576	1.00	69.95	Al6s	ATOM	44539	C2	CYT	1209	231.936	100.854	1.204	1.00	62.43	Al6s	
ATOM	44487	P	CYT	1207	239.477	101.642	10.624	1.00	76.37	Al6s	ATOM	44540	O2	CYT	1209	230.964	100.175	0.841	1.00	62.43	Al6s
ATOM	44488	O1P	CYT	1207	240.576	100.737	11.023	1.00	51.18	Al6s	ATOM	44541	N3	CYT	1209	231.832	101.780	2.190	1.00	62.43	Al6s
ATOM	44489	O2P	CYT	1207	239.707	103.103	10.618	1.00	51.18	Al6s	ATOM	44542	C4	CYT	1209	232.905	102.474	2.569	1.00	62.43	Al6s
ATOM	44490	O5' CYT	1207	238.982	101.202	9.183	1.00	76.37	Al6s	ATOM	44543	N4	CYT	1209	232.756	103.378	3.541	1.00	62.43	Al6s	
ATOM	44491	C5' CYT	1207	239.252	99.896	8.702	1.00	76.37	Al6s	ATOM	44544	C5	CYT	1209	234.182	102.272	1.968	1.00	62.43	Al6s	
ATOM	44492	C4' CYT	1207	238.383	99.593	7.513	1.00	76.37	Al6s	ATOM	44545	C2' CYT	1209	232.732	100.214	-1.846	1.00	59.71	Al6s		
ATOM	44493	O4' CYT	1207	237.015	99.758	7.927	1.00	76.37	Al6s	ATOM	44546	O2' CYT	1209	232.318	99.135	-2.663	1.00	59.71	Al6s		
ATOM	44494	C1' CYT	1207	236.239	100.160	6.818	1.00	76.37	Al6s	ATOM	44547	C3' CYT	1209	233.973	100.903	-2.389	1.00	59.71	Al6s		
ATOM	44495	N1	CYT	1207	235.388	101.286	7.218	1.00	51.18	Al6s	ATOM	44548	O3' CYT	1209	233.940	101.086	-3.794	1.00	59.71	Al6s	
ATOM	44496	C6	CYT	1207	235.836	102.254	8.072	1.00	51.18	Al6s	ATOM	44549	P	ADE	1210	233.811	102.567	-4.386	1.00	57.36	Al6s
ATOM	44497	C2	CYT	1207	234.079	101.314	6.742	1.00	51.18	Al6s	ATOM	44550	O1P	ADE	1210	234.123	102.525	-5.839	1.00	57.36	Al6s
ATOM	44498	O2	CYT	1207	233.731	100.460	5.916	1.00	51.18	Al6s	ATOM	44551	O2P	ADE	1210	234.589	103.466	-3.482	1.00	51.99	Al6s
ATOM	44499	N3	CYT	1207	233.229	102.261	7.191	1.00	51.18	Al6s	ATOM	44552	O5' ADE	1210	232.271	102.935	-4.201	1.00	57.36	Al6s	
ATOM	44500	C4	CYT	1207	233.651	103.167	8.073	1.00	51.18	Al6s	ATOM	44553	C5' ADE	1210	231.265	102.384	-5.045	1.00	57.36	Al6s	
ATOM	44501	N4	CYT	1207	232.756	104.048	8.538	1.00	51.18	Al6s	ATOM	44554	C4' ADE	1210	229.924	103.018	-4.732	1.00	57.36	Al6s	
ATOM	44502	C5	CYT	1207	235.007	103.202	8.529	1.00	51.18	Al6s	ATOM	44555	O4' ADE	1210	229.504	102.643	-3.390	1.00	57.36	Al6s	
ATOM	44503	C2' CYT	1207	237.161	100.369	5.618	1.00	76.37	Al6s	ATOM	44556	C1' ADE	1210	228.917	103.757	-2.734	1.00	57.36	Al6s		
ATOM	44504	O2' CYT	1207	237.074	99.228	4.786	1.00	76.37	Al6s	ATOM	44557	N9	ADE	1210	229.800	104.152	-1.634	1.00	51.99	Al6s	
ATOM	44505	C3' CYT	1207	238.517	100.492	6.288	1.00	76.37	Al6s	ATOM	44558	C4	ADE	1210	229.513	105.002	-0.588	1.00	51.99	Al6s	
ATOM	44506	O3' CYT	1207	239.588	100.092	5.421	1.00	76.37	Al6s	ATOM	44559	N3	ADE	1210	228.353	105.632	-0.331	1.00	51.99	Al6s	
ATOM	44507	P	ADE	1208	239.836	98.526	5.063	1.00	59.04	Al6s	ATOM	44560	C2	ADE	1210	228.458	106.385	0.759	1.00	51.99	Al6s
ATOM	44508	O1P	ADE	1208	239.293	97.623	6.118	1.00	72.09	Al6s	ATOM	44561	N1	ADE	1210	229.508	106.576	1.557	1.00	51.99	Al6s
ATOM	44509	O2P	ADE	1208	241.269	98.423	4.688	1.00	72.09	Al6s	ATOM	44562	C6	ADE	1210	230.660	105.933	1.271	1.00	51.99	Al6s
ATOM	44510	O5' ADE	1208	239.000	98.179	3.749	1.00	59.04	Al6s	ATOM	44563	N6	ADE	1210	231.721	106.133	2.057	1.00	51.99	Al6s	
ATOM	44511	C5' ADE	1208	239.325	96.986	3.033	1.00	59.04	Al6s	ATOM	44564	C5	ADE	1210	230.678	105.093	0.151	1.00	51.99	Al6s	
ATOM	44512	C4' ADE	1208	238.408	96.752	1.849	1.00	59.04	Al6s	ATOM	44565	N7	ADE	1210	231.673	104.299	-0.401	1.00	51.99	Al6s	
ATOM	44513	O4' ADE	1208	237.189	96.059	2.229	1.00	59.04	Al6s	ATOM	44566	C8	ADE	1210	231.102	103.762	-1.451	1.00	51.99	Al6s	
ATOM	44514	C1' ADE	1208	236.213	96.269	1.220	1.00	59.04	Al6s	ATOM	44567	C2' ADE	1210	228.774	104.856	-3.785	1.00	57.36	Al6s		
ATOM	44515	N9	ADE	1208	235.014	96.840	1.829	1.00	72.09	Al6s	ATOM	44568	O2' ADE	1210	227.527	104.756	-4.441	1.00	57.36	Al6s	
ATOM	44516	C4	ADE	1208	233.804	96.216	1.931	1.00	72.09	Al6s	ATOM	44569	O3' ADE	1210	229.943	104.533	-4.699	1.00	57.36	Al6s	
ATOM	44517	N3	ADE	1208	232.505	94.975	1.528	1.00	72.09	Al6s	ATOM	44570	C3	ADE	1210	229.782	105.059	-5.983	1.00	46.13	Al6s
ATOM	44518	C2	ADE	1208	232.223	94.707	1.770	1.00	72.09	Al6s	ATOM	44571	P	CYT	1211	230.376	106.559	-6.265	1.00	46.13	Al6s
ATOM	44519	N1	ADE	1208	231.282	95.484	2.334	1.00	72.09	Al6s	ATOM	44572	O1P	CYT	1211	230.413	106.761	-7.728	1.00	51.81	Al6s
ATOM	44520	C6	ADE	1208	231.625	96.735	2.724	1.00	72.09	Al6s	ATOM	44573	O2P	CYT	1211	231.632	106.691	-5.473	1.00	51.81	Al6s
ATOM	44521	N6	ADE	1208	230.689	97.519	3.271	1.00	72.09	Al6s	ATOM	44574	O5' CYT	1211	229.287	107.541	-5.636	1.00	46.13	Al6s	
ATOM	44522	C5	ADE	1208	232.951	97.136	2.521	1.00	72.09	Al6s	ATOM	44575	C5' CYT	1211	227.930	107.524	-6.078	1.00	46.13	Al6s	
ATOM	44523	N7	ADE	1208	233.617	98.321	2.798	1.00	72.09	Al6s	ATOM	44576	C4' CYT	1211	227.097	108.457	-5.235	1.00	46.13	Al6s	
ATOM	44524	C8	ADE	1208	234.837	98.094	2.378	1.00	72.09	Al6s	ATOM	44577	O1' CYT	1211	227.056	107.952	-3.879	1.00	46.13	Al6s	
ATOM	44525	C2' ADE	1208	236.824	97.237	0.199	1.00	59.04	Al6s	ATOM	44578	C4' CYT	1211	227.096	109.034	-2.961	1.00	46.13	Al6s		
ATOM	44526	O2' ADE	1208	237.378	96.502	-0.875	1.00	59.04	Al6s	ATOM	44579	N1	CYT	1211	228.302	108.900	-2.134	1.00	51.81	Al6s	
ATOM	44527	C3' ADE	1208	237.900	97.922	1.032	1.00	59.04	Al6s	ATOM	44580	C6	CYT	1211	229.287	108.012	-2.460	1.00	51.81	Al6s	
ATOM	44528	O3' ADE	1208	238.888	98.493	0.187	1.00	59.04	Al6s	ATOM	44581	C2	CYT	1211	228.419	109.692	-0.997	1.00	51.81	Al6s	
ATOM	44529	P	CYT	1209	238.566	99.883	-0.554	1.00	59.71	Al6s	ATOM	44582	O2	CYT	1211	227.527	110.497	-0.747	1.00	51.81	Al6s
ATOM	44530	O1P	CYT	1209	239.674	100.253	-1.470	1.00	62.43	Al6s	ATOM	44583	N3	CYT	1211	229.501	109.561	-0.198	1.00	51.81	Al6s
ATOM	44531	O2P	CYT	1209	238.121	100.848	0.487	1.00	62.43	Al6s	ATOM	44584	C4	CYT	1211	230.446	108.673	-0.504	1.00	51.81	Al6s
ATOM	44532	O5' CYT	1209	237.314	99.512	-1.448	1.00	59.71	Al6s	ATOM	44585	N4	CYT	1211	231.483	108.545	0.337	1.00	51.81	Al6s	
ATOM	44533	C5' CYT	1209	236.416	100.506	-1.880	1.00	59.71	Al6s	ATOM	44586	C5	CYT	1211	230.366	107.864	-1.681	1.00	51.81	Al6s	
ATOM	44534	C4' CYT	1209	235.052	99.911	-2.020	1.00	59.71	Al6s	ATOM	44587	C2' CYT	1211	227.049	110.321	-3.779	1.00	46.13	Al6s		
ATOM	44535	O4' CYT	1209	234.640	99.380	-0.732	1.00	59.71	Al6s	ATOM	44588	O2' CYT	1211	225.708	110.739	-3.933	1.00	46.13	Al6s		
ATOM	44536	C1' CYT	1209	233.267	99.671	-0.517	1.00	59.71	Al6s	ATOM	44589	C3' CYT	1211	227.664	109.854	-5.085	1.00	46.13	Al6s		
ATOM	44537	N1	CYT	1209	233.171	100.651	0.583	1.00	62.43	Al6s	ATOM	44590	O3' CYT	1211	227.252	110.684	-6.148	1.00	46.13	Al6s	
ATOM	44538	C6	CYT	1209	234.268	101.360	0.987	1.00	62.43	Al6s	ATOM	44591	P	GUA	1212	228.006	112.072	-6.388	1.00	44.50	Al6s

ATOM	44592	O1P	GUA	1212	227.587	112.608	-7.716	1.00	50.21	A16S	ATOM	44645	C2	GUA	1214	236.986	118.698	-0.026	1.00	54.71	A1
ATOM	44593	O2P	GUA	1212	229.445	111.877	-6.081	1.00	50.21	A16S	ATOM	44646	N2	GUA	1214	237.981	118.778	0.866	1.00	54.71	A1
ATOM	44594	O5	GUA	1212	227.417	113.018	-5.267	1.00	44.50	A16S	ATOM	44647	N1	GUA	1214	237.065	117.662	-0.914	1.00	54.71	A1
ATOM	44595	C5	GUA	1212	226.044	113.340	-5.247	1.00	44.50	A16S	ATOM	44648	C6	GUA	1214	236.155	117.408	-1.927	1.00	54.71	A1
ATOM	44596	C4	GUA	1212	225.733	114.127	-4.008	1.00	44.50	A16S	ATOM	44649	O6	GUA	1214	236.310	116.425	-2.658	1.00	54.71	A1
ATOM	44597	O4	GUA	1212	226.077	113.335	-2.839	1.00	44.50	A16S	ATOM	44650	C5	GUA	1214	235.130	118.372	-1.949	1.00	54.71	A1
ATOM	44598	C1	GUA	1212	226.404	114.208	-1.780	1.00	44.50	A16S	ATOM	44651	N7	GUA	1214	234.038	118.505	-2.803	1.00	54.71	A1
ATOM	44599	N9	GUA	1212	227.777	113.853	-1.338	1.00	50.21	A16S	ATOM	44652	C8	GUA	1214	233.396	119.546	-2.351	1.00	54.71	A1
ATOM	44600	C4	GUA	1212	228.450	114.400	-0.286	1.00	50.21	A16S	ATOM	44653	C2	GUA	1214	234.414	122.429	-0.421	1.00	42.67	A1
ATOM	44601	N3	GUA	1212	227.994	115.379	0.514	1.00	50.21	A16S	ATOM	44654	O2	GUA	1214	234.287	123.050	0.843	1.00	42.67	A1
ATOM	44602	C2	GUA	1212	228.879	115.710	1.429	1.00	50.21	A16S	ATOM	44655	C3	GUA	1214	233.842	123.274	-1.554	1.00	42.67	A1
ATOM	44603	N2	GUA	1212	228.605	116.697	2.293	1.00	50.21	A16S	ATOM	44656	O3	GUA	1214	233.170	124.652	-1.461	1.00	42.67	A1
ATOM	44604	N1	GUA	1212	230.104	115.109	1.561	1.00	50.21	A16S	ATOM	44657	P	CYT	1215	235.273	125.272	-2.457	1.00	54.77	A1
ATOM	44605	C6	GUA	1212	230.583	114.090	0.752	1.00	50.21	A16S	ATOM	44658	O1P	CYT	1215	235.209	126.759	-2.342	1.00	50.70	A1
ATOM	44606	O6	GUA	1212	231.701	113.606	0.963	1.00	50.21	A16S	ATOM	44659	O2P	CYT	1215	235.104	124.639	-3.794	1.00	50.70	A1
ATOM	44607	C5	GUA	1212	229.655	113.745	-0.243	1.00	50.21	A16S	ATOM	44660	O5	CYT	1215	236.634	124.759	-1.800	1.00	54.77	A1
ATOM	44608	N7	GUA	1212	229.739	112.808	-1.256	1.00	50.21	A16S	ATOM	44661	C5	CYT	1215	237.015	125.228	-0.517	1.00	54.77	A1
ATOM	44609	C8	GUA	1212	228.601	112.910	-1.880	1.00	50.21	A16S	ATOM	44662	C4	CYT	1215	238.165	124.427	0.032	1.00	54.77	A1
ATOM	44610	O2	GUA	1212	226.346	115.632	-2.326	1.00	44.50	A16S	ATOM	44663	O4	CYT	1215	237.806	123.028	0.100	1.00	54.77	A1
ATOM	44611	O2	GUA	1212	225.053	116.148	-2.084	1.00	44.50	A16S	ATOM	44664	C1	CYT	1215	238.944	122.227	-0.153	1.00	54.77	A1
ATOM	44612	C3	GUA	1212	226.567	115.374	-3.801	1.00	44.50	A16S	ATOM	44665	N1	CYT	1215	238.673	121.426	-1.358	1.00	50.70	A1
ATOM	44613	O3	GUA	1212	226.124	116.447	-4.595	1.00	44.50	A16S	ATOM	44666	C6	CYT	1215	237.547	121.644	-2.107	1.00	50.70	A1
ATOM	44614	P	URI	1213	227.201	117.493	-5.152	1.00	37.93	A16S	ATOM	44667	C2	CYT	1215	239.571	120.416	-1.714	1.00	50.70	A1
ATOM	44615	O1P	URI	1213	226.569	118.425	-6.132	1.00	58.08	A16S	ATOM	44668	O2	CYT	1215	240.619	120.293	-1.066	1.00	50.70	A1
ATOM	44616	O2P	URI	1213	228.402	116.714	-5.542	1.00	58.08	A16S	ATOM	44669	N3	CYT	1215	239.282	119.611	-2.764	1.00	50.70	A1
ATOM	44617	O5	URI	1213	227.535	118.336	-3.859	1.00	37.93	A16S	ATOM	44670	C4	CYT	1215	238.163	119.802	-3.460	1.00	50.70	A1
ATOM	44618	C5	URI	1213	226.545	119.151	-2.267	1.00	37.93	A16S	ATOM	44671	N4	CYT	1215	237.899	118.958	-4.452	1.00	50.70	A1
ATOM	44619	C4	URI	1213	227.116	119.810	-2.055	1.00	37.93	A16S	ATOM	44672	C5	CYT	1215	237.258	120.863	-3.157	1.00	50.70	A1
ATOM	44620	O4	URI	1213	227.569	118.783	-1.146	1.00	37.93	A16S	ATOM	44673	C2	CYT	1215	240.125	123.183	-0.293	1.00	54.77	A1
ATOM	44621	C1	URI	1213	228.737	119.215	-0.489	1.00	37.93	A16S	ATOM	44674	O2	CYT	1215	240.706	123.343	0.981	1.00	54.77	A1
ATOM	44622	N1	URI	1213	229.765	118.206	-0.732	1.00	58.08	A16S	ATOM	44675	C3	CYT	1215	239.423	124.636	-0.795	1.00	54.77	A1
ATOM	44623	C6	URI	1213	229.603	117.264	-1.707	1.00	58.08	A16S	ATOM	44676	O3	CYT	1215	240.148	125.416	-0.522	1.00	54.77	A1
ATOM	44624	C2	URI	1213	230.895	118.243	0.051	1.00	58.08	A16S	ATOM	44677	P	URI	1216	240.896	126.373	-1.720	1.00	45.23	A1
ATOM	44625	O2	URI	1213	231.060	119.073	0.930	1.00	58.08	A16S	ATOM	44678	O1P	URI	1216	241.475	127.632	-1.161	1.00	50.00	A1
ATOM	44626	N3	URI	1213	231.826	117.275	-0.237	1.00	58.08	A16S	ATOM	44679	O2P	URI	1216	239.960	126.454	-2.867	1.00	50.00	A1
ATOM	44627	C4	URI	1213	231.730	116.305	-1.209	1.00	58.08	A16S	ATOM	44680	O5	URI	1216	242.087	125.371	-2.071	1.00	45.23	A1
ATOM	44628	O4	URI	1213	232.648	115.508	-1.360	1.00	58.08	A16S	ATOM	44681	C5	URI	1216	243.113	125.107	-1.125	1.00	45.23	A1
ATOM	44629	C5	URI	1213	230.522	116.338	-1.967	1.00	58.08	A16S	ATOM	44682	C4	URI	1216	244.050	124.055	-1.655	1.00	45.23	A1
ATOM	44630	C2	URI	1213	229.103	120.596	-1.036	1.00	37.93	A16S	ATOM	44683	O4	URI	1216	243.380	122.768	-1.690	1.00	45.23	A1
ATOM	44631	O2	URI	1213	228.661	121.608	-0.163	1.00	37.93	A16S	ATOM	44684	C1	URI	1216	243.906	121.986	-2.759	1.00	45.23	A1
ATOM	44632	C3	URI	1213	228.364	120.602	-2.365	1.00	37.93	A16S	ATOM	44685	N1	URI	1216	242.813	121.602	-3.674	1.00	50.00	A1
ATOM	44633	O3	URI	1213	227.994	121.906	-2.787	1.00	37.93	A16S	ATOM	44686	C6	URI	1216	241.615	122.281	-3.696	1.00	50.00	A1
ATOM	44634	P	GUA	1214	229.098	122.856	-3.433	1.00	42.67	A16S	ATOM	44687	C2	URI	1216	243.030	119.819	-4.546	1.00	50.00	A1
ATOM	44635	O1P	GUA	1214	228.526	124.213	-3.615	1.00	54.71	A16S	ATOM	44688	O2	URI	1216	244.068	119.879	-4.546	1.00	50.00	A1
ATOM	44636	O2P	GUA	1214	229.664	122.130	-4.597	1.00	54.71	A16S	ATOM	44689	N3	URI	1216	241.983	120.215	-5.358	1.00	50.00	A1
ATOM	44637	O5	GUA	1214	230.199	122.901	-2.287	1.00	42.67	A16S	ATOM	44690	C4	URI	1216	240.772	120.861	-5.432	1.00	50.00	A1
ATOM	44638	C5	GUA	1214	231.506	123.345	-2.546	1.00	42.67	A16S	ATOM	44691	O4	URI	1216	239.978	120.535	-6.307	1.00	50.00	A1
ATOM	44639	C4	GUA	1214	232.358	123.063	-1.361	1.00	42.67	A16S	ATOM	44692	C5	URI	1216	240.616	121.954	-4.520	1.00	50.00	A1
ATOM	44640	O4	GUA	1214	232.257	121.655	-1.043	1.00	42.67	A16S	ATOM	44693	C2	URI	1216	244.968	122.842	-3.443	1.00	45.23	A1
ATOM	44641	C1	GUA	1214	233.478	121.219	-0.463	1.00	42.67	A16S	ATOM	44694	O2	URI	1216	246.219	122.598	-2.854	1.00	45.23	A1
ATOM	44642	N9	GUA	1214	233.982	120.099	-1.246	1.00	54.71	A16S	ATOM	44695	C3	URI	1216	244.494	124.237	-3.092	1.00	45.23	A1
ATOM	44643	C4	GUA	1214	235.115	119.367	-0.999	1.00	54.71	A16S	ATOM	44696	O3	URI	1216	245.558	125.156	-3.226	1.00	45.23	A1
ATOM	44644	N3	GUA	1214	236.007	119.591	-0.014	1.00	54.71	A16S	ATOM	44697	P	ADE	1217	245.706	125.987	-4.591	1.00	51.23	A1

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ATOM	44698	O1P	ADE	1217	246.937	126.801	-4.411	1.00	45.59	Al6S	ATOM	44751	N1	ADE	1219	255.558	127.019	-12.097	1.00	66.41	Al
ATOM	44699	O2P	ADE	1217	244.419	126.674	-4.864	1.00	45.59	Al6S	ATOM	44752	C6	ADE	1219	255.696	125.741	-12.508	1.00	66.41	Al
ATOM	44700	O5'	ADE	1217	245.911	124.872	-5.725	1.00	51.23	Al6S	ATOM	44753	N6	ADE	1219	256.906	125.198	-12.503	1.00	66.41	Al
ATOM	44701	C5'	ADE	1217	247.088	124.079	-5.738	1.00	51.23	Al6S	ATOM	44754	C5	ADE	1219	254.545	125.060	-12.923	1.00	66.41	Al
ATOM	44702	C4'	ADE	1217	246.989	122.892	-6.694	1.00	51.23	Al6S	ATOM	44755	N7	ADE	1219	254.338	123.767	-13.381	1.00	66.41	Al
ATOM	44703	O4'	ADE	1217	245.826	122.060	-6.438	1.00	51.23	Al6S	ATOM	44756	C8	ADE	1219	253.049	123.720	-13.618	1.00	66.41	Al
ATOM	44704	C1'	ADE	1217	245.660	121.170	-7.537	1.00	51.23	Al6S	ATOM	44757	C2'	ADE	1219	250.846	126.395	-14.527	1.00	49.79	Al
ATOM	44705	N9	ADE	1217	244.270	121.187	-8.011	1.00	45.59	Al6S	ATOM	44758	O2'	ADE	1219	249.757	127.177	-14.105	1.00	49.79	Al
ATOM	44706	C3	ADE	1217	243.628	120.132	-8.619	1.00	45.59	Al6S	ATOM	44759	C3'	ADE	1219	250.536	125.642	-15.813	1.00	49.79	Al
ATOM	44707	N3	ADE	1217	244.120	118.903	-8.861	1.00	45.59	Al6S	ATOM	44760	O3'	ADE	1219	249.886	126.516	-16.727	1.00	57.26	Al
ATOM	44708	C2	ADE	1217	243.213	118.143	-9.469	1.00	45.59	Al6S	ATOM	44761	P	ADE	1220	250.753	127.312	-17.815	1.00	57.26	Al
ATOM	44709	N1	ADE	1217	241.965	118.452	-9.844	1.00	45.59	Al6S	ATOM	44762	O1P	ADE	1220	249.855	127.930	-18.808	1.00	47.80	Al
ATOM	44710	C6	ADE	1217	241.508	119.700	-9.599	1.00	45.59	Al6S	ATOM	44763	O2P	ADE	1220	251.786	126.350	-18.259	1.00	47.80	Al
ATOM	44711	N5	ADE	1217	240.275	120.018	-9.992	1.00	45.59	Al6S	ATOM	44764	O5'	ADE	1220	251.446	128.486	-16.983	1.00	57.26	Al
ATOM	44712	C6	ADE	1217	242.369	120.596	-8.946	1.00	45.59	Al6S	ATOM	44765	C5'	ADE	1220	251.200	129.875	-17.274	1.00	57.26	Al
ATOM	44713	N7	ADE	1217	242.213	121.911	-8.546	1.00	45.59	Al6S	ATOM	44766	C4'	ADE	1220	252.513	130.628	-17.322	1.00	57.26	Al
ATOM	44714	C8	ADE	1217	243.361	122.211	-7.990	1.00	45.59	Al6S	ATOM	44767	O4'	ADE	1220	253.435	129.897	-16.489	1.00	57.26	Al
ATOM	44715	O2'	ADE	1217	246.652	121.618	-8.615	1.00	51.23	Al6S	ATOM	44768	C1'	ADE	1220	254.727	130.175	-16.941	1.00	57.26	Al
ATOM	44716	C2'	ADE	1217	247.806	120.834	-8.448	1.00	51.23	Al6S	ATOM	44769	N9	ADE	1220	255.658	129.136	-16.544	1.00	47.80	Al
ATOM	44717	C3'	ADE	1217	246.938	123.059	-8.206	1.00	51.23	Al6S	ATOM	44770	C4	ADE	1220	257.006	129.361	-16.469	1.00	47.80	Al
ATOM	44718	O3'	ADE	1217	248.214	123.416	-8.737	1.00	51.23	Al6S	ATOM	44771	N3	ADE	1220	257.647	130.516	-16.728	1.00	47.80	Al
ATOM	44719	P	CYT	1218	249.573	124.090	-10.197	1.00	59.54	Al6S	ATOM	44772	C2	ADE	1220	258.956	130.370	-16.559	1.00	47.80	Al
ATOM	44720	O1P	CYT	1218	248.321	124.875	-10.259	1.00	49.73	Al6S	ATOM	44773	N1	ADE	1220	259.648	129.284	-16.181	1.00	47.80	Al
ATOM	44721	O2P	CYT	1218	247.035	124.763	-10.484	1.00	49.73	Al6S	ATOM	44774	C6	ADE	1220	258.971	128.142	-15.918	1.00	47.80	Al
ATOM	44722	O5'	CYT	1218	248.479	122.857	-11.192	1.00	59.54	Al6S	ATOM	44775	N6	ADE	1220	259.659	127.068	-15.518	1.00	47.80	Al
ATOM	44723	C5'	CYT	1218	249.579	121.969	-11.081	1.00	59.54	Al6S	ATOM	44776	C5	ADE	1220	257.568	128.164	-16.076	1.00	47.80	Al
ATOM	44724	C4'	CYT	1218	249.293	120.695	-11.835	1.00	59.54	Al6S	ATOM	44777	N7	ADE	1220	256.584	127.196	-15.906	1.00	47.80	Al
ATOM	44725	O4'	CYT	1218	248.197	119.994	-11.204	1.00	59.54	Al6S	ATOM	44778	C8	ADE	1220	255.470	127.829	-16.191	1.00	47.80	Al
ATOM	44726	C1'	CYT	1218	247.384	119.380	-12.189	1.00	59.54	Al6S	ATOM	44779	C2'	ADE	1220	254.672	130.462	-18.437	1.00	57.26	Al
ATOM	44727	N1	CYT	1218	246.033	119.967	-12.108	1.00	49.73	Al6S	ATOM	44780	O2'	ADE	1220	255.487	131.576	-18.721	1.00	57.26	Al
ATOM	44728	C6	CYT	1218	245.866	121.271	-11.736	1.00	49.73	Al6S	ATOM	44781	C3'	ADE	1220	253.179	130.685	-18.700	1.00	57.26	Al
ATOM	44729	C2	CYT	1218	244.923	119.186	-12.454	1.00	49.73	Al6S	ATOM	44782	O3'	ADE	1220	253.163	131.999	-19.281	1.00	57.26	Al
ATOM	44730	O2	CYT	1218	245.082	117.980	-12.691	1.00	49.73	Al6S	ATOM	44783	P	URI	1221	251.795	132.809	-19.485	1.00	56.77	Al
ATOM	44731	N3	CYT	1218	243.702	119.763	-12.502	1.00	49.73	Al6S	ATOM	44784	O1P	URI	1221	250.778	131.884	-20.040	1.00	62.78	Al
ATOM	44732	C4	CYT	1218	243.561	121.054	-12.184	1.00	49.73	Al6S	ATOM	44785	O2P	URI	1221	252.132	134.045	-20.223	1.00	62.78	Al
ATOM	44733	N4	CYT	1218	242.350	121.596	-12.287	1.00	49.73	Al6S	ATOM	44786	O5'	URI	1221	251.363	133.204	-18.006	1.00	56.77	Al
ATOM	44734	C5	CYT	1218	244.660	121.848	-11.758	1.00	49.73	Al6S	ATOM	44787	C5'	URI	1221	251.497	134.544	-17.541	1.00	56.77	Al
ATOM	44735	C2'	CYT	1218	248.048	119.627	-13.550	1.00	59.54	Al6S	ATOM	44788	C4'	URI	1221	250.136	135.146	-17.244	1.00	56.77	Al
ATOM	44736	O2'	CYT	1218	248.851	118.533	-13.938	1.00	59.54	Al6S	ATOM	44789	O4'	URI	1221	247.928	135.178	-18.427	1.00	56.77	Al
ATOM	44737	C3'	CYT	1218	248.876	120.876	-13.283	1.00	59.54	Al6S	ATOM	44790	C1'	URI	1221	247.996	135.305	-18.036	1.00	56.77	Al
ATOM	44738	O3'	CYT	1218	250.051	120.877	-14.082	1.00	59.54	Al6S	ATOM	44791	N1	URI	1221	247.127	134.913	-19.149	1.00	62.78	Al
ATOM	44739	P	ADE	1219	249.943	120.891	-15.683	1.00	49.79	Al6S	ATOM	44792	C6	URI	1221	247.461	133.903	-20.009	1.00	62.78	Al
ATOM	44740	O1P	ADE	1219	248.547	120.621	-16.080	1.00	66.41	Al6S	ATOM	44793	C2	URI	1221	245.982	135.650	-19.333	1.00	62.78	Al
ATOM	44741	O2P	ADE	1219	251.023	120.012	-16.199	1.00	49.79	Al6S	ATOM	44794	O2	URI	1221	245.622	136.505	-18.553	1.00	62.78	Al
ATOM	44742	O5'	ADE	1219	250.298	122.400	-16.050	1.00	49.79	Al6S	ATOM	44795	N3	URI	1221	245.275	135.353	-20.466	1.00	62.78	Al
ATOM	44743	C5'	ADE	1219	249.279	123.371	-16.149	1.00	49.79	Al6S	ATOM	44796	C4	URI	1221	245.584	134.399	-21.402	1.00	62.78	Al
ATOM	44744	O4'	ADE	1219	249.596	124.573	-15.287	1.00	49.79	Al6S	ATOM	44797	O4	URI	1221	244.944	134.359	-22.446	1.00	62.78	Al
ATOM	44745	C4'	ADE	1219	250.285	124.141	-14.081	1.00	49.79	Al6S	ATOM	44798	C5	URI	1221	246.748	133.627	-21.105	1.00	62.78	Al
ATOM	44746	C1'	ADE	1219	250.991	125.248	-13.532	1.00	49.79	Al6S	ATOM	44799	C2'	URI	1221	247.830	134.736	-16.623	1.00	56.77	Al
ATOM	44747	N9	ADE	1219	252.398	124.898	-13.355	1.00	66.41	Al6S	ATOM	44800	O2'	URI	1221	247.192	135.726	-15.855	1.00	56.77	Al
ATOM	44748	C3	ADE	1219	253.358	125.762	-12.890	1.00	66.41	Al6S	ATOM	44801	C3'	URI	1221	249.283	134.477	-16.176	1.00	56.77	Al
ATOM	44749	N4	ADE	1219	253.184	127.033	-12.492	1.00	66.41	Al6S	ATOM	44802	O3'	URI	1221	249.607	135.241	-15.010	1.00	56.77	Al
ATOM	44750	C2	ADE	1219	254.341	127.568	-12.114	1.00	66.41	Al6S	ATOM	44803	P	GUA	1222	249.170	134.755	-13.542	1.00	51.54	Al

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ATOM	44804	O1P	GUA	1222	247.708	134.497	-13.545	1.00	66.76	Al6S	ATOM	44857	O2	CYT	1224	260.602	133.301	-6.715	1.00	55.98	Al
ATOM	44805	O2P	GUA	1222	249.718	135.750	-12.595	1.00	66.76	Al6S	ATOM	44858	N3	CYT	1224	258.919	134.449	-7.707	1.00	55.98	Al
ATOM	44806	O5'	GUA	1222	249.956	133.387	-13.321	1.00	51.54	Al6S	ATOM	44859	C4	CYT	1224	257.610	134.542	-7.937	1.00	55.98	Al
ATOM	44807	C5'	GUA	1222	249.255	132.162	-13.254	1.00	51.54	Al6S	ATOM	44860	N4	CYT	1224	257.174	135.546	-8.702	1.00	55.98	Al
ATOM	44808	C4'	GUA	1222	250.171	131.055	-12.814	1.00	51.54	Al6S	ATOM	44861	C5	CYT	1224	256.685	133.606	-7.399	1.00	55.98	Al
ATOM	44809	O4'	GUA	1222	251.143	130.784	-13.854	1.00	51.54	Al6S	ATOM	44862	C2'	CYT	1224	259.347	131.892	-4.148	1.00	60.14	Al
ATOM	44810	C1'	GUA	1222	252.368	130.401	-13.263	1.00	51.54	Al6S	ATOM	44863	O3'	CYT	1224	260.496	131.206	-3.690	1.00	60.14	Al
ATOM	44811	N9	GUA	1222	253.388	131.353	-13.690	1.00	66.76	Al6S	ATOM	44864	C2'	CYT	1224	258.065	131.484	-3.425	1.00	60.14	Al
ATOM	44812	C4	GUA	1222	254.748	131.208	-13.569	1.00	66.76	Al6S	ATOM	44865	O3'	CYT	1224	258.258	131.248	-2.029	1.00	60.14	Al
ATOM	44813	N3	GUA	1222	255.387	130.157	-13.019	1.00	66.76	Al6S	ATOM	44866	P	CYT	1225	257.907	132.405	-0.968	1.00	103.33	Al
ATOM	44814	C2	GUA	1222	256.695	130.304	-13.058	1.00	66.76	Al6S	ATOM	44867	O1P	CYT	1225	257.824	131.744	0.359	1.00	72.42	Al
ATOM	44815	N2	GUA	1222	257.479	129.354	-12.561	1.00	66.76	Al6S	ATOM	44868	O2P	CYT	1225	256.764	133.206	-1.465	1.00	72.42	Al
ATOM	44816	N1	GUA	1222	257.328	131.395	-13.589	1.00	66.76	Al6S	ATOM	44869	O5'	CYT	1225	259.184	133.355	-0.994	1.00	103.33	Al
ATOM	44817	C6	GUA	1222	256.690	132.491	-14.155	1.00	66.76	Al6S	ATOM	44870	C5'	CYT	1225	260.402	132.945	-0.385	1.00	103.33	Al
ATOM	44818	O6	GUA	1222	257.354	133.432	-14.596	1.00	66.76	Al6S	ATOM	44871	C4'	CYT	1225	261.490	133.945	-0.674	1.00	103.33	Al
ATOM	44819	C5	GUA	1222	255.288	132.345	-14.128	1.00	66.76	Al6S	ATOM	44872	O4'	CYT	1225	261.771	133.943	-2.097	1.00	103.33	Al
ATOM	44820	N7	GUA	1222	254.290	133.189	-14.590	1.00	66.76	Al6S	ATOM	44873	C1'	CYT	1225	262.132	135.247	-2.510	1.00	103.33	Al
ATOM	44821	C8	GUA	1222	253.182	132.562	-14.307	1.00	66.76	Al6S	ATOM	44874	N1	CYT	1225	261.112	135.725	-3.439	1.00	72.42	Al
ATOM	44822	C2'	GUA	1222	252.141	130.331	-11.747	1.00	51.54	Al6S	ATOM	44875	C6	CYT	1225	259.847	136.208	-3.423	1.00	72.42	Al
ATOM	44823	O2'	GUA	1222	251.761	129.015	-11.394	1.00	51.54	Al6S	ATOM	44876	C2	CYT	1225	261.452	136.736	-4.334	1.00	72.42	Al
ATOM	44824	C3'	GUA	1222	250.988	131.313	-11.561	1.00	51.54	Al6S	ATOM	44877	O2	CYT	1225	262.612	137.159	-4.337	1.00	72.42	Al
ATOM	44825	O3'	GUA	1222	250.209	130.991	-10.411	1.00	51.54	Al6S	ATOM	44878	N3	CYT	1225	260.511	137.224	-5.174	1.00	72.42	Al
ATOM	44826	P	CYT	1223	250.654	131.498	-8.951	1.00	47.06	Al6S	ATOM	44879	C4	CYT	1225	259.274	136.723	-5.147	1.00	72.42	Al
ATOM	44827	O1P	CYT	1223	249.655	131.030	-7.971	1.00	56.63	Al6S	ATOM	44880	N4	CYT	1225	258.378	137.232	-5.988	1.00	72.42	Al
ATOM	44828	O2P	CYT	1223	251.000	132.937	-9.020	1.00	56.63	Al6S	ATOM	44881	C5	CYT	1225	258.903	135.674	-4.252	1.00	72.42	Al
ATOM	44829	O5'	CYT	1223	251.982	130.668	-8.656	1.00	47.06	Al6S	ATOM	44882	C2'	CYT	1225	262.163	136.117	-1.257	1.00	103.33	Al
ATOM	44830	C5'	CYT	1223	251.887	129.307	-8.283	1.00	47.06	Al6S	ATOM	44883	C3'	CYT	1225	263.461	136.093	-0.702	1.00	103.33	Al
ATOM	44831	C4'	CYT	1223	253.245	128.773	-7.934	1.00	47.06	Al6S	ATOM	44884	O2'	CYT	1225	261.152	135.396	-0.383	1.00	103.33	Al
ATOM	44832	O4'	CYT	1223	253.043	128.731	-9.141	1.00	47.06	Al6S	ATOM	44885	O3'	CYT	1225	261.312	135.721	0.993	1.00	78.83	Al
ATOM	44833	C1'	CYT	1223	255.386	129.064	-8.828	1.00	47.06	Al6S	ATOM	44886	P	ADE	1226	260.599	137.036	1.584	1.00	78.83	Al
ATOM	44834	N1	CYT	1223	255.697	130.349	-9.468	1.00	56.63	Al6S	ATOM	44887	O1P	ADE	1226	259.993	137.140	3.015	1.00	105.07	Al
ATOM	44835	C6	CYT	1223	254.704	131.166	-9.938	1.00	56.63	Al6S	ATOM	44888	O2P	ADE	1226	259.157	136.999	1.220	1.00	105.07	Al
ATOM	44836	C2	CYT	1223	257.029	130.722	-9.582	1.00	56.63	Al6S	ATOM	44889	O5'	ADE	1226	261.287	138.229	0.783	1.00	78.83	Al
ATOM	44837	O2	CYT	1223	257.899	129.952	-9.144	1.00	56.63	Al6S	ATOM	44890	C5'	ADE	1226	262.661	138.519	0.979	1.00	78.83	Al
ATOM	44838	N3	CYT	1223	257.337	131.907	-10.161	1.00	56.63	Al6S	ATOM	44891	C4'	ADE	1226	263.069	139.702	0.146	1.00	78.83	Al
ATOM	44839	C4	CYT	1223	256.364	132.701	-10.616	1.00	56.63	Al6S	ATOM	44892	O4'	ADE	1226	262.828	139.396	-1.249	1.00	78.83	Al
ATOM	44840	N4	CYT	1223	256.713	133.859	-11.182	1.00	56.63	Al6S	ATOM	44893	C1'	ADE	1226	262.519	140.589	-1.950	1.00	78.83	Al
ATOM	44841	C5	CYT	1223	254.989	132.340	-10.510	1.00	56.63	Al6S	ATOM	44894	N9	ADE	1226	261.223	140.415	-2.603	1.00	105.07	Al
ATOM	44842	C2'	CYT	1223	255.469	129.157	-7.305	1.00	47.06	Al6S	ATOM	44895	C4	ADE	1226	260.723	141.196	-3.616	1.00	105.07	Al
ATOM	44843	O2'	CYT	1223	255.740	127.877	-6.762	1.00	47.06	Al6S	ATOM	44896	N3	ADE	1226	261.319	142.248	-4.201	1.00	105.07	Al
ATOM	44844	C3'	CYT	1223	254.064	129.632	-6.982	1.00	47.06	Al6S	ATOM	44897	C2	ADE	1226	260.534	142.770	-5.139	1.00	105.07	Al
ATOM	44845	O3'	CYT	1223	253.721	129.392	-5.621	1.00	47.06	Al6S	ATOM	44898	N1	ADE	1226	259.313	142.391	-5.528	1.00	105.07	Al
ATOM	44846	P	CYT	1224	253.834	130.584	-4.550	1.00	60.14	Al6S	ATOM	44899	C6	ADE	1226	258.742	141.329	-4.917	1.00	105.07	Al
ATOM	44847	O1P	CYT	1224	253.357	130.056	-3.247	1.00	55.98	Al6S	ATOM	44900	N6	ADE	1226	257.520	140.957	-5.297	1.00	105.07	Al
ATOM	44848	O2P	CYT	1224	253.216	131.795	-5.131	1.00	55.98	Al6S	ATOM	44901	C5	ADE	1226	259.476	140.683	-3.908	1.00	105.07	Al
ATOM	44849	O5'	CYT	1224	255.400	130.825	-4.418	1.00	60.14	Al6S	ATOM	44902	N7	ADE	1226	259.195	139.588	-3.101	1.00	105.07	Al
ATOM	44850	C5'	CYT	1224	256.264	129.759	-4.022	1.00	60.14	Al6S	ATOM	44903	C8	ADE	1226	260.260	139.470	-2.348	1.00	105.07	Al
ATOM	44851	C4'	CYT	1224	257.713	130.184	-4.122	1.00	60.14	Al6S	ATOM	44904	C2'	ADE	1226	262.530	141.732	-0.931	1.00	78.83	Al
ATOM	44852	O4'	CYT	1224	258.075	130.416	-5.509	1.00	60.14	Al6S	ATOM	44905	O2'	ADE	1226	263.782	142.389	-0.960	1.00	78.83	Al
ATOM	44853	C1'	CYT	1224	259.046	131.440	-5.578	1.00	60.14	Al6S	ATOM	44906	C3'	ADE	1226	262.275	140.974	0.367	1.00	78.83	Al
ATOM	44854	N1	CYT	1224	258.511	132.515	-6.408	1.00	55.98	Al6S	ATOM	44907	O3'	ADE	1226	262.720	141.689	1.515	1.00	78.83	Al
ATOM	44855	C6	CYT	1224	257.175	132.616	-6.647	1.00	55.98	Al6S	ATOM	44908	P	CYT	1227	261.674	142.592	2.338	1.00	76.63	Al
ATOM	44856	C2	CYT	1224	259.395	133.437	-6.947	1.00	55.98	Al6S	ATOM	44909	O1P	CYT	1227	262.357	143.010	3.584	1.00	98.30	Al

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ATOM	44910	O2P	CYT	1227	260.376	141.872	2.424	1.00	98.30	Al6s	ATOM	44963	C5	ADE	1229	249.954	146.776	-2.032	1.00	77.99	Al6t
ATOM	44911	O5	CYT	1227	261.477	143.878	1.420	1.00	76.63	Al6s	ATOM	44964	N7	ADE	1229	251.031	146.837	-1.161	1.00	77.99	Al6t
ATOM	44912	C5	CYT	1227	262.541	144.796	1.230	1.00	76.63	Al6s	ATOM	44965	C8	ADE	1229	251.363	148.105	-1.163	1.00	77.99	Al6t
ATOM	44913	C4	CYT	1227	262.180	145.801	0.169	1.00	76.63	Al6s	ATOM	44966	C2	ADE	1229	249.887	151.198	-1.281	1.00	88.13	Al6t
ATOM	44914	O4	CYT	1227	262.004	145.112	-1.096	1.00	76.63	Al6s	ATOM	44967	C3	ADE	1229	249.435	152.335	-1.989	1.00	88.13	Al6t
ATOM	44915	C1	CYT	1227	260.993	145.762	-1.855	1.00	76.63	Al6s	ATOM	44968	O2	ADE	1229	250.953	151.599	-0.271	1.00	88.13	Al6t
ATOM	44916	N1	CYT	1227	259.881	144.817	-2.034	1.00	98.30	Al6s	ATOM	44969	O3	ADE	1229	250.600	152.815	0.377	1.00	88.13	Al6t
ATOM	44917	C6	CYT	1227	259.776	143.702	-1.250	1.00	98.30	Al6s	ATOM	44970	P	CYT	1230	249.278	152.879	1.295	1.00	80.99	Al6t
ATOM	44918	C2	CYT	1227	258.924	145.082	-3.018	1.00	98.30	Al6s	ATOM	44971	O1P	CYT	1230	249.146	154.240	1.877	1.00	56.30	Al6t
ATOM	44919	O2	CYT	1227	259.047	146.098	-3.712	1.00	98.30	Al6s	ATOM	44972	O2P	CYT	1230	248.941	151.697	1.196	1.00	56.30	Al6t
ATOM	44920	N3	CYT	1227	257.892	144.228	-3.183	1.00	98.30	Al6s	ATOM	44973	O5	CYT	1230	248.097	152.761	0.242	1.00	80.99	Al6t
ATOM	44921	C4	CYT	1227	257.793	143.146	-2.407	1.00	98.30	Al6s	ATOM	44974	C5	CYT	1230	246.780	152.518	0.680	1.00	80.99	Al6t
ATOM	44922	N4	CYT	1227	256.751	142.333	-2.598	1.00	98.30	Al6s	ATOM	44975	C4	CYT	1230	245.848	152.450	-0.493	1.00	80.99	Al6t
ATOM	44923	C5	CYT	1227	258.757	142.849	-1.399	1.00	98.30	Al6s	ATOM	44976	O4	CYT	1230	246.441	151.651	-1.549	1.00	80.99	Al6t
ATOM	44924	C2	CYT	1227	260.562	146.991	-1.055	1.00	76.63	Al6s	ATOM	44977	C1	CYT	1230	245.511	150.678	-1.982	1.00	80.99	Al6t
ATOM	44925	O2	CYT	1227	261.335	148.114	-1.425	1.00	76.63	Al6s	ATOM	44978	N1	CYT	1230	245.937	149.404	-1.393	1.00	56.30	Al6t
ATOM	44926	C3	CYT	1227	260.857	146.519	0.359	1.00	76.63	Al6s	ATOM	44979	C6	CYT	1230	246.919	149.378	-0.443	1.00	56.30	Al6t
ATOM	44927	O3	CYT	1227	260.952	147.595	1.275	1.00	76.63	Al6s	ATOM	44980	C2	CYT	1230	245.331	148.223	-1.813	1.00	56.30	Al6t
ATOM	44928	P	URI	1228	259.714	147.913	2.248	1.00	79.35	Al6s	ATOM	44981	O2	CYT	1230	244.447	148.279	-2.690	1.00	56.30	Al6t
ATOM	44929	O1P	URI	1228	260.163	148.955	3.204	1.00	79.35	Al6s	ATOM	44982	N3	CYT	1230	245.726	147.050	-1.260	1.00	56.30	Al6t
ATOM	44930	O2P	URI	1228	259.167	146.631	2.768	1.00	79.35	Al6s	ATOM	44983	C4	CYT	1230	246.686	147.041	-0.334	1.00	56.30	Al6t
ATOM	44931	O5	URI	1228	258.649	148.567	1.266	1.00	79.35	Al6s	ATOM	44984	N4	CYT	1230	247.048	145.870	0.181	1.00	56.30	Al6t
ATOM	44932	C5	URI	1228	259.022	149.646	0.424	1.00	79.35	Al6s	ATOM	44985	C5	CYT	1230	247.320	148.232	0.104	1.00	56.30	Al6t
ATOM	44933	C4	URI	1228	257.977	149.865	-0.639	1.00	79.35	Al6s	ATOM	44986	C2	CYT	1230	244.147	151.141	-1.466	1.00	80.99	Al6t
ATOM	44934	O4	URI	1228	257.985	148.760	-1.588	1.00	79.35	Al6s	ATOM	44987	O2	CYT	1230	243.603	152.116	-2.328	1.00	80.99	Al6t
ATOM	44935	C1	URI	1228	256.659	148.492	-2.020	1.00	79.35	Al6s	ATOM	44988	O3	CYT	1230	244.554	151.750	-0.140	1.00	80.99	Al6t
ATOM	44936	N1	URI	1228	256.264	147.176	-1.432	1.00	79.35	Al6s	ATOM	44989	C3	CYT	1230	243.646	152.690	0.388	1.00	80.99	Al6t
ATOM	44937	C6	URI	1228	256.931	146.605	-0.434	1.00	79.35	Al6s	ATOM	44990	P	ADE	1231	243.414	152.733	1.968	1.00	77.41	Al6t
ATOM	44938	C2	URI	1228	255.196	146.531	-2.084	1.00	79.35	Al6s	ATOM	44991	O1P	ADE	1231	242.937	154.108	2.282	1.00	50.68	Al6t
ATOM	44939	O2	URI	1228	254.586	146.997	-3.028	1.00	79.35	Al6s	ATOM	44992	O2P	ADE	1231	244.649	152.212	2.601	1.00	50.68	Al6t
ATOM	44940	N3	URI	1228	254.867	145.318	-1.527	1.00	79.35	Al6s	ATOM	44993	O5	ADE	1231	242.251	151.666	2.201	1.00	77.41	Al6t
ATOM	44941	C4	URI	1228	255.485	144.697	-0.461	1.00	79.35	Al6s	ATOM	44994	C5	ADE	1231	241.383	151.343	1.130	1.00	77.41	Al6t
ATOM	44942	O4	URI	1228	255.047	143.624	-0.043	1.00	79.35	Al6s	ATOM	44995	C4	ADE	1231	240.366	150.294	1.519	1.00	77.41	Al6t
ATOM	44943	C5	URI	1228	256.587	145.420	0.088	1.00	79.35	Al6s	ATOM	44996	O4	ADE	1231	240.910	148.957	1.520	1.00	77.41	Al6t
ATOM	44944	C2	URI	1228	255.798	149.619	-1.447	1.00	79.35	Al6s	ATOM	44997	C1	ADE	1231	239.941	148.118	2.101	1.00	77.41	Al6t
ATOM	44945	O2	URI	1228	255.834	150.733	-2.320	1.00	79.35	Al6s	ATOM	44998	N9	ADE	1231	240.573	147.118	2.964	1.00	50.68	Al6t
ATOM	44946	C3	URI	1228	256.542	149.901	-0.153	1.00	79.35	Al6s	ATOM	44999	C4	ADE	1231	240.137	145.823	3.059	1.00	50.68	Al6t
ATOM	44947	O3	URI	1228	256.194	151.153	0.424	1.00	79.35	Al6s	ATOM	45000	N3	ADE	1231	239.118	145.268	2.390	1.00	50.68	Al6t
ATOM	44948	P	ADE	1229	254.943	151.239	1.430	1.00	88.13	Al6s	ATOM	45001	C2	ADE	1231	238.977	143.997	3.704	1.00	50.68	Al6t
ATOM	44949	O1P	ADE	1229	254.876	152.637	1.920	1.00	77.99	Al6s	ATOM	45002	N1	ADE	1231	239.681	143.273	3.636	1.00	50.68	Al6t
ATOM	44950	O2P	ADE	1229	255.012	150.119	2.404	1.00	77.99	Al6s	ATOM	45003	C6	ADE	1231	240.693	143.863	4.264	1.00	50.68	Al6t
ATOM	44951	O5	ADE	1229	253.699	151.028	0.463	1.00	88.13	Al6s	ATOM	45004	N6	ADE	1231	241.381	143.135	5.141	1.00	50.68	Al6t
ATOM	44952	C5	ADE	1229	253.512	151.933	-0.611	1.00	88.13	Al6s	ATOM	45005	C5	ADE	1231	240.953	145.212	3.983	1.00	50.68	Al6t
ATOM	44953	C4	ADE	1229	252.130	151.808	-1.197	1.00	88.13	Al6s	ATOM	45006	N7	ADE	1231	241.899	146.102	4.461	1.00	50.68	Al6t
ATOM	44954	O4	ADE	1229	252.045	150.687	-2.105	1.00	88.13	Al6s	ATOM	45007	C8	ADE	1231	241.632	147.218	3.821	1.00	50.68	Al6t
ATOM	44955	C1	ADE	1229	250.690	150.314	-2.241	1.00	88.13	Al6s	ATOM	45008	C2	ADE	1231	238.939	148.998	2.838	1.00	77.41	Al6t
ATOM	44956	N9	ADE	1229	250.581	148.881	-1.981	1.00	77.99	Al6s	ATOM	45009	O2	ADE	1231	237.763	149.033	2.061	1.00	77.41	Al6t
ATOM	44957	C3	ADE	1229	249.660	148.029	-2.537	1.00	77.99	Al6s	ATOM	45010	C3	ADE	1231	239.662	150.343	2.855	1.00	77.41	Al6t
ATOM	44958	N4	ADE	1229	248.683	148.342	-3.405	1.00	77.99	Al6s	ATOM	45011	O3	ADE	1232	238.724	151.403	2.898	1.00	77.41	Al6t
ATOM	44959	C2	ADE	1229	247.994	147.257	-3.743	1.00	77.99	Al6s	ATOM	45012	P	ADE	1232	238.094	151.856	4.308	1.00	73.41	Al6t
ATOM	44960	N1	ADE	1229	248.159	145.988	-3.344	1.00	77.99	Al6s	ATOM	45013	O1P	ADE	1232	237.435	153.165	4.057	1.00	59.73	Al6t
ATOM	44961	C6	ADE	1229	249.154	145.708	-2.472	1.00	77.99	Al6s	ATOM	45014	O2P	ADE	1232	239.108	151.733	5.387	1.00	59.73	Al6t
ATOM	44962	N6	ADE	1229	249.327	144.439	-2.077	1.00	77.99	Al6s	ATOM	45015	O5	ADE	1232	236.960	150.779	4.609	1.00	73.41	Al6t

ATOM	45016	C5' ADE	1232	235.795	150.722	3.805	1.00	73.41	Al6S	ATOM	45069	N1	GUA	1234	238.817	144.127	14.586	1.00	56.98	A
ATOM	45017	C4' ADE	1232	235.072	149.429	4.035	1.00	73.41	Al6S	ATOM	45070	C6	GUA	1234	238.345	145.344	14.106	1.00	56.98	A
ATOM	45018	O4' ADE	1232	235.965	148.323	3.761	1.00	73.41	Al6S	ATOM	45071	O6	GUA	1234	239.071	146.336	14.126	1.00	56.98	A
ATOM	45019	C1' ADE	1232	235.668	147.249	4.630	1.00	73.41	Al6S	ATOM	45072	C5	GUA	1234	237.024	145.245	13.642	1.00	56.98	A
ATOM	45020	N9 ADE	1232	236.880	146.924	5.380	1.00	59.73	Al6S	ATOM	45073	N7	GUA	1234	236.195	146.210	13.090	1.00	56.98	A
ATOM	45021	C4 ADE	1232	237.275	145.679	5.814	1.00	59.73	Al6S	ATOM	45074	C8	GUA	1234	235.088	145.575	12.835	1.00	56.98	A
ATOM	45022	N3 ADE	1232	236.626	144.514	5.657	1.00	59.73	Al6S	ATOM	45075	C2' GUA	1234	233.594	142.691	14.365	1.00	62.31	A	
ATOM	45023	C2 ADE	1232	237.325	143.510	6.196	1.00	59.73	Al6S	ATOM	45076	O2' GUA	1234	233.158	141.357	14.202	1.00	62.31	A	
ATOM	45024	N1 ADE	1232	238.507	143.539	6.827	1.00	59.73	Al6S	ATOM	45077	C3' GUA	1234	232.456	143.642	14.698	1.00	62.31	A	
ATOM	45025	C6 ADE	1232	239.127	144.727	6.973	1.00	59.73	Al6S	ATOM	45078	O3' GUA	1234	231.521	143.026	15.560	1.00	62.31	A	
ATOM	45026	N6 ADE	1232	240.297	144.756	7.609	1.00	59.73	Al6S	ATOM	45079	P	CYT	1235	231.482	143.453	17.091	1.00	65.74	A
ATOM	45027	C5 ADE	1232	238.494	145.866	6.442	1.00	59.73	Al6S	ATOM	45080	O1P	CYT	1235	230.285	142.821	17.702	1.00	63.83	A
ATOM	45028	N7 ADE	1232	238.854	147.202	6.415	1.00	59.73	Al6S	ATOM	45081	O2P	CYT	1235	231.642	144.932	17.108	1.00	63.83	A
ATOM	45029	C8 ADE	1232	237.863	147.786	5.779	1.00	59.73	Al6S	ATOM	45082	O5' CYT	1235	232.783	142.781	17.704	1.00	65.74	A	
ATOM	45030	C2' ADE	1232	234.480	147.688	5.487	1.00	73.41	Al6S	ATOM	45083	C5' CYT	1235	232.867	141.372	17.824	1.00	65.74	A	
ATOM	45031	O2' ADE	1232	233.289	147.331	4.819	1.00	73.41	Al6S	ATOM	45084	C4' CYT	1235	234.262	140.966	18.227	1.00	65.74	A	
ATOM	45032	C3' ADE	1232	234.634	149.197	5.464	1.00	73.41	Al6S	ATOM	45085	O4' CYT	1235	235.196	141.438	17.221	1.00	65.74	A	
ATOM	45033	O3' ADE	1232	233.380	149.838	5.652	1.00	73.41	Al6S	ATOM	45086	C1' CYT	1235	236.417	141.797	17.839	1.00	65.74	A	
ATOM	45034	P	1233	232.882	150.204	7.133	1.00	62.78	Al6S	ATOM	45087	N1	CYT	1235	236.638	143.222	17.595	1.00	63.83	A
ATOM	45035	O1P	1233	231.635	150.987	6.968	1.00	63.80	Al6S	ATOM	45088	C6	CYT	1235	235.617	144.026	17.177	1.00	63.83	A
ATOM	45036	O2P	1233	234.018	150.765	7.912	1.00	63.80	Al6S	ATOM	45089	C2	CYT	1235	237.917	143.739	17.774	1.00	63.83	A
ATOM	45037	O5' ADE	1233	232.508	148.803	7.785	1.00	62.78	Al6S	ATOM	45090	O2	CYT	1235	238.813	142.979	18.185	1.00	63.83	A
ATOM	45038	C5' ADE	1233	231.472	148.002	7.245	1.00	62.78	Al6S	ATOM	45091	N3	CYT	1235	238.145	145.047	17.496	1.00	63.83	A
ATOM	45039	C4' ADE	1233	231.619	146.583	7.730	1.00	62.78	Al6S	ATOM	45092	N4	CYT	1235	237.142	145.820	17.060	1.00	63.83	A
ATOM	45040	O4' ADE	1233	232.942	146.101	7.379	1.00	62.78	Al6S	ATOM	45093	N4	CYT	1235	237.406	147.098	16.771	1.00	63.83	A
ATOM	45041	C1' ADE	1233	233.395	145.188	8.362	1.00	62.78	Al6S	ATOM	45094	C5	CYT	1235	235.823	145.316	16.895	1.00	63.83	A
ATOM	45042	N9 ADE	1233	234.694	145.649	8.852	1.00	63.80	Al6S	ATOM	45095	C2' CYT	1235	236.292	141.433	19.315	1.00	65.74	A	
ATOM	45043	C4 ADE	1233	235.664	144.851	9.407	1.00	63.80	Al6S	ATOM	45096	O2' CYT	1235	236.707	140.091	19.490	1.00	65.74	A	
ATOM	45044	N3 ADE	1233	235.600	143.525	9.628	1.00	63.80	Al6S	ATOM	45097	C3' CYT	1235	234.792	141.572	19.516	1.00	65.74	A	
ATOM	45045	C2 ADE	1233	236.734	143.083	10.160	1.00	63.80	Al6S	ATOM	45098	O3' CYT	1235	234.349	140.845	20.661	1.00	65.74	A	
ATOM	45046	N1 ADE	1233	237.842	143.762	10.471	1.00	63.80	Al6S	ATOM	45099	P	GUA	1236	233.956	141.644	21.996	1.00	74.54	A
ATOM	45047	C6 ADE	1233	237.873	145.090	10.235	1.00	63.80	Al6S	ATOM	45100	O1P	GUA	1236	233.136	140.738	22.832	1.00	57.60	A
ATOM	45048	N6 ADE	1233	238.979	145.760	10.545	1.00	63.80	Al6S	ATOM	45101	O2P	GUA	1236	233.416	142.968	21.597	1.00	57.60	A
ATOM	45049	C5 ADE	1233	236.729	145.683	9.675	1.00	63.80	Al6S	ATOM	45102	O5' GUA	1236	235.346	141.862	22.735	1.00	74.54	A	
ATOM	45050	N7 ADE	1233	236.431	146.990	9.314	1.00	63.80	Al6S	ATOM	45103	C5' GUA	1236	236.095	140.749	23.207	1.00	74.54	A	
ATOM	45051	C8 ADE	1233	235.213	146.917	8.838	1.00	63.80	Al6S	ATOM	45104	C4' GUA	1236	237.509	141.172	23.522	1.00	74.54	A	
ATOM	45052	C2' ADE	1233	232.311	145.092	9.431	1.00	62.78	Al6S	ATOM	45105	O4' GUA	1236	238.052	141.832	22.354	1.00	74.54	A	
ATOM	45053	O2' ADE	1233	231.495	143.977	9.153	1.00	62.78	Al6S	ATOM	45106	C1' GUA	1236	239.004	142.794	22.753	1.00	74.54	A	
ATOM	45054	C3' ADE	1233	231.586	146.414	9.232	1.00	62.78	Al6S	ATOM	45107	N9	GUA	1236	238.683	144.058	22.098	1.00	57.60	A
ATOM	45055	O3' ADE	1233	230.255	146.362	9.701	1.00	62.78	Al6S	ATOM	45108	C4	GUA	1236	239.519	145.135	21.979	1.00	57.60	A
ATOM	45056	P	1234	229.976	146.564	11.262	1.00	62.31	Al6S	ATOM	45109	N3	GUA	1236	240.769	145.215	22.473	1.00	57.60	A
ATOM	45057	O1P	1234	228.498	146.660	11.447	1.00	56.98	Al6S	ATOM	45110	C2	GUA	1236	241.327	146.382	22.211	1.00	57.60	A
ATOM	45058	O2P	1234	230.852	147.671	11.722	1.00	56.98	Al6S	ATOM	45111	N2	GUA	1236	242.578	146.629	22.634	1.00	57.60	A
ATOM	45059	O5' GUA	1234	230.515	145.205	11.885	1.00	62.31	Al6S	ATOM	45112	N1	GUA	1236	240.704	147.390	21.514	1.00	57.60	A
ATOM	45060	C5' GUA	1234	231.061	145.156	13.184	1.00	62.31	Al6S	ATOM	45113	C6	GUA	1236	239.416	147.327	20.995	1.00	57.60	A
ATOM	45061	C4' GUA	1234	231.834	143.883	13.340	1.00	62.31	Al6S	ATOM	45114	O6	GUA	1236	238.950	148.297	20.383	1.00	57.60	A
ATOM	45062	O4' GUA	1234	232.958	143.912	12.430	1.00	62.31	Al6S	ATOM	45115	C5	GUA	1236	238.807	146.080	21.270	1.00	57.60	A
ATOM	45063	C1' GUA	1234	234.071	143.264	13.029	1.00	62.31	Al6S	ATOM	45116	N7	GUA	1236	237.542	145.608	20.955	1.00	57.60	A
ATOM	45064	N9	1234	235.137	144.249	13.185	1.00	56.98	Al6S	ATOM	45117	C8	GUA	1236	237.510	144.406	21.469	1.00	57.60	A
ATOM	45065	C4	1234	236.387	144.030	13.708	1.00	56.98	Al6S	ATOM	45118	C2' GUA	1236	239.024	142.822	24.283	1.00	74.54	A	
ATOM	45066	N3	1234	236.861	142.855	14.176	1.00	56.98	Al6S	ATOM	45119	O2' GUA	1236	240.085	142.014	24.747	1.00	74.54	A	
ATOM	45067	C2	1234	238.103	142.964	14.612	1.00	56.98	Al6S	ATOM	45120	C3' GUA	1236	237.673	142.205	24.626	1.00	74.54	A	
ATOM	45068	N2	1234	238.733	141.897	15.120	1.00	56.98	Al6S	ATOM	45121	O3' GUA	1236	237.735	141.560	25.899	1.00	74.54	A	

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ATOM	45122	P	ADE	1237	236.496	141.674	26.911	1.00124.72	Al6S	ATOM	45175	C2	GUA	1239	242.263	144.031	26.827	1.00104.46	Al
ATOM	45123	O1P	ADE	1237	235.487	140.693	26.440	1.00120.46	Al6S	ATOM	45176	N2	GUA	1239	241.891	144.983	25.960	1.00104.46	Al
ATOM	45124	O2P	ADE	1237	236.131	143.110	27.016	1.00120.46	Al6S	ATOM	45177	N1	GUA	1239	243.234	144.380	27.728	1.00104.46	Al
ATOM	45125	O5'	ADE	1237	237.071	141.175	28.319	1.00124.72	Al6S	ATOM	45178	C6	GUA	1239	243.761	143.542	28.701	1.00104.46	Al
ATOM	45126	C5'	ADE	1237	237.606	139.854	28.481	1.00124.72	Al6S	ATOM	45179	O6	GUA	1239	244.630	143.965	29.475	1.00104.46	Al
ATOM	45127	C4'	ADE	1237	238.214	139.682	29.867	1.00124.72	Al6S	ATOM	45180	C5	GUA	1239	243.173	142.254	28.650	1.00104.46	Al
ATOM	45128	O4'	ADE	1237	239.167	140.750	30.101	1.00124.72	Al6S	ATOM	45181	N7	GUA	1239	243.408	141.125	29.424	1.00104.46	Al
ATOM	45129	C1'	ADE	1237	239.125	141.153	31.458	1.00124.72	Al6S	ATOM	45182	C8	GUA	1239	242.589	140.228	28.945	1.00104.46	Al
ATOM	45130	N4	ADE	1237	238.724	142.553	31.492	1.00120.46	Al6S	ATOM	45183	C2'	GUA	1239	241.403	139.428	25.812	1.00126.84	Al
ATOM	45131	C4	ADE	1237	239.456	143.601	31.000	1.00120.46	Al6S	ATOM	45184	O2'	GUA	1239	240.402	139.497	24.821	1.00126.84	Al
ATOM	45132	N3	ADE	1237	240.658	143.544	30.407	1.00120.46	Al6S	ATOM	45185	C3'	GUA	1239	241.752	137.994	26.188	1.00126.84	Al
ATOM	45133	C2	ADE	1237	241.063	144.757	30.059	1.00120.46	Al6S	ATOM	45186	O3'	GUA	1239	241.797	137.170	25.035	1.00126.84	Al
ATOM	45134	N1	ADE	1237	240.451	145.931	30.223	1.00120.46	Al6S	ATOM	45187	P	CYT	1240	243.182	136.999	24.243	1.0084.14	Al
ATOM	45135	C6	ADE	1237	239.242	145.955	30.821	1.00120.46	Al6S	ATOM	45188	O1P	CYT	1240	243.035	135.848	23.317	1.00104.12	Al
ATOM	45136	N6	ADE	1237	238.628	147.131	30.985	1.00120.46	Al6S	ATOM	45189	O2P	CYT	1240	244.281	136.997	25.242	1.00104.12	Al
ATOM	45137	C5	ADE	1237	238.701	144.733	31.238	1.00120.46	Al6S	ATOM	45190	O5'	CYT	1240	243.295	138.334	23.381	1.0084.14	Al
ATOM	45138	N7	ADE	1237	237.510	144.405	31.870	1.00120.46	Al6S	ATOM	45191	C5'	CYT	1240	242.363	138.604	22.348	1.0084.14	Al
ATOM	45139	C8	ADE	1237	237.574	143.103	31.999	1.00120.46	Al6S	ATOM	45192	C4'	CYT	1240	242.665	139.931	21.700	1.0084.14	Al
ATOM	45140	C2'	ADE	1237	238.160	140.228	32.197	1.00124.72	Al6S	ATOM	45193	O4'	CYT	1240	242.465	141.004	22.654	1.0084.14	Al
ATOM	45141	O2'	ADE	1237	238.907	139.251	32.879	1.00124.72	Al6S	ATOM	45194	C1'	CYT	1240	243.363	142.066	22.369	1.0084.14	Al
ATOM	45142	C3'	ADE	1237	237.267	139.729	31.059	1.00124.72	Al6S	ATOM	45195	N1	CYT	1240	244.188	142.308	23.562	1.00104.12	Al
ATOM	45143	O3'	ADE	1237	236.659	138.442	31.247	1.00124.72	Al6S	ATOM	45196	C6	CYT	1240	244.397	143.319	24.481	1.00104.12	Al
ATOM	45144	P	URI	1238	236.851	137.628	32.628	1.00173.76	Al6S	ATOM	45197	C2	CYT	1240	244.762	143.570	23.738	1.00104.12	Al
ATOM	45145	O1P	URI	1238	235.920	136.473	32.576	1.00200.66	Al6S	ATOM	45198	O2	CYT	1240	244.554	144.449	22.889	1.00104.12	Al
ATOM	45146	O2P	URI	1238	236.793	138.559	33.784	1.00200.66	Al6S	ATOM	45199	N3	CYT	1240	245.528	143.798	24.825	1.00104.12	Al
ATOM	45147	O5'	URI	1238	238.328	137.045	32.500	1.00173.76	Al6S	ATOM	45200	C4	CYT	1240	245.728	142.825	25.715	1.00104.12	Al
ATOM	45148	C5'	URI	1238	238.849	136.726	31.218	1.00173.76	Al6S	ATOM	45201	N4	CYT	1240	246.491	143.095	26.772	1.00104.12	Al
ATOM	45149	C4'	URI	1238	240.306	137.106	31.120	1.00173.76	Al6S	ATOM	45202	C5	CYT	1240	246.155	141.532	25.560	1.0084.14	Al
ATOM	45150	O4'	URI	1238	240.562	138.291	31.919	1.00173.76	Al6S	ATOM	45203	C2'	CYT	1240	244.201	141.645	21.159	1.0084.14	Al
ATOM	45151	C1'	URI	1238	241.899	138.265	32.401	1.00173.76	Al6S	ATOM	45204	O3'	CYT	1240	243.661	142.202	19.978	1.00104.12	Al
ATOM	45152	N1	URI	1238	241.883	138.338	33.869	1.00200.66	Al6S	ATOM	45205	C2'	CYT	1240	244.093	140.125	21.231	1.0084.14	Al
ATOM	45153	C6	URI	1238	240.823	137.862	34.604	1.00200.66	Al6S	ATOM	45206	O3'	CYT	1240	244.308	139.516	19.967	1.0084.14	Al
ATOM	45154	O2	URI	1238	242.983	138.902	34.490	1.00200.66	Al6S	ATOM	45207	P	CYT	1241	245.766	138.973	19.597	1.00105.58	Al
ATOM	45155	O2	URI	1238	243.941	139.335	33.872	1.00200.66	Al6S	ATOM	45208	O1P	CYT	1241	246.769	138.579	18.171	1.0086.60	Al
ATOM	45156	N3	URI	1238	242.921	138.941	35.859	1.00200.66	Al6S	ATOM	45209	O2P	CYT	1241	246.166	137.989	20.636	1.0086.60	Al
ATOM	45157	C4	URI	1238	241.893	138.484	36.656	1.00200.66	Al6S	ATOM	45210	O5'	CYT	1241	246.669	140.271	19.727	1.00105.58	Al
ATOM	45158	O4	URI	1238	241.980	138.599	37.879	1.00200.66	Al6S	ATOM	45211	C5'	CYT	1241	248.042	140.181	20.067	1.00105.58	Al
ATOM	45159	C5	URI	1238	240.791	137.914	35.940	1.00200.66	Al6S	ATOM	45212	C4'	CYT	1241	248.518	141.517	20.564	1.00105.58	Al
ATOM	45160	C2'	URI	1238	242.543	136.983	31.877	1.00173.76	Al6S	ATOM	45213	O4'	CYT	1241	247.742	141.880	21.737	1.00105.58	Al
ATOM	45161	O2'	URI	1238	243.260	137.327	30.711	1.00173.76	Al6S	ATOM	45214	C1'	CYT	1241	248.580	142.513	22.684	1.00105.58	Al
ATOM	45162	C3'	URI	1238	241.310	136.107	31.658	1.00173.76	Al6S	ATOM	45215	N1	CYT	1241	248.731	141.600	23.826	1.0086.60	Al
ATOM	45163	O3'	URI	1238	241.439	135.015	30.746	1.00173.76	Al6S	ATOM	45216	C6	CYT	1241	248.478	140.263	23.700	1.0086.60	Al
ATOM	45164	P	GUA	1239	242.452	135.103	29.499	1.00126.84	Al6S	ATOM	45217	C2	CYT	1241	249.137	142.122	25.040	1.0086.60	Al
ATOM	45165	O1P	GUA	1239	242.138	133.912	28.662	1.00126.84	Al6S	ATOM	45218	O2	CYT	1241	249.367	143.331	25.113	1.0086.60	Al
ATOM	45166	O2P	GUA	1239	243.845	135.294	30.001	1.00104.46	Al6S	ATOM	45219	N3	CYT	1241	249.272	141.300	26.108	1.0086.60	Al
ATOM	45167	O5'	GUA	1239	241.977	136.406	28.698	1.00126.84	Al6S	ATOM	45220	C4	CYT	1241	249.020	139.999	25.981	1.0086.60	Al
ATOM	45168	C5'	GUA	1239	240.732	136.407	27.992	1.00126.84	Al6S	ATOM	45221	N4	CYT	1241	249.161	139.426	27.061	1.0086.60	Al
ATOM	45169	C4'	GUA	1239	240.595	137.630	27.100	1.00126.84	Al6S	ATOM	45222	C5	CYT	1241	248.609	139.433	24.743	1.0086.60	Al
ATOM	45170	O4'	GUA	1239	240.409	138.835	27.886	1.00126.84	Al6S	ATOM	45223	C2'	CYT	1241	249.900	142.791	21.966	1.00105.58	Al
ATOM	45171	C1'	GUA	1239	240.836	139.958	27.129	1.00126.84	Al6S	ATOM	45224	O2'	CYT	1241	249.787	144.016	21.267	1.00105.58	Al
ATOM	45172	N9	GUA	1239	241.831	140.696	27.899	1.00104.46	Al6S	ATOM	45225	C3'	CYT	1241	249.962	141.598	21.025	1.00105.58	Al
ATOM	45173	C4	GUA	1239	242.201	142.005	27.706	1.00104.46	Al6S	ATOM	45226	O3'	CYT	1241	250.818	141.815	19.910	1.00105.58	Al
ATOM	45174	N3	GUA	1239	241.700	142.838	26.775	1.00104.46	Al6S	ATOM	45227	P	ADE	1242	252.393	142.016	20.139	1.0079.51	Al

ATOM	45228	O1P ADE	1242	253.115	141.309	19.052	1.00	93.44	Al6s	ATOM	45281	N3 CYT	1244	259.893	141.643	24.075	1.00105.85	Al		
ATOM	45229	O2P ADE	1242	252.669	141.671	21.551	1.00	93.44	Al6s	ATOM	45282	C4 CYT	1244	259.029	141.901	23.091	1.00105.85	Al		
ATOM	45230	O5' ADE	1242	252.578	143.583	19.917	1.00	79.51	Al6s	ATOM	45283	N4 CYT	1244	258.000	141.066	22.932	1.00105.85	Al		
ATOM	45231	C5' ADE	1242	251.828	144.262	18.910	1.00	79.51	Al6s	ATOM	45284	C5 CYT	1244	259.181	143.027	22.929	1.00105.85	Al		
ATOM	45232	C4' ADE	1242	252.011	145.758	19.028	1.00	79.51	Al6s	ATOM	45285	C2' CYT	1244	263.573	143.898	23.165	1.00	98.35	Al	
ATOM	45233	O4' ADE	1242	251.438	146.227	20.276	1.00	79.51	Al6s	ATOM	45286	O2' CYT	1244	264.623	144.242	24.042	1.00	98.35	Al	
ATOM	45234	C1' ADE	1242	252.264	147.235	20.833	1.00	79.51	Al6s	ATOM	45287	C3' CYT	1244	263.675	144.578	21.806	1.00	98.35	Al	
ATOM	45235	N9 ADE	1242	252.825	146.725	22.084	1.00	93.44	Al6s	ATOM	45288	O3' CYT	1244	265.026	144.712	21.387	1.00	98.35	Al	
ATOM	45236	C4 ADE	1242	253.702	147.382	22.912	1.00	93.44	Al6s	ATOM	45289	P	CYT	1245	265.702	143.557	20.500	1.00	78.91	Al
ATOM	45237	N3 ADE	1242	254.220	148.611	22.740	1.00	93.44	Al6s	ATOM	45290	O1P CYT	1245	267.046	144.038	20.084	1.00125.20	Al		
ATOM	45238	C2 ADE	1242	255.021	148.924	23.753	1.00	93.44	Al6s	ATOM	45291	O2P CYT	1245	264.720	143.151	19.463	1.00125.20	Al		
ATOM	45239	N1 ADE	1242	255.340	148.204	24.837	1.00	93.44	Al6s	ATOM	45292	O5' CYT	1245	265.895	142.352	21.528	1.00	78.91	Al	
ATOM	45240	C6 ADE	1242	254.804	146.973	24.978	1.00	93.44	Al6s	ATOM	45293	C5' CYT	1245	266.840	142.446	22.585	1.00	78.91	Al	
ATOM	45241	N6 ADE	1242	255.124	146.254	26.057	1.00	93.44	Al6s	ATOM	45294	C4' CYT	1245	266.662	141.306	23.556	1.00	78.91	Al	
ATOM	45242	C5 ADE	1242	253.935	146.523	23.971	1.00	93.44	Al6s	ATOM	45295	O4' CYT	1245	265.339	141.380	24.139	1.00	78.91	Al	
ATOM	45243	N7 ADE	1242	253.225	145.342	23.811	1.00	93.44	Al6s	ATOM	45296	C1' CYT	1245	264.872	140.073	24.434	1.00	78.91	Al	
ATOM	45244	C8 ADE	1242	252.586	145.511	22.680	1.00	93.44	Al6s	ATOM	45297	N1 CYT	1245	263.612	139.854	23.708	1.00125.20	Al		
ATOM	45245	C2' ADE	1242	253.330	147.570	19.791	1.00	79.51	Al6s	ATOM	45298	C6 CYT	1245	263.280	140.618	22.624	1.00125.20	Al		
ATOM	45246	O2' ADE	1242	252.856	148.619	18.972	1.00	79.51	Al6s	ATOM	45299	C2 CYT	1245	262.761	138.835	24.140	1.00125.20	Al		
ATOM	45247	C3' ADE	1242	253.451	146.245	19.049	1.00	79.51	Al6s	ATOM	45300	O2 CYT	1245	263.081	138.171	25.138	1.00125.20	Al		
ATOM	45248	O3' ADE	1242	253.920	146.446	17.721	1.00	79.51	Al6s	ATOM	45301	N3 CYT	1245	261.614	138.600	23.463	1.00125.20	Al		
ATOM	45249	P	CYT	1243	255.371	145.905	17.295	1.00115.95	Al6s	ATOM	45302	C4 CYT	1245	261.305	139.341	22.398	1.00125.20	Al		
ATOM	45250	O1P CYT	1243	255.726	146.629	16.047	1.00	89.98	Al6s	ATOM	45303	N4 CYT	1245	260.169	139.063	21.753	1.00125.20	Al		
ATOM	45251	O2P CYT	1243	255.365	144.420	17.310	1.00	89.98	Al6s	ATOM	45304	C5 CYT	1245	262.147	140.399	21.946	1.00125.20	Al		
ATOM	45252	O5' CYT	1243	256.327	146.385	18.474	1.00115.95	Al6s	Al6s	ATOM	45305	C2' CYT	1245	265.966	139.093	24.010	1.00	78.91	Al	
ATOM	45253	C5' CYT	1243	256.719	147.747	18.601	1.00115.95	Al6s	Al6s	ATOM	45306	O2' CYT	1245	266.750	138.748	25.130	1.00	78.91	Al	
ATOM	45254	C4' CYT	1243	257.566	147.926	19.837	1.00115.95	Al6s	Al6s	ATOM	45307	C3' CYT	1245	266.715	139.912	22.965	1.00	78.91	Al	
ATOM	45255	O4' CYT	1243	256.752	147.706	21.018	1.00115.95	Al6s	Al6s	ATOM	45308	O3' CYT	1245	268.055	139.471	22.818	1.00	78.91	Al	
ATOM	45256	C1' CYT	1243	257.540	147.103	22.031	1.00115.95	Al6s	Al6s	ATOM	45309	P	GUA	1246	268.394	138.313	21.759	1.00	91.95	Al
ATOM	45257	N1 CYT	1243	256.926	145.824	22.397	1.00	89.98	Al6s	ATOM	45310	O1P GUA	1246	269.869	138.137	21.717	1.00	95.91	Al	
ATOM	45258	C6 CYT	1243	256.000	145.225	21.588	1.00	89.98	Al6s	ATOM	45311	O5' GUA	1246	267.656	138.626	20.509	1.00	95.91	Al	
ATOM	45259	C2 CYT	1243	257.309	145.224	23.596	1.00	89.98	Al6s	ATOM	45312	O5' GUA	1246	267.771	137.002	22.409	1.00	91.95	Al	
ATOM	45260	O2 CYT	1243	258.165	145.786	24.298	1.00	89.98	Al6s	ATOM	45313	C5' GUA	1246	268.413	136.368	23.504	1.00	91.95	Al	
ATOM	45261	N3 CYT	1243	256.747	144.050	23.958	1.00	89.98	Al6s	ATOM	45314	C4' GUA	1246	267.743	135.055	23.807	1.00	91.95	Al	
ATOM	45262	C4 CYT	1243	255.843	143.473	23.165	1.00	89.98	Al6s	ATOM	45315	O4' GUA	1246	266.409	135.295	24.328	1.00	91.95	Al	
ATOM	45263	N4 CYT	1243	255.318	142.316	23.562	1.00	89.98	Al6s	ATOM	45316	C1' GUA	1246	265.528	134.281	23.866	1.00	91.95	Al	
ATOM	45264	C5 CYT	1243	255.440	144.059	21.929	1.00	89.98	Al6s	ATOM	45317	N9 GUA	1246	264.509	134.906	23.028	1.00	95.91	Al	
ATOM	45265	C2' CYT	1243	258.956	146.926	21.484	1.00115.95	Al6s	Al6s	ATOM	45318	C4 GUA	1246	263.286	134.372	22.696	1.00	95.91	Al	
ATOM	45266	O2' CYT	1243	259.781	147.982	21.931	1.00115.95	Al6s	Al6s	ATOM	45319	N3 GUA	1246	262.817	133.168	23.082	1.00	95.91	Al	
ATOM	45267	C3' CYT	1243	258.701	146.926	19.982	1.00115.95	Al6s	Al6s	ATOM	45320	C2 GUA	1246	261.607	132.934	22.607	1.00	95.91	Al	
ATOM	45268	O3' CYT	1243	259.845	147.336	19.250	1.00115.95	Al6s	Al6s	ATOM	45321	N2 GUA	1246	260.997	131.775	22.888	1.00	95.91	Al	
ATOM	45269	P	CYT	1244	260.927	146.243	17.805	1.00	98.35	Al6s	ATOM	45322	N1 GUA	1246	260.907	133.815	21.819	1.00	95.91	Al
ATOM	45270	O1P CYT	1244	261.941	146.943	17.975	1.00105.85	Al6s	Al6s	ATOM	45323	C6 GUA	1246	261.367	135.060	21.407	1.00295.91	Al		
ATOM	45271	O2P CYT	1244	260.200	145.076	18.250	1.00105.85	Al6s	Al6s	ATOM	45324	O6 GUA	1246	260.652	135.776	20.691	1.00	95.91	Al	
ATOM	45272	O5' CYT	1244	261.600	145.789	20.176	1.00	98.35	Al6s	ATOM	45325	C5 GUA	1246	262.673	135.323	21.907	1.00	95.91	Al	
ATOM	45273	C5' CYT	1244	262.502	146.648	20.868	1.00	98.35	Al6s	ATOM	45326	N7 GUA	1246	263.497	136.428	21.737	1.00	95.91	Al	
ATOM	45274	C4' CYT	1244	262.006	145.685	22.076	1.00	98.35	Al6s	ATOM	45327	C8 GUA	1246	264.573	136.136	22.418	1.00	95.91	Al	
ATOM	45275	O4' CYT	1244	262.254	144.463	23.694	1.00	98.35	Al6s	ATOM	45328	O2' GUA	1246	266.381	133.275	23.094	1.00	91.95	Al	
ATOM	45276	C1' CYT	1244	261.113	143.576	23.453	1.00105.85	Al6s	Al6s	ATOM	45329	O2' GUA	1246	267.502	134.174	22.598	1.00	91.95	Al	
ATOM	45277	N1 CYT	1244	260.226	143.832	22.446	1.00105.85	Al6s	Al6s	ATOM	45330	C3' GUA	1246	268.663	133.449	22.236	1.00213.05	Al		
ATOM	45278	C6 CYT	1244	260.949	142.461	24.274	1.00105.85	Al6s	Al6s	ATOM	45331	O3' GUA	1246	269.024	133.274	20.681	1.00113.05	Al		
ATOM	45279	C2 CYT	1244	261.783	142.246	25.164	1.00105.85	Al6s	Al6s	ATOM	45332	P	GUA	1247	270.349	132.608	20.600	1.00	98.80	Al
ATOM	45280	O2	CYT	1244						Al6s	ATOM	45333	O1P GUA	1247						Al

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ATOM	45334	O2P	GUA	1247	268.804	134.578	19.999	1.00	98.80	Al6S	ATOM	45387	N1	ADE	1249	261.434	124.586	17.018	1.00	66.01	Al6S
ATOM	45335	O5'	GUA	1247	267.935	132.247	20.141	1.00	100.13.05	Al6S	ATOM	45388	C6	ADE	1249	262.125	125.675	17.421	1.00	66.01	Al6S
ATOM	45336	C5'	GUA	1247	267.931	130.896	20.584	1.00	100.13.05	Al6S	ATOM	45389	N6	ADE	1249	263.039	125.532	18.379	1.00	66.01	Al6S
ATOM	45337	C4'	GUA	1247	266.657	130.210	20.159	1.00	100.13.05	Al6S	ATOM	45390	C5	ADE	1249	261.839	126.897	16.797	1.00	66.01	Al6S
ATOM	45338	O4'	GUA	1247	265.525	130.905	20.745	1.00	100.13.05	Al6S	ATOM	45391	N7	ADE	1249	262.357	128.169	16.965	1.00	66.01	Al6S
ATOM	45339	C1'	GUA	1247	264.402	130.777	19.889	1.00	100.13.05	Al6S	ATOM	45392	C8	ADE	1249	261.703	128.891	16.089	1.00	66.01	Al6S
ATOM	45340	N9	GUA	1247	263.988	132.103	19.447	1.00	98.80	Al6S	ATOM	45393	C2'	ADE	1249	258.664	129.359	14.705	1.00	83.69	Al6S
ATOM	45341	C4	GUA	1247	262.745	132.423	18.975	1.00	98.80	Al6S	ATOM	45394	O2'	ADE	1249	257.627	129.039	13.795	1.00	83.69	Al6S
ATOM	45342	N3	GUA	1247	261.703	131.571	18.867	1.00	98.80	Al6S	ATOM	45395	C3'	ADE	1249	259.064	130.831	14.646	1.00	83.69	Al6S
ATOM	45343	C2	GUA	1247	260.636	132.154	18.356	1.00	98.80	Al6S	ATOM	45396	O3'	ADE	1249	257.945	131.660	14.344	1.00	83.69	Al6S
ATOM	45344	N2	GUA	1247	259.514	131.432	18.174	1.00	98.80	Al6S	ATOM	45397	P	ADE	1250	257.080	132.301	15.534	1.00	66.06	Al6S
ATOM	45345	N1	GUA	1247	260.591	133.482	17.986	1.00	98.80	Al6S	ATOM	45398	O1P	ADE	1250	256.258	133.402	14.954	1.00	73.57	Al6S
ATOM	45346	C6	GUA	1247	261.649	134.381	18.095	1.00	98.80	Al6S	ATOM	45399	O2P	ADE	1250	257.996	132.590	16.658	1.00	73.57	Al6S
ATOM	45347	O6	GUA	1247	261.497	135.558	17.739	1.00	98.80	Al6S	ATOM	45400	O5'	ADE	1250	256.115	131.118	15.999	1.00	66.06	Al6S
ATOM	45348	C5	GUA	1247	262.810	133.757	18.636	1.00	98.80	Al6S	ATOM	45401	C5'	ADE	1250	254.998	130.728	15.203	1.00	66.06	Al6S
ATOM	45349	N7	GUA	1247	264.074	134.269	18.901	1.00	98.80	Al6S	ATOM	45402	C4'	ADE	1250	254.456	129.403	15.678	1.00	66.06	Al6S
ATOM	45350	C8	GUA	1247	264.736	133.253	19.387	1.00	98.80	Al6S	ATOM	45403	O4'	ADE	1250	255.518	128.421	15.629	1.00	66.06	Al6S
ATOM	45351	C2'	GUA	1247	264.848	129.935	18.697	1.00	100.13.05	Al6S	ATOM	45404	C1'	ADE	1250	255.386	127.517	16.711	1.00	66.06	Al6S
ATOM	45352	O2'	GUA	1247	264.599	128.567	18.957	1.00	100.13.05	Al6S	ATOM	45405	N9	ADE	1250	256.594	127.597	17.534	1.00	73.57	Al6S
ATOM	45353	C3'	GUA	1247	266.332	130.246	18.676	1.00	100.13.05	Al6S	ATOM	45406	C4	ADE	1250	257.285	126.530	18.046	1.00	73.57	Al6S
ATOM	45354	O3'	GUA	1247	267.047	129.273	17.937	1.00	100.13.05	Al6S	ATOM	45407	N3	ADE	1250	256.993	125.230	17.900	1.00	73.57	Al6S
ATOM	45355	P	CYT	1248	267.797	129.710	16.589	1.00	82.97	Al6S	ATOM	45408	C2	ADE	1250	257.884	124.476	18.534	1.00	73.57	Al6S
ATOM	45356	O1P	CYT	1248	268.466	128.504	16.037	1.00	72.61	Al6S	ATOM	45409	N1	ADE	1250	258.956	124.844	19.240	1.00	73.57	Al6S
ATOM	45357	O2P	CYT	1248	268.591	130.927	16.880	1.00	72.61	Al6S	ATOM	45410	C6	ADE	1250	259.226	126.160	19.359	1.00	73.57	Al6S
ATOM	45358	O5'	CYT	1248	266.636	130.137	15.588	1.00	82.97	Al6S	ATOM	45411	N6	ADE	1250	260.312	126.526	20.044	1.00	73.57	Al6S
ATOM	45359	C5'	CYT	1248	266.930	130.937	14.447	1.00	82.97	Al6S	ATOM	45412	C5	ADE	1250	258.347	127.067	18.741	1.00	73.57	Al6S
ATOM	45360	C4'	CYT	1248	266.036	130.558	13.290	1.00	82.97	Al6S	ATOM	45413	N7	ADE	1250	258.324	128.452	18.679	1.00	73.57	Al6S
ATOM	45361	O4'	CYT	1248	266.282	129.181	12.904	1.00	82.97	Al6S	ATOM	45414	C8	ADE	1250	257.268	128.716	17.952	1.00	73.57	Al6S
ATOM	45362	C1'	CYT	1248	265.080	128.599	12.430	1.00	82.97	Al6S	ATOM	45415	C2'	ADE	1250	254.111	127.892	17.465	1.00	66.06	Al6S
ATOM	45363	N1	CYT	1248	264.796	127.414	13.252	1.00	72.61	Al6S	ATOM	45416	O2'	ADE	1250	253.044	127.116	16.967	1.00	66.06	Al6S
ATOM	45364	C6	CYT	1248	265.207	127.349	14.553	1.00	72.61	Al6S	ATOM	45417	C3'	ADE	1250	253.966	129.367	17.115	1.00	66.06	Al6S
ATOM	45365	C2	CYT	1248	264.108	126.346	12.675	1.00	72.61	Al6S	ATOM	45418	O3'	ADE	1250	252.592	129.719	17.156	1.00	66.06	Al6S
ATOM	45366	O2	CYT	1248	263.717	126.449	11.505	1.00	72.61	Al6S	ATOM	45419	P	CYT	1251	252.099	130.933	18.074	1.00	73.32	Al6S
ATOM	45367	N3	CYT	1248	263.884	125.231	13.406	1.00	72.61	Al6S	ATOM	45420	O1P	CYT	1251	250.666	130.672	18.317	1.00	69.97	Al6S
ATOM	45368	C4	CYT	1248	264.312	125.167	14.668	1.00	72.61	Al6S	ATOM	45421	O2P	CYT	1251	252.508	132.201	17.429	1.00	69.97	Al6S
ATOM	45369	N4	CYT	1248	264.097	124.038	15.344	1.00	72.61	Al6S	ATOM	45422	O5'	CYT	1251	252.890	130.760	19.448	1.00	73.32	Al6S
ATOM	45370	C5	CYT	1248	264.987	126.255	15.291	1.00	72.61	Al6S	ATOM	45423	C5'	CYT	1251	252.587	129.692	20.336	1.00	73.32	Al6S
ATOM	45371	C2'	CYT	1248	263.993	129.675	12.497	1.00	82.97	Al6S	ATOM	45424	C4'	CYT	1251	253.779	129.376	21.217	1.00	73.32	Al6S
ATOM	45372	O2'	CYT	1248	263.887	130.322	11.244	1.00	82.97	Al6S	ATOM	45425	C1'	CYT	1251	254.981	129.458	20.399	1.00	73.32	Al6S
ATOM	45373	C3'	CYT	1248	264.549	130.594	13.576	1.00	82.97	Al6S	ATOM	45426	O4'	CYT	1251	256.079	129.885	21.194	1.00	83.69	Al6S
ATOM	45374	O3'	CYT	1248	264.063	131.919	13.459	1.00	82.97	Al6S	ATOM	45427	N1	CYT	1251	256.484	131.228	20.756	1.00	69.97	Al6S
ATOM	45375	P	ADE	1249	263.299	132.582	14.699	1.00	83.69	Al6S	ATOM	45428	C6	CYT	1251	255.603	132.065	20.132	1.00	69.97	Al6S
ATOM	45376	O1P	ADE	1249	263.185	134.041	14.434	1.00	66.01	Al6S	ATOM	45429	C2	CYT	1251	257.784	131.644	21.012	1.00	69.97	Al6S
ATOM	45377	O2P	ADE	1249	263.969	132.103	15.937	1.00	66.01	Al6S	ATOM	45430	O2	CYT	1251	258.565	130.852	21.546	1.00	69.97	Al6S
ATOM	45378	O5'	ADE	1249	261.853	131.914	14.656	1.00	83.69	Al6S	ATOM	45431	N3	CYT	1251	258.161	132.892	20.669	1.00	69.97	Al6S
ATOM	45379	C5'	ADE	1249	261.049	131.981	13.479	1.00	83.69	Al6S	ATOM	45432	C4	CYT	1251	257.294	133.709	20.078	1.00	69.97	Al6S
ATOM	45380	C4'	ADE	1249	260.030	130.863	13.472	1.00	83.69	Al6S	ATOM	45433	N4	CYT	1251	257.706	134.938	19.769	1.00	69.97	Al6S
ATOM	45381	O4'	ADE	1249	260.720	129.589	13.522	1.00	83.69	Al6S	ATOM	45434	C5	CYT	1251	255.962	133.303	19.780	1.00	69.97	Al6S
ATOM	45382	C1'	ADE	1249	259.957	128.663	14.267	1.00	83.69	Al6S	ATOM	45435	C2'	CYT	1251	255.558	129.946	22.624	1.00	73.32	Al6S
ATOM	45383	N9	ADE	1249	260.801	128.175	15.350	1.00	66.01	Al6S	ATOM	45436	O2'	CYT	1251	255.678	128.667	23.220	1.00	73.32	Al6S
ATOM	45384	C4	ADE	1249	260.873	126.890	15.814	1.00	66.01	Al6S	ATOM	45437	C3'	CYT	1251	254.109	130.319	22.367	1.00	73.32	Al6S
ATOM	45385	N3	ADE	1249	260.167	125.835	15.388	1.00	66.01	Al6S	ATOM	45438	O3'	CYT	1251	253.332	130.093	23.537	1.00	73.32	Al6S
ATOM	45386	C2	ADE	1249	260.521	124.736	16.051	1.00	66.01	Al6S	ATOM	45439	P	GUA	1252	253.190	131.269	24.627	1.00	89.27	Al6S

ATOM	45440	O1P	GUA	1252	252.150	130.886	25.616	1.00	80.09	Al6S	ATOM	45493	N9	GUA	1254	258.302	140.549	29.143	1.00100.69	Al
ATOM	45441	O2P	GUA	1252	253.059	132.543	23.880	1.00	80.09	Al6S	ATOM	45494	C4	GUA	1254	257.981	141.321	28.054	1.00100.69	Al
ATOM	45442	O5	GUA	1252	254.594	131.279	25.373	1.00	89.27	Al6S	ATOM	45495	N3	GUA	1254	258.658	142.410	27.631	1.00100.69	Al
ATOM	45443	C3	GUA	1252	255.098	130.106	25.998	1.00	89.27	Al6S	ATOM	45496	C2	GUA	1254	258.105	142.949	26.561	1.00100.69	Al
ATOM	45444	C4	GUA	1252	256.510	130.340	26.480	1.00	89.27	Al6S	ATOM	45497	N2	GUA	1254	258.663	144.024	25.995	1.00100.69	Al
ATOM	45445	O4	GUA	1252	257.383	130.612	25.348	1.00	89.27	Al6S	ATOM	45498	N1	GUA	1254	256.968	142.469	25.962	1.00100.69	Al
ATOM	45446	C1	GUA	1252	258.373	131.560	25.725	1.00	89.27	Al6S	ATOM	45499	C6	GUA	1254	256.253	141.352	26.380	1.00100.69	Al
ATOM	45447	N9	GUA	1252	258.138	132.787	24.973	1.00	80.09	Al6S	ATOM	45500	O6	GUA	1254	255.238	141.007	25.767	1.00100.69	Al
ATOM	45448	C4	GUA	1252	256.983	133.869	24.877	1.00	80.09	Al6S	ATOM	45501	C5	GUA	1254	256.845	140.752	27.523	1.00100.69	Al
ATOM	45449	N3	GUA	1252	260.181	134.003	25.489	1.00	80.09	Al6S	ATOM	45502	N7	GUA	1254	256.471	139.627	28.249	1.00100.69	Al
ATOM	45450	C2	GUA	1252	260.765	135.157	25.186	1.00	80.09	Al6S	ATOM	45503	C8	GUA	1254	257.367	139.542	29.196	1.00100.69	Al
ATOM	45451	N2	GUA	1252	261.955	135.474	25.726	1.00	80.09	Al6S	ATOM	45504	C2	GUA	1254	259.070	141.962	30.995	1.0087.04	Al
ATOM	45452	N1	GUA	1252	260.223	136.089	24.336	1.00	80.09	Al6S	ATOM	45505	O2	GUA	1254	260.220	142.749	31.202	1.0087.04	Al
ATOM	45453	C6	GUA	1252	258.997	135.968	23.693	1.00	80.09	Al6S	ATOM	45506	C3	GUA	1254	258.596	141.224	32.241	1.0087.04	Al
ATOM	45454	O6	GUA	1252	258.351	134.751	24.025	1.00	80.09	Al6S	ATOM	45507	O3	GUA	1254	258.746	142.034	33.398	1.0087.04	Al
ATOM	45455	C5	GUA	1252	257.041	133.085	24.207	1.00	80.09	Al6S	ATOM	45508	P	GUA	1255	257.473	142.813	33.988	1.0084.96	Al
ATOM	45456	N7	GUA	1252	258.207	131.771	27.225	1.00	89.27	Al6S	ATOM	45509	O1P	GUA	1255	257.942	143.628	35.137	1.00110.50	Al
ATOM	45457	C8	GUA	1252	258.937	130.767	27.909	1.00	89.27	Al6S	ATOM	45510	O2P	GUA	1255	256.384	141.824	34.189	1.00110.50	Al
ATOM	45458	C2	GUA	1252	256.712	131.558	27.364	1.00	89.27	Al6S	ATOM	45511	O5	GUA	1255	257.055	143.812	32.821	1.0084.96	Al
ATOM	45459	O2	GUA	1252	256.358	131.288	28.705	1.00	89.27	Al6S	ATOM	45512	C5	GUA	1255	257.859	144.940	32.505	1.0084.96	Al
ATOM	45460	C3	GUA	1252	255.875	132.488	29.652	1.00	98.60	Al6S	ATOM	45513	C4	GUA	1255	257.348	145.607	31.253	1.0084.96	Al
ATOM	45461	O3	GUA	1253	255.588	131.817	30.949	1.00	72.59	Al6S	ATOM	45514	C1	GUA	1255	256.551	143.537	29.312	1.0084.96	Al
ATOM	45462	P	GUA	1253	254.815	133.284	28.977	1.00	72.59	Al6S	ATOM	45515	N9	GUA	1255	254.518	143.140	28.588	1.00110.50	Al
ATOM	45463	O1P	GUA	1253	257.160	133.422	29.805	1.00	98.60	Al6S	ATOM	45516	C4	GUA	1255	254.008	143.841	27.554	1.00110.50	Al
ATOM	45464	O2P	GUA	1253	258.155	133.134	30.786	1.00	98.60	Al6S	ATOM	45517	C4	GUA	1255	253.021	143.193	26.959	1.00110.50	Al
ATOM	45465	O5	GUA	1253	259.154	134.264	30.881	1.00	98.60	Al6S	ATOM	45518	N3	GUA	1255	252.573	141.957	27.350	1.00110.50	Al
ATOM	45466	C4	GUA	1253	259.806	134.440	29.594	1.00	98.60	Al6S	ATOM	45519	C2	GUA	1255	252.619	140.108	28.069	1.00110.50	Al
ATOM	45467	O4	GUA	1253	260.090	135.814	28.376	1.00	72.59	Al6S	ATOM	45520	N2	GUA	1255	254.918	141.524	30.142	1.00110.50	Al
ATOM	45468	C1	GUA	1253	259.274	136.285	29.216	1.00	72.59	Al6S	ATOM	45521	N1	GUA	1255	255.739	142.524	30.310	1.00110.50	Al
ATOM	45469	N9	GUA	1253	259.499	137.400	27.509	1.00	72.59	Al6S	ATOM	45522	C6	GUA	1255	254.140	141.900	29.056	1.00110.50	Al
ATOM	45470	C4	GUA	1253	260.469	139.240	26.749	1.00	72.59	Al6S	ATOM	45523	C5	GUA	1255	254.918	141.524	30.142	1.00110.50	Al
ATOM	45471	N3	GUA	1253	261.423	140.175	26.696	1.00	72.59	Al6S	ATOM	45524	N7	GUA	1255	255.894	147.175	29.132	1.0084.96	Al
ATOM	45472	C2	GUA	1253	258.358	138.545	25.732	1.00	72.59	Al6S	ATOM	45525	C8	GUA	1255	255.880	146.006	31.287	1.0084.96	Al
ATOM	45473	N1	GUA	1253	257.482	138.790	24.848	1.00	72.59	Al6S	ATOM	45526	O2	GUA	1255	255.706	147.291	31.866	1.0084.96	Al
ATOM	45474	C6	GUA	1253	258.431	137.468	26.643	1.00	72.59	Al6S	ATOM	45527	C2	GUA	1255	254.223	147.839	32.139	1.0096.43	Al
ATOM	45475	O6	GUA	1253	257.567	136.402	26.840	1.00	72.59	Al6S	ATOM	45528	O1P	GUA	1256	254.257	148.680	33.360	1.00107.35	Al
ATOM	45476	C5	GUA	1253	258.110	135.723	27.813	1.00	72.59	Al6S	ATOM	45529	O2P	GUA	1256	253.295	146.686	32.073	1.00107.35	Al
ATOM	45477	N7	GUA	1253	259.711	136.540	30.675	1.00	98.60	Al6S	ATOM	45530	O5	GUA	1256	253.939	148.791	30.898	1.0096.43	Al
ATOM	45478	C8	GUA	1253	260.831	136.559	31.532	1.00	98.60	Al6S	ATOM	45531	C4	GUA	1256	254.636	150.018	30.767	1.0096.43	Al
ATOM	45479	O2	GUA	1253	258.598	135.644	31.197	1.00	98.60	Al6S	ATOM	45532	C5	GUA	1256	254.212	150.724	29.510	1.0096.43	Al
ATOM	45480	C3	GUA	1253	258.398	135.823	32.597	1.00	98.60	Al6S	ATOM	45533	O4	GUA	1256	253.579	150.069	27.349	1.0096.43	Al
ATOM	45481	O3	GUA	1253	257.321	136.899	33.118	1.00	87.04	Al6S	ATOM	45534	C1	GUA	1256	252.870	148.804	27.149	1.00107.35	Al
ATOM	45482	P	GUA	1254	257.409	136.896	34.598	1.00	100.69	Al6S	ATOM	45535	N4	GUA	1256	252.099	148.488	26.058	1.00107.35	Al
ATOM	45483	O1P	GUA	1254	256.016	136.620	32.464	1.00	87.04	Al6S	ATOM	45536	C9	GUA	1256	251.876	149.247	24.972	1.00107.35	Al
ATOM	45484	O2P	GUA	1254	257.867	138.302	32.589	1.00	87.04	Al6S	ATOM	45537	N3	GUA	1256	251.063	148.623	24.123	1.00107.35	Al
ATOM	45485	O5	GUA	1254	259.089	138.834	33.087	1.00	87.04	Al6S	ATOM	45538	C2	GUA	1256	250.492	147.417	24.230	1.00107.35	Al
ATOM	45486	C5	GUA	1254	259.530	139.027	32.268	1.00	87.04	Al6S	ATOM	45539	N1	GUA	1256	250.736	146.683	25.337	1.00107.35	Al
ATOM	45487	O4	GUA	1254	259.613	139.650	30.869	1.00	87.04	Al6S	ATOM	45540	C6	GUA	1256	250.161	145.490	25.449	1.00107.35	Al
ATOM	45488	C1	GUA	1254	259.405	140.799	30.061	1.00	87.04	Al6S	ATOM	45541	N6	GUA	1256					Al
ATOM	45489	C1	GUA	1254							ATOM	45542	C2	GUA	1256					Al
ATOM	45490	C4	GUA	1254							ATOM	45543	N1	GUA	1256					Al
ATOM	45491	O4	GUA	1254							ATOM	45544	C6	GUA	1256					Al
ATOM	45492	C1	GUA	1254							ATOM	45545	N6	GUA	1256					Al

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ATOM	45546	C5	ADE	1256	251.585	147.230	26.312	1.00107.35	Al6s	ATOM	45599	O5' URI	1259	239.230	152.611	27.858	1.00141.54	Al1
ATOM	45547	N7	ADE	1256	252.037	146.751	27.534	1.00107.35	Al6s	ATOM	45600	C5' URI	1259	238.502	152.115	26.743	1.00141.54	Al1
ATOM	45548	C8	ADE	1256	252.799	147.717	27.987	1.00107.35	Al6s	ATOM	45601	C4' URI	1259	238.156	150.665	26.968	1.00141.54	Al1
ATOM	45549	C2' ADE	1256	253.620	151.153	27.841	1.0096.43	Al6s	Al6s	ATOM	45602	O4' URI	1259	239.395	149.933	27.095	1.00141.54	Al1
ATOM	45550	O2' ADE	1256	253.060	152.428	27.417	1.0096.43	Al6s	Al6s	ATOM	45603	C1' URI	1259	239.319	149.025	28.172	1.00141.54	Al1
ATOM	45551	C3' ADE	1256	252.720	150.959	29.346	1.0096.43	Al6s	Al6s	ATOM	45604	N1 URI	1259	240.415	149.354	29.100	1.00151.15	Al1
ATOM	45552	O3' ADE	1256	252.263	152.103	30.055	1.0096.43	Al6s	Al6s	ATOM	45605	C6 URI	1259	240.457	150.553	29.777	1.00151.15	Al1
ATOM	45553	P GUA	1257	250.724	152.186	30.524	1.00115.31	Al6s	Al6s	ATOM	45606	C2 URI	1259	241.423	148.415	29.258	1.00151.15	Al1
ATOM	45554	O1P GUA	1257	250.520	153.506	31.180	1.0097.86	Al6s	Al6s	ATOM	45607	O2 URI	1259	241.426	147.343	28.679	1.00151.15	Al1
ATOM	45555	O2P GUA	1257	250.392	150.936	31.262	1.0097.86	Al6s	Al6s	ATOM	45608	N3 URI	1259	242.434	148.785	30.109	1.00151.15	Al1
ATOM	45556	O5' GUA	1257	249.913	152.209	29.153	1.00115.31	Al6s	Al6s	ATOM	45609	C4 URI	1259	242.548	149.972	30.801	1.00151.15	Al1
ATOM	45557	C5' GUA	1257	250.155	153.228	28.186	1.00115.31	Al6s	Al6s	ATOM	45610	O4 URI	1259	243.557	150.186	31.474	1.00151.15	Al1
ATOM	45558	C4' GUA	1257	249.379	152.950	26.918	1.00115.31	Al6s	Al6s	ATOM	45611	C5 URI	1259	241.463	150.885	30.598	1.00151.15	Al1
ATOM	45559	O4' GUA	1257	249.842	151.689	26.341	1.00115.31	Al6s	Al6s	ATOM	45612	C2' URI	1259	237.882	149.057	28.722	1.00141.54	Al1
ATOM	45560	C1' GUA	1257	248.707	151.037	25.735	1.00115.31	Al6s	Al6s	ATOM	45613	O2' URI	1259	237.376	150.421	28.250	1.00141.54	Al1
ATOM	45561	N9 GUA	1257	248.474	149.785	26.445	1.0097.86	Al6s	Al6s	ATOM	45614	C3' URI	1259	237.823	147.989	28.187	1.00141.54	Al1
ATOM	45562	C4 GUA	1257	247.825	148.680	25.955	1.0097.86	Al6s	Al6s	ATOM	45615	O3' URI	1259	235.983	150.355	27.939	1.00141.54	Al1
ATOM	45563	N3 GUA	1257	247.271	148.566	24.730	1.0097.86	Al6s	Al6s	ATOM	45616	P ADE	1260	235.255	151.599	27.216	1.00117.46	Al1
ATOM	45564	C2 GUA	1257	246.732	147.375	24.543	1.0097.86	Al6s	Al6s	ATOM	45617	O1P ADE	1260	233.805	151.294	27.195	1.0085.12	Al1
ATOM	45565	N2 GUA	1257	246.138	147.088	23.378	1.0097.86	Al6s	Al6s	ATOM	45618	O2P ADE	1260	235.732	152.870	27.831	1.0085.12	Al1
ATOM	45566	N1 GUA	1257	246.737	146.377	25.483	1.0097.86	Al6s	Al6s	ATOM	45619	O5' ADE	1260	235.750	151.541	25.703	1.00117.46	Al1
ATOM	45567	C6 GUA	1257	247.302	146.474	26.749	1.0097.86	Al6s	Al6s	ATOM	45620	C5' ADE	1260	236.049	152.735	24.989	1.00117.46	Al1
ATOM	45568	O6 GUA	1257	247.257	145.511	27.518	1.0097.86	Al6s	Al6s	ATOM	45621	C4' ADE	1260	236.818	152.412	23.731	1.00117.46	Al1
ATOM	45569	C5 GUA	1257	247.880	147.746	26.965	1.0097.86	Al6s	Al6s	ATOM	45622	O4' ADE	1260	237.968	151.588	24.054	1.00117.46	Al1
ATOM	45570	N7 GUA	1257	248.535	148.258	28.075	1.0097.86	Al6s	Al6s	ATOM	45623	C1' ADE	1260	238.208	150.661	23.012	1.00117.46	Al1
ATOM	45571	C8 GUA	1257	248.865	149.470	27.723	1.0097.86	Al6s	Al6s	ATOM	45624	N9 ADE	1260	238.314	149.326	23.596	1.0085.12	Al1
ATOM	45572	O2' GUA	1257	247.521	151.993	25.832	1.00115.31	Al6s	Al6s	ATOM	45625	C4 ADE	1260	237.335	148.371	23.683	1.0085.12	Al1
ATOM	45573	O2' GUA	1257	247.490	152.813	24.682	1.00115.31	Al6s	Al6s	ATOM	45626	N3 ADE	1260	236.082	148.445	23.212	1.0085.12	Al1
ATOM	45574	C3' GUA	1257	247.884	152.766	27.090	1.00115.31	Al6s	Al6s	ATOM	45627	C2 ADE	1260	235.408	147.338	23.508	1.0085.12	Al1
ATOM	45575	O3' GUA	1257	247.217	154.012	27.147	1.00115.31	Al6s	Al6s	ATOM	45628	N1 ADE	1260	235.814	146.251	24.177	1.0085.12	Al1
ATOM	45576	P CYT	1258	245.797	154.106	27.877	1.00109.31	Al6s	Al6s	ATOM	45629	C6 ADE	1260	237.081	146.215	24.640	1.0085.12	Al1
ATOM	45577	O1P CYT	1258	245.322	155.506	27.707	1.0082.13	Al6s	Al6s	ATOM	45630	N6 ADE	1260	237.483	145.143	25.322	1.0085.12	Al1
ATOM	45578	O2P CYT	1258	245.916	153.519	29.240	1.0082.13	Al6s	Al6s	ATOM	45631	C7 ADE	1260	237.898	147.318	24.381	1.0085.12	Al1
ATOM	45579	O5' CYT	1258	244.866	153.145	27.016	1.00109.31	Al6s	Al6s	ATOM	45632	N5 ADE	1260	239.219	147.587	24.694	1.0085.12	Al1
ATOM	45580	C5' CYT	1258	244.294	153.591	25.793	1.00109.31	Al6s	Al6s	ATOM	45633	C8 ADE	1260	239.418	148.783	24.201	1.0085.12	Al1
ATOM	45581	C4' CYT	1258	243.318	152.566	25.270	1.00109.31	Al6s	Al6s	ATOM	45634	C2' ADE	1260	237.146	150.856	21.929	1.00117.46	Al1
ATOM	45582	O4' CYT	1258	244.033	151.330	25.009	1.00109.31	Al6s	Al6s	ATOM	45635	O2' ADE	1260	237.737	151.546	20.860	1.00117.46	Al1
ATOM	45583	C1' CYT	1258	243.157	150.231	25.190	1.00109.31	Al6s	Al6s	ATOM	45636	C3' ADE	1260	236.057	151.632	22.673	1.00117.46	Al1
ATOM	45584	N1 CYT	1258	243.713	149.348	26.223	1.0082.13	Al6s	Al6s	ATOM	45637	O3' ADE	1260	235.245	152.510	21.867	1.00117.46	Al1
ATOM	45585	C6 CYT	1258	244.432	149.849	27.270	1.0082.13	Al6s	Al6s	ATOM	45638	P ADE	1261	235.795	153.972	21.436	1.00110.44	Al1
ATOM	45586	C2 CYT	1258	243.482	147.973	26.120	1.0082.13	Al6s	Al6s	ATOM	45639	O1P ADE	1261	237.167	154.118	21.962	1.0073.59	Al1
ATOM	45587	O2 CYT	1258	242.825	147.548	25.158	1.0082.13	Al6s	Al6s	ATOM	45640	O2P ADE	1261	234.767	153.978	21.799	1.0073.59	Al1
ATOM	45588	N3 CYT	1258	243.973	147.143	27.068	1.0082.13	Al6s	Al6s	ATOM	45641	O5' ADE	1261	235.891	153.955	19.842	1.00110.44	Al1
ATOM	45589	C4 CYT	1258	244.665	147.639	28.092	1.0082.13	Al6s	Al6s	ATOM	45642	C5' ADE	1261	236.425	152.830	19.146	1.00110.44	Al1
ATOM	45590	N4 CYT	1258	245.118	146.781	29.010	1.0082.13	Al6s	Al6s	ATOM	45643	C4' ADE	1261	237.510	153.259	18.179	1.00110.44	Al1
ATOM	45591	C5 CYT	1258	244.921	149.038	28.221	1.0082.13	Al6s	Al6s	ATOM	45644	O1' ADE	1261	236.926	154.072	17.140	1.00110.44	Al1
ATOM	45592	C2' CYT	1258	241.797	150.810	25.576	1.00109.31	Al6s	Al6s	ATOM	45645	C4' ADE	1261	237.904	151.950	16.630	1.00109.44	Al1
ATOM	45593	O2' CYT	1258	241.047	151.020	24.395	1.00109.31	Al6s	Al6s	ATOM	45646	N9 ADE	1261	237.311	156.281	16.543	1.0073.59	Al1
ATOM	45594	C3' CYT	1258	242.212	152.124	26.218	1.00109.31	Al6s	Al6s	ATOM	45647	C4 ADE	1261	236.741	156.846	15.422	1.0073.59	Al1
ATOM	45595	O3' CYT	1258	241.129	153.048	26.243	1.00109.31	Al6s	Al6s	ATOM	45648	N3 ADE	1261	236.611	156.296	14.201	1.0073.59	Al1
ATOM	45596	P URI	1259	240.519	153.520	27.697	1.00141.54	Al6s	Al6s	ATOM	45649	C2 ADE	1261	236.017	157.148	13.358	1.0073.59	Al1
ATOM	45597	O1P URI	1259	240.060	154.921	27.493	1.00151.15	Al6s	Al6s	ATOM	45650	N1 ADE	1261	235.573	156.391	13.581	1.0073.59	Al1
ATOM	45598	O2P URI	1259	241.498	153.180	28.715	1.00151.15	Al6s	Al6s	ATOM	45651	C6 ADE	1261	235.717	158.912	14.818	1.0073.59	Al1

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ATOM	45652	N6	ADE	1261	235.274	160.146	15.037	1.00	73.59	Al6s	ATOM	45705	C4'	GUA	1264	247.820	146.823	19.764	1.00	87.57	Al
ATOM	45653	C5	ADE	1261	236.331	158.109	15.803	1.00	73.59	Al6s	ATOM	45706	O4'	GUA	1264	246.539	147.120	20.384	1.00	87.57	Al
ATOM	45654	N7	ADE	1261	236.631	158.332	17.136	1.00	73.59	Al6s	ATOM	45707	C1'	GUA	1264	245.572	146.174	19.938	1.00	87.57	Al
ATOM	45655	C8	ADE	1261	237.207	157.218	17.526	1.00	73.59	Al6s	ATOM	45708	N9	GUA	1264	244.523	146.875	19.208	1.00	77.57	Al
ATOM	45656	C2'	ADE	1261	239.163	154.833	17.501	1.00110.44	Al6s	ATOM	45709	C4	GUA	1264	243.257	146.402	18.957	1.00	77.57	Al	
ATOM	45657	O2'	ADE	1261	240.146	154.084	16.821	1.00110.44	Al6s	ATOM	45710	N3	GUA	1264	242.759	145.218	19.365	1.00	77.57	Al	
ATOM	45658	C3'	ADE	1261	238.644	154.103	18.740	1.00110.44	Al6s	ATOM	45711	C2	GUA	1264	241.516	145.041	18.953	1.00	77.57	Al	
ATOM	45659	O3'	ADE	1261	239.667	153.250	19.259	1.00110.44	Al6s	ATOM	45712	N2	GUA	1264	240.866	143.919	19.271	1.00	77.57	Al	
ATOM	45660	P	URI	1262	240.110	153.363	20.807	1.00199.88	Al6s	ATOM	45713	N1	GUA	1264	240.819	145.951	18.201	1.00	77.57	Al	
ATOM	45661	O1P	URI	1262	239.793	152.082	21.483	1.00147.93	Al6s	ATOM	45714	C6	GUA	1264	241.311	147.177	17.773	1.00	77.57	Al	
ATOM	45662	O2P	URI	1262	239.604	154.639	21.373	1.00147.93	Al6s	ATOM	45715	O6	GUA	1264	240.595	147.931	17.107	1.00	77.57	Al	
ATOM	45663	O5'	URI	1262	241.698	153.429	20.748	1.00199.88	Al6s	ATOM	45716	C5	GUA	1264	242.644	147.380	18.204	1.00	77.57	Al	
ATOM	45664	C5'	URI	1262	242.423	154.493	21.342	1.00199.88	Al6s	ATOM	45717	N7	GUA	1264	243.504	148.450	17.993	1.00	77.57	Al	
ATOM	45665	C4'	URI	1262	242.829	155.473	20.278	1.00199.88	Al6s	ATOM	45718	C8	GUA	1264	244.603	148.110	18.612	1.00	77.57	Al	
ATOM	45666	O4'	URI	1262	241.649	156.164	19.798	1.00199.88	Al6s	ATOM	45719	O2'	GUA	1264	246.302	145.122	18.992	1.00	87.57	Al	
ATOM	45667	C1'	URI	1262	241.934	157.537	19.609	1.00199.88	Al6s	ATOM	45720	O2'	GUA	1264	246.799	144.132	19.739	1.00	87.57	Al	
ATOM	45668	N1	URI	1262	241.044	158.300	20.499	1.00147.93	Al6s	ATOM	45721	C3'	GUA	1264	247.403	146.138	18.477	1.00	87.57	Al	
ATOM	45669	C6	URI	1262	240.570	157.751	21.671	1.00147.93	Al6s	ATOM	45722	O3'	GUA	1264	248.476	145.420	17.893	1.00	87.57	Al	
ATOM	45670	C2	URI	1262	240.661	159.568	20.104	1.00147.93	Al6s	ATOM	45723	P	CYT	1265	248.426	145.053	16.332	1.00	78.50	Al	
ATOM	45671	O2	URI	1262	241.114	160.117	19.112	1.00147.93	Al6s	ATOM	45724	O1P	CYT	1265	249.782	144.566	15.976	1.00	66.90	Al	
ATOM	45672	N3	URI	1262	239.733	160.171	20.919	1.00147.93	Al6s	ATOM	45725	O2P	CYT	1265	247.845	146.203	15.592	1.00	66.90	Al	
ATOM	45673	C4	URI	1262	239.179	159.654	22.076	1.00147.93	Al6s	ATOM	45726	O5'	CYT	1265	247.424	143.814	16.285	1.00	78.50	Al	
ATOM	45674	O4	URI	1262	238.245	160.247	22.618	1.00147.93	Al6s	ATOM	45727	C5'	CYT	1265	247.608	142.692	17.154	1.00	78.50	Al	
ATOM	45675	C5	URI	1262	239.678	158.368	22.450	1.00147.93	Al6s	ATOM	45728	C4'	CYT	1265	246.469	141.710	16.997	1.00	78.50	Al	
ATOM	45676	C2'	URI	1262	243.444	157.727	19.789	1.00199.88	Al6s	ATOM	45729	O4'	CYT	1265	245.235	142.298	17.484	1.00	78.50	Al	
ATOM	45677	O2'	URI	1262	244.073	157.659	18.525	1.00199.88	Al6s	ATOM	45730	C1'	CYT	1265	244.151	141.871	16.680	1.00	78.50	Al	
ATOM	45678	C3'	URI	1262	243.793	156.560	20.709	1.00199.88	Al6s	ATOM	45731	N1	CYT	1265	243.545	143.057	16.059	1.00	66.90	Al	
ATOM	45679	O3'	URI	1262	245.140	156.072	20.628	1.00199.88	Al6s	ATOM	45732	C6	CYT	1265	244.269	144.200	15.887	1.00	66.90	Al	
ATOM	45680	P	CYT	1263	245.655	155.295	19.303	1.00	86.56	Al6s	ATOM	45733	C2	CYT	1265	242.214	142.996	15.637	1.00	66.90	Al
ATOM	45681	O1P	CYT	1263	246.884	155.967	18.315	1.00104.20	Al6s	ATOM	45734	O2	CYT	1265	241.577	141.944	15.809	1.00	66.90	Al	
ATOM	45682	O2P	CYT	1263	244.531	155.069	18.364	1.00104.20	Al6s	ATOM	45735	N3	CYT	1265	242.381	145.081	15.049	1.00	66.90	Al	
ATOM	45683	O5'	CYT	1263	246.106	153.879	19.869	1.00	86.56	Al6s	ATOM	45736	C4	CYT	1265	241.658	144.181	15.849	1.00	66.90	Al
ATOM	45684	C5'	CYT	1263	247.098	153.799	20.878	1.00	86.56	Al6s	ATOM	45737	N4	CYT	1265	241.805	146.225	14.267	1.00	66.90	Al
ATOM	45685	O4'	CYT	1263	247.073	152.445	21.531	1.00	86.56	Al6s	ATOM	45738	C5'	CYT	1265	243.733	145.278	15.301	1.00	66.90	Al
ATOM	45686	C4'	CYT	1263	245.806	152.257	22.217	1.00	86.56	Al6s	ATOM	45739	C2'	CYT	1265	244.707	140.883	15.654	1.00	78.50	Al
ATOM	45687	C1'	CYT	1263	245.461	150.876	22.204	1.00	86.56	Al6s	ATOM	45740	O2'	CYT	1265	244.561	139.572	16.149	1.00	78.50	Al
ATOM	45688	N1	CYT	1263	244.200	150.711	21.467	1.00104.20	Al6s	ATOM	45741	C3'	CYT	1265	246.163	141.319	15.565	1.00	78.50	Al	
ATOM	45689	C6	CYT	1263	243.875	151.540	20.433	1.00104.20	Al6s	ATOM	45742	O3'	CYT	1265	247.015	140.254	15.166	1.00	78.50	Al	
ATOM	45690	C2	CYT	1263	243.343	149.675	21.833	1.00104.20	Al6s	ATOM	45743	P	ADE	1266	247.523	140.168	13.646	1.00	87.58	Al	
ATOM	45691	O2	CYT	1263	243.671	148.932	22.764	1.00104.20	Al6s	ATOM	45744	O1P	ADE	1266	246.327	140.165	12.771	1.00	73.52	Al	
ATOM	45692	N3	CYT	1263	242.183	149.506	21.161	1.00104.20	Al6s	ATOM	45745	O2P	ADE	1266	248.507	139.060	13.558	1.00	73.52	Al	
ATOM	45693	C4	CYT	1263	241.874	150.320	20.153	1.00104.20	Al6s	ATOM	45746	O5'	ADE	1266	248.267	141.548	13.387	1.00	87.58	Al	
ATOM	45694	N4	CYT	1263	242.714	150.124	19.521	1.00104.20	Al6s	ATOM	45747	C5'	ADE	1266	248.932	141.796	12.155	1.00	87.58	Al	
ATOM	45695	C5	CYT	1263	242.737	151.376	19.748	1.00104.20	Al6s	ATOM	45748	C4'	ADE	1266	248.426	143.078	11.549	1.00	87.58	Al	
ATOM	45696	C2'	CYT	1263	246.598	150.147	21.489	1.00	86.56	Al6s	ATOM	45749	O4'	ADE	1266	247.086	142.878	11.063	1.00	87.58	Al
ATOM	45697	O2'	CYT	1263	247.547	149.690	22.433	1.00	86.56	Al6s	ATOM	45750	C1'	ADE	1266	246.343	144.068	11.216	1.00	87.58	Al
ATOM	45698	C3'	CYT	1263	247.118	151.258	20.589	1.00	86.56	Al6s	ATOM	45751	N9	ADE	1266	245.013	143.719	11.712	1.00	73.52	Al
ATOM	45699	O3'	CYT	1263	248.414	151.003	20.068	1.00	86.56	Al6s	ATOM	45752	C4	ADE	1266	243.852	144.380	11.395	1.00	73.52	Al
ATOM	45700	P	GUA	1264	248.559	150.459	18.565	1.00	87.57	Al6s	ATOM	45753	N3	ADE	1266	243.727	145.479	10.634	1.00	73.52	Al
ATOM	45701	O1P	GUA	1264	249.993	150.436	18.213	1.00	77.57	Al6s	ATOM	45754	C2	ADE	1266	242.452	145.817	10.510	1.00	73.52	Al
ATOM	45702	O2P	GUA	1264	247.616	151.225	17.722	1.00	77.57	Al6s	ATOM	45755	N1	ADE	1266	241.367	145.229	11.020	1.00	73.52	Al
ATOM	45703	O5'	GUA	1264	248.056	148.955	18.676	1.00	87.57	Al6s	ATOM	45756	C6	ADE	1266	241.523	144.130	11.781	1.00	73.52	Al
ATOM	45704	C5'	GUA	1264	248.647	148.075	19.619	1.00	87.57	Al6s	ATOM	45757	N6	ADE	1266	240.433	143.550	12.283	1.00	73.52	Al

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ATOM	45758	C5	ADE	1266	242.833	143.666	11.994	1.00	73.52	A16S	ATOM	45811	O2P	ADE	1269	249.369	143.103	1.786	1.00	62.96	A16
ATOM	45759	N7	ADE	1266	243.344	142.590	12.709	1.00	73.52	A16S	ATOM	45812	O5'	ADE	1269	248.815	140.756	1.113	1.00	63.78	A16
ATOM	45760	C8	ADE	1266	244.640	142.672	12.520	1.00	73.52	A16S	ATOM	45813	C5'	ADE	1269	248.661	139.361	1.319	1.00	63.78	A16
ATOM	45761	C2'	ADE	1266	247.153	145.085	12.028	1.00	87.58	A16S	ATOM	45814	C4'	ADE	1269	247.636	138.817	0.368	1.00	63.78	A16
ATOM	45762	O2'	ADE	1266	247.451	146.224	11.247	1.00	87.58	A16S	ATOM	45815	O4'	ADE	1269	246.352	139.425	0.662	1.00	63.78	A16
ATOM	45763	C3'	ADE	1266	248.345	144.252	12.512	1.00	87.58	A16S	ATOM	45816	C1'	ADE	1269	245.633	139.613	-0.538	1.00	63.78	A16
ATOM	45764	O3'	ADE	1266	249.613	144.923	12.640	1.00	87.58	A16S	ATOM	45817	N9	ADE	1269	245.421	141.045	-0.718	1.00	62.96	A16
ATOM	45765	P	ADE	1267	250.337	145.597	11.354	1.00	70.63	A16S	ATOM	45818	C4	ADE	1269	244.380	141.629	-1.402	1.00	62.96	A16
ATOM	45766	O1P	ADE	1267	251.768	145.695	11.730	1.00	82.42	A16S	ATOM	45819	N3	ADE	1269	243.360	141.010	-2.021	1.00	62.96	A16
ATOM	45767	O2P	ADE	1267	249.630	146.813	10.872	1.00	82.42	A16S	ATOM	45820	C2	ADE	1269	242.649	141.898	-2.586	1.00	62.96	A16
ATOM	45768	O5'	ADE	1267	250.272	144.485	10.218	1.00	70.63	A16S	ATOM	45821	N1	ADE	1269	242.633	143.232	-2.606	1.00	62.96	A16
ATOM	45769	C5'	ADE	1267	251.472	143.968	9.676	1.00	70.63	A16S	ATOM	45822	C6	ADE	1269	243.669	143.821	-1.976	1.00	62.96	A16
ATOM	45770	C4'	ADE	1267	251.207	143.126	8.448	1.00	70.63	A16S	ATOM	45823	N6	ADE	1269	243.757	145.151	-2.007	1.00	62.96	A16
ATOM	45771	O4'	ADE	1267	250.594	141.865	8.824	1.00	70.63	A16S	ATOM	45824	C5	ADE	1269	244.539	142.989	-1.330	1.00	62.96	A16
ATOM	45772	C1'	ADE	1267	249.833	141.371	7.730	1.00	70.63	A16S	ATOM	45825	N7	ADE	1269	245.749	143.259	-0.605	1.00	62.96	A16
ATOM	45773	N9	ADE	1267	248.423	141.352	8.106	1.00	82.42	A16S	ATOM	45826	C8	ADE	1269	246.196	142.074	-0.266	1.00	62.96	A16
ATOM	45774	C4	ADE	1267	247.710	140.315	8.644	1.00	82.42	A16S	ATOM	45827	C2'	ADE	1269	246.471	139.006	-1.661	1.00	63.78	A16
ATOM	45775	N3	ADE	1267	248.162	139.094	8.968	1.00	82.42	A16S	ATOM	45828	O2'	ADE	1269	246.141	137.640	-1.821	1.00	63.78	A16
ATOM	45776	C2	ADE	1267	247.171	138.345	9.451	1.00	82.42	A16S	ATOM	45829	C3'	ADE	1269	247.866	139.170	-1.090	1.00	63.78	A16
ATOM	45777	N1	ADE	1267	245.881	138.665	9.639	1.00	82.42	A16S	ATOM	45830	O3'	ADE	1269	248.805	138.308	-1.729	1.00	63.78	A16
ATOM	45778	C6	ADE	1267	245.472	139.911	9.310	1.00	82.42	A16S	ATOM	45831	P	ADE	1270	249.724	138.895	-2.906	1.00	65.93	A16
ATOM	45779	N6	ADE	1267	244.200	140.250	9.514	1.00	82.42	A16S	ATOM	45832	O1P	ADE	1270	250.814	137.923	-3.191	1.00	65.93	A16
ATOM	45780	C5	ADE	1267	246.416	140.785	8.778	1.00	82.42	A16S	ATOM	45833	O2P	ADE	1270	250.814	140.294	-2.525	1.00	65.65	A16
ATOM	45781	N7	ADE	1267	246.316	142.094	8.336	1.00	82.42	A16S	ATOM	45834	O5'	ADE	1270	248.765	139.004	-4.171	1.00	65.93	A16
ATOM	45782	C8	ADE	1267	247.528	142.386	7.958	1.00	82.42	A16S	ATOM	45835	C5'	ADE	1270	248.164	137.856	-4.745	1.00	65.93	A16
ATOM	45783	C2'	ADE	1267	250.030	142.364	6.586	1.00	70.63	A16S	ATOM	45836	C4'	ADE	1270	246.927	138.265	-5.575	1.00	65.93	A16
ATOM	45784	O2'	ADE	1267	251.136	141.958	5.818	1.00	70.63	A16S	ATOM	45837	O4'	ADE	1270	246.027	138.983	-4.734	1.00	65.93	A16
ATOM	45785	C3'	ADE	1267	250.289	143.649	7.356	1.00	70.63	A16S	ATOM	45838	C1'	ADE	1270	245.285	139.891	-5.532	1.00	65.93	A16
ATOM	45786	O3'	ADE	1267	250.921	144.595	6.512	1.00	70.63	A16S	ATOM	45839	N9	ADE	1270	245.510	141.250	-5.050	1.00	65.65	A16
ATOM	45787	P	ADE	1268	250.051	145.410	5.427	1.00	97.67	A16S	ATOM	45840	C4	ADE	1270	244.671	142.309	-5.288	1.00	65.65	A16
ATOM	45788	O1P	ADE	1268	250.990	145.783	4.331	1.00	56.93	A16S	ATOM	45841	N3	ADE	1270	243.487	142.278	-5.918	1.00	65.65	A16
ATOM	45789	O2P	ADE	1268	249.244	146.476	6.101	1.00	56.93	A16S	ATOM	45842	C2	ADE	1270	242.970	143.492	-5.998	1.00	65.65	A16
ATOM	45790	O5'	ADE	1268	249.043	144.328	4.831	1.00	97.67	A16S	ATOM	45843	N1	ADE	1270	243.465	144.650	-5.563	1.00	65.65	A16
ATOM	45791	C5'	ADE	1268	247.645	144.606	4.739	1.00	97.67	A16S	ATOM	45844	C6	ADE	1270	244.659	144.650	-4.940	1.00	65.65	A16
ATOM	45792	C4'	ADE	1268	246.852	143.326	4.601	1.00	97.67	A16S	ATOM	45845	N6	ADE	1270	245.158	145.813	-4.527	1.00	65.65	A16
ATOM	45793	O4'	ADE	1268	245.442	143.644	4.639	1.00	97.67	A16S	ATOM	45846	C5	ADE	1270	245.306	143.419	-4.773	1.00	65.65	A16
ATOM	45794	C1'	ADE	1268	244.745	142.814	3.736	1.00	97.67	A16S	ATOM	45847	N7	ADE	1270	246.504	143.063	-4.170	1.00	65.65	A16
ATOM	45795	N9	ADE	1268	244.137	143.680	2.735	1.00	56.93	A16S	ATOM	45848	C8	ADE	1270	246.573	141.765	-4.350	1.00	65.65	A16
ATOM	45796	C4	ADE	1268	243.058	143.377	1.942	1.00	56.93	A16S	ATOM	45849	C2'	ADE	1270	245.830	139.769	-6.953	1.00	65.93	A16
ATOM	45797	N3	ADE	1268	242.386	142.216	1.895	1.00	56.93	A16S	ATOM	45850	O2'	ADE	1270	245.059	138.835	-7.684	1.00	65.93	A16
ATOM	45798	C2	ADE	1268	241.374	142.299	1.044	1.00	56.93	A16S	ATOM	45851	C3'	ADE	1270	247.241	139.276	-6.673	1.00	65.93	A16
ATOM	45799	N1	ADE	1268	240.983	143.330	0.287	1.00	56.93	A16S	ATOM	45852	O3'	ADE	1270	247.821	138.678	-7.819	1.00	65.93	A16
ATOM	45800	C6	ADE	1268	241.683	144.478	0.350	1.00	56.93	A16S	ATOM	45853	P	ADE	1271	248.909	139.497	-8.681	1.00	61.52	A16
ATOM	45801	N6	ADE	1268	241.295	145.502	-0.410	1.00	56.93	A16S	ATOM	45854	O1P	ADE	1271	248.602	139.156	-10.115	1.00	67.30	A16
ATOM	45802	C5	ADE	1268	242.785	144.522	1.220	1.00	56.93	A16S	ATOM	45855	O2P	ADE	1271	250.234	139.254	-8.059	1.00	67.30	A16
ATOM	45803	N7	ADE	1268	243.700	145.519	1.527	1.00	56.93	A16S	ATOM	45856	O5'	ADE	1271	248.525	141.034	-8.496	1.00	61.52	A16
ATOM	45804	C8	ADE	1268	244.483	144.965	2.421	1.00	56.93	A16S	ATOM	45857	C5'	ADE	1271	247.621	141.684	-9.392	1.00	61.52	A16
ATOM	45805	C2'	ADE	1268	245.734	141.800	3.173	1.00	97.67	A16S	ATOM	45858	C4'	ADE	1271	247.634	143.176	-9.152	1.00	61.52	A16
ATOM	45806	O2'	ADE	1268	245.702	140.629	3.958	1.00	97.67	A16S	ATOM	45859	O4'	ADE	1271	247.505	143.394	-7.720	1.00	61.52	A16
ATOM	45807	C3'	ADE	1268	247.040	142.562	3.301	1.00	97.67	A16S	ATOM	45860	C1'	ADE	1271	248.322	144.481	-7.315	1.00	61.52	A16
ATOM	45808	O3'	ADE	1268	248.129	141.653	3.394	1.00	97.67	A16S	ATOM	45861	N9	ADE	1271	249.333	143.973	-6.393	1.00	67.30	A16
ATOM	45809	P	ADE	1269	249.298	141.702	2.297	1.00	63.78	A16S	ATOM	45862	C3	ADE	1271	250.244	144.718	-5.691	1.00	67.30	A16
ATOM	45810	O1P	ADE	1269	250.483	141.073	2.939	1.00	62.96	A16S	ATOM	45863	N3	ADE	1271	250.380	146.055	-5.747	1.00	67.30	A16

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ATOM	45864	C2	GUA	1271	251.338	146.488	-4.948	1.00	67.30	Al65	ATOM	45917	C3' URI	1273	259.168	147.303	-11.496	1.00	86.78	Al
ATOM	45865	N2	GUA	1271	251.613	147.796	-4.898	1.00	67.30	Al65	ATOM	45918	O3' URI	1273	259.980	147.540	-12.632	1.00	86.78	Al
ATOM	45866	N1	GUA	1271	252.097	145.675	-4.143	1.00	67.30	Al65	ATOM	45919	P	1274	260.524	146.286	-13.477	1.00	86.17	Al
ATOM	45867	C6	GUA	1271	251.973	144.293	-4.061	1.00	67.30	Al65	ATOM	45920	O1P GUA	1274	261.380	146.818	-14.574	1.00	85.25	Al
ATOM	45868	O6	GUA	1271	252.700	143.651	-3.286	1.00	67.30	Al65	ATOM	45921	O2P GUA	1274	259.349	145.431	-13.810	1.00	85.25	Al
ATOM	45869	C5	GUA	1271	250.955	143.811	-4.933	1.00	67.30	Al65	ATOM	45922	O5' GUA	1274	261.455	145.507	-12.438	1.00	86.17	Al
ATOM	45870	N7	GUA	1271	250.515	142.517	-5.174	1.00	67.30	Al65	ATOM	45923	C5' GUA	1274	262.631	146.123	-11.933	1.00	86.17	Al
ATOM	45871	C8	GUA	1271	249.554	142.663	-6.046	1.00	67.30	Al65	ATOM	45924	C4' GUA	1274	263.368	145.200	-10.993	1.00	86.17	Al
ATOM	45872	C2'	GUA	1271	248.904	145.095	-8.587	1.00	61.52	Al65	ATOM	45925	O4' GUA	1274	262.556	144.921	-9.824	1.00	86.17	Al
ATOM	45873	O2'	GUA	1271	248.051	146.132	-9.034	1.00	61.52	Al65	ATOM	45926	C1' GUA	1274	262.954	143.675	-9.269	1.00	86.17	Al
ATOM	45874	C3'	GUA	1271	248.933	143.881	-9.511	1.00	61.52	Al65	ATOM	45927	N9	1274	261.784	142.805	-9.152	1.00	85.25	Al
ATOM	45875	O3'	GUA	1271	248.983	144.237	-10.893	1.00	61.52	Al65	ATOM	45928	C4	1274	261.654	141.735	-8.300	1.00	85.25	Al
ATOM	45876	P	GUA	1272	250.335	143.979	-11.733	1.00	81.35	Al65	ATOM	45929	N3	1274	262.581	141.310	-7.421	1.00	85.25	Al
ATOM	45877	O1P	GUA	1272	250.014	144.211	-13.166	1.00	69.86	Al65	ATOM	45930	C2	1274	262.177	140.248	-6.747	1.00	85.25	Al
ATOM	45878	O2P	GUA	1272	250.923	142.680	-11.312	1.00	69.86	Al65	ATOM	45931	N2	1274	262.981	139.693	-5.833	1.00	85.25	Al
ATOM	45879	O5'	GUA	1272	251.310	145.139	-11.238	1.00	81.35	Al65	ATOM	45932	N1	1274	260.956	139.650	-6.919	1.00	85.25	Al
ATOM	45880	C5'	GUA	1272	251.002	146.509	-11.488	1.00	81.35	Al65	ATOM	45933	C6	1274	259.981	140.068	-7.816	1.00	85.25	Al
ATOM	45881	C4'	GUA	1272	251.936	147.411	-10.713	1.00	81.35	Al65	ATOM	45934	O6	1274	258.909	139.454	-7.886	1.00	85.25	Al
ATOM	45882	O4'	GUA	1272	251.936	147.411	-10.713	1.00	81.35	Al65	ATOM	45935	C5	1274	260.407	141.212	-8.554	1.00	85.25	Al
ATOM	45883	C1'	GUA	1272	252.945	147.427	-8.594	1.00	81.35	Al65	ATOM	45936	N7	1274	259.761	141.940	-9.543	1.00	85.25	Al
ATOM	45884	N9	GUA	1272	253.275	146.192	-7.895	1.00	69.86	Al65	ATOM	45937	C8	1274	260.612	142.876	-9.865	1.00	85.25	Al
ATOM	45885	C4	GUA	1272	254.289	146.004	-6.984	1.00	69.86	Al65	ATOM	45938	C2'	1274	264.026	143.096	-10.195	1.00	86.17	Al
ATOM	45886	N3	GUA	1272	255.168	146.939	-6.565	1.00	69.86	Al65	ATOM	45939	O2'	1274	265.305	143.443	-9.715	1.00	86.17	Al
ATOM	45887	C2	GUA	1272	256.026	146.451	-5.676	1.00	69.86	Al65	ATOM	45940	C3' GUA	1274	263.714	143.813	-11.498	1.00	86.17	Al
ATOM	45888	N2	GUA	1272	256.972	147.243	-5.144	1.00	69.86	Al65	ATOM	45941	O3' GUA	1274	264.851	143.816	-12.345	1.00	86.17	Al
ATOM	45889	N1	GUA	1272	256.020	145.149	-5.662	1.00	69.86	Al65	ATOM	45942	P	1275	265.103	142.570	-13.329	1.00	94.58	Al
ATOM	45890	C6	GUA	1272	255.127	144.170	-5.662	1.00	69.86	Al65	ATOM	45943	O1P GUA	1275	266.363	142.832	-14.068	1.00	89.76	Al
ATOM	45891	O6	GUA	1272	255.217	143.020	-5.215	1.00	69.86	Al65	ATOM	45944	O2P GUA	1275	263.856	142.305	-14.086	1.00	89.76	Al
ATOM	45892	C5	GUA	1272	254.199	144.681	-6.607	1.00	69.86	Al65	ATOM	45945	O5' GUA	1275	265.358	141.353	-12.338	1.00	94.58	Al
ATOM	45893	N7	GUA	1272	253.153	144.053	-7.265	1.00	69.86	Al65	ATOM	45946	C5' GUA	1275	266.504	141.346	-11.554	1.00	94.58	Al
ATOM	45894	C8	GUA	1272	252.636	144.986	-8.017	1.00	69.86	Al65	ATOM	45947	C4' GUA	1275	266.465	140.174	-10.554	1.00	94.58	Al
ATOM	45895	C2'	GUA	1272	253.990	147.814	-9.638	1.00	81.35	Al65	ATOM	45948	O4' GUA	1275	265.352	140.310	-9.626	1.00	94.58	Al
ATOM	45896	O2'	GUA	1272	254.007	149.220	-9.752	1.00	81.35	Al65	ATOM	45949	C1' GUA	1275	264.935	139.013	-9.200	1.00	94.58	Al
ATOM	45897	C3'	GUA	1272	253.422	147.149	-10.884	1.00	81.35	Al65	ATOM	45950	N9	1275	263.544	138.803	-9.593	1.00	89.76	Al
ATOM	45898	O3'	GUA	1272	253.921	147.751	-12.073	1.00	81.35	Al65	ATOM	45951	C4	1275	262.728	137.804	-9.131	1.00	89.76	Al
ATOM	45899	P	URI	1273	255.047	146.996	-12.936	1.00	86.78	Al65	ATOM	45952	N3	1275	263.061	136.880	-8.211	1.00	89.76	Al
ATOM	45900	O1P	URI	1273	255.158	147.730	-14.218	1.00	84.65	Al65	ATOM	45953	C2	1275	262.076	136.037	-7.982	1.00	89.76	Al
ATOM	45901	O2P	URI	1273	254.755	145.544	-12.948	1.00	84.65	Al65	ATOM	45954	N2	1275	262.245	135.057	-7.088	1.00	89.76	Al
ATOM	45902	O5'	URI	1273	256.383	147.221	-12.105	1.00	86.78	Al65	ATOM	45955	N1	1275	260.856	136.095	-8.611	1.00	89.76	Al
ATOM	45903	C5'	URI	1273	256.997	148.500	-12.060	1.00	86.78	Al65	ATOM	45956	C6	1275	260.492	137.039	-9.565	1.00	89.76	Al
ATOM	45904	C4'	URI	1273	258.229	148.452	-11.198	1.00	86.78	Al65	ATOM	45957	O6	1275	259.369	137.000	-10.079	1.00	89.76	Al
ATOM	45905	O4'	URI	1273	257.852	148.208	-9.815	1.00	86.78	Al65	ATOM	45958	C5	1275	261.541	137.953	-9.814	1.00	89.76	Al
ATOM	45906	C1'	URI	1273	258.860	147.435	-9.173	1.00	86.78	Al65	ATOM	45959	N7	1275	261.602	139.039	-10.676	1.00	89.76	Al
ATOM	45907	N1	URI	1273	258.281	146.150	-8.753	1.00	84.65	Al65	ATOM	45960	C8	1275	262.806	139.517	-10.507	1.00	89.76	Al
ATOM	45908	C6	URI	1273	257.128	145.650	-9.320	1.00	84.65	Al65	ATOM	45961	C2'	1275	265.827	138.007	-9.928	1.00	94.58	Al
ATOM	45909	O2	URI	1273	258.953	145.443	-7.772	1.00	84.65	Al65	ATOM	45962	O3' GUA	1275	266.937	137.655	-9.121	1.00	94.58	Al
ATOM	45910	C2	URI	1273	259.961	145.859	-7.239	1.00	84.65	Al65	ATOM	45963	C3' GUA	1275	266.203	138.812	-11.162	1.00	94.58	Al
ATOM	45911	N3	URI	1273	258.401	144.232	-7.441	1.00	84.65	Al65	ATOM	45964	O3' GUA	1275	267.324	138.269	-11.820	1.00	94.58	Al
ATOM	45912	C4	URI	1273	257.267	143.667	-7.976	1.00	84.65	Al65	ATOM	45965	P	1276	267.093	137.225	-13.012	1.00	67.57	Al
ATOM	45913	O4	URI	1273	256.613	144.265	-8.977	1.00	84.65	Al65	ATOM	45966	O1P GUA	1276	268.405	137.067	-13.691	1.00	70.90	Al
ATOM	45914	C5	URI	1273	259.961	144.463	-8.977	1.00	84.65	Al65	ATOM	45967	O2P GUA	1276	265.906	137.670	-13.801	1.00	70.90	Al
ATOM	45915	C2'	URI	1273	259.966	147.218	-10.204	1.00	86.78	Al65	ATOM	45968	O5' GUA	1276	266.756	135.853	-12.269	1.00	67.57	Al
ATOM	45916	O2'	URI	1273	260.939	148.235	-10.083	1.00	86.78	Al65	ATOM	45969	C5' GUA	1276	267.677	135.296	-11.344	1.00	67.57	Al

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ATOM	45970	C4'	GUA	1276	267.050	134.155	-10.575	1.00	67.57	Al6s	ATOM	46023	C5	CYT	1278	263.558	130.412	-16.564	1.00	60.12	Al6s
ATOM	45971	O4'	GUA	1276	265.895	134.624	-9.828	1.00	67.57	Al6s	ATOM	46024	C2'	CYT	1278	263.119	126.622	-19.335	1.00	58.95	Al6s
ATOM	45972	C1'	GUA	1276	264.963	133.559	-9.681	1.00	67.57	Al6s	ATOM	46025	O2'	CYT	1278	262.208	126.238	-20.339	1.00	58.95	Al6s
ATOM	45973	N9	GUA	1276	263.717	133.938	-10.338	1.00	70.90	Al6s	ATOM	46026	C3'	CYT	1278	263.806	125.487	-18.563	1.00	58.95	Al6s
ATOM	45974	C4	GUA	1276	262.525	133.254	-10.289	1.00	70.90	Al6s	ATOM	46027	O3'	CYT	1278	263.846	124.149	-19.105	1.00	58.95	Al6s
ATOM	45975	N3	GUA	1276	262.296	132.104	-9.620	1.00	70.90	Al6s	ATOM	46028	P	CYT	1279	263.266	123.807	-20.575	1.00	73.26	Al6s
ATOM	45976	C2	GUA	1276	261.054	131.683	-9.777	1.00	70.90	Al6s	ATOM	46029	O1P	CYT	1279	263.888	122.521	-20.949	1.00	73.54	Al6s
ATOM	45977	N2	GUA	1276	260.662	130.539	-9.206	1.00	70.90	Al6s	ATOM	46030	O2P	CYT	1279	263.329	124.945	-21.519	1.00	73.54	Al6s
ATOM	45978	N1	GUA	1276	260.111	132.347	-10.512	1.00	70.90	Al6s	ATOM	46031	O5'	CYT	1279	261.755	123.428	-20.304	1.00	73.26	Al6s
ATOM	45979	C6	GUA	1276	260.324	133.530	-11.204	1.00	70.90	Al6s	ATOM	46032	C5'	CYT	1279	259.944	122.520	-19.044	1.00	73.26	Al6s
ATOM	45980	O6	GUA	1276	259.401	134.044	-11.839	1.00	70.90	Al6s	ATOM	46033	C4'	CYT	1279	259.483	123.830	-18.677	1.00	73.26	Al6s
ATOM	45981	C5	GUA	1276	261.652	133.985	-11.060	1.00	70.90	Al6s	ATOM	46034	O4'	CYT	1279	258.153	123.965	-19.082	1.00	73.26	Al6s
ATOM	45982	N7	GUA	1276	262.280	135.102	-11.588	1.00	70.90	Al6s	ATOM	46035	C1'	CYT	1279	257.871	125.391	-19.272	1.00	73.54	Al6s
ATOM	45983	C8	GUA	1276	263.500	135.035	-11.131	1.00	70.90	Al6s	ATOM	46036	N1	CYT	1279	258.876	126.307	-19.157	1.00	73.54	Al6s
ATOM	45984	C2'	GUA	1276	265.591	132.334	-10.343	1.00	67.57	Al6s	ATOM	46037	C6	CYT	1279	256.566	125.806	-19.523	1.00	73.54	Al6s
ATOM	45985	O2'	GUA	1276	266.326	131.605	-9.383	1.00	67.57	Al6s	ATOM	46038	C2	CYT	1279	255.677	124.953	-19.643	1.00	73.54	Al6s
ATOM	45986	C3'	GUA	1276	266.486	132.999	-11.376	1.00	67.57	Al6s	ATOM	46039	O2	CYT	1279	255.677	124.953	-19.643	1.00	73.54	Al6s
ATOM	45987	O3'	GUA	1276	267.494	132.109	-11.814	1.00	67.57	Al6s	ATOM	46040	N3	CYT	1279	256.303	127.128	-19.624	1.00	73.54	Al6s
ATOM	45988	P	CYT	1277	267.310	131.345	-13.213	1.00	79.98	Al6s	ATOM	46041	C4	CYT	1279	257.291	128.015	-19.489	1.00	73.54	Al6s
ATOM	45989	O1P	CYT	1277	268.492	130.474	-13.421	1.00	51.97	Al6s	ATOM	46042	N4	CYT	1279	256.990	129.310	-19.581	1.00	73.54	Al6s
ATOM	45990	O2P	CYT	1277	266.928	132.350	-14.248	1.00	51.97	Al6s	ATOM	46043	C5	CYT	1279	258.632	127.616	-19.252	1.00	73.54	Al6s
ATOM	45991	O5'	CYT	1277	266.086	130.367	-12.952	1.00	79.98	Al6s	ATOM	46044	C2'	CYT	1279	257.834	122.913	-20.156	1.00	73.26	Al6s
ATOM	45992	C5'	CYT	1277	266.225	129.280	-12.054	1.00	79.98	Al6s	ATOM	46045	O2'	CYT	1279	259.136	122.162	-19.697	1.00	73.26	Al6s
ATOM	45993	C4'	CYT	1277	264.945	128.501	-11.987	1.00	79.98	Al6s	ATOM	46046	C3'	CYT	1279	258.996	120.710	-19.946	1.00	73.26	Al6s
ATOM	45994	O4'	CYT	1277	263.885	129.367	-11.529	1.00	79.98	Al6s	ATOM	46047	O3'	CYT	1279	258.996	120.710	-19.946	1.00	73.26	Al6s
ATOM	45995	C1'	CYT	1277	262.668	128.984	-12.136	1.00	79.98	Al6s	ATOM	46048	P	ADE	1280	258.228	119.695	-20.924	1.00	61.77	Al6s
ATOM	45996	N1	CYT	1277	262.126	130.152	-12.841	1.00	51.97	Al6s	ATOM	46049	O1P	ADE	1280	256.799	120.093	-21.051	1.00	78.43	Al6s
ATOM	45997	C6	CYT	1277	262.951	131.148	-13.275	1.00	51.97	Al6s	ATOM	46050	O2P	ADE	1280	259.043	119.477	-22.149	1.00	78.43	Al6s
ATOM	45998	C2	CYT	1277	260.749	130.230	-13.062	1.00	51.97	Al6s	ATOM	46051	O5'	ADE	1280	258.284	118.351	-20.074	1.00	61.77	Al6s
ATOM	45999	O2	CYT	1277	260.027	129.314	-12.646	1.00	51.97	Al6s	ATOM	46052	C5'	ADE	1280	259.517	117.665	-19.930	1.00	61.77	Al6s
ATOM	46000	N3	CYT	1277	260.244	131.296	-13.719	1.00	51.97	Al6s	ATOM	46053	C4'	ADE	1280	260.025	117.742	-18.505	1.00	61.77	Al6s
ATOM	46001	C4	CYT	1277	261.062	132.260	-14.146	1.00	51.97	Al6s	ATOM	46054	O4'	ADE	1280	260.295	119.096	-18.101	1.00	61.77	Al6s
ATOM	46002	N4	CYT	1277	260.532	133.293	-14.801	1.00	51.97	Al6s	ATOM	46055	C1'	ADE	1280	260.327	119.139	-16.687	1.00	61.77	Al6s
ATOM	46003	C5	CYT	1277	262.466	132.209	-13.924	1.00	51.97	Al6s	ATOM	46056	N9	ADE	1280	259.957	120.482	-16.228	1.00	78.43	Al6s
ATOM	46004	C2'	CYT	1277	262.961	127.783	-13.039	1.00	79.98	Al6s	ATOM	46057	C4	ADE	1280	258.727	121.093	-16.241	1.00	78.43	Al6s
ATOM	46005	O2'	CYT	1277	262.693	126.595	-12.327	1.00	79.98	Al6s	ATOM	46058	N3	ADE	1280	257.557	120.559	-16.618	1.00	78.43	Al6s
ATOM	46006	C3'	CYT	1277	264.451	127.941	-13.301	1.00	79.98	Al6s	ATOM	46059	C2	ADE	1280	256.593	121.471	-16.555	1.00	78.43	Al6s
ATOM	46007	O3'	CYT	1277	265.054	126.668	-13.467	1.00	79.98	Al6s	ATOM	46060	N1	ADE	1280	256.665	122.767	-16.199	1.00	78.43	Al6s
ATOM	46008	P	CYT	1278	265.930	126.365	-14.770	1.00	58.95	Al6s	ATOM	46061	C6	ADE	1280	257.862	123.271	-15.838	1.00	78.43	Al6s
ATOM	46009	O1P	CYT	1278	266.551	125.031	-14.571	1.00	60.12	Al6s	ATOM	46062	N6	ADE	1280	257.945	124.563	-15.525	1.00	78.43	Al6s
ATOM	46010	O2P	CYT	1278	266.785	127.547	-15.035	1.00	60.12	Al6s	ATOM	46063	C5	ADE	1280	258.955	122.404	-15.835	1.00	78.43	Al6s
ATOM	46011	O5'	CYT	1278	264.855	126.273	-15.939	1.00	58.95	Al6s	ATOM	46064	N7	ADE	1280	260.287	122.597	-15.510	1.00	78.43	Al6s
ATOM	46012	C5'	CYT	1278	263.969	125.161	-16.059	1.00	58.95	Al6s	ATOM	46065	C8	ADE	1280	260.837	121.430	-15.744	1.00	78.43	Al6s
ATOM	46013	C4'	CYT	1278	263.066	125.387	-17.238	1.00	58.95	Al6s	ATOM	46066	C2'	ADE	1280	259.628	117.893	-16.137	1.00	61.77	Al6s
ATOM	46014	O4'	CYT	1278	262.435	126.657	-17.027	1.00	58.95	Al6s	ATOM	46067	O2'	ADE	1280	260.606	117.168	-15.431	1.00	61.77	Al6s
ATOM	46015	C1'	CYT	1278	262.349	127.358	-18.235	1.00	58.95	Al6s	ATOM	46068	C3'	ADE	1280	259.128	117.188	-17.416	1.00	61.77	Al6s
ATOM	46016	N1	CYT	1278	262.607	128.767	-17.945	1.00	60.12	Al6s	ATOM	46069	O3'	ADE	1280	259.403	115.788	-17.395	1.00	61.77	Al6s
ATOM	46017	C6	CYT	1278	263.407	129.128	-16.901	1.00	60.12	Al6s	ATOM	46070	P	GUA	1281	258.266	114.741	-16.987	1.00	84.22	Al6s
ATOM	46018	C2	CYT	1278	261.977	129.735	-18.718	1.00	60.12	Al6s	ATOM	46071	O1P	GUA	1281	258.163	113.782	-18.103	1.00	65.70	Al6s
ATOM	46019	O2	CYT	1278	261.294	129.375	-19.687	1.00	60.12	Al6s	ATOM	46072	O2P	GUA	1281	257.069	115.496	-16.556	1.00	65.70	Al6s
ATOM	46020	N3	CYT	1278	262.121	131.038	-18.392	1.00	60.12	Al6s	ATOM	46073	O5'	GUA	1281	258.910	113.993	-15.737	1.00	84.22	Al6s
ATOM	46021	C4	CYT	1278	262.868	131.380	-17.344	1.00	60.12	Al6s	ATOM	46074	C5'	GUA	1281	258.143	113.639	-14.580	1.00	84.22	Al6s
ATOM	46022	N4	CYT	1278	262.948	132.674	-17.032	1.00	60.12	Al6s	ATOM	46075	C4'	GUA	1281	257.815	114.872	-13.769	1.00	84.22	Al6s

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ATOM	46076	O4' GUA	1281	256.527	115.350	-14.214	1.00	84.22	Al6s	ATOM	46129	C2' URI	1283	260.286	126.058	-8.084	1.00	75.51	Al
ATOM	46077	C1' GUA	1281	255.792	115.829	-13.116	1.00	84.22	Al6s	ATOM	46130	O2' URI	1283	259.647	126.931	-7.178	1.00	75.51	Al
ATOM	46078	N9 GUA	1281	254.523	115.109	-13.061	1.00	65.70	Al6s	ATOM	46131	C3' URI	1283	259.676	124.651	-8.025	1.00	75.51	Al
ATOM	46079	C4 GUA	1281	253.289	115.702	-13.057	1.00	65.70	Al6s	ATOM	46132	O3' URI	1283	258.683	124.886	-7.025	1.00	75.51	Al
ATOM	46080	N3 GUA	1281	253.060	117.030	-13.031	1.00	65.70	Al6s	ATOM	46133	P CYT	1284	257.569	123.794	-6.676	1.00	59.03	Al
ATOM	46081	C2 GUA	1281	251.781	117.313	-13.072	1.00	65.70	Al6s	ATOM	46134	O1P CYT	1284	256.699	124.433	-5.638	1.00	52.79	Al
ATOM	46082	N2 GUA	1281	251.391	118.598	-13.045	1.00	65.70	Al6s	ATOM	46135	O2P CYT	1284	258.191	122.466	-6.386	1.00	52.79	Al
ATOM	46083	N1 GUA	1281	250.794	116.361	-13.142	1.00	65.70	Al6s	ATOM	46136	O5' CYT	1284	256.716	123.692	-8.014	1.00	59.03	Al
ATOM	46084	C6 GUA	1281	251.004	114.988	-13.179	1.00	65.70	Al6s	ATOM	46137	C5' CYT	1284	256.331	124.855	-8.726	1.00	59.03	Al
ATOM	46085	O6 GUA	1281	250.038	114.221	-13.274	1.00	65.70	Al6s	ATOM	46138	C4' CYT	1284	255.080	124.573	-9.505	1.00	59.03	Al
ATOM	46086	C5 GUA	1281	252.384	114.671	-13.117	1.00	65.70	Al6s	ATOM	46139	C4' CYT	1284	255.317	123.452	-10.404	1.00	59.03	Al
ATOM	46087	N7 GUA	1281	253.033	113.443	-13.108	1.00	65.70	Al6s	ATOM	46140	C1' CYT	1284	254.149	122.649	-10.490	1.00	52.79	Al
ATOM	46088	C8 GUA	1281	254.302	113.753	-13.061	1.00	65.70	Al6s	ATOM	46141	N1 CYT	1284	255.493	121.287	-10.047	1.00	52.79	Al
ATOM	46089	C2' GUA	1281	256.639	115.791	-11.891	1.00	84.22	Al6s	ATOM	46142	C6 CYT	1284	255.691	121.031	-9.453	1.00	52.79	Al
ATOM	46090	O2' GUA	1281	257.375	117.025	-11.824	1.00	84.22	Al6s	ATOM	46143	C2 CYT	1284	253.588	120.249	-10.275	1.00	52.79	Al
ATOM	46091	C3' GUA	1281	257.669	114.685	-12.262	1.00	84.22	Al6s	ATOM	46144	O2 CYT	1284	252.485	120.513	-10.761	1.00	52.79	Al
ATOM	46092	O3' GUA	1281	258.962	114.867	-11.667	1.00	84.22	Al6s	ATOM	46145	N3 CYT	1284	253.936	118.982	-9.955	1.00	52.79	Al
ATOM	46093	P URI	1282	259.142	115.700	-10.289	1.00	68.16	Al6s	ATOM	46146	C4 CYT	1284	255.121	118.741	-9.405	1.00	52.79	Al
ATOM	46094	O1P URI	1282	260.342	115.117	-9.642	1.00	59.14	Al6s	ATOM	46147	N4 CYT	1284	255.430	117.483	-9.121	1.00	52.79	Al
ATOM	46095	O2P URI	1282	257.879	115.766	-9.522	1.00	59.14	Al6s	ATOM	46148	C5 CYT	1284	256.043	119.783	-9.122	1.00	52.79	Al
ATOM	46096	O5' URI	1282	259.565	117.165	-10.767	1.00	68.16	Al6s	ATOM	46149	C2' CYT	1284	253.072	123.342	-9.657	1.00	59.03	Al
ATOM	46097	C5' URI	1282	260.846	117.381	-11.364	1.00	68.16	Al6s	ATOM	46150	O2' CYT	1284	252.326	124.213	-10.481	1.00	59.03	Al
ATOM	46098	C4' URI	1282	260.995	118.809	-11.849	1.00	68.16	Al6s	ATOM	46151	C3' CYT	1284	253.930	124.089	-8.646	1.00	59.03	Al
ATOM	46099	O4' URI	1282	259.976	119.108	-12.820	1.00	68.16	Al6s	ATOM	46152	O3' CYT	1284	253.255	125.164	-8.012	1.00	59.03	Al
ATOM	46100	C1' URI	1282	259.645	120.476	-12.745	1.00	68.16	Al6s	ATOM	46153	P GUA	1285	252.797	125.000	-6.483	1.00	59.49	Al
ATOM	46101	N1 URI	1282	258.182	120.596	-12.775	1.00	59.14	Al6s	ATOM	46154	O1P GUA	1285	251.705	125.977	-6.258	1.00	66.11	Al
ATOM	46102	C6 URI	1282	257.389	119.478	-12.770	1.00	59.14	Al6s	ATOM	46155	O2P GUA	1285	253.986	124.992	-5.574	1.00	66.11	Al
ATOM	46103	C2 URI	1282	257.633	121.850	-12.864	1.00	59.14	Al6s	ATOM	46156	O5' GUA	1285	252.147	123.554	-6.472	1.00	59.49	Al
ATOM	46104	O2 URI	1282	258.298	122.864	-12.776	1.00	59.14	Al6s	ATOM	46157	C5' GUA	1285	250.968	123.287	-7.213	1.00	59.49	Al
ATOM	46105	N3 URI	1282	256.271	121.869	-13.049	1.00	59.14	Al6s	ATOM	46158	C4' GUA	1285	250.387	121.990	-6.757	1.00	59.49	Al
ATOM	46106	C4 URI	1282	255.430	120.778	-13.118	1.00	59.14	Al6s	ATOM	46159	O1' GUA	1285	251.060	120.878	-7.391	1.00	59.49	Al
ATOM	46107	O4 URI	1282	254.261	120.935	-13.448	1.00	59.14	Al6s	ATOM	46160	C1' GUA	1285	251.249	119.832	-6.451	1.00	59.49	Al
ATOM	46108	C5 URI	1282	256.071	119.525	-12.931	1.00	59.14	Al6s	ATOM	46161	N9 GUA	1285	252.687	119.647	-6.312	1.00	66.11	Al
ATOM	46109	C2' URI	1282	260.417	121.125	-11.592	1.00	68.16	Al6s	ATOM	46162	C3 GUA	1285	253.393	118.470	-6.274	1.00	66.11	Al
ATOM	46110	O2' URI	1282	261.484	121.890	-12.119	1.00	68.16	Al6s	ATOM	46163	N3 GUA	1285	252.877	117.225	-6.336	1.00	66.11	Al
ATOM	46111	C3' URI	1282	260.927	119.917	-10.807	1.00	68.16	Al6s	ATOM	46164	C2 GUA	1285	253.824	116.297	-6.290	1.00	66.11	Al
ATOM	46112	O3' URI	1282	262.273	120.110	-10.350	1.00	68.16	Al6s	ATOM	46165	N2 GUA	1285	253.496	114.996	-6.321	1.00	66.11	Al
ATOM	46113	P URI	1283	262.736	121.510	-9.707	1.00	75.51	Al6s	ATOM	46166	N1 GUA	1285	255.163	116.582	-6.205	1.00	66.11	Al
ATOM	46114	O1P URI	1283	263.451	122.263	-10.766	1.00	71.90	Al6s	ATOM	46167	C6 GUA	1285	256.932	118.028	-6.072	1.00	66.11	Al
ATOM	46115	O2P URI	1283	263.442	121.131	-8.471	1.00	71.90	Al6s	ATOM	46168	O6 GUA	1285	255.704	117.865	-6.143	1.00	66.11	Al
ATOM	46116	O5' URI	1283	261.403	122.304	-9.312	1.00	75.51	Al6s	ATOM	46169	C5 GUA	1285	254.712	118.845	-6.176	1.00	66.11	Al
ATOM	46117	C5' URI	1283	260.920	122.329	-7.959	1.00	75.51	Al6s	ATOM	46170	N7 GUA	1285	254.833	120.220	-6.137	1.00	66.11	Al
ATOM	46118	C4' URI	1283	262.002	124.462	-7.7460	1.00	75.51	Al6s	ATOM	46171	C8 GUA	1285	253.610	120.652	-6.217	1.00	66.11	Al
ATOM	46119	O4' URI	1283	262.813	126.648	-8.123	1.00	71.90	Al6s	ATOM	46172	O2' GUA	1285	250.529	120.262	-5.169	1.00	59.49	Al
ATOM	46120	C1' URI	1283	261.718	125.821	-7.609	1.00	75.51	Al6s	ATOM	46173	O2' GUA	1285	249.205	119.809	-5.250	1.00	59.49	Al
ATOM	46121	N1 URI	1283	262.813	126.648	-8.123	1.00	71.90	Al6s	ATOM	46174	C3' GUA	1285	250.603	121.777	-5.279	1.00	59.49	Al
ATOM	46122	C6 URI	1283	263.763	126.161	-8.989	1.00	71.90	Al6s	ATOM	46175	O3' GUA	1285	249.583	122.491	-4.603	1.00	59.49	Al
ATOM	46123	C2 URI	1283	262.862	127.944	-7.659	1.00	71.90	Al6s	ATOM	46176	P GUA	1286	249.734	122.835	-3.048	1.00	47.56	Al
ATOM	46124	O2 URI	1283	262.026	128.406	-6.898	1.00	71.90	Al6s	ATOM	46177	O1P GUA	1286	248.765	123.913	-2.735	1.00	70.20	Al
ATOM	46125	N3 URI	1283	263.931	128.676	-8.104	1.00	71.90	Al6s	ATOM	46178	O2P GUA	1286	251.160	123.020	-2.720	1.00	70.20	Al
ATOM	46126	C4 URI	1283	264.936	128.247	-8.940	1.00	71.90	Al6s	ATOM	46179	O5' GUA	1286	249.225	121.494	-2.382	1.00	47.56	Al
ATOM	46127	O4 URI	1283	265.869	129.008	-9.195	1.00	71.90	Al6s	ATOM	46180	C5' GUA	1286	249.248	121.318	-0.994	1.00	47.56	Al
ATOM	46128	C5 URI	1283	264.800	126.892	-9.397	1.00	71.90	Al6s	ATOM	46181	C4' GUA	1286	249.363	119.866	-0.713	1.00	47.56	Al

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ATOM	46182	O4	GUA	1286	250.156	119.306	-1.768	1.00	47.56	Al6S	ATOM	46235	O4	URI	1288	254.133	114.894	3.574	1.00	54.97	Al6S
ATOM	46183	C1	GUA	1286	251.198	118.551	-1.208	1.00	47.56	Al6S	ATOM	46236	C5	URI	1288	252.115	113.662	3.483	1.00	54.97	Al6S
ATOM	46184	N9	GUA	1286	252.450	119.218	-1.540	1.00	70.20	Al6S	ATOM	46237	C2	URI	1288	251.622	109.212	4.286	1.00	52.44	Al6S
ATOM	46185	C4	GUA	1286	253.537	118.621	-2.110	1.00	70.20	Al6S	ATOM	46238	O2	URI	1288	251.760	107.828	4.027	1.00	52.44	Al6S
ATOM	46186	N3	GUA	1286	253.647	117.313	-2.410	1.00	70.20	Al6S	ATOM	46239	C3	URI	1288	250.220	109.599	4.776	1.00	52.44	Al6S
ATOM	46187	C2	GUA	1286	254.802	117.036	-2.980	1.00	70.20	Al6S	ATOM	46240	O3	URI	1288	249.668	108.674	5.695	1.00	52.44	Al6S
ATOM	46188	N2	GUA	1286	255.062	115.791	-3.362	1.00	70.20	Al6S	ATOM	46241	P	URI	1289	249.936	108.872	7.265	1.00	65.71	Al6S
ATOM	46189	N1	GUA	1286	255.780	117.967	-3.223	1.00	70.20	Al6S	ATOM	46242	O1P	URI	1289	249.190	107.828	8.017	1.00	66.83	Al6S
ATOM	46190	C6	GUA	1286	255.666	119.318	-2.919	1.00	70.20	Al6S	ATOM	46243	O2P	URI	1289	249.683	110.308	7.551	1.00	66.83	Al6S
ATOM	46191	O6	GUA	1286	256.622	120.068	-3.180	1.00	70.20	Al6S	ATOM	46244	O5	URI	1289	251.499	108.574	7.418	1.00	65.71	Al6S
ATOM	46192	C5	GUA	1286	254.447	119.632	-2.318	1.00	70.20	Al6S	ATOM	46245	C5	URI	1289	252.025	107.273	7.148	1.00	65.71	Al6S
ATOM	46193	N7	GUA	1286	253.945	120.844	-1.869	1.00	70.20	Al6S	ATOM	46246	C4	URI	1289	253.545	107.293	7.139	1.00	65.71	Al6S
ATOM	46194	C8	GUA	1286	252.763	120.548	-1.401	1.00	70.20	Al6S	ATOM	46247	O4	URI	1289	254.023	108.164	6.080	1.00	65.71	Al6S
ATOM	46195	C2	GUA	1286	250.867	118.313	0.269	1.00	47.56	Al6S	ATOM	46248	C1	URI	1289	255.250	108.762	6.467	1.00	65.71	Al6S
ATOM	46196	O2	GUA	1286	250.033	117.185	0.353	1.00	47.56	Al6S	ATOM	46249	N1	URI	1289	255.042	110.212	6.545	1.00	66.83	Al6S
ATOM	46197	C3	GUA	1286	250.021	119.522	0.610	1.00	47.56	Al6S	ATOM	46250	C6	URI	1289	253.792	110.729	6.744	1.00	66.83	Al6S
ATOM	46198	O3	GUA	1286	248.953	119.147	1.474	1.00	47.56	Al6S	ATOM	46251	C2	URI	1289	257.278	110.613	6.405	1.00	66.83	Al6S
ATOM	46199	P	ADE	1287	249.211	118.155	2.717	1.00	49.66	Al6S	ATOM	46252	O2	URI	1289	255.867	112.382	6.237	1.00	66.83	Al6S
ATOM	46200	O1P	ADE	1287	248.153	118.542	3.694	1.00	47.84	Al6S	ATOM	46253	N3	URI	1289	254.630	112.962	6.661	1.00	66.83	Al6S
ATOM	46201	O2P	ADE	1287	250.638	118.187	3.130	1.00	47.84	Al6S	ATOM	46254	C4	URI	1289	254.527	114.192	6.684	1.00	66.83	Al6S
ATOM	46202	O5	ADE	1287	248.881	116.685	2.190	1.00	49.66	Al6S	ATOM	46255	O4	URI	1289	255.525	112.035	7.804	1.00	66.83	Al6S
ATOM	46203	C5	ADE	1287	247.521	116.316	1.841	1.00	49.66	Al6S	ATOM	46256	C5	URI	1289	253.625	108.164	7.609	1.00	65.71	Al6S
ATOM	46204	C4	ADE	1287	247.521	114.923	1.261	1.00	49.66	Al6S	ATOM	46257	C2	URI	1289	256.407	107.008	8.376	1.00	65.71	Al6S
ATOM	46205	O4	ADE	1287	248.347	114.862	0.064	1.00	49.66	Al6S	ATOM	46258	O2	URI	1289	254.252	107.822	9.388	1.00	65.71	Al6S
ATOM	46206	C1	ADE	1287	249.030	113.616	0.014	1.00	49.66	Al6S	ATOM	46259	C3	URI	1289	254.368	106.832	10.852	1.00	63.31	Al6S
ATOM	46207	N9	ADE	1287	250.464	113.889	0.108	1.00	47.84	Al6S	ATOM	46260	O3	URI	1289	254.755	106.050	11.693	1.00	63.31	Al6S
ATOM	46208	C4	ADE	1287	251.495	112.986	0.058	1.00	47.84	Al6S	ATOM	46261	P	GUA	1290	254.868	107.249	10.645	1.00	63.31	Al6S
ATOM	46209	N3	ADE	1287	251.413	111.657	-0.105	1.00	47.84	Al6S	ATOM	46262	O1P	GUA	1290	254.165	108.506	11.262	1.00	63.31	Al6S
ATOM	46210	C2	ADE	1287	252.623	111.117	-0.111	1.00	47.84	Al6S	ATOM	46263	O2P	GUA	1290	257.378	107.586	10.443	1.00	63.31	Al6S
ATOM	46211	N1	ADE	1287	253.816	111.705	0.026	1.00	47.84	Al6S	ATOM	46264	O5	GUA	1290	258.781	107.148	10.515	1.00	63.31	Al6S
ATOM	46212	C6	ADE	1287	253.859	113.039	0.199	1.00	47.84	Al6S	ATOM	46265	C5	GUA	1290	259.006	108.027	9.382	1.00	63.31	Al6S
ATOM	46213	N6	ADE	1287	252.647	113.731	0.208	1.00	47.84	Al6S	ATOM	46266	C4	GUA	1290	259.874	109.080	9.767	1.00	63.31	Al6S
ATOM	46214	C5	ADE	1287	251.048	115.109	0.273	1.00	47.84	Al6S	ATOM	46267	O4	GUA	1290	260.948	111.897	9.864	1.00	63.31	Al6S
ATOM	46215	N7	ADE	1287	248.515	112.766	1.179	1.00	49.66	Al6S	ATOM	46268	C1	GUA	1290	261.141	113.207	9.909	1.00	63.31	Al6S
ATOM	46216	C8	ADE	1287	247.467	111.912	0.751	1.00	49.66	Al6S	ATOM	46269	N9	GUA	1290	262.383	113.698	9.978	1.00	63.31	Al6S
ATOM	46217	C2	ADE	1287	248.084	113.849	2.169	1.00	49.66	Al6S	ATOM	46270	C4	GUA	1290	260.130	111.834	9.832	1.00	63.31	Al6S
ATOM	46218	O2	ADE	1287	247.089	113.403	3.075	1.00	49.66	Al6S	ATOM	46271	N3	GUA	1290	257.954	114.747	9.809	1.00	63.31	Al6S
ATOM	46219	C3	ADE	1287	247.518	112.897	4.529	1.00	52.44	Al6S	ATOM	46272	C2	GUA	1290	258.551	112.427	9.798	1.00	63.31	Al6S
ATOM	46220	O3	ADE	1288	246.335	112.253	5.142	1.00	54.97	Al6S	ATOM	46273	N1	GUA	1290	259.445	107.295	11.714	1.00	83.31	Al6S
ATOM	46221	P	URI	1288	248.192	114.011	5.231	1.00	54.97	Al6S	ATOM	46274	C2	GUA	1290	257.365	111.702	9.749	1.00	63.31	Al6S
ATOM	46222	O1P	URI	1288	248.600	111.774	4.229	1.00	52.44	Al6S	ATOM	46275	C6	GUA	1290	260.316	108.793	11.196	1.00	83.31	Al6S
ATOM	46223	O2P	URI	1288	248.235	110.562	3.586	1.00	52.44	Al6S	ATOM	46276	O6	GUA	1290	261.498	108.021	11.189	1.00	83.31	Al6S
ATOM	46224	O5	URI	1288	249.437	109.667	3.487	1.00	52.44	Al6S	ATOM	46277	C3	GUA	1290	259.170	107.948	14.335	1.00	84.25	Al6S
ATOM	46225	C5	URI	1288	250.377	110.222	2.530	1.00	52.44	Al6S	ATOM	46278	N7	GUA	1290	257.761	108.417	14.393	1.00	69.91	Al6S
ATOM	46226	C4	URI	1288	251.710	110.016	2.986	1.00	52.44	Al6S	ATOM	46279	C8	GUA	1290	260.088	109.252	14.378	1.00	84.25	Al6S
ATOM	46227	O4	URI	1288	252.340	111.334	3.157	1.00	54.97	Al6S	ATOM	46280	C2	GUA	1290	257.954	114.747	9.809	1.00	63.31	Al6S
ATOM	46228	C1	URI	1288	251.583	112.454	3.329	1.00	54.97	Al6S	ATOM	46281	O2	GUA	1290	258.551	112.427	9.798	1.00	63.31	Al6S
ATOM	46229	N1	URI	1288	253.719	111.408	3.137	1.00	54.97	Al6S	ATOM	46282	C3	GUA	1290	259.445	107.295	11.714	1.00	83.31	Al6S
ATOM	46230	C6	URI	1288	254.431	110.435	2.984	1.00	54.97	Al6S	ATOM	46283	O3	GUA	1290	257.761	108.417	14.393	1.00	69.91	Al6S
ATOM	46231	C2	URI	1288	253.531	113.826	3.473	1.00	54.97	Al6S	ATOM	46284	P	GUA	1291	260.088	109.252	14.378	1.00	84.25	Al6S
ATOM	46232	O2	URI	1288						Al6S	ATOM	46285	O1P	GUA	1291						Al6S
ATOM	46233	N3	URI	1288						Al6S	ATOM	46286	O2P	GUA	1291						Al6S
ATOM	46234	C4	URI	1288						Al6S	ATOM	46287	O5	GUA	1291						Al6S

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ATOM	46288	C5' GUA	1291	261.504	109.151	14.322	1.00	84.25	Al6S	ATOM	46341	C2' GUA	1293	255.154	121.378	17.707	1.00	71.88	Al
ATOM	46289	C4' GUA	1291	262.141	110.525	14.375	1.00	84.25	Al6S	ATOM	46342	N2' GUA	1293	254.659	122.588	17.406	1.00	71.88	Al
ATOM	46290	O4' GUA	1291	261.778	111.301	13.198	1.00	84.25	Al6S	ATOM	46343	N1' GUA	1293	254.329	120.300	17.482	1.00	71.88	Al
ATOM	46291	C1' GUA	1291	261.878	112.687	13.505	1.00	84.25	Al6S	ATOM	46344	C6' GUA	1293	254.659	118.973	17.741	1.00	71.88	Al
ATOM	46292	N9' GUA	1291	260.605	113.345	13.221	1.00	69.91	Al6S	ATOM	46345	O6' GUA	1293	255.844	118.072	17.491	1.00	71.88	Al
ATOM	46293	C4' GUA	1291	260.416	114.697	13.066	1.00	69.91	Al6S	ATOM	46346	C5' GUA	1293	255.971	118.860	18.282	1.00	71.88	Al
ATOM	46294	N3' GUA	1291	261.379	115.643	13.127	1.00	69.91	Al6S	ATOM	46347	N7' GUA	1293	256.690	117.742	18.686	1.00	71.88	Al
ATOM	46295	C2' GUA	1291	260.885	116.861	12.962	1.00	69.91	Al6S	ATOM	46348	C8' GUA	1293	257.833	118.225	19.092	1.00	71.88	Al
ATOM	46296	N2' GUA	1291	261.698	117.920	13.008	1.00	69.91	Al6S	ATOM	46349	C2' GUA	1293	258.750	121.226	20.638	1.00	86.38	Al
ATOM	46297	N1' GUA	1291	259.555	117.127	12.747	1.00	69.91	Al6S	ATOM	46350	O2' GUA	1293	259.254	122.536	20.492	1.00	86.38	Al
ATOM	46298	C6' GUA	1291	258.549	116.170	12.688	1.00	69.91	Al6S	ATOM	46351	C3' GUA	1293	259.570	120.411	21.631	1.00	86.38	Al
ATOM	46299	O6' GUA	1291	257.380	116.520	12.520	1.00	69.91	Al6S	ATOM	46352	O3' GUA	1293	259.909	121.221	22.749	1.00	86.38	Al
ATOM	46300	C5' GUA	1291	259.063	114.859	12.859	1.00	69.91	Al6S	ATOM	46353	P' URI	1294	258.804	121.521	23.879	1.00	85.17	Al
ATOM	46301	N7' GUA	1291	258.416	113.633	12.864	1.00	69.91	Al6S	ATOM	46354	O1P URI	1294	259.468	122.196	25.020	1.00	67.80	Al
ATOM	46302	C8' GUA	1291	259.369	112.764	13.079	1.00	69.91	Al6S	ATOM	46355	O2P URI	1294	258.054	120.260	24.118	1.00	67.80	Al
ATOM	46303	C2' GUA	1291	262.244	112.788	14.987	1.00	84.25	Al6S	ATOM	46356	O5' URI	1294	257.845	122.593	23.196	1.00	85.17	Al
ATOM	46304	O2' GUA	1291	263.647	112.906	15.124	1.00	84.25	Al6S	ATOM	46357	C5' URI	1294	258.341	123.873	22.832	1.00	85.17	Al
ATOM	46305	C3' GUA	1291	261.735	111.451	15.509	1.00	84.25	Al6S	ATOM	46358	C4' URI	1294	257.235	124.724	22.255	1.00	85.17	Al
ATOM	46306	O3' GUA	1291	262.364	111.130	16.743	1.00	84.25	Al6S	ATOM	46359	O4' URI	1294	256.736	124.118	21.037	1.00	85.17	Al
ATOM	46307	P' GUA	1292	261.785	111.751	18.114	1.00	77.18	Al6S	ATOM	46360	C1' URI	1294	255.338	124.337	20.931	1.00	85.17	Al
ATOM	46308	O1P GUA	1292	262.650	111.246	19.220	1.00	64.90	Al6S	ATOM	46361	N1' URI	1294	254.674	123.030	20.960	1.00	67.80	Al
ATOM	46309	O2P GUA	1292	260.313	111.516	18.168	1.00	64.90	Al6S	ATOM	46362	C6' URI	1294	255.367	122.981	21.291	1.00	67.80	Al
ATOM	46310	O5' GUA	1292	262.032	113.322	17.974	1.00	77.18	Al6S	ATOM	46363	C2' URI	1294	253.337	122.981	20.636	1.00	67.80	Al
ATOM	46311	C5' GUA	1292	263.338	113.868	18.122	1.00	77.18	Al6S	ATOM	46364	O2' URI	1294	252.685	123.979	20.365	1.00	67.80	Al
ATOM	46312	C4' GUA	1292	263.295	115.375	18.028	1.00	77.18	Al6S	ATOM	46365	N3' URI	1294	252.785	121.723	20.652	1.00	67.80	Al
ATOM	46313	O4' GUA	1292	262.742	115.749	16.739	1.00	77.18	Al6S	ATOM	46366	C4' URI	1294	253.424	120.939	20.972	1.00	67.80	Al
ATOM	46314	C1' GUA	1292	262.026	116.968	16.867	1.00	77.18	Al6S	ATOM	46367	O4' URI	1294	252.779	119.493	21.021	1.00	67.80	Al
ATOM	46315	N9' GUA	1292	260.636	116.742	16.482	1.00	64.90	Al6S	ATOM	46368	C5' URI	1294	254.806	120.685	21.307	1.00	67.80	Al
ATOM	46316	C4' GUA	1292	259.735	117.711	16.119	1.00	64.90	Al6S	ATOM	46369	C2' URI	1294	254.933	125.232	22.100	1.00	85.17	Al
ATOM	46317	N3' GUA	1292	259.984	119.036	16.051	1.00	64.90	Al6S	ATOM	46370	O2' URI	1294	254.991	126.590	21.708	1.00	85.17	Al
ATOM	46319	N2' GUA	1292	258.915	119.720	15.681	1.00	64.90	Al6S	ATOM	46371	C3' URI	1294	256.000	124.870	23.122	1.00	85.17	Al
ATOM	46320	N1' GUA	1292	257.702	119.151	15.384	1.00	64.90	Al6S	ATOM	46372	O3' URI	1294	256.175	125.909	24.065	1.00	85.17	Al
ATOM	46321	C6' GUA	1292	257.424	117.790	15.433	1.00	64.90	Al6S	ATOM	46373	P' CYT	1295	255.361	125.868	25.441	1.00	93.17	Al
ATOM	46322	O6' GUA	1292	256.299	117.381	15.121	1.00	64.90	Al6S	ATOM	46374	O1P CYT	1295	255.749	127.109	26.164	1.00	57.16	Al
ATOM	46323	C5' GUA	1292	258.560	117.040	15.851	1.00	64.90	Al6S	ATOM	46375	O2P CYT	1295	255.563	124.534	26.080	1.00	57.16	Al
ATOM	46324	N7' GUA	1292	258.720	115.673	16.045	1.00	64.90	Al6S	ATOM	46376	O5' CYT	1295	253.839	126.011	24.994	1.00	93.17	Al
ATOM	46325	C8' GUA	1292	259.965	115.543	16.415	1.00	64.90	Al6S	ATOM	46377	C5' CYT	1295	253.332	127.264	24.556	1.00	93.17	Al
ATOM	46326	C2' GUA	1292	262.152	117.420	18.323	1.00	77.18	Al6S	ATOM	46378	C4' CYT	1295	251.865	127.151	24.217	1.00	93.17	Al
ATOM	46327	O2' GUA	1292	263.230	118.322	18.467	1.00	77.18	Al6S	ATOM	46379	O4' CYT	1295	251.688	126.273	23.069	1.00	93.17	Al
ATOM	46328	C3' GUA	1292	262.400	116.095	19.024	1.00	77.18	Al6S	ATOM	46380	C1' CYT	1295	250.425	125.631	23.157	1.00	93.17	Al
ATOM	46329	O3' GUA	1292	263.049	116.321	20.263	1.00	77.18	Al6S	ATOM	46381	N1' CYT	1295	250.638	124.177	23.213	1.00	57.16	Al
ATOM	46330	P' GUA	1293	262.168	116.516	21.594	1.00	86.38	Al6S	ATOM	46382	C6' CYT	1295	251.823	123.656	23.644	1.00	57.16	Al
ATOM	46331	O1P GUA	1293	263.109	116.963	22.653	1.00	86.38	Al6S	ATOM	46383	C2' CYT	1295	249.593	123.827	22.872	1.00	57.16	Al
ATOM	46332	O2P GUA	1293	261.354	115.285	21.803	1.00	71.88	Al6S	ATOM	46384	O2' CYT	1295	248.528	123.827	22.436	1.00	57.16	Al
ATOM	46333	O5' GUA	1293	261.222	117.762	21.278	1.00	86.38	Al6S	ATOM	46385	N3' CYT	1295	249.766	121.985	22.894	1.00	57.16	Al
ATOM	46334	C5' GUA	1293	261.783	119.064	21.259	1.00	86.38	Al6S	ATOM	46386	C4' CYT	1295	250.922	121.487	23.328	1.00	57.16	Al
ATOM	46335	C4' GUA	1293	260.787	120.099	20.787	1.00	86.38	Al6S	ATOM	46387	N4' CYT	1295	251.045	120.163	23.392	1.00	57.16	Al
ATOM	46336	O4' GUA	1293	260.190	119.711	19.526	1.00	86.38	Al6S	ATOM	46388	C5' CYT	1295	252.006	122.328	23.719	1.00	93.17	Al
ATOM	46337	C1' GUA	1293	259.912	120.474	19.334	1.00	86.38	Al6S	ATOM	46389	C2' CYT	1295	249.756	126.154	24.428	1.00	93.17	Al
ATOM	46338	N9' GUA	1293	257.907	119.593	18.980	1.00	71.88	Al6S	ATOM	46390	O2' CYT	1295	249.001	127.303	24.116	1.00	93.17	Al
ATOM	46339	C4' GUA	1293	256.712	120.005	18.460	1.00	71.88	Al6S	ATOM	46391	C3' CYT	1295	250.968	126.520	25.266	1.00	93.17	Al
ATOM	46340	N3' GUA	1293	256.373	121.280	18.195	1.00	71.88	Al6S	ATOM	46392	O3' CYT	1296	250.612	127.425	26.301	1.00	93.17	Al
										ATOM	46393	P' URI	1296	249.894	126.862	27.627	1.00	75.96	Al

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ATOM	46394	O1P	URI	1296	249.670	128.028	28.529	1.00	61.60	Al6s	ATOM	46447	O2	CYT	1298	242.727	114.571	34.890	1.00	83.42	Al6s
ATOM	46395	O2P	URI	1296	250.625	125.666	28.132	1.00	61.60	Al6s	ATOM	46448	N3	CYT	1298	241.044	114.921	33.432	1.00	83.42	Al6s
ATOM	46396	O5	URI	1296	248.476	126.361	27.099	1.00	75.96	Al6s	ATOM	46449	C4	CYT	1298	240.367	115.791	32.678	1.00	83.42	Al6s
ATOM	46397	C5	URI	1296	247.482	127.292	26.670	1.00	75.96	Al6s	ATOM	46450	N4	CYT	1298	239.352	115.322	31.943	1.00	83.42	Al6s
ATOM	46398	C4	URI	1296	246.214	126.565	26.302	1.00	75.96	Al6s	ATOM	46451	C5	CYT	1298	240.699	117.177	32.644	1.00	83.42	Al6s
ATOM	46399	O4	URI	1296	246.498	125.661	25.213	1.00	75.96	Al6s	ATOM	46452	C2	CYT	1298	244.898	116.995	34.318	1.00	73.90	Al6s
ATOM	46400	C1	URI	1296	245.647	124.537	25.301	1.00	75.96	Al6s	ATOM	46453	O2	CYT	1298	245.855	116.570	35.267	1.00	73.90	Al6s
ATOM	46401	N1	URI	1296	246.479	123.332	25.293	1.00	61.60	Al6s	ATOM	46454	C3	CYT	1298	245.141	118.417	33.824	1.00	73.90	Al6s
ATOM	46402	C6	URI	1296	247.797	123.367	25.658	1.00	61.60	Al6s	ATOM	46455	O3	CYT	1298	246.522	118.676	33.620	1.00	73.90	Al6s
ATOM	46403	C2	URI	1296	245.879	122.157	24.902	1.00	61.60	Al6s	ATOM	46456	P	ADP	1299	247.043	119.022	32.143	1.00	61.56	Al6s
ATOM	46404	O2	URI	1296	244.713	122.102	24.563	1.00	61.60	Al6s	ATOM	46457	O1P	ADP	1299	248.490	119.319	32.203	1.00	61.56	Al6s
ATOM	46405	N3	URI	1296	246.692	121.051	24.920	1.00	61.60	Al6s	ATOM	46458	O2P	ADP	1299	246.886	117.644	31.362	1.00	61.56	Al6s
ATOM	46406	C4	URI	1296	248.020	121.011	25.280	1.00	61.60	Al6s	ATOM	46459	O5	ADP	1299	247.502	116.462	31.862	1.00	61.56	Al6s
ATOM	46407	O4	URI	1296	248.618	119.932	25.278	1.00	61.60	Al6s	ATOM	46460	C5	ADP	1299	246.790	115.237	31.342	1.00	61.56	Al6s
ATOM	46408	C5	URI	1296	244.794	124.691	26.558	1.00	75.96	Al6s	ATOM	46461	O4	ADP	1299	244.604	114.820	30.616	1.00	61.56	Al6s
ATOM	46409	C2	URI	1296	243.534	125.227	26.204	1.00	75.96	Al6s	ATOM	46462	O4	ADP	1299	245.386	115.338	31.676	1.00	61.56	Al6s
ATOM	46410	O2	URI	1296	245.633	125.664	27.377	1.00	75.96	Al6s	ATOM	46463	C1	ADP	1299	242.513	115.717	29.536	1.00	61.56	Al6s
ATOM	46411	C3	URI	1296	244.809	126.438	28.241	1.00	75.96	Al6s	ATOM	46464	N9	ADP	1299	241.923	114.553	29.226	1.00	61.56	Al6s
ATOM	46412	O3	URI	1296	244.918	126.259	29.836	1.00	69.00	Al6s	ATOM	46465	C4	ADP	1299	240.736	114.768	28.670	1.00	61.56	Al6s
ATOM	46413	P	GUU	1297	244.055	127.326	30.393	1.00	69.00	Al6s	ATOM	46466	N3	ADP	1299	240.118	115.927	28.410	1.00	61.56	Al6s
ATOM	46414	O1P	GUU	1297	246.347	126.184	30.232	1.00	67.23	Al6s	ATOM	46467	C2	ADP	1299	240.742	117.080	28.737	1.00	61.56	Al6s
ATOM	46415	O2P	GUU	1297	242.852	124.649	29.991	1.00	69.00	Al6s	ATOM	46468	N6	ADP	1299	240.122	118.237	28.486	1.00	61.56	Al6s
ATOM	46416	O5	GUU	1297	242.567	123.202	29.710	1.00	69.00	Al6s	ATOM	46469	C6	ADP	1299	242.011	116.988	29.328	1.00	61.56	Al6s
ATOM	46417	C5	GUU	1297	243.293	122.819	28.519	1.00	69.00	Al6s	ATOM	46470	N6	ADP	1299	242.910	116.988	29.328	1.00	61.56	Al6s
ATOM	46418	C4	GUU	1297	243.712	121.472	28.519	1.00	69.00	Al6s	ATOM	46471	C5	ADP	1299	242.011	116.988	29.328	1.00	61.56	Al6s
ATOM	46419	O4	GUU	1297	243.293	122.819	28.519	1.00	69.00	Al6s	ATOM	46472	N7	ADP	1299	242.908	117.951	29.772	1.00	61.56	Al6s
ATOM	46420	C1	GUU	1297	243.712	121.472	28.519	1.00	69.00	Al6s	ATOM	46473	C8	ADP	1299	243.910	117.251	30.239	1.00	61.56	Al6s
ATOM	46421	N9	GUU	1297	245.166	121.440	28.573	1.00	67.23	Al6s	ATOM	46474	O2	ADP	1299	245.557	117.251	29.569	1.00	61.56	Al6s
ATOM	46422	C4	GUU	1297	245.936	120.341	28.304	1.00	67.23	Al6s	ATOM	46475	O2	ADP	1299	245.740	112.858	29.808	1.00	61.56	Al6s
ATOM	46423	N3	GUU	1297	246.456	118.247	27.817	1.00	67.23	Al6s	ATOM	46476	C3	ADP	1299	246.826	115.041	29.834	1.00	61.56	Al6s
ATOM	46424	C2	GUU	1297	247.782	118.554	28.007	1.00	67.23	Al6s	ATOM	46477	O3	ADP	1299	247.966	114.266	29.503	1.00	61.56	Al6s
ATOM	46425	N2	GUU	1297	247.232	120.750	28.497	1.00	67.23	Al6s	ATOM	46478	P	ADP	1300	248.787	114.593	28.174	1.00	85.74	Al6s
ATOM	46426	N1	GUU	1297	246.031	122.469	28.836	1.00	67.23	Al6s	ATOM	46479	O1P	ADP	1300	249.024	116.053	28.110	1.00	85.74	Al6s
ATOM	46427	C6	GUU	1297	243.023	120.947	29.978	1.00	67.23	Al6s	ATOM	46480	O2P	ADP	1300	247.024	116.053	28.150	1.00	56.12	Al6s
ATOM	46428	O6	GUU	1297	242.016	120.233	29.828	1.00	67.23	Al6s	ATOM	46481	O5	ADP	1300	247.793	114.198	27.000	1.00	85.74	Al6s
ATOM	46429	C5	GUU	1297	243.078	122.242	30.764	1.00	67.23	Al6s	ATOM	46482	C5	ADP	1300	248.278	113.947	25.681	1.00	85.74	Al6s
ATOM	46430	N7	GUU	1297	242.134	122.115	31.813	1.00	67.23	Al6s	ATOM	46483	O4	ADP	1300	247.124	113.932	24.710	1.00	85.74	Al6s
ATOM	46431	C8	GUU	1297	243.616	123.310	33.427	1.00	83.42	Al6s	ATOM	46484	O4	ADP	1300	246.385	115.151	24.878	1.00	85.74	Al6s
ATOM	46432	C2	GUU	1297	241.410	122.229	34.191	1.00	83.42	Al6s	ATOM	46485	C1	ADP	1300	245.620	115.355	23.726	1.00	85.74	Al6s
ATOM	46433	O2	GUU	1297	243.380	120.815	33.597	1.00	69.00	Al6s	ATOM	46486	N9	ADP	1300	244.356	116.775	23.577	1.00	56.12	Al6s
ATOM	46434	C3	GUU	1297	244.265	120.633	34.700	1.00	69.00	Al6s	ATOM	46487	C4	ADP	1300	244.198	117.297	23.061	1.00	56.12	Al6s
ATOM	46435	O3	GUU	1297	243.587	118.522	35.297	1.00	73.90	Al6s	ATOM	46488	N3	ADP	1300	243.146	116.614	22.578	1.00	56.12	Al6s
ATOM	46436	P	CYT	1298	242.628	122.119	33.339	1.00	73.90	Al6s	ATOM	46489	C2	ADP	1300	242.208	117.451	22.154	1.00	56.12	Al6s
ATOM	46437	O1P	CYT	1298	243.616	123.310	33.427	1.00	83.42	Al6s	ATOM	46490	N1	ADP	1300	243.203	118.789	22.159	1.00	56.12	Al6s
ATOM	46438	O2P	CYT	1298	241.410	122.229	34.191	1.00	83.42	Al6s	ATOM	46491	C6	ADP	1300	243.277	119.439	22.653	1.00	56.12	Al6s
ATOM	46439	O5	CYT	1298	243.380	120.815	33.597	1.00	73.90	Al6s	ATOM	46492	N6	ADP	1300	243.277	120.773	22.645	1.00	56.12	Al6s
ATOM	46440	C5	CYT	1298	244.265	120.633	34.700	1.00	73.90	Al6s	ATOM	46493	C5	ADP	1300	244.334	118.669	23.139	1.00	56.12	Al6s
ATOM	46441	C4	CYT	1298	244.582	119.235	34.969	1.00	73.90	Al6s	ATOM	46494	N7	ADP	1300	245.557	119.009	23.695	1.00	56.12	Al6s
ATOM	46442	O4	CYT	1298	243.367	118.522	35.297	1.00	73.90	Al6s	ATOM	46495	C8	ADP	1300	246.128	117.848	23.930	1.00	56.12	Al6s
ATOM	46443	C1	CYT	1298	243.540	117.145	35.006	1.00	73.90	Al6s	ATOM	46496	C2	ADP	1300	246.252	114.588	22.562	1.00	85.74	Al6s
ATOM	46444	N1	CYT	1298	242.418	116.639	34.175	1.00	83.42	Al6s	ATOM	46497	O2	ADP	1300	245.276	113.704	22.032	1.00	85.74	Al6s
ATOM	46445	C6	CYT	1298	241.721	117.584	33.403	1.00	83.42	Al6s	ATOM	46498	C3	ADP	1300	247.457	113.892	23.223	1.00	85.74	Al6s
ATOM	46446	C2	CYT	1298	242.075	115.348	34.187	1.00	83.42	Al6s	ATOM	46499	O3	ADP	1300	247.493	112.537	22.764	1.00	85.74	Al6s

ATOM	46500	P	CYT	1301	248.553	111.494	23.380	1.00	76.90	Al6s	ATOM	46553	C4	CYT	1303	239.024	109.426	22.393	1.00	85.68	Al
ATOM	46501	O1P	CYT	1301	248.307	111.382	24.844	1.00	71.81	Al6s	ATOM	46554	N4	CYT	1303	238.355	108.853	23.396	1.00	85.68	Al
ATOM	46502	O2P	CYT	1301	249.909	111.849	22.887	1.00	71.81	Al6s	ATOM	46555	C5	CYT	1303	239.092	108.787	21.132	1.00	85.68	Al
ATOM	46503	O5	CYT	1301	248.130	110.097	22.737	1.00	76.90	Al6s	ATOM	46556	C2	CYT	1303	242.307	111.850	19.188	1.00	68.99	Al
ATOM	46504	C5	CYT	1301	249.073	109.293	22.034	1.00	76.90	Al6s	ATOM	46557	O2	CYT	1303	242.418	113.191	19.644	1.00	68.99	Al
ATOM	46505	C4	CYT	1301	248.470	107.949	21.690	1.00	76.90	Al6s	ATOM	46558	C3	CYT	1303	242.679	111.585	17.708	1.00	68.99	Al
ATOM	46506	O4	CYT	1301	248.208	107.209	22.910	1.00	76.90	Al6s	ATOM	46559	C3	CYT	1303	242.972	112.778	16.975	1.00	68.99	Al
ATOM	46507	C1	CYT	1301	247.058	106.393	22.737	1.00	76.90	Al6s	ATOM	46560	P	GUA	1304	244.445	113.403	16.948	1.00	66.01	Al
ATOM	46508	N1	CYT	1301	246.043	106.813	23.710	1.00	71.81	Al6s	ATOM	46561	O1P	GUA	1304	244.999	113.187	15.584	1.00	75.46	Al
ATOM	46509	C6	CYT	1301	246.109	108.042	24.303	1.00	71.81	Al6s	ATOM	46562	O2P	GUA	1304	245.196	112.904	18.132	1.00	75.46	Al
ATOM	46510	C2	CYT	1301	245.003	105.931	24.020	1.00	71.81	Al6s	ATOM	46563	O5	GUA	1304	244.156	111.965	17.116	1.00	66.01	Al
ATOM	46511	O2	CYT	1301	244.979	104.813	23.479	1.00	71.81	Al6s	ATOM	46564	C5	GUA	1304	242.828	115.465	17.015	1.00	66.01	Al
ATOM	46512	N3	CYT	1301	244.054	106.317	24.905	1.00	71.81	Al6s	ATOM	46565	C4	GUA	1304	242.761	116.915	17.440	1.00	66.01	Al
ATOM	46513	C4	CYT	1301	244.128	107.522	25.477	1.00	71.81	Al6s	ATOM	46566	O1	GUA	1304	243.087	117.051	18.848	1.00	66.01	Al
ATOM	46514	N4	CYT	1301	243.172	107.863	26.339	1.00	71.81	Al6s	ATOM	46567	C1	GUA	1304	243.709	118.312	19.074	1.00	66.01	Al
ATOM	46515	C5	CYT	1301	245.183	108.432	25.186	1.00	71.81	Al6s	ATOM	46568	N9	GUA	1304	245.028	118.073	19.659	1.00	75.46	Al
ATOM	46516	C2	CYT	1301	246.591	106.577	21.297	1.00	76.90	Al6s	ATOM	46569	C4	GUA	1304	245.870	119.009	20.221	1.00	75.46	Al
ATOM	46517	O2	CYT	1301	247.181	105.580	20.489	1.00	76.90	Al6s	ATOM	46570	N3	GUA	1304	245.632	120.333	20.329	1.00	75.46	Al
ATOM	46518	C3	CYT	1301	247.116	107.973	21.002	1.00	76.90	Al6s	ATOM	46571	C2	GUA	1304	246.627	120.963	20.929	1.00	75.46	Al
ATOM	46519	O3	CYT	1301	247.233	108.202	19.610	1.00	76.90	Al6s	ATOM	46572	N2	GUA	1304	246.558	122.278	21.126	1.00	75.46	Al
ATOM	46520	P	CYT	1302	246.041	108.942	18.833	1.00	69.51	Al6s	ATOM	46573	N1	GUA	1304	247.765	120.347	21.383	1.00	75.46	Al
ATOM	46521	O1P	CYT	1302	246.428	108.983	17.398	1.00	61.49	Al6s	ATOM	46574	C6	GUA	1304	248.033	118.531	21.282	1.00	75.46	Al
ATOM	46522	O2P	CYT	1302	245.691	110.203	19.540	1.00	61.49	Al6s	ATOM	46575	C5	GUA	1304	249.097	118.587	21.721	1.00	75.46	Al
ATOM	46523	O5	CYT	1302	244.819	107.943	18.980	1.00	69.51	Al6s	ATOM	46576	C6	GUA	1304	246.973	118.296	20.646	1.00	75.46	Al
ATOM	46524	C5	CYT	1302	244.829	106.704	18.300	1.00	69.51	Al6s	ATOM	46577	N7	GUA	1304	246.831	116.947	20.355	1.00	75.46	Al
ATOM	46525	C4	CYT	1302	243.634	105.891	18.704	1.00	69.51	Al6s	ATOM	46578	C8	GUA	1304	245.670	119.862	19.768	1.00	75.46	Al
ATOM	46526	O4	CYT	1302	243.687	105.677	20.138	1.00	69.51	Al6s	ATOM	46579	C2	GUA	1304	243.741	119.041	17.731	1.00	66.01	Al
ATOM	46527	C1	CYT	1302	242.372	105.613	20.653	1.00	69.51	Al6s	ATOM	46580	O2	GUA	1304	242.589	119.849	17.645	1.00	66.01	Al
ATOM	46528	N1	CYT	1302	242.228	106.645	21.688	1.00	61.49	Al6s	ATOM	46581	C3	GUA	1304	243.717	117.870	16.753	1.00	66.01	Al
ATOM	46529	C6	CYT	1302	242.713	107.908	21.498	1.00	61.49	Al6s	ATOM	46582	O3	GUA	1304	243.199	118.232	15.485	1.00	66.01	Al
ATOM	46530	C2	CYT	1302	241.567	106.314	22.874	1.00	61.49	Al6s	ATOM	46583	P	ADE	1305	244.156	118.211	14.197	1.00	61.86	Al
ATOM	46531	O2	CYT	1302	241.166	105.149	23.030	1.00	61.49	Al6s	ATOM	46584	O1P	ADE	1305	243.292	118.066	12.997	1.00	62.85	Al
ATOM	46532	N3	CYT	1302	241.389	107.264	23.821	1.00	61.49	Al6s	ATOM	46585	O2P	ADE	1305	245.270	117.249	14.418	1.00	62.85	Al
ATOM	46533	C4	CYT	1302	241.852	108.496	23.624	1.00	61.49	Al6s	ATOM	46586	O5	ADE	1305	244.737	119.684	14.189	1.00	61.86	Al
ATOM	46534	N4	CYT	1302	241.644	109.400	24.582	1.00	61.49	Al6s	ATOM	46587	C5	ADE	1305	243.854	120.782	14.104	1.00	61.86	Al
ATOM	46535	C5	CYT	1302	242.549	108.858	22.433	1.00	61.49	Al6s	ATOM	46588	C4	ADE	1305	244.463	121.981	14.763	1.00	61.86	Al
ATOM	46536	C2	CYT	1302	241.410	105.790	19.474	1.00	69.51	Al6s	ATOM	46589	O4	ADE	1305	244.689	121.681	16.161	1.00	61.86	Al
ATOM	46537	O2	CYT	1302	241.047	104.502	19.027	1.00	69.51	Al6s	ATOM	46590	C1	ADE	1305	245.880	122.312	16.591	1.00	61.86	Al
ATOM	46538	C3	CYT	1302	242.284	106.552	18.479	1.00	69.51	Al6s	ATOM	46591	N9	ADE	1305	246.825	121.262	16.961	1.00	62.85	Al
ATOM	46539	O3	CYT	1302	241.877	106.383	17.117	1.00	69.51	Al6s	ATOM	46592	C4	ADE	1305	247.919	121.389	17.784	1.00	62.85	Al
ATOM	46540	P	CYT	1303	241.065	107.552	16.360	1.00	68.99	Al6s	ATOM	46593	N3	ADE	1305	248.346	122.500	18.409	1.00	62.85	Al
ATOM	46541	O1P	CYT	1303	241.101	107.281	14.904	1.00	85.68	Al6s	ATOM	46594	C2	ADE	1305	249.424	122.240	19.135	1.00	62.85	Al
ATOM	46542	O2P	CYT	1303	233.757	107.735	17.029	1.00	85.68	Al6s	ATOM	46595	N1	ADE	1305	250.077	121.084	19.299	1.00	62.85	Al
ATOM	46543	O5	CYT	1303	241.909	108.874	16.591	1.00	68.99	Al6s	ATOM	46596	C6	ADE	1305	249.622	119.986	18.657	1.00	62.85	Al
ATOM	46544	C5	CYT	1303	241.489	110.092	15.991	1.00	68.99	Al6s	ATOM	46597	N6	ADE	1305	250.269	118.829	18.824	1.00	62.85	Al
ATOM	46545	C4	CYT	1303	241.378	111.171	17.036	1.00	68.99	Al6s	ATOM	46598	C5	ADE	1305	248.485	120.130	17.852	1.00	62.85	Al
ATOM	46546	O4	CYT	1303	240.484	110.754	18.071	1.00	68.99	Al6s	ATOM	46599	N7	ADE	1305	247.769	119.947	16.572	1.00	62.85	Al
ATOM	46547	C1	CYT	1303	240.834	111.415	19.251	1.00	68.99	Al6s	ATOM	46600	C8	ADE	1305	246.799	119.947	16.572	1.00	62.85	Al
ATOM	46548	N1	CYT	1303	240.280	110.662	20.369	1.00	85.68	Al6s	ATOM	46601	C2	ADE	1305	246.361	123.171	15.424	1.00	61.86	Al
ATOM	46549	C6	CYT	1303	239.729	109.431	20.159	1.00	85.68	Al6s	ATOM	46602	O2	ADE	1305	245.709	124.423	15.496	1.00	61.86	Al
ATOM	46550	C2	CYT	1303	240.259	111.236	21.623	1.00	85.68	Al6s	ATOM	46603	C3	ADE	1305	245.837	122.365	14.252	1.00	61.86	Al
ATOM	46551	O2	CYT	1303	240.845	112.313	21.797	1.00	85.68	Al6s	ATOM	46604	O3	ADE	1305	245.722	123.150	13.073	1.00	61.86	Al
ATOM	46552	N3	CYT	1303	239.610	110.604	22.619	1.00	85.68	Al6s	ATOM	46605	P	CYT	1306	246.831	123.014	11.919	1.00	62.35	Al

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ATOM	46606	OLP	CYT	1306	246.333	123.760	10.734	1.00	53.71	Al6S	ATOM	46659	N4	CYT	1308	256.659	119.282	11.906	1.00	71.21	Al
ATOM	46607	O2P	CYT	1306	247.230	121.583	11.785	1.00	53.71	Al6S	ATOM	46660	C5	CYT	1308	257.310	121.562	11.607	1.00	71.21	Al
ATOM	46608	O5	CYT	1306	248.055	123.827	12.509	1.00	62.35	Al6S	ATOM	46661	C2	CYT	1308	261.556	122.936	10.930	1.00	63.83	Al
ATOM	46609	C5	CYT	1306	247.928	125.204	12.786	1.00	62.35	Al6S	ATOM	46662	O2	CYT	1308	262.913	123.080	11.305	1.00	63.83	Al
ATOM	46610	O4	CYT	1306	249.110	125.654	13.579	1.00	62.35	Al6S	ATOM	46663	C3	CYT	1308	261.037	124.095	10.087	1.00	63.83	Al
ATOM	46611	O4	CYT	1306	250.462	124.663	15.208	1.00	62.35	Al6S	ATOM	46664	O3	CYT	1308	262.042	124.540	9.185	1.00	63.83	Al
ATOM	46612	C1	CYT	1306	250.653	123.220	15.284	1.00	53.71	Al6S	ATOM	46665	P	CYT	1309	262.218	123.782	7.788	1.00	63.01	Al
ATOM	46613	N1	CYT	1306	251.950	122.373	14.477	1.00	53.71	Al6S	ATOM	46666	OLP	CYT	1309	263.279	124.506	7.044	1.00	73.76	Al
ATOM	46614	C6	CYT	1306	252.573	122.724	16.196	1.00	53.71	Al6S	ATOM	46667	O2P	CYT	1309	260.878	123.612	7.169	1.00	73.76	Al
ATOM	46615	O2	CYT	1306	252.176	123.522	16.923	1.00	53.71	Al6S	ATOM	46668	O5	CYT	1309	262.776	122.346	8.197	1.00	63.01	Al
ATOM	46616	O2	CYT	1306	251.778	121.392	16.272	1.00	53.71	Al6S	ATOM	46669	C5	CYT	1309	264.121	122.201	8.630	1.00	63.01	Al
ATOM	46617	N3	CYT	1306	251.084	120.569	15.489	1.00	53.71	Al6S	ATOM	46670	C4	CYT	1309	264.507	120.743	8.703	1.00	63.01	Al
ATOM	46618	C4	CYT	1306	251.300	119.263	15.612	1.00	53.71	Al6S	ATOM	46671	O4	CYT	1309	263.775	120.077	9.765	1.00	63.01	Al
ATOM	46619	N4	CYT	1306	251.359	125.310	14.159	1.00	62.35	Al6S	ATOM	46672	C1	CYT	1309	263.578	118.712	9.424	1.00	63.01	Al
ATOM	46620	C5	CYT	1306	251.663	126.617	14.596	1.00	62.35	Al6S	ATOM	46673	N1	CYT	1309	262.136	118.429	9.451	1.00	73.76	Al
ATOM	46621	C2	CYT	1306	250.440	125.305	12.951	1.00	62.35	Al6S	ATOM	46674	C6	CYT	1309	261.221	119.430	9.295	1.00	73.76	Al
ATOM	46622	O2	CYT	1306	250.811	126.265	11.976	1.00	62.35	Al6S	ATOM	46675	C2	CYT	1309	262.716	117.113	9.631	1.00	73.76	Al
ATOM	46623	C3	CYT	1306	251.847	125.848	10.831	1.00	59.64	Al6S	ATOM	46676	O2	CYT	1309	262.569	116.232	9.778	1.00	73.76	Al
ATOM	46624	O3	CYT	1306	251.769	126.883	9.784	1.00	49.58	Al6S	ATOM	46677	N3	CYT	1309	260.395	116.835	9.641	1.00	73.76	Al
ATOM	46625	P	CYT	1307	251.624	124.428	10.486	1.00	49.58	Al6S	ATOM	46678	C4	CYT	1309	259.509	117.817	9.481	1.00	73.76	Al
ATOM	46626	OLP	CYT	1307	251.263	125.878	11.555	1.00	59.64	Al6S	ATOM	46679	N4	CYT	1309	258.215	117.500	9.492	1.00	73.76	Al
ATOM	46628	O5	CYT	1307	253.721	127.044	12.224	1.00	59.64	Al6S	ATOM	46680	C5	CYT	1309	259.910	119.171	9.301	1.00	73.76	Al
ATOM	46629	C5	CYT	1307	255.039	126.763	12.901	1.00	59.64	Al6S	ATOM	46681	C2	CYT	1309	264.195	118.496	8.041	1.00	63.01	Al
ATOM	46630	C4	CYT	1307	255.983	125.849	14.004	1.00	59.64	Al6S	ATOM	46682	O2	CYT	1309	265.483	117.947	8.190	1.00	63.01	Al
ATOM	46631	O4	CYT	1307	255.983	125.849	14.163	1.00	59.64	Al6S	ATOM	46683	C3	CYT	1309	264.192	119.915	7.478	1.00	63.01	Al
ATOM	46632	N1	CYT	1307	255.561	123.645	14.115	1.00	49.58	Al6S	ATOM	46684	P	CYT	1310	264.764	119.823	4.926	1.00	56.04	Al
ATOM	46633	C6	CYT	1307	254.344	123.296	13.605	1.00	49.58	Al6S	ATOM	46685	OLP	CYT	1310	265.981	120.067	4.105	1.00	60.21	Al
ATOM	46634	C6	CYT	1307	256.418	122.674	14.612	1.00	49.58	Al6S	ATOM	46686	O2P	CYT	1310	263.511	120.561	4.601	1.00	60.21	Al
ATOM	46635	O2	CYT	1307	257.516	123.026	15.057	1.00	49.58	Al6S	ATOM	46687	C5	CYT	1310	264.464	118.255	4.946	1.00	56.04	Al
ATOM	46636	C2	CYT	1307	256.031	121.376	14.599	1.00	49.58	Al6S	ATOM	46688	O5	CYT	1310	265.529	117.329	5.116	1.00	56.04	Al
ATOM	46637	N3	CYT	1307	254.836	121.045	14.115	1.00	49.58	Al6S	ATOM	46689	C4	CYT	1310	265.002	115.936	5.348	1.00	56.04	Al
ATOM	46638	C4	CYT	1307	255.945	122.017	13.588	1.00	49.58	Al6S	ATOM	46690	C4	CYT	1310	264.197	115.917	6.557	1.00	56.04	Al
ATOM	46639	N4	CYT	1307	256.989	125.438	13.081	1.00	59.64	Al6S	ATOM	46691	O4	CYT	1310	263.205	114.906	6.449	1.00	56.04	Al
ATOM	46640	C5	CYT	1307	257.885	126.379	13.626	1.00	59.64	Al6S	ATOM	46692	C1	CYT	1310	261.889	114.539	6.471	1.00	60.21	Al
ATOM	46641	O2	CYT	1307	256.088	126.081	12.037	1.00	59.64	Al6S	ATOM	46693	N3	CYT	1310	260.680	114.882	6.522	1.00	60.21	Al
ATOM	46642	C3	CYT	1307	257.797	127.064	11.283	1.00	59.64	Al6S	ATOM	46694	C4	CYT	1310	260.469	113.555	6.619	1.00	60.21	Al
ATOM	46643	P	CYT	1308	257.870	127.960	9.219	1.00	71.21	Al6S	ATOM	46695	N3	CYT	1310	259.165	113.283	6.607	1.00	60.21	Al
ATOM	46644	OLP	CYT	1308	258.609	125.741	10.139	1.00	63.83	Al6S	ATOM	46696	C2	CYT	1310	258.374	115.443	6.408	1.00	60.21	Al
ATOM	46645	O5	CYT	1308	259.795	126.258	10.731	1.00	63.83	Al6S	ATOM	46697	N1	CYT	1310	258.127	114.118	6.510	1.00	60.21	Al
ATOM	46646	C5	CYT	1308	260.721	125.136	11.142	1.00	63.83	Al6S	ATOM	46698	C6	CYT	1310	257.343	116.281	6.292	1.00	60.21	Al
ATOM	46647	C4	CYT	1308	260.124	124.351	12.204	1.00	63.83	Al6S	ATOM	46699	N6	CYT	1310	259.716	115.865	6.422	1.00	60.21	Al
ATOM	46648	O4	CYT	1308	260.656	123.035	12.164	1.00	63.83	Al6S	ATOM	46700	C5	CYT	1310	260.303	117.123	6.346	1.00	60.21	Al
ATOM	46649	C1	CYT	1308	259.553	122.075	12.095	1.00	71.21	Al6S	ATOM	46701	N7	CYT	1310	261.589	116.875	6.390	1.00	60.21	Al
ATOM	46650	N1	CYT	1308	258.306	122.451	11.685	1.00	71.21	Al6S	ATOM	46702	C8	CYT	1310	263.419	114.232	5.094	1.00	56.04	Al
ATOM	46651	C6	CYT	1308	259.809	120.758	12.449	1.00	71.21	Al6S	ATOM	46703	C2	CYT	1310	264.260	113.116	5.262	1.00	56.04	Al
ATOM	46652	C2	CYT	1308	260.945	120.457	12.827	1.00	71.21	Al6S	ATOM	46704	O2	CYT	1310	264.057	113.367	4.313	1.00	56.04	Al
ATOM	46653	O3	CYT	1308	258.818	119.846	12.375	1.00	71.21	Al6S	ATOM	46705	C3	CYT	1310	264.709	114.930	3.123	1.00	56.04	Al
ATOM	46654	N2	CYT	1308	257.605	120.216	11.968	1.00	71.21	Al6S	ATOM	46706	OLP	CYT	1311	264.035	115.260	1.703	1.00	66.38	Al
ATOM	46655	C3	CYT	1308							ATOM	46707	P	CYT	1311	265.008	115.298	0.577	1.00	59.12	Al
ATOM	46656	O2	CYT	1308							ATOM	46708	OLP	CYT	1311	263.200	116.461	1.968	1.00	59.12	Al
ATOM	46657	N3	CYT	1308							ATOM	46709	O2P	CYT	1311	263.071	114.019	1.468	1.00	59.12	Al
ATOM	46658	C4	CYT	1308							ATOM	46710	O5	CYT	1311	263.387	112.737	1.982	1.00	66.38	Al
ATOM	46659	C5	CYT	1308							ATOM	46711	C5	CYT	1311						Al

ATOM	46712	C4' URI	1311	262.118	111.964	2.235	1.00	66.38	Al6s	ATOM	46765	C5 ADE	1313	251.339	113.941	-3.095	1.00	58.23	/
ATOM	46713	C1' URI	1311	261.368	112.616	3.290	1.00	66.38	Al6s	ATOM	46766	N7 ADE	1313	252.707	113.957	-2.885	1.00	58.23	/
ATOM	46714	Cl' URI	1311	259.983	112.371	3.105	1.00	66.38	Al6s	ATOM	46767	C8 ADE	1313	253.052	112.700	-2.986	1.00	58.23	/
ATOM	46715	N1 URI	1311	259.275	113.656	3.154	1.00	59.12	Al6s	ATOM	46768	C2' ADE	1313	251.673	109.812	-4.703	1.00	61.75	/
ATOM	46716	C6 URI	1311	259.947	114.830	2.976	1.00	59.12	Al6s	ATOM	46769	O2' ADE	1313	251.323	108.463	-4.506	1.00	61.75	/
ATOM	46717	C2 URI	1311	257.908	113.643	3.391	1.00	59.12	Al6s	ATOM	46770	C3' ADE	1313	252.976	109.876	-5.472	1.00	61.75	/
ATOM	46718	O2 URI	1311	257.270	112.615	3.564	1.00	59.12	Al6s	ATOM	46771	O3' ADE	1313	253.008	108.881	-6.482	1.00	61.75	/
ATOM	46719	N3 URI	1311	257.317	114.878	3.420	1.00	59.12	Al6s	ATOM	46772	P ADE	1314	252.871	109.308	-8.023	1.00	69.70	/
ATOM	46720	C4 URI	1311	257.935	116.091	3.243	1.00	59.12	Al6s	ATOM	46773	OlP ADE	1314	253.316	108.126	-8.807	1.00	45.88	/
ATOM	46721	O4 URI	1311	257.271	117.122	3.291	1.00	59.12	Al6s	ATOM	46774	O2P ADE	1314	253.538	110.619	-8.229	1.00	45.88	/
ATOM	46722	C5 URI	1311	259.342	116.015	3.012	1.00	59.12	Al6s	ATOM	46775	O5' ADE	1314	251.304	109.537	-8.223	1.00	69.70	/
ATOM	46723	C2' URI	1311	259.817	111.614	1.784	1.00	66.38	Al6s	ATOM	46776	C5' ADE	1314	250.373	108.478	-8.017	1.00	69.70	/
ATOM	46724	O2' URI	1311	259.685	110.229	2.037	1.00	66.38	Al6s	ATOM	46777	C4' ADE	1314	248.973	109.028	-7.875	1.00	69.70	/
ATOM	46725	C3' URI	1311	261.129	111.933	1.080	1.00	66.38	Al6s	ATOM	46778	O4' ADE	1314	248.919	109.883	-6.705	1.00	69.70	/
ATOM	46726	O3' URI	1311	261.464	110.914	0.150	1.00	66.38	Al6s	ATOM	46779	Cl' ADE	1314	248.008	110.941	-6.935	1.00	69.70	/
ATOM	46727	P GUA	1312	261.675	111.297	-1.390	1.00	76.64	Al6s	ATOM	46780	N9 ADE	1314	248.738	112.194	-6.718	1.00	45.88	/
ATOM	46728	OlP GUA	1312	261.846	110.029	-2.138	1.00	68.73	Al6s	ATOM	46781	C4 ADE	1314	248.179	113.440	-6.834	1.00	45.88	/
ATOM	46729	O2P GUA	1312	262.690	112.376	-1.511	1.00	68.73	Al6s	ATOM	46782	N3 ADE	1314	246.699	115.053	-6.534	1.00	45.88	/
ATOM	46730	O5' GUA	1312	260.288	111.931	-1.803	1.00	76.64	Al6s	ATOM	46783	C2 ADE	1314	246.869	113.745	-6.673	1.00	45.88	/
ATOM	46731	C5' GUA	1312	259.099	111.182	-1.684	1.00	76.64	Al6s	ATOM	46784	N1 ADE	1314	247.619	115.680	-6.439	1.00	45.88	/
ATOM	46732	C4' GUA	1312	257.921	112.071	-1.938	1.00	76.64	Al6s	ATOM	46785	C6 ADE	1314	249.836	116.645	-6.387	1.00	45.88	/
ATOM	46733	O4' GUA	1312	257.864	113.075	-0.904	1.00	76.64	Al6s	ATOM	46786	N6 ADE	1314	249.237	114.323	-6.640	1.00	45.88	/
ATOM	46734	Cl' GUA	1312	257.185	114.200	-1.406	1.00	76.64	Al6s	ATOM	46787	C5 ADE	1314	250.441	113.647	-6.719	1.00	45.88	/
ATOM	46735	N9 GUA	1312	257.823	115.413	-0.898	1.00	68.73	Al6s	ATOM	46788	N7 ADE	1314	250.089	112.388	-6.832	1.00	45.88	/
ATOM	46736	C4 GUA	1312	257.176	116.470	-0.285	1.00	68.73	Al6s	ATOM	46789	C8 ADE	1314	247.401	110.738	-8.321	1.00	69.70	/
ATOM	46737	N3 GUA	1312	255.846	116.558	-0.037	1.00	68.73	Al6s	ATOM	46790	C2' ADE	1314	246.191	110.029	-8.197	1.00	69.70	/
ATOM	46738	C2 GUA	1312	255.524	117.706	0.546	1.00	68.73	Al6s	ATOM	46791	O2' ADE	1314	247.971	109.672	-11.565	1.00	45.27	/
ATOM	46739	N2 GUA	1312	256.433	118.684	0.853	1.00	68.73	Al6s	ATOM	46792	C3' ADE	1314	247.909	109.139	-10.052	1.00	69.70	/
ATOM	46740	N1 GUA	1312	257.799	118.617	0.605	1.00	68.73	Al6s	ATOM	46793	O3' ADE	1315	247.971	109.672	-11.565	1.00	45.27	/
ATOM	46741	C6 GUA	1312	258.520	119.569	0.906	1.00	68.73	Al6s	ATOM	46795	OlP GUA	1315	246.974	108.912	-12.360	1.00	56.39	/
ATOM	46742	O6 GUA	1312	258.163	117.389	-0.006	1.00	68.73	Al6s	ATOM	46796	O2P GUA	1315	249.389	109.682	-11.997	1.00	56.39	/
ATOM	46743	C7 GUA	1312	259.403	116.917	-0.408	1.00	68.73	Al6s	ATOM	46797	O5' GUA	1315	247.506	111.196	-11.460	1.00	45.27	/
ATOM	46744	N7 GUA	1312	259.154	115.743	-0.928	1.00	68.73	Al6s	ATOM	46798	C5' GUA	1315	246.130	111.540	-11.330	1.00	45.27	/
ATOM	46745	C8 GUA	1312	255.679	113.622	-3.146	1.00	76.64	Al6s	ATOM	46799	C4' GUA	1315	245.982	113.018	-11.068	1.00	45.27	/
ATOM	46746	O2' GUA	1312	257.976	112.877	-3.222	1.00	76.64	Al6s	ATOM	46800	O4' GUA	1315	247.341	114.672	-10.108	1.00	45.27	/
ATOM	46747	C3' GUA	1312	257.656	111.974	-4.298	1.00	76.64	Al6s	ATOM	46801	Cl' GUA	1315	248.797	114.581	-10.014	1.00	56.39	/
ATOM	46749	O3' GUA	1312	256.539	112.333	-5.415	1.00	61.75	Al6s	ATOM	46802	N9 GUA	1315	249.694	115.624	-9.907	1.00	56.39	/
ATOM	46750	P ADE	1313	256.995	111.677	-6.673	1.00	58.23	Al6s	ATOM	46803	C4 GUA	1315	249.386	117.637	-9.753	1.00	56.39	/
ATOM	46751	OlP ADE	1313	255.214	113.789	-5.445	1.00	58.23	Al6s	ATOM	46804	N3 GUA	1315	250.464	117.020	-9.782	1.00	56.39	/
ATOM	46752	O2P ADE	1313	255.270	111.522	-4.895	1.00	61.75	Al6s	ATOM	46805	C2 GUA	1315	251.744	117.213	-9.717	1.00	56.39	/
ATOM	46753	O5' ADE	1313	255.368	110.122	-4.623	1.00	61.75	Al6s	ATOM	46806	N2 GUA	1315	252.091	115.868	-9.780	1.00	56.39	/
ATOM	46754	C5' ADE	1313	253.994	109.532	-4.400	1.00	61.75	Al6s	ATOM	46807	N1 GUA	1315	250.826	113.654	-9.946	1.00	56.39	/
ATOM	46755	O4' ADE	1313	252.089	110.049	-3.357	1.00	61.75	Al6s	ATOM	46808	C6 GUA	1315	249.544	113.432	-10.022	1.00	56.39	/
ATOM	46756	Cl' ADE	1313	252.006	111.857	-3.238	1.00	58.23	Al6s	ATOM	46809	O6 GUA	1315	246.821	115.210	-11.447	1.00	45.27	/
ATOM	46757	C1' ADE	1313	249.632	112.277	-3.570	1.00	58.23	Al6s	ATOM	46810	C5 GUA	1315	245.724	113.928	-12.188	1.00	45.27	/
ATOM	46758	N9 ADE	1313	249.107	114.610	-3.355	1.00	58.23	Al6s	ATOM	46811	N7 GUA	1315	245.380	114.164	-13.101	1.00	45.27	/
ATOM	46759	C3 ADE	1313	250.384	114.956	-3.112	1.00	58.23	Al6s	ATOM	46812	C8 GUA	1315	245.577	113.842	-14.661	1.00	57.78	/
ATOM	46760	N4 ADE	1313	250.669	116.242	-2.903	1.00	58.23	Al6s	ATOM	46813	P CYT	1316						/
ATOM	46761	C2 ADE	1313							ATOM	46814	O2' GUA	1315						/
ATOM	46762	N1 ADE	1313							ATOM	46815	C3' GUA	1315						/
ATOM	46763	C6 ADE	1313							ATOM	46816	O3' GUA	1315						/
ATOM	46764	N6 ADE	1313							ATOM	46817	P	1316						/

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ATOM	46818	O1P	CYT	1316	244.337	114.207	-15.390	1.00	56.90	Al6S	ATOM	46871	C6	GUA	1318	240.282	118.811	-13.761	1.00	48.74	Al
ATOM	46819	O2P	CYT	1316	246.105	112.459	-14.749	1.00	56.90	Al6S	ATOM	46872	O6	GUA	1318	240.125	119.991	-13.405	1.00	48.74	Al
ATOM	46820	O5'	CYT	1316	246.689	114.877	-15.129	1.00	57.78	Al6S	ATOM	46873	C5	GUA	1318	239.339	117.934	-14.349	1.00	48.74	Al
ATOM	46821	C5'	CYT	1316	246.425	116.267	-15.089	1.00	57.78	Al6S	ATOM	46874	N7	GUA	1318	239.013	118.140	-14.679	1.00	48.74	Al
ATOM	46822	C4'	CYT	1316	247.228	116.982	-16.140	1.00	57.78	Al6S	ATOM	46875	C8	GUA	1318	237.632	117.015	-15.214	1.00	48.74	Al
ATOM	46823	O4'	CYT	1316	248.618	116.801	-15.862	1.00	57.78	Al6S	ATOM	46876	C2'	GUA	1318	237.033	114.157	-16.175	1.00	49.43	Al
ATOM	46824	C1'	CYT	1316	249.342	116.941	-17.057	1.00	57.78	Al6S	ATOM	46877	O2'	GUA	1318	237.278	112.761	-16.042	1.00	49.43	Al
ATOM	46825	N1	CYT	1316	250.537	116.102	-16.965	1.00	56.90	Al6S	ATOM	46878	C3'	GUA	1318	236.966	114.543	-17.631	1.00	49.43	Al
ATOM	46826	C6	CYT	1316	250.459	114.816	-16.518	1.00	56.90	Al6S	ATOM	46879	O3'	GUA	1319	236.322	113.996	-19.612	1.00	47.02	Al
ATOM	46827	C2	CYT	1316	251.765	116.655	-17.311	1.00	56.90	Al6S	ATOM	46880	P	GUA	1319	234.299	114.979	-19.167	1.00	61.08	Al
ATOM	46828	O2	CYT	1316	251.801	117.824	-17.738	1.00	56.90	Al6S	ATOM	46881	O1P	GUA	1319	236.247	114.365	-20.712	1.00	61.08	Al
ATOM	46829	N3	CYT	1316	252.884	115.912	-17.170	1.00	56.90	Al6S	ATOM	46882	O2P	GUA	1319	234.547	112.659	-20.013	1.00	47.02	Al
ATOM	46830	C4	CYT	1316	252.801	114.662	-16.711	1.00	56.90	Al6S	ATOM	46883	O5'	GUA	1319	235.253	111.473	-20.363	1.00	47.02	Al
ATOM	46831	N4	CYT	1316	253.931	113.969	-16.572	1.00	56.90	Al6S	ATOM	46884	C5'	GUA	1319	234.288	110.251	-19.774	1.00	47.02	Al
ATOM	46832	C5	CYT	1316	251.557	114.068	-16.373	1.00	56.90	Al6S	ATOM	46885	C4'	GUA	1319	233.252	108.808	-19.266	1.00	61.08	Al
ATOM	46833	C2'	CYT	1316	248.391	116.756	-18.250	1.00	57.78	Al6S	ATOM	46886	O4'	GUA	1319	233.158	109.309	-17.899	1.00	61.08	Al
ATOM	46834	O2'	CYT	1316	248.472	117.905	-19.072	1.00	57.78	Al6S	ATOM	46887	C1'	GUA	1319	232.550	108.702	-16.833	1.00	61.08	Al
ATOM	46835	C3'	CYT	1316	245.991	117.368	-18.088	1.00	57.78	Al6S	ATOM	46888	N9	GUA	1319	231.888	107.529	-16.859	1.00	61.08	Al
ATOM	46836	O3'	CYT	1316	245.369	117.114	-19.542	1.00	58.02	Al6S	ATOM	46890	N3	GUA	1319	230.716	106.063	-15.513	1.00	61.08	Al
ATOM	46837	P	CYT	1317	245.619	115.692	-19.885	1.00	75.83	Al6S	ATOM	46891	C2	GUA	1319	231.602	107.955	-14.541	1.00	61.08	Al
ATOM	46838	O1P	CYT	1317	243.829	118.189	-20.457	1.00	75.83	Al6S	ATOM	46892	N2	GUA	1319	232.409	109.763	-13.414	1.00	61.08	Al
ATOM	46839	O2P	CYT	1317	243.808	117.322	-19.331	1.00	58.02	Al6S	ATOM	46893	N1	GUA	1319	232.774	109.536	-15.763	1.00	61.08	Al
ATOM	46840	O5'	CYT	1317	243.103	116.606	-18.321	1.00	58.02	Al6S	ATOM	46894	C6	GUA	1319	232.409	109.763	-13.414	1.00	61.08	Al
ATOM	46841	C5'	CYT	1317	242.261	117.556	-17.497	1.00	58.02	Al6S	ATOM	46895	O6	GUA	1319	232.774	109.536	-15.763	1.00	61.08	Al
ATOM	46842	C4'	CYT	1317	242.413	119.570	-16.408	1.00	58.02	Al6S	ATOM	46896	C5	GUA	1319	233.487	110.656	-16.154	1.00	61.08	Al
ATOM	46843	O4'	CYT	1317	243.086	118.379	-16.671	1.00	58.02	Al6S	ATOM	46897	N7	GUA	1319	232.178	109.380	-20.192	1.00	47.02	Al
ATOM	46844	C1'	CYT	1317	242.415	119.570	-16.408	1.00	75.83	Al6S	ATOM	46898	C8	GUA	1319	233.975	108.503	-21.279	1.00	47.02	Al
ATOM	46845	N1	CYT	1317	243.413	120.618	-16.152	1.00	75.83	Al6S	ATOM	46899	C2'	GUA	1319	232.811	110.704	-20.595	1.00	47.02	Al
ATOM	46846	C6	CYT	1317	244.734	120.286	-16.054	1.00	75.83	Al6S	ATOM	46900	O3'	GUA	1319	232.330	111.144	-21.852	1.00	47.02	Al
ATOM	46847	O2	CYT	1317	243.003	121.935	-15.965	1.00	75.83	Al6S	ATOM	46901	C2'	GUA	1319	231.083	112.141	-21.914	1.00	47.67	Al
ATOM	46848	O2	CYT	1317	241.800	122.218	-16.086	1.00	75.83	Al6S	ATOM	46902	C3'	GUA	1319	229.864	111.239	-21.429	1.00	47.67	Al
ATOM	46849	N3	CYT	1317	243.931	122.870	-15.654	1.00	75.83	Al6S	ATOM	46903	P	GUA	1320	228.041	108.775	-19.360	1.00	47.67	Al
ATOM	46850	C4	CYT	1317	245.216	122.524	-15.539	1.00	75.83	Al6S	ATOM	46904	O1P	ADE	1320	228.666	109.614	-18.351	1.00	53.95	Al
ATOM	46851	N4	CYT	1317	246.096	123.470	-15.222	1.00	75.83	Al6S	ATOM	46905	O2P	ADE	1320	228.648	109.415	-16.996	1.00	53.95	Al
ATOM	46852	C5	CYT	1317	245.656	121.195	-15.744	1.00	75.83	Al6S	ATOM	46906	O5'	ADE	1320	228.041	108.775	-19.360	1.00	47.67	Al
ATOM	46853	C2'	CYT	1317	241.254	119.745	-17.394	1.00	58.02	Al6S	ATOM	46907	C5'	ADE	1320	229.245	110.311	-22.315	1.00	47.67	Al
ATOM	46854	O2'	CYT	1317	240.079	119.754	-16.620	1.00	58.02	Al6S	ATOM	46908	C4'	ADE	1320	228.206	109.502	-21.580	1.00	47.67	Al
ATOM	46855	C3'	CYT	1317	241.332	118.482	-18.260	1.00	58.02	Al6S	ATOM	46909	O4'	ADE	1320	228.041	108.775	-19.360	1.00	47.67	Al
ATOM	46856	O3'	CYT	1317	240.127	117.712	-18.196	1.00	58.02	Al6S	ATOM	46910	C1'	ADE	1320	228.666	109.614	-18.351	1.00	53.95	Al
ATOM	46857	P	GUA	1318	238.764	118.198	-18.893	1.00	49.43	Al6S	ATOM	46911	N9	ADE	1320	228.041	108.775	-19.360	1.00	47.67	Al
ATOM	46858	O1P	GUA	1318	239.036	118.576	-20.307	1.00	48.74	Al6S	ATOM	46912	C4	ADE	1320	228.666	109.614	-18.351	1.00	53.95	Al
ATOM	46859	O2P	GUA	1318	238.042	119.145	-18.010	1.00	48.74	Al6S	ATOM	46913	N3	ADE	1320	228.041	108.775	-19.360	1.00	47.67	Al
ATOM	46860	O5'	GUA	1318	237.934	116.844	-18.884	1.00	49.43	Al6S	ATOM	46914	C2	ADE	1320	228.666	109.614	-18.351	1.00	53.95	Al
ATOM	46861	C5'	GUA	1318	238.537	115.611	-19.291	1.00	49.43	Al6S	ATOM	46915	N1	ADE	1320	228.041	108.775	-19.360	1.00	47.67	Al
ATOM	46862	C4'	GUA	1318	238.365	114.572	-18.214	1.00	49.43	Al6S	ATOM	46916	C6	ADE	1320	228.666	109.614	-18.351	1.00	53.95	Al
ATOM	46863	O4'	GUA	1318	239.261	114.869	-17.123	1.00	49.43	Al6S	ATOM	46917	N6	ADE	1320	228.041	108.775	-19.360	1.00	47.67	Al
ATOM	46864	C1'	GUA	1318	238.583	114.762	-15.890	1.00	49.43	Al6S	ATOM	46918	C5	ADE	1320	228.666	109.614	-18.351	1.00	53.95	Al
ATOM	46865	N9	GUA	1318	239.731	116.664	-14.682	1.00	48.74	Al6S	ATOM	46919	N7	ADE	1320	228.041	108.775	-19.360	1.00	47.67	Al
ATOM	46866	C4	GUA	1318	240.941	116.086	-14.518	1.00	48.74	Al6S	ATOM	46920	C8	ADE	1320	228.666	109.614	-18.351	1.00	53.95	Al
ATOM	46867	N3	GUA	1318	241.814	116.914	-13.966	1.00	48.74	Al6S	ATOM	46921	C2'	ADE	1320	228.041	108.775	-19.360	1.00	47.67	Al
ATOM	46868	C2	GUA	1318	243.073	116.503	-13.733	1.00	48.74	Al6S	ATOM	46922	O2'	ADE	1320	227.107	110.302	-20.899	1.00	47.67	Al
ATOM	46869	N2	GUA	1318	241.520	118.201	-13.603	1.00	48.74	Al6S	ATOM	46923	C3'	ADE	1320	227.107	110.302	-20.899	1.00	47.67	Al

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ATOM	46924	O3	ADE	1320	226.027	110.531	-21.797	1.00	47.67	Al6S	ATOM	46977	C2	CYT	1323	226.709	123.752	-12.926	1.00	54.58	P
ATOM	46925	P	ADE	1321	225.368	111.995	-21.919	1.00	54.59	Al6S	ATOM	46978	O2	CYT	1323	227.023	124.503	-11.998	1.00	54.58	P
ATOM	46926	O1P	ADE	1321	224.121	111.829	-22.695	1.00	58.63	Al6S	ATOM	46979	N3	CYT	1323	227.169	123.938	-14.178	1.00	54.58	P
ATOM	46927	O2P	ADE	1321	226.386	112.965	-22.383	1.00	58.63	Al6S	ATOM	46980	C4	CYT	1323	226.804	123.105	-15.145	1.00	54.58	P
ATOM	46928	O5	ADE	1321	224.979	112.385	-20.426	1.00	54.59	Al6S	ATOM	46981	N4	CYT	1323	227.280	123.334	-16.367	1.00	54.58	P
ATOM	46929	C5	ADE	1321	223.961	111.672	-19.740	1.00	54.59	Al6S	ATOM	46982	C5	CYT	1323	225.934	122.001	-14.901	1.00	54.58	P
ATOM	46930	C4	ADE	1321	224.087	111.853	-18.245	1.00	54.59	Al6S	ATOM	46983	C2	CYT	1323	224.419	123.663	-10.883	1.00	49.12	P
ATOM	46931	O4	ADE	1321	225.425	111.488	-17.807	1.00	54.59	Al6S	ATOM	46984	O2	CYT	1323	224.556	123.909	-9.503	1.00	49.12	P
ATOM	46932	C1	ADE	1321	225.799	112.294	-16.702	1.00	54.59	Al6S	ATOM	46985	C3	CYT	1323	223.069	123.078	-11.234	1.00	49.12	P
ATOM	46933	N9	ADE	1321	226.868	113.189	-17.133	1.00	58.63	Al6S	ATOM	46986	O3	CYT	1323	222.035	123.684	-10.472	1.00	49.12	P
ATOM	46934	C4	ADE	1321	227.605	114.008	-16.317	1.00	58.63	Al6S	ATOM	46987	P	GUA	1324	221.433	125.101	-10.924	1.00	52.98	P
ATOM	46935	N3	ADE	1321	228.370	115.033	-14.532	1.00	58.63	Al6S	ATOM	46988	O1P	GUA	1324	220.293	125.338	-10.017	1.00	57.48	P
ATOM	46936	C2	ADE	1321	228.370	115.033	-14.532	1.00	58.63	Al6S	ATOM	46989	O2P	GUA	1324	221.217	125.112	-12.392	1.00	57.48	P
ATOM	46937	N1	ADE	1321	229.227	115.797	-15.218	1.00	58.63	Al6S	ATOM	46990	O5	GUA	1324	222.575	126.157	-10.579	1.00	52.98	P
ATOM	46938	C6	ADE	1321	229.282	115.664	-16.559	1.00	58.63	Al6S	ATOM	46991	C5	GUA	1324	223.017	126.358	-9.228	1.00	52.98	P
ATOM	46939	N6	ADE	1321	230.120	116.439	-17.243	1.00	58.63	Al6S	ATOM	46992	C4	GUA	1324	224.017	127.499	-9.158	1.00	52.98	P
ATOM	46940	C5	ADE	1321	228.441	114.719	-17.155	1.00	58.63	Al6S	ATOM	46993	O4	GUA	1324	225.277	127.102	-9.754	1.00	52.98	P
ATOM	46941	N7	ADE	1321	228.258	114.332	-18.473	1.00	58.63	Al6S	ATOM	46994	C1	GUA	1324	225.825	128.187	-10.490	1.00	52.98	P
ATOM	46942	C8	ADE	1321	227.322	113.421	-18.406	1.00	58.63	Al6S	ATOM	46995	N9	GUA	1324	226.697	128.336	-12.866	1.00	57.48	P
ATOM	46943	C2	ADE	1321	224.562	113.108	-16.337	1.00	54.59	Al6S	ATOM	46996	C4	GUA	1324	227.579	129.349	-12.702	1.00	57.48	P
ATOM	46944	O2	ADE	1321	223.759	112.356	-15.451	1.00	54.59	Al6S	ATOM	46997	N3	GUA	1324	228.195	129.653	-13.835	1.00	57.48	P
ATOM	46945	C3	ADE	1321	223.918	113.255	-17.703	1.00	54.59	Al6S	ATOM	46998	C2	GUA	1324	229.099	130.626	-13.865	1.00	57.48	P
ATOM	46946	O3	ADE	1321	222.550	113.586	-17.586	1.00	54.59	Al6S	ATOM	46999	N2	GUA	1324	227.966	129.020	-15.022	1.00	57.48	P
ATOM	46947	P	URI	1322	222.100	115.116	-17.720	1.00	56.41	Al6S	ATOM	47000	N1	GUA	1324	227.068	127.978	-15.212	1.00	57.48	P
ATOM	46948	O1P	URI	1322	220.647	115.139	-17.461	1.00	64.77	Al6S	ATOM	47001	C6	GUA	1324	226.942	127.474	-16.332	1.00	57.48	P
ATOM	46949	O2P	URI	1322	222.629	115.658	-18.995	1.00	64.77	Al6S	ATOM	47002	O6	GUA	1324	226.400	127.637	-14.011	1.00	57.48	P
ATOM	46950	O5	URI	1322	222.807	115.838	-16.514	1.00	56.41	Al6S	ATOM	47003	C5	GUA	1324	225.442	126.666	-13.761	1.00	57.48	P
ATOM	46951	C5	URI	1322	222.507	115.541	-15.161	1.00	56.41	Al6S	ATOM	47004	N7	GUA	1324	224.923	129.401	-10.259	1.00	52.98	P
ATOM	46952	C4	URI	1322	223.314	116.398	-14.214	1.00	56.41	Al6S	ATOM	47005	C8	GUA	1324	225.405	130.175	-9.184	1.00	52.98	P
ATOM	46953	O4	URI	1322	224.725	116.133	-14.432	1.00	56.41	Al6S	ATOM	47006	C2	GUA	1324	222.809	129.564	-9.105	1.00	52.98	P
ATOM	46954	C1	URI	1322	225.468	117.325	-14.244	1.00	56.41	Al6S	ATOM	47007	O2	GUA	1324	221.737	130.535	-9.775	1.00	41.42	P
ATOM	46955	N1	URI	1322	226.116	117.667	-15.516	1.00	64.77	Al6S	ATOM	47008	C3	GUA	1324	220.919	131.097	-8.665	1.00	54.86	P
ATOM	46956	C6	URI	1322	225.644	117.179	-16.699	1.00	64.77	Al6S	ATOM	47009	O3	GUA	1324	222.607	131.697	-10.437	1.00	41.42	P
ATOM	46957	C2	URI	1322	227.225	118.489	-15.476	1.00	64.77	Al6S	ATOM	47010	P	CYT	1325	221.087	129.789	-10.876	1.00	54.86	P
ATOM	46958	O2	URI	1322	227.796	118.957	-14.442	1.00	64.77	Al6S	ATOM	47011	O1P	CYT	1325	223.360	132.607	-9.633	1.00	41.42	P
ATOM	46959	N3	URI	1322	227.383	118.270	-17.911	1.00	64.77	Al6S	ATOM	47012	O2P	CYT	1325	224.298	133.339	-10.497	1.00	41.42	P
ATOM	46960	C4	URI	1322	228.030	118.547	-18.914	1.00	64.77	Al6S	ATOM	47013	O5	CYT	1325	225.215	132.476	-11.130	1.00	41.42	P
ATOM	46961	O4	URI	1322	226.225	117.443	-17.866	1.00	64.77	Al6S	ATOM	47014	C5	CYT	1325	225.553	132.942	-12.425	1.00	54.86	P
ATOM	46962	C5	URI	1322	224.432	118.393	-13.769	1.00	56.41	Al6S	ATOM	47015	C4	CYT	1325	224.170	131.022	-13.122	1.00	54.86	P
ATOM	46963	O2	URI	1322	224.432	118.393	-13.769	1.00	56.41	Al6S	ATOM	47016	O4	CYT	1325	225.782	131.920	-14.633	1.00	54.86	P
ATOM	46964	C2	URI	1322	223.191	117.902	-14.392	1.00	56.41	Al6S	ATOM	47017	C1	CYT	1325	224.450	130.145	-15.290	1.00	54.86	P
ATOM	46965	C3	URI	1322	222.087	118.414	-13.668	1.00	56.41	Al6S	ATOM	47018	N1	CYT	1325	223.792	130.271	-12.633	1.00	41.42	P
ATOM	46966	O3	URI	1322	221.609	119.928	-13.920	1.00	54.58	Al6S	ATOM	47019	C6	CYT	1325	222.659	134.136	-11.661	1.00	41.42	P
ATOM	46967	P	CYT	1323	220.201	120.058	-13.458	1.00	54.58	Al6S	ATOM	47020	C2	CYT	1325	223.179	135.401	-11.228	1.00	41.42	P
ATOM	46968	O1P	CYT	1323	221.956	120.287	-15.315	1.00	54.58	Al6S	ATOM	47021	O2	CYT	1325	224.111	129.283	-16.243	1.00	54.86	P
ATOM	46969	O2P	CYT	1323	222.496	120.795	-12.927	1.00	49.12	Al6S	ATOM	47022	N3	CYT	1325	223.792	130.271	-12.633	1.00	41.42	P
ATOM	46970	O5	CYT	1323	222.377	120.634	-11.524	1.00	49.12	Al6S	ATOM	47023	C4	CYT	1325	224.831	134.271	-12.349	1.00	41.42	P
ATOM	46971	C5	CYT	1323	223.263	121.625	-10.821	1.00	49.12	Al6S	ATOM	47024	N4	CYT	1325	223.659	134.136	-11.661	1.00	41.42	P
ATOM	46972	C4	CYT	1323	224.642	121.335	-11.170	1.00	49.12	Al6S	ATOM	47025	C5	CYT	1325	223.179	135.401	-11.228	1.00	41.42	P
ATOM	46973	O4	CYT	1323	225.367	122.549	-11.280	1.00	49.12	Al6S	ATOM	47026	C2	CYT	1325	224.111	129.283	-16.243	1.00	54.86	P
ATOM	46974	C1	CYT	1323	225.858	122.696	-12.657	1.00	54.58	Al6S	ATOM	47027	O2	CYT	1325	223.792	130.271	-12.633	1.00	41.42	P
ATOM	46975	N1	CYT	1323	225.490	121.834	-13.650	1.00	54.58	Al6S	ATOM	47028	C3	CYT	1325	224.111	129.283	-16.243	1.00	54.86	P
ATOM	46976	C6	CYT	1323	225.490	121.834	-13.650	1.00	54.58	Al6S	ATOM	47029	O3	CYT	1325	223.792	130.271	-12.633	1.00	41.42	P

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ATOM	47030	P	URI	1326	222.043	136.155	-12.070	1.00	48.14	Al6s	ATOM	47083	C2	GUA	1328	232.836	145.602	-12.764	1.00	73.44	Al
ATOM	47031	O1P	URI	1326	221.518	137.269	-11.244	1.00	57.77	Al6s	ATOM	47084	N2	GUA	1328	233.147	144.635	-13.641	1.00	73.44	Al
ATOM	47032	O2P	URI	1326	221.115	135.114	-12.565	1.00	57.77	Al6s	ATOM	47085	N1	GUA	1328	233.545	146.772	-12.856	1.00	73.44	Al
ATOM	47033	O5'	URI	1326	222.825	136.780	-13.308	1.00	48.14	Al6s	ATOM	47086	C6	GUA	1328	233.373	147.884	-12.035	1.00	73.44	Al
ATOM	47034	C5'	URI	1326	223.388	138.094	-13.254	1.00	48.14	Al6s	ATOM	47087	O6	GUA	1328	234.069	148.895	-12.209	1.00	73.44	Al
ATOM	47035	C4'	URI	1326	223.019	138.836	-14.508	1.00	48.14	Al6s	ATOM	47088	C5	GUA	1328	233.360	147.664	-11.077	1.00	73.44	Al
ATOM	47036	O4'	URI	1326	223.156	137.911	-15.592	1.00	48.14	Al6s	ATOM	47089	N7	GUA	1328	231.865	148.488	-10.079	1.00	73.44	Al
ATOM	47037	C1'	URI	1326	222.269	138.288	-16.590	1.00	48.14	Al6s	ATOM	47090	C8	GUA	1328	230.930	147.774	-9.514	1.00	73.44	Al
ATOM	47038	N1	URI	1326	222.092	137.201	-17.555	1.00	57.77	Al6s	ATOM	47091	C2'	GUA	1328	229.880	144.582	-8.622	1.00	57.86	Al
ATOM	47039	C6	URI	1326	221.265	136.138	-17.331	1.00	57.77	Al6s	ATOM	47092	O2'	GUA	1328	229.821	143.296	-9.192	1.00	57.86	Al
ATOM	47040	C2	URI	1326	222.785	137.325	-18.724	1.00	57.77	Al6s	ATOM	47093	C3'	GUA	1328	228.541	144.800	-7.944	1.00	57.86	Al
ATOM	47041	O2	URI	1326	223.566	138.230	-18.921	1.00	57.77	Al6s	ATOM	47094	O3'	GUA	1328	228.009	143.564	-7.440	1.00	57.86	Al
ATOM	47042	N3	URI	1326	222.543	136.350	-19.647	1.00	57.77	Al6s	ATOM	47095	P	URI	1329	228.959	142.294	-7.045	1.00	44.35	Al
ATOM	47043	C4	URI	1326	221.709	135.277	-19.506	1.00	57.77	Al6s	ATOM	47096	O1P	URI	1329	228.631	141.961	-5.625	1.00	69.06	Al
ATOM	47044	O4	URI	1326	221.527	134.530	-20.460	1.00	57.77	Al6s	ATOM	47097	O2P	URI	1329	230.382	142.343	-7.444	1.00	69.06	Al
ATOM	47045	C5	URI	1326	221.056	135.194	-18.244	1.00	57.77	Al6s	ATOM	47098	O5'	URI	1329	228.284	141.141	-7.904	1.00	44.35	Al
ATOM	47046	C2'	URI	1326	221.028	138.875	-15.916	1.00	48.14	Al6s	ATOM	47099	C5'	URI	1329	226.907	140.817	-7.682	1.00	44.35	Al
ATOM	47047	O2'	URI	1326	220.494	139.915	-16.723	1.00	48.14	Al6s	ATOM	47100	C4'	URI	1329	226.456	139.768	-8.651	1.00	44.35	Al
ATOM	47048	C3	URI	1326	221.570	139.316	-14.546	1.00	48.14	Al6s	ATOM	47101	O4'	URI	1329	226.272	140.346	-9.968	1.00	44.35	Al
ATOM	47049	O3'	URI	1326	221.583	140.756	-14.623	1.00	48.14	Al6s	ATOM	47102	C1'	URI	1329	226.796	139.466	-10.938	1.00	44.35	Al
ATOM	47050	P	ADE	1327	221.712	141.669	-13.315	1.00	60.81	Al6s	ATOM	47103	N1	URI	1329	227.956	140.126	-11.541	1.00	69.06	Al
ATOM	47051	O1P	ADE	1327	221.085	140.959	-12.169	1.00	79.35	Al6s	ATOM	47104	C6	URI	1329	228.345	141.370	-11.127	1.00	69.06	Al
ATOM	47052	O2P	ADE	1327	221.208	143.000	-13.731	1.00	79.35	Al6s	ATOM	47105	C2	URI	1329	228.633	139.463	-12.527	1.00	69.06	Al
ATOM	47053	O5'	ADE	1327	223.278	141.805	-13.057	1.00	60.81	Al6s	ATOM	47106	O2	URI	1329	228.314	138.358	-12.912	1.00	69.06	Al
ATOM	47054	C5'	ADE	1327	223.774	142.252	-11.791	1.00	60.81	Al6s	ATOM	47107	N3	URI	1329	229.704	140.142	-13.045	1.00	69.06	Al
ATOM	47055	C4'	ADE	1327	224.948	143.196	-11.973	1.00	60.81	Al6s	ATOM	47108	C4	URI	1329	230.150	141.392	-12.675	1.00	69.06	Al
ATOM	47056	C4'	ADE	1327	225.998	142.484	-12.660	1.00	60.81	Al6s	ATOM	47109	O4	URI	1329	231.150	141.868	-13.216	1.00	69.06	Al
ATOM	47057	C1'	ADE	1327	226.804	143.410	-13.353	1.00	60.81	Al6s	ATOM	47110	C5	URI	1329	229.388	142.008	-10.225	1.00	44.35	Al
ATOM	47058	N9	ADE	1327	227.151	142.890	-14.672	1.00	79.35	Al6s	ATOM	47111	C2'	URI	1329	227.122	138.150	-10.225	1.00	44.35	Al
ATOM	47059	C4	ADE	1327	228.280	143.240	-15.370	1.00	79.35	Al6s	ATOM	47112	O2'	URI	1329	225.960	137.346	-10.230	1.00	44.35	Al
ATOM	47060	N3	ADE	1327	229.243	144.091	-14.982	1.00	79.35	Al6s	ATOM	47113	C3'	URI	1329	227.448	138.638	-8.824	1.00	44.35	Al
ATOM	47061	C2	ADE	1327	230.179	144.192	-15.913	1.00	79.35	Al6s	ATOM	47114	O3'	URI	1329	227.141	137.661	-7.846	1.00	44.35	Al
ATOM	47062	N1	ADE	1327	230.262	143.587	-17.099	1.00	79.35	Al6s	ATOM	47115	P	ADE	1330	227.561	135.452	-6.710	1.00	53.28	Al
ATOM	47063	C6	ADE	1327	229.280	142.735	-17.459	1.00	79.35	Al6s	ATOM	47116	O1P	ADE	1330	229.368	137.282	-6.776	1.00	53.28	Al
ATOM	47064	N6	ADE	1327	229.367	142.124	-18.642	1.00	79.35	Al6s	ATOM	47117	O2P	ADE	1330	227.978	135.080	-9.567	1.00	48.92	Al
ATOM	47065	C5	ADE	1327	228.222	142.542	-16.556	1.00	79.35	Al6s	ATOM	47118	O5'	ADE	1330	228.751	136.009	-8.822	1.00	48.92	Al
ATOM	47066	N7	ADE	1327	227.076	141.762	-16.609	1.00	79.35	Al6s	ATOM	47119	C5'	ADE	1330	227.978	135.080	-9.567	1.00	48.92	Al
ATOM	47067	C8	ADE	1327	226.480	142.002	-15.466	1.00	79.35	Al6s	ATOM	47120	O4'	ADE	1330	229.010	135.632	-10.732	1.00	48.92	Al
ATOM	47068	C2'	ADE	1327	226.123	144.782	-13.349	1.00	60.81	Al6s	ATOM	47121	C1'	ADE	1330	230.265	135.437	-12.314	1.00	48.92	Al
ATOM	47069	O2'	ADE	1327	226.893	145.673	-12.564	1.00	60.81	Al6s	ATOM	47122	O4'	ADE	1330	231.103	136.622	-12.087	1.00	53.28	Al
ATOM	47070	C3'	ADE	1327	224.734	144.454	-12.814	1.00	60.81	Al6s	ATOM	47123	N9	ADE	1330	232.207	136.997	-12.822	1.00	53.28	Al
ATOM	47071	O3'	ADE	1327	224.028	145.522	-12.128	1.00	60.81	Al6s	ATOM	47124	C4	ADE	1330	233.750	137.354	-13.870	1.00	53.28	Al
ATOM	47072	P	GUA	1328	224.753	146.466	-11.017	1.00	57.86	Al6s	ATOM	47125	N3	ADE	1330	233.790	136.029	-14.344	1.00	53.28	Al
ATOM	47073	O1P	GUA	1328	225.641	147.073	-10.243	1.00	73.44	Al6s	ATOM	47126	C2	ADE	1330	234.316	138.180	-13.923	1.00	53.28	Al
ATOM	47074	O2P	GUA	1328	225.763	147.353	-11.628	1.00	73.44	Al6s	ATOM	47127	N1	ADE	1330	233.759	138.792	-12.860	1.00	53.28	Al
ATOM	47075	O5'	GUA	1328	225.471	145.437	-10.038	1.00	57.86	Al6s	ATOM	47128	C6	ADE	1330	234.304	139.929	-12.423	1.00	53.28	Al
ATOM	47076	C5'	GUA	1328	226.327	145.859	-8.973	1.00	57.86	Al6s	ATOM	47129	N6	ADE	1330	233.641	138.187	-12.272	1.00	53.28	Al
ATOM	47077	C4'	GUA	1328	227.656	145.176	-9.130	1.00	57.86	Al6s	ATOM	47130	C5	ADE	1330	231.841	138.553	-11.203	1.00	53.28	Al
ATOM	47078	O4'	GUA	1328	228.500	146.031	-9.907	1.00	57.86	Al6s	ATOM	47131	N7	ADE	1330	230.951	137.593	-11.130	1.00	53.28	Al
ATOM	47079	C1'	GUA	1328	229.791	145.513	-9.828	1.00	57.86	Al6s	ATOM	47132	C8	ADE	1330	230.841	134.138	-11.755	1.00	48.92	Al
ATOM	47080	N9	GUA	1328	230.774	146.547	-10.097	1.00	73.44	Al6s	ATOM	47133	C2'	ADE	1330	230.389	133.073	-12.557	1.00	48.92	Al
ATOM	47081	C4	GUA	1328	231.708	146.458	-11.077	1.00	73.44	Al6s	ATOM	47134	O2'	ADE	1330	230.173	134.067	-10.398	1.00	48.92	Al
ATOM	47082	N3	GUA	1328	231.893	145.393	-11.878	1.00	73.44	Al6s	ATOM	47135	C3'	ADE	1330						Al

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ATOM	47136	O3	ADE	1330	230.117	132.717	-9.980	1.00	48.92	Al6S	ATOM	47189	C2	CYT	1333	239.556	138.501	-2.894	1.00	68.90	/
ATOM	47137	P	ADE	1331	231.374	132.064	-9.229	1.00	45.44	Al6S	ATOM	47190	O2	CYT	1333	240.139	139.521	-2.503	1.00	68.90	/
ATOM	47138	O1P	ADE	1331	231.265	130.595	-9.362	1.00	54.77	Al6S	ATOM	47191	N3	CYT	1333	238.233	138.321	-2.700	1.00	68.90	/
ATOM	47139	O2P	ADE	1331	231.501	132.673	-7.885	1.00	54.77	Al6S	ATOM	47192	C4	CYT	1333	237.646	137.204	-3.122	1.00	68.90	/
ATOM	47140	O5	ADE	1331	232.635	132.518	-10.083	1.00	45.44	Al6S	ATOM	47193	N4	CYT	1333	236.341	137.071	-2.904	1.00	68.90	/
ATOM	47141	C5	ADE	1331	233.181	131.684	-11.095	1.00	45.44	Al6S	ATOM	47194	C5	CYT	1333	238.374	136.175	-3.788	1.00	68.90	/
ATOM	47142	C4	ADE	1331	234.454	132.290	-11.617	1.00	45.44	Al6S	ATOM	47195	C2	CYT	1333	242.545	137.258	-2.529	1.00	68.90	/
ATOM	47143	O4	ADE	1331	234.167	133.613	-12.166	1.00	45.44	Al6S	ATOM	47196	O2	CYT	1333	243.674	138.087	-2.399	1.00	46.31	/
ATOM	47144	C1	ADE	1331	235.191	134.519	-11.787	1.00	45.44	Al6S	ATOM	47197	C3	CYT	1333	242.927	135.858	-2.964	1.00	46.31	/
ATOM	47145	N9	ADE	1331	234.639	135.448	-10.806	1.00	54.77	Al6S	ATOM	47198	O3	CYT	1333	244.074	135.416	-2.263	1.00	46.31	/
ATOM	47146	C4	ADE	1331	235.175	136.657	-10.438	1.00	54.77	Al6S	ATOM	47199	P	GU	1334	243.936	134.226	-1.200	1.00	55.41	/
ATOM	47147	N3	ADE	1331	236.284	137.239	-10.922	1.00	54.77	Al6S	ATOM	47200	O1P	GU	1334	245.215	133.472	-1.179	1.00	64.23	/
ATOM	47148	C2	ADE	1331	236.508	138.394	-10.320	1.00	54.77	Al6S	ATOM	47201	O2P	GU	1334	242.670	133.512	-1.502	1.00	64.23	/
ATOM	47149	N1	ADE	1331	235.802	138.998	-9.364	1.00	54.77	Al6S	ATOM	47202	O5	GU	1334	243.765	134.962	0.202	1.00	55.41	/
ATOM	47150	C6	ADE	1331	234.688	138.393	-8.899	1.00	54.77	Al6S	ATOM	47203	C5	GU	1334	244.780	135.819	0.695	1.00	55.41	/
ATOM	47151	N6	ADE	1331	233.978	139.003	-7.947	1.00	54.77	Al6S	ATOM	47204	C4	GU	1334	244.192	137.144	1.123	1.00	55.41	/
ATOM	47152	C5	ADE	1331	234.345	137.150	-9.455	1.00	54.77	Al6S	ATOM	47205	O4	GU	1334	243.171	137.530	0.170	1.00	55.41	/
ATOM	47153	N7	ADE	1331	233.299	136.273	-9.212	1.00	54.77	Al6S	ATOM	47206	C1	GU	1334	242.252	138.409	0.800	1.00	55.41	/
ATOM	47154	C8	ADE	1331	233.516	135.288	-10.043	1.00	54.77	Al6S	ATOM	47207	N9	GU	1334	240.896	137.896	0.629	1.00	64.23	/
ATOM	47155	N7	ADE	1331	236.298	133.684	-11.137	1.00	45.44	Al6S	ATOM	47208	C4	GU	1334	239.739	138.508	1.055	1.00	64.23	/
ATOM	47156	O2	ADE	1331	237.274	133.271	-12.121	1.00	45.44	Al6S	ATOM	47209	N3	GU	1334	239.657	139.684	2.006	1.00	64.23	/
ATOM	47157	C3	ADE	1331	235.495	132.538	-10.542	1.00	45.44	Al6S	ATOM	47210	C2	GU	1334	238.407	139.996	2.679	1.00	64.23	/
ATOM	47158	O3	ADE	1331	236.286	131.383	-10.347	1.00	45.44	Al6S	ATOM	47211	N2	GU	1334	238.135	141.112	1.672	1.00	64.23	/
ATOM	47159	P	URI	1332	236.822	131.023	-8.877	1.00	50.35	Al6S	ATOM	47212	N1	GU	1334	237.328	139.232	0.993	1.00	64.23	/
ATOM	47160	O1P	URI	1332	237.438	129.665	-8.911	1.00	55.07	Al6S	ATOM	47213	C6	GU	1334	237.385	138.029	0.732	1.00	64.23	/
ATOM	47161	O2P	URI	1332	235.746	131.320	-7.891	1.00	55.07	Al6S	ATOM	47214	O6	GU	1334	236.346	137.434	0.684	1.00	64.23	/
ATOM	47162	O5	URI	1332	237.960	132.100	-8.616	1.00	50.35	Al6S	ATOM	47215	C5	GU	1334	238.722	137.663	0.038	1.00	64.23	/
ATOM	47163	C5	URI	1332	239.139	132.136	-9.407	1.00	50.35	Al6S	ATOM	47216	N7	GU	1334	239.224	136.541	0.025	1.00	64.23	/
ATOM	47164	C4	URI	1332	239.909	133.395	-9.111	1.00	50.35	Al6S	ATOM	47217	C8	GU	1334	240.516	136.724	2.268	1.00	55.41	/
ATOM	47165	O4	URI	1332	239.084	134.535	-9.482	1.00	50.35	Al6S	ATOM	47218	O2	GU	1334	243.517	139.607	2.420	1.00	55.41	/
ATOM	47166	C1	URI	1332	239.287	135.589	-8.560	1.00	50.35	Al6S	ATOM	47219	O2	GU	1334	243.433	137.202	3.524	1.00	55.41	/
ATOM	47167	N1	URI	1332	238.014	135.863	-7.874	1.00	55.07	Al6S	ATOM	47220	C3	GU	1334	244.320	137.337	4.990	1.00	46.29	/
ATOM	47168	C6	URI	1332	237.061	134.893	-7.705	1.00	55.07	Al6S	ATOM	47221	O3	GU	1335	243.841	136.899	5.898	1.00	64.42	/
ATOM	47169	C2	URI	1332	237.813	137.137	-7.396	1.00	55.07	Al6S	ATOM	47222	P	CYT	1335	245.021	137.026	5.898	1.00	64.42	/
ATOM	47170	O2	URI	1332	236.612	138.028	-7.547	1.00	55.07	Al6S	ATOM	47223	O1P	CYT	1335	243.143	135.591	5.380	1.00	46.29	/
ATOM	47171	N3	URI	1332	235.648	136.415	-6.738	1.00	55.07	Al6S	ATOM	47224	O2P	CYT	1335	243.773	138.019	6.454	1.00	46.29	/
ATOM	47172	O4	URI	1332	234.657	136.747	-5.876	1.00	55.07	Al6S	ATOM	47225	O5	CYT	1335	242.025	140.053	5.914	1.00	46.29	/
ATOM	47173	O4	URI	1332	235.912	135.118	-7.062	1.00	55.07	Al6S	ATOM	47226	C5	CYT	1335	241.093	140.397	5.256	1.00	64.42	/
ATOM	47174	C5	URI	1332	240.410	135.141	-7.622	1.00	50.35	Al6S	ATOM	47227	C4	CYT	1335	239.749	138.293	4.626	1.00	64.42	/
ATOM	47175	O2	URI	1332	241.651	135.502	-8.185	1.00	50.35	Al6S	ATOM	47228	O4	CYT	1335	237.653	139.256	5.870	1.00	64.42	/
ATOM	47176	C2	URI	1332	240.233	133.635	-7.646	1.00	50.35	Al6S	ATOM	47229	N1	CYT	1335	236.997	138.218	4.729	1.00	64.42	/
ATOM	47177	O3	URI	1332	241.430	132.974	-7.259	1.00	50.35	Al6S	ATOM	47230	C6	CYT	1335	237.012	136.249	3.571	1.00	64.42	/
ATOM	47178	O3	URI	1332	242.987	131.915	-5.594	1.00	68.90	Al6S	ATOM	47231	C6	CYT	1335	239.871	140.095	7.408	1.00	46.29	/
ATOM	47179	P	CYT	1333	241.720	132.694	-5.697	1.00	46.31	Al6S	ATOM	47232	C2	CYT	1335	241.161	139.292	7.444	1.00	46.29	/
ATOM	47180	O1P	CYT	1333	242.987	131.915	-5.594	1.00	68.90	Al6S	ATOM	47233	O2	CYT	1335	241.725	139.273	8.735	1.00	46.29	/
ATOM	47181	O2P	CYT	1333	240.487	132.161	-5.064	1.00	68.90	Al6S	ATOM	47234	N3	CYT	1335	237.688	137.248	4.124	1.00	64.42	/
ATOM	47182	O5	CYT	1333	241.952	134.151	-5.104	1.00	46.31	Al6S	ATOM	47235	C4	CYT	1335	239.111	137.263	7.408	1.00	46.29	/
ATOM	47183	C5	CYT	1333	243.179	134.837	-5.304	1.00	46.31	Al6S	ATOM	47236	N4	CYT	1335	239.926	141.304	8.135	1.00	46.29	/
ATOM	47184	C4	CYT	1333	243.227	136.073	-4.439	1.00	46.31	Al6S	ATOM	47237	C5	CYT	1335	241.161	139.292	8.735	1.00	46.29	/
ATOM	47185	O4	CYT	1333	242.186	136.997	-4.858	1.00	46.31	Al6S	ATOM	47238	C2	CYT	1335	241.161	139.292	8.735	1.00	46.29	/
ATOM	47186	C1	CYT	1333	241.735	137.736	-3.733	1.00	46.31	Al6S	ATOM	47239	O2	CYT	1335	241.161	139.292	8.735	1.00	46.29	/
ATOM	47187	N1	CYT	1333	240.294	137.515	-3.545	1.00	68.90	Al6S	ATOM	47240	C3	CYT	1335	241.161	139.292	8.735	1.00	46.29	/
ATOM	47188	C6	CYT	1333	239.685	136.372	-3.980	1.00	68.90	Al6S	ATOM	47241	O3	CYT	1335	241.161	139.292	8.735	1.00	46.29	/

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ATOM	47242	P	GUA	1336	241.254	138.152	9.782	1.00	56.02	Al6S	ATOM	47295	C1'	ADE	1338	229.455	133.748	16.278	1.00	60.32	Al
ATOM	47243	O1P	GUA	1336	242.200	138.152	10.924	1.00	80.40	Al6S	ATOM	47296	N9	ADE	1338	230.651	133.227	15.619	1.00	72.65	Al
ATOM	47244	O2P	GUA	1336	241.026	136.891	9.034	1.00	80.40	Al6S	ATOM	47297	C4	ADE	1338	230.684	132.230	14.678	1.00	72.65	Al
ATOM	47245	O5'	GUA	1336	239.844	138.695	10.291	1.00	56.02	Al6S	ATOM	47298	N3	ADE	1338	229.642	131.551	14.178	1.00	72.65	Al
ATOM	47246	C5'	GUA	1336	239.716	139.980	10.886	1.00	56.02	Al6S	ATOM	47299	C2	ADE	1338	230.053	130.654	13.296	1.00	72.65	Al
ATOM	47247	C4'	GUA	1336	238.267	140.248	11.242	1.00	56.02	Al6S	ATOM	47300	N1	ADE	1338	231.290	130.379	12.886	1.00	72.65	Al
ATOM	47248	O4'	GUA	1336	237.464	140.295	10.031	1.00	56.02	Al6S	ATOM	47301	C6	ADE	1338	232.314	131.080	13.404	1.00	72.65	Al
ATOM	47249	C1'	GUA	1336	236.173	139.757	10.290	1.00	56.02	Al6S	ATOM	47302	N6	ADE	1338	233.547	130.804	12.986	1.00	72.65	Al
ATOM	47250	N9	GUA	1336	236.002	138.557	9.475	1.00	80.40	Al6S	ATOM	47303	C5	ADE	1338	232.014	132.062	14.352	1.00	72.65	Al
ATOM	47251	C4	GUA	1336	234.835	137.853	9.280	1.00	80.40	Al6S	ATOM	47304	N7	ADE	1338	232.809	132.944	15.066	1.00	72.65	Al
ATOM	47252	N3	GUA	1336	233.631	138.150	9.805	1.00	80.40	Al6S	ATOM	47305	C8	ADE	1338	231.954	130.611	15.800	1.00	72.65	Al
ATOM	47253	C2	GUA	1336	232.704	137.284	9.436	1.00	80.40	Al6S	ATOM	47306	C2'	ADE	1338	229.080	133.034	17.582	1.00	60.32	Al
ATOM	47254	N2	GUA	1336	231.447	137.423	9.868	1.00	80.40	Al6S	ATOM	47307	O2'	ADE	1338	227.677	133.055	17.733	1.00	60.32	Al
ATOM	47255	N1	GUA	1336	232.936	136.215	8.618	1.00	80.40	Al6S	ATOM	47308	C3'	ADE	1338	229.737	133.920	18.627	1.00	60.32	Al
ATOM	47256	C6	GUA	1336	234.164	135.886	8.064	1.00	80.40	Al6S	ATOM	47309	O3'	ADE	1338	228.965	133.888	19.820	1.00	60.32	Al
ATOM	47257	O6	GUA	1336	234.261	134.892	7.336	1.00	80.40	Al6S	ATOM	47310	P	URI	1339	229.636	133.470	21.217	1.00	56.71	Al
ATOM	47258	C5	GUA	1336	235.174	136.808	8.453	1.00	80.40	Al6S	ATOM	47311	O1P	URI	1339	228.607	133.798	22.229	1.00	68.36	Al
ATOM	47259	N7	GUA	1336	236.525	136.852	8.131	1.00	80.40	Al6S	ATOM	47312	O2P	URI	1339	230.995	134.060	21.326	1.00	68.36	Al
ATOM	47260	C8	GUA	1336	236.972	137.905	8.756	1.00	80.40	Al6S	ATOM	47313	O5'	URI	1339	229.776	131.891	21.151	1.00	56.71	Al
ATOM	47261	C2'	GUA	1336	236.113	139.448	11.784	1.00	56.02	Al6S	ATOM	47314	C5'	URI	1339	228.629	131.075	21.006	1.00	56.71	Al
ATOM	47262	O2'	GUA	1336	235.609	140.567	12.477	1.00	56.02	Al6S	ATOM	47315	C4'	URI	1339	229.024	129.747	20.433	1.00	56.71	Al
ATOM	47263	C3'	GUA	1336	237.579	139.191	12.089	1.00	56.02	Al6S	ATOM	47316	O4'	URI	1339	229.548	129.927	19.102	1.00	56.71	Al
ATOM	47264	O3'	GUA	1336	237.834	139.401	13.460	1.00	56.02	Al6S	ATOM	47317	C1'	URI	1339	230.377	128.825	18.805	1.00	56.71	Al
ATOM	47265	P	GUA	1337	237.671	138.187	14.488	1.00	70.94	Al6S	ATOM	47318	N1	URI	1339	231.499	129.247	17.958	1.00	68.36	Al
ATOM	47266	O1P	GUA	1337	238.133	138.672	15.811	1.00	80.43	Al6S	ATOM	47319	C6	URI	1339	232.117	130.467	18.107	1.00	68.36	Al
ATOM	47267	O2P	GUA	1337	238.296	136.981	13.889	1.00	80.43	Al6S	ATOM	47320	C2	URI	1339	231.922	128.345	17.006	1.00	68.36	Al
ATOM	47268	O5'	GUA	1337	236.097	137.963	14.571	1.00	70.94	Al6S	ATOM	47321	O3	URI	1339	231.375	127.278	16.822	1.00	68.36	Al
ATOM	47269	C5'	GUA	1337	235.216	139.020	14.948	1.00	70.94	Al6S	ATOM	47322	N3	URI	1339	233.008	128.739	16.276	1.00	68.36	Al
ATOM	47270	C4'	GUA	1337	233.788	138.532	14.924	1.00	70.94	Al6S	ATOM	47323	C4	URI	1339	233.692	129.924	16.385	1.00	68.36	Al
ATOM	47271	O4'	GUA	1337	233.415	138.214	13.560	1.00	70.94	Al6S	ATOM	47324	O4	URI	1339	234.705	130.091	15.709	1.00	68.36	Al
ATOM	47272	C1'	GUA	1337	232.515	137.074	13.552	1.00	70.94	Al6S	ATOM	47325	C5	URI	1339	233.172	130.829	17.371	1.00	68.36	Al
ATOM	47273	N9	GUA	1337	233.228	136.026	12.778	1.00	80.43	Al6S	ATOM	47326	C2'	URI	1339	230.772	128.145	20.121	1.00	56.71	Al
ATOM	47274	C4	GUA	1337	232.607	135.004	12.106	1.00	80.43	Al6S	ATOM	47327	O2'	URI	1339	230.246	126.838	20.176	1.00	56.71	Al
ATOM	47275	N3	GUA	1337	231.276	134.807	12.019	1.00	80.43	Al6S	ATOM	47328	C3'	URI	1339	230.154	129.060	21.176	1.00	56.71	Al
ATOM	47276	C2	GUA	1337	230.982	133.726	11.325	1.00	80.43	Al6S	ATOM	47329	O3'	URI	1339	229.591	128.261	22.204	1.00	56.71	Al
ATOM	47277	N2	GUA	1337	229.708	133.379	11.150	1.00	80.43	Al6S	ATOM	47330	P	CYT	1340	230.191	128.322	23.686	1.00	63.39	Al
ATOM	47278	N1	GUA	1337	231.919	132.904	10.758	1.00	80.43	Al6S	ATOM	47331	O1P	CYT	1340	229.712	127.129	24.438	1.00	48.05	Al
ATOM	47279	C6	GUA	1337	233.296	133.087	10.838	1.00	80.43	Al6S	ATOM	47332	O2P	CYT	1340	229.898	129.681	24.196	1.00	48.05	Al
ATOM	47280	O6	GUA	1337	234.059	132.276	10.304	1.00	80.43	Al6S	ATOM	47333	O5'	CYT	1340	231.754	128.136	23.473	1.00	63.39	Al
ATOM	47281	C5	GUA	1337	233.624	134.245	11.576	1.00	80.43	Al6S	ATOM	47334	C5'	CYT	1340	232.295	126.842	23.271	1.00	63.39	Al
ATOM	47282	N7	GUA	1337	234.860	134.790	11.889	1.00	80.43	Al6S	ATOM	47335	C4'	CYT	1340	233.710	126.945	22.774	1.00	63.39	Al
ATOM	47283	C8	GUA	1337	234.575	135.847	12.597	1.00	80.43	Al6S	ATOM	47336	O4'	CYT	1340	233.723	127.672	21.521	1.00	63.39	Al
ATOM	47284	C2'	GUA	1337	232.342	136.648	15.004	1.00	70.94	Al6S	ATOM	47337	C1'	CYT	1340	234.922	128.419	21.416	1.00	63.39	Al
ATOM	47285	O2'	GUA	1337	231.116	137.142	15.493	1.00	70.94	Al6S	ATOM	47338	N1	CYT	1340	234.561	129.825	21.235	1.00	48.05	Al
ATOM	47286	C3'	GUA	1337	233.547	137.251	15.706	1.00	70.94	Al6S	ATOM	47339	C6	CYT	1340	233.435	130.346	21.806	1.00	48.05	Al
ATOM	47287	O3'	GUA	1337	233.229	137.558	17.053	1.00	70.94	Al6S	ATOM	47340	C2	CYT	1340	235.369	130.613	20.436	1.00	48.05	Al
ATOM	47288	P	ADE	1338	233.327	136.420	18.180	1.00	60.32	Al6S	ATOM	47341	O2	CYT	1340	236.409	130.114	19.964	1.00	48.05	Al
ATOM	47289	O1P	ADE	1338	233.295	137.136	19.474	1.00	72.65	Al6S	ATOM	47342	N3	CYT	1340	235.007	131.891	20.183	1.00	48.05	Al
ATOM	47290	O2P	ADE	1338	234.434	135.480	17.882	1.00	72.65	Al6S	ATOM	47343	C4	CYT	1340	233.880	132.380	20.702	1.00	48.05	Al
ATOM	47291	O5'	ADE	1338	231.962	135.627	18.064	1.00	60.32	Al6S	ATOM	47344	N4	CYT	1340	233.530	133.628	20.374	1.00	48.05	Al
ATOM	47292	C5'	ADE	1338	230.724	136.231	18.405	1.00	60.32	Al6S	ATOM	47345	C5	CYT	1340	233.056	131.608	21.566	1.00	48.05	Al
ATOM	47293	C4'	ADE	1338	229.605	135.307	18.014	1.00	60.32	Al6S	ATOM	47346	C2'	CYT	1340	235.745	128.116	22.661	1.00	63.39	Al
ATOM	47294	O4'	ADE	1338	229.674	135.108	16.579	1.00	60.32	Al6S	ATOM	47347	O2'	CYT	1340	236.566	127.004	22.363	1.00	63.39	Al

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ATOM	47348	C3' CYT	1340	234.647	127.751	23.648	1.00	63.39	Al6S	ATOM	47401	O4' CYT	1343	241.366	122.809	18.129	1.00	61.71	/
ATOM	47349	O3' CYT	1340	235.128	126.939	24.700	1.00	63.39	Al6S	ATOM	47402	C1' CYT	1343	240.138	122.311	17.620	1.00	61.71	/
ATOM	47350	P ADE	1341	235.638	127.627	26.054	1.00	67.36	Al6S	ATOM	47403	N1 CYT	1343	239.040	122.985	18.332	1.00	62.74	/
ATOM	47351	O1P ADE	1341	234.681	128.710	26.416	1.00	65.32	Al6S	ATOM	47404	C6 CYT	1343	239.134	124.303	18.676	1.00	62.74	/
ATOM	47352	O2P ADE	1341	235.903	126.515	27.007	1.00	65.32	Al6S	ATOM	47405	C2 CYT	1343	237.903	122.260	18.647	1.00	62.74	/
ATOM	47353	O5' ADE	1341	237.020	128.299	25.628	1.00	67.36	Al6S	ATOM	47406	O2 CYT	1343	237.849	121.072	18.319	1.00	62.74	/
ATOM	47354	C5' ADE	1341	237.820	129.017	26.564	1.00	67.36	Al6S	ATOM	47407	N3 CYT	1343	236.888	122.866	19.300	1.00	62.74	/
ATOM	47355	O4' ADE	1341	239.184	128.373	26.685	1.00	67.36	Al6S	ATOM	47408	C4 CYT	1343	236.984	124.153	19.631	1.00	62.74	/
ATOM	47356	O4' ADE	1341	239.063	127.098	27.361	1.00	67.36	Al6S	ATOM	47409	N4 CYT	1343	235.957	124.717	20.275	1.00	62.74	/
ATOM	47357	C1' ADE	1341	240.100	126.239	26.927	1.00	67.36	Al6S	ATOM	47410	C5 CYT	1343	238.138	124.922	19.319	1.00	62.74	/
ATOM	47358	N9 ADE	1341	239.510	124.956	26.562	1.00	65.32	Al6S	ATOM	47411	C2' CYT	1343	240.133	122.596	16.114	1.00	61.71	/
ATOM	47359	C4 ADE	1341	240.189	123.825	26.188	1.00	65.32	Al6S	ATOM	47412	O2' CYT	1343	240.706	122.512	15.411	1.00	61.71	/
ATOM	47360	N3 ADE	1341	241.513	123.687	26.036	1.00	65.32	Al6S	ATOM	47413	C3' CYT	1343	241.035	123.816	16.036	1.00	61.71	/
ATOM	47361	C2 ADE	1341	241.814	122.439	25.698	1.00	65.32	Al6S	ATOM	47414	O3' CYT	1343	241.588	123.952	14.734	1.00	61.71	/
ATOM	47362	N1 ADE	1341	241.002	121.391	25.514	1.00	65.32	Al6S	ATOM	47415	P CYT	1344	240.658	124.459	13.519	1.00	50.39	/
ATOM	47363	C6 ADE	1341	239.676	121.567	25.576	1.00	65.32	Al6S	ATOM	47416	O1P CYT	1344	241.430	125.341	12.596	1.00	58.96	/
ATOM	47364	N6 ADE	1341	238.864	120.517	25.507	1.00	65.32	Al6S	ATOM	47417	O2P CYT	1344	239.386	124.945	14.095	1.00	58.96	/
ATOM	47365	C5 ADE	1341	239.229	122.847	26.022	1.00	65.32	Al6S	ATOM	47418	O5' CYT	1344	240.363	123.126	12.718	1.00	50.39	/
ATOM	47366	N7 ADE	1341	237.963	123.359	26.250	1.00	65.32	Al6S	ATOM	47419	C5' CYT	1344	239.098	122.530	12.798	1.00	50.39	/
ATOM	47367	C8 ADE	1341	238.184	124.615	26.559	1.00	65.32	Al6S	ATOM	47420	O4' CYT	1344	239.141	121.150	12.217	1.00	50.39	/
ATOM	47368	C2' ADE	1341	240.856	126.939	25.799	1.00	67.36	Al6S	ATOM	47421	C4' CYT	1344	240.069	120.345	12.982	1.00	50.39	/
ATOM	47369	O2' ADE	1341	242.059	127.465	26.307	1.00	67.36	Al6S	ATOM	47422	C1' CYT	1344	239.673	118.990	12.921	1.00	50.39	/
ATOM	47370	C3' ADE	1341	239.860	128.012	25.378	1.00	67.36	Al6S	ATOM	47423	N1 CYT	1344	239.540	118.460	14.282	1.00	58.96	/
ATOM	47371	O3' ADE	1341	240.507	129.131	24.803	1.00	67.36	Al6S	ATOM	47424	C6 CYT	1344	238.892	119.155	15.266	1.00	58.96	/
ATOM	47372	P GUA	1342	240.524	129.282	23.210	1.00	53.05	Al6S	ATOM	47425	C2 CYT	1344	240.054	117.200	14.538	1.00	58.96	/
ATOM	47373	O1P GUA	1342	241.419	130.401	22.821	1.00	57.60	Al6S	ATOM	47426	O2 CYT	1344	240.697	116.631	13.640	1.00	58.96	/
ATOM	47374	O2P GUA	1342	239.105	129.304	22.774	1.00	57.60	Al6S	ATOM	47427	N3 CYT	1344	239.851	116.631	15.749	1.00	58.96	/
ATOM	47375	O5' GUA	1342	241.207	127.920	22.745	1.00	53.05	Al6S	ATOM	47428	C4 CYT	1344	239.180	117.293	16.692	1.00	58.96	/
ATOM	47376	C5' GUA	1342	242.610	127.745	22.858	1.00	53.05	Al6S	ATOM	47429	N4 CYT	1344	238.962	116.674	17.854	1.00	58.96	/
ATOM	47377	C4' GUA	1342	243.013	126.383	22.353	1.00	53.05	Al6S	ATOM	47430	C5 CYT	1344	238.690	118.613	16.477	1.00	58.96	/
ATOM	47378	O4' GUA	1342	242.523	125.358	23.252	1.00	53.05	Al6S	ATOM	47431	C2' CYT	1344	238.346	118.939	12.163	1.00	50.39	/
ATOM	47379	C1' GUA	1342	242.120	124.223	22.509	1.00	53.05	Al6S	ATOM	47432	O2' CYT	1344	238.573	118.566	10.833	1.00	50.39	/
ATOM	47380	N9 GUA	1342	240.674	124.117	22.647	1.00	57.60	Al6S	ATOM	47433	C3' CYT	1344	237.859	120.364	12.354	1.00	50.39	/
ATOM	47381	C4 GUA	1342	239.921	122.974	22.592	1.00	57.60	Al6S	ATOM	47434	O3' CYT	1344	236.780	120.870	11.566	1.00	50.39	/
ATOM	47382	N3 GUA	1342	240.387	121.729	22.392	1.00	57.60	Al6S	ATOM	47435	P ADE	1345	236.993	121.252	10.031	1.00	61.77	/
ATOM	47383	C2 GUA	1342	239.416	120.838	22.380	1.00	57.60	Al6S	ATOM	47436	O1P ADE	1345	235.621	121.430	9.531	1.00	74.56	/
ATOM	47384	N2 GUA	1342	239.691	119.545	22.165	1.00	57.60	Al6S	ATOM	47437	O2P ADE	1345	237.902	120.291	9.371	1.00	74.56	/
ATOM	47385	N1 GUA	1342	238.101	121.147	22.573	1.00	57.60	Al6S	ATOM	47438	O5' ADE	1345	237.660	122.701	10.021	1.00	61.77	/
ATOM	47386	C6 GUA	1342	237.605	122.423	22.791	1.00	57.60	Al6S	ATOM	47439	C5' ADE	1345	238.070	123.313	8.784	1.00	61.77	/
ATOM	47387	O6 GUA	1342	236.400	122.589	22.968	1.00	57.60	Al6S	ATOM	47440	C4' ADE	1345	237.678	124.771	8.774	1.00	61.77	/
ATOM	47388	C5 GUA	1342	238.624	123.383	22.781	1.00	57.60	Al6S	ATOM	47441	O4' ADE	1345	236.301	124.828	9.162	1.00	61.77	/
ATOM	47389	N7 GUA	1342	238.557	124.758	22.941	1.00	57.60	Al6S	ATOM	47442	C1' ADE	1345	236.093	125.893	10.049	1.00	61.77	/
ATOM	47390	C8 GUA	1342	239.795	125.151	22.857	1.00	57.60	Al6S	ATOM	47443	N9 ADE	1345	235.234	125.410	11.123	1.00	74.56	/
ATOM	47391	C2' GUA	1342	242.535	124.478	21.060	1.00	53.05	Al6S	ATOM	47444	C4 ADE	1345	234.734	126.128	12.175	1.00	74.56	/
ATOM	47392	O2' GUA	1342	243.847	124.013	20.841	1.00	53.05	Al6S	ATOM	47445	N3 ADE	1345	234.958	127.419	12.457	1.00	74.56	/
ATOM	47393	C3' GUA	1342	242.464	125.993	20.997	1.00	53.05	Al6S	ATOM	47446	C2 ADE	1345	234.306	127.773	13.555	1.00	74.56	/
ATOM	47394	O3' GUA	1342	243.281	126.500	19.961	1.00	53.05	Al6S	ATOM	47447	N1 ADE	1345	233.511	127.040	14.339	1.00	74.56	/
ATOM	47395	P CYT	1343	242.598	127.026	18.615	1.00	61.71	Al6S	ATOM	47448	C6 ADE	1345	233.304	125.744	14.019	1.00	74.56	/
ATOM	47396	O1P CYT	1343	243.651	127.565	17.711	1.00	62.74	Al6S	ATOM	47449	N6 ADE	1345	232.500	125.009	14.790	1.00	74.56	/
ATOM	47397	O2P CYT	1343	241.468	127.898	19.023	1.00	62.74	Al6S	ATOM	47450	C5 ADE	1345	233.946	125.247	12.887	1.00	74.56	/
ATOM	47398	O5' CYT	1343	242.019	125.689	17.971	1.00	61.71	Al6S	ATOM	47451	N7 ADE	1345	233.960	123.989	12.302	1.00	74.56	/
ATOM	47399	C5' CYT	1343	242.887	124.621	17.625	1.00	61.71	Al6S	ATOM	47452	C8 ADE	1345	234.739	124.138	11.264	1.00	74.56	/
ATOM	47400	C4' CYT	1343	242.037	123.469	17.065	1.00	61.71	Al6S	ATOM	47453	C2' ADE	1345	237.431	126.544	10.422	1.00	61.77	/

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ATOM	47454	O2	ADE	1345	237.475	127.901	10.002	1.00	61.77	A16S	ATOM	47507	C1	CYT	1348	228.284	128.938	8.121	1.00	44.71	A1
ATOM	47455	C3	ADE	1345	238.471	125.642	9.742	1.00	61.77	A16S	ATOM	47508	N1	CYT	1348	229.677	129.404	7.992	1.00	62.42	A1
ATOM	47456	O3	ADE	1345	239.367	126.517	9.022	1.00	61.77	A16S	ATOM	47509	C6	CYT	1348	230.461	128.986	6.954	1.00	62.42	A1
ATOM	47457	P	URI	1346	239.920	126.125	7.547	1.00	65.38	A16S	ATOM	47510	C2	CYT	1348	230.179	130.299	8.937	1.00	62.42	A1
ATOM	47458	O1P	URI	1346	240.716	127.274	7.076	1.00	57.10	A16S	ATOM	47511	O2	CYT	1348	229.467	130.627	9.878	1.00	62.42	A1
ATOM	47459	O2P	URI	1346	240.534	124.777	7.607	1.00	57.10	A16S	ATOM	47512	N3	CYT	1348	231.430	130.779	8.800	1.00	62.42	A1
ATOM	47460	O5	URI	1346	238.656	126.090	6.578	1.00	65.38	A16S	ATOM	47513	C4	CYT	1348	232.181	130.384	7.774	1.00	62.42	A1
ATOM	47461	C5	URI	1346	238.660	126.796	5.328	1.00	65.38	A16S	ATOM	47514	N4	CYT	1348	233.402	130.893	7.667	1.00	62.42	A1
ATOM	47462	C4	URI	1346	238.084	125.923	4.236	1.00	65.38	A16S	ATOM	47515	C5	CYT	1348	231.708	129.449	6.808	1.00	62.42	A1
ATOM	47463	O4	URI	1346	239.039	124.914	3.895	1.00	65.38	A16S	ATOM	47516	C2	CYT	1348	227.271	129.875	7.446	1.00	44.71	A1
ATOM	47464	C1	URI	1346	238.387	123.697	3.640	1.00	65.38	A16S	ATOM	47517	O2	CYT	1348	226.030	129.821	8.112	1.00	44.71	A1
ATOM	47465	N1	URI	1346	239.221	122.637	4.216	1.00	57.10	A16S	ATOM	47518	C3	CYT	1348	227.150	129.252	6.069	1.00	44.71	A1
ATOM	47466	C6	URI	1346	240.043	122.914	5.260	1.00	57.10	A16S	ATOM	47519	O3	CYT	1348	225.881	129.537	5.531	1.00	44.71	A1
ATOM	47467	C2	URI	1346	239.190	121.379	3.647	1.00	57.10	A16S	ATOM	47520	P	CYT	1349	225.617	130.941	4.817	1.00	44.60	A1
ATOM	47468	O2	URI	1346	238.442	121.076	2.742	1.00	57.10	A16S	ATOM	47521	O1P	CYT	1349	224.181	130.974	4.432	1.00	66.75	A1
ATOM	47469	N3	URI	1346	240.079	120.488	4.178	1.00	57.10	A16S	ATOM	47522	O2P	CYT	1349	226.658	131.147	3.789	1.00	66.75	A1
ATOM	47470	C4	URI	1346	240.973	120.724	5.197	1.00	57.10	A16S	ATOM	47523	O5	CYT	1349	225.846	132.003	5.976	1.00	44.60	A1
ATOM	47471	O4	URI	1346	241.839	119.884	5.453	1.00	57.10	A16S	ATOM	47524	C5	CYT	1349	224.812	132.292	6.920	1.00	44.60	A1
ATOM	47472	C5	URI	1346	240.899	122.030	5.755	1.00	57.10	A16S	ATOM	47525	C4	CYT	1349	225.180	133.500	8.539	1.00	44.60	A1
ATOM	47473	C2	URI	1346	236.909	123.806	4.032	1.00	65.38	A16S	ATOM	47526	O4	CYT	1349	226.355	133.199	8.539	1.00	44.60	A1
ATOM	47474	O2	URI	1346	236.089	123.576	2.920	1.00	65.38	A16S	ATOM	47527	C1	CYT	1349	227.169	134.358	8.628	1.00	44.60	A1
ATOM	47475	C3	URI	1346	236.819	125.202	4.648	1.00	65.38	A16S	ATOM	47528	N1	CYT	1349	228.470	134.062	8.032	1.00	66.75	A1
ATOM	47476	C3	URI	1346	235.694	126.050	4.352	1.00	65.38	A16S	ATOM	47529	C6	CYT	1349	228.676	132.919	7.317	1.00	66.75	A1
ATOM	47477	P	URI	1347	234.935	125.993	2.921	1.00	41.30	A16S	ATOM	47530	C2	CYT	1349	229.500	134.971	8.215	1.00	66.75	A1
ATOM	47478	O1P	GUA	1347	235.852	125.524	1.873	1.00	63.37	A16S	ATOM	47531	O2	CYT	1349	229.270	136.001	8.851	1.00	66.75	A1
ATOM	47479	O2P	GUA	1347	234.251	127.302	2.753	1.00	63.37	A16S	ATOM	47532	N3	CYT	1349	230.716	134.713	7.693	1.00	66.75	A1
ATOM	47480	O5	GUA	1347	233.798	124.913	3.178	1.00	41.30	A16S	ATOM	47533	C4	CYT	1349	230.915	133.594	7.000	1.00	66.75	A1
ATOM	47481	C5	GUA	1347	233.666	124.322	4.463	1.00	41.30	A16S	ATOM	47534	N4	CYT	1349	232.131	133.377	6.500	1.00	66.75	A1
ATOM	47482	C4	GUA	1347	232.221	124.287	4.904	1.00	41.30	A16S	ATOM	47535	C5	CYT	1349	229.874	132.647	6.789	1.00	66.75	A1
ATOM	47483	O4	GUA	1347	232.238	123.886	6.303	1.00	41.30	A16S	ATOM	47536	C2	CYT	1349	226.463	135.488	7.884	1.00	44.60	A1
ATOM	47484	C1	GUA	1347	231.468	124.790	7.069	1.00	41.30	A16S	ATOM	47537	O2	CYT	1349	225.732	136.278	8.794	1.00	44.60	A1
ATOM	47485	N9	GUA	1347	232.384	125.735	7.707	1.00	63.37	A16S	ATOM	47538	C3	CYT	1349	225.593	134.704	6.915	1.00	44.60	A1
ATOM	47486	C4	GUA	1347	232.127	126.523	8.804	1.00	63.37	A16S	ATOM	47539	O3	CYT	1349	224.579	135.462	6.488	1.00	44.60	A1
ATOM	47487	N3	GUA	1347	230.984	126.541	9.519	1.00	63.37	A16S	ATOM	47540	P	GUA	1350	224.591	136.313	5.142	1.00	47.99	A1
ATOM	47488	C2	GUA	1347	231.028	127.428	10.495	1.00	63.37	A16S	ATOM	47541	O1P	GUA	1350	223.334	137.097	4.975	1.00	66.32	A1
ATOM	47489	N2	GUA	1347	229.979	127.573	11.314	1.00	63.37	A16S	ATOM	47542	O2P	GUA	1350	225.019	135.369	4.083	1.00	66.32	A1
ATOM	47490	N1	GUA	1347	232.104	128.237	10.742	1.00	63.37	A16S	ATOM	47543	O5	GUA	1350	225.810	137.308	5.395	1.00	47.99	A1
ATOM	47491	C6	GUA	1347	233.287	128.237	10.019	1.00	63.37	A16S	ATOM	47544	C5	GUA	1350	225.689	138.393	6.303	1.00	47.99	A1
ATOM	47492	O6	GUA	1347	234.188	129.016	10.321	1.00	63.37	A16S	ATOM	47545	C4	GUA	1350	227.045	139.016	6.608	1.00	47.99	A1
ATOM	47493	C5	GUA	1347	233.259	127.284	8.979	1.00	63.37	A16S	ATOM	47546	O4	GUA	1350	228.009	137.992	6.985	1.00	47.99	A1
ATOM	47494	N7	GUA	1347	234.218	126.964	8.030	1.00	63.37	A16S	ATOM	47547	C1	GUA	1350	229.308	138.540	6.878	1.00	47.99	A1
ATOM	47495	C8	GUA	1347	233.660	126.039	7.305	1.00	63.37	A16S	ATOM	47548	N9	GUA	1350	230.190	137.640	6.144	1.00	66.32	A1
ATOM	47496	C2	GUA	1347	230.559	125.500	6.070	1.00	41.30	A16S	ATOM	47549	C4	GUA	1350	231.540	137.831	6.001	1.00	66.32	A1
ATOM	47497	O2	GUA	1347	229.486	124.666	5.712	1.00	41.30	A16S	ATOM	47550	N3	GUA	1350	232.245	138.869	6.508	1.00	66.32	A1
ATOM	47498	C3	GUA	1347	231.467	125.619	4.868	1.00	41.30	A16S	ATOM	47551	C2	GUA	1350	233.523	138.795	6.203	1.00	66.32	A1
ATOM	47499	O3	GUA	1347	230.647	125.715	3.703	1.00	41.30	A16S	ATOM	47552	N2	GUA	1350	234.354	139.756	6.620	1.00	66.32	A1
ATOM	47500	P	CYT	1348	229.687	127.000	3.481	1.00	44.71	A16S	ATOM	47553	N1	GUA	1350	234.078	137.776	5.465	1.00	66.32	A1
ATOM	47501	O1P	CYT	1348	228.536	126.584	2.631	1.00	62.42	A16S	ATOM	47554	C6	GUA	1350	233.376	136.695	4.936	1.00	66.32	A1
ATOM	47502	O2P	CYT	1348	230.511	128.161	3.065	1.00	62.42	A16S	ATOM	47555	O6	GUA	1350	233.979	135.830	4.291	1.00	66.32	A1
ATOM	47503	O5	CYT	1348	229.077	127.319	4.917	1.00	44.71	A16S	ATOM	47556	C5	GUA	1350	231.987	136.768	5.250	1.00	66.32	A1
ATOM	47504	C5	CYT	1348	227.746	126.922	5.254	1.00	44.71	A16S	ATOM	47557	N7	GUA	1350	230.934	135.921	4.919	1.00	66.32	A1
ATOM	47505	C4	CYT	1348	227.231	127.768	6.382	1.00	44.71	A16S	ATOM	47558	C8	GUA	1350	229.888	136.480	5.471	1.00	66.32	A1
ATOM	47506	O4	CYT	1348	228.176	127.675	7.481	1.00	44.71	A16S	ATOM	47559	C2	GUA	1350	229.168	139.885	6.170	1.00	47.99	A1

ATOM	47560	O2' GUA	1350	229.148	140.917	7.132	1.00	47.99	Al6S	ATOM	47613	C1' GUA	1353	239.477	144.705	-3.293	1.00	52.03	ATOM
ATOM	47561	C3' GUA	1350	227.808	139.746	5.515	1.00	47.99	Al6S	ATOM	47614	N9 GUA	1353	238.477	143.681	-3.579	1.00	83.30	ATOM
ATOM	47562	O3' GUA	1350	227.327	141.056	5.245	1.00	47.99	Al6S	ATOM	47615	C4 GUA	1353	238.675	142.532	-4.302	1.00	83.30	ATOM
ATOM	47563	P	1351	227.924	141.863	3.987	1.00	47.40	Al6S	ATOM	47616	N3 GUA	1353	239.832	142.150	-4.877	1.00	83.30	ATOM
ATOM	47564	O1P	1351	227.243	143.181	3.881	1.00	73.01	Al6S	ATOM	47617	C2 GUA	1353	239.715	140.989	-5.491	1.00	83.30	ATOM
ATOM	47565	O2P	1351	227.919	140.939	2.821	1.00	73.01	Al6S	ATOM	47618	N2 GUA	1353	240.773	140.450	-6.101	1.00	83.30	ATOM
ATOM	47566	O5' CYT	1351	229.443	142.125	4.391	1.00	47.40	Al6S	ATOM	47619	N1 GUA	1353	238.554	140.265	-5.549	1.00	83.30	ATOM
ATOM	47567	C5' CYT	1351	229.784	143.106	5.369	1.00	47.40	Al6S	ATOM	47620	C6 GUA	1353	237.348	140.642	-4.971	1.00	83.30	ATOM
ATOM	47568	C4' CYT	1351	231.206	143.581	5.166	1.00	47.40	Al6S	ATOM	47621	O6 GUA	1353	236.353	139.912	-5.087	1.00	83.30	ATOM
ATOM	47569	O4' CYT	1351	232.131	142.507	5.472	1.00	47.40	Al6S	ATOM	47622	C5 GUA	1353	237.461	141.883	-4.297	1.00	83.30	ATOM
ATOM	47570	C1' CYT	1351	233.266	142.607	4.631	1.00	47.40	Al6S	ATOM	47623	N7 GUA	1353	236.517	142.609	-3.588	1.00	83.30	ATOM
ATOM	47571	N1 CYT	1351	233.373	141.369	3.863	1.00	73.01	Al6S	ATOM	47624	C8 GUA	1353	237.163	143.668	-3.182	1.00	83.30	ATOM
ATOM	47572	C6 CYT	1351	232.280	140.580	3.661	1.00	73.01	Al6S	ATOM	47625	C2' GUA	1353	239.959	145.450	-4.537	1.00	52.03	ATOM
ATOM	47573	C2 CYT	1351	234.602	141.021	3.321	1.00	73.01	Al6S	ATOM	47626	O2' GUA	1353	241.337	145.709	-4.399	1.00	52.03	ATOM
ATOM	47574	O2 CYT	1351	235.581	141.737	3.553	1.00	73.01	Al6S	ATOM	47627	C3' GUA	1353	239.112	146.714	-4.482	1.00	52.03	ATOM
ATOM	47575	N3 CYT	1351	233.619	139.156	2.563	1.00	73.01	Al6S	ATOM	47628	O3' GUA	1353	239.761	147.781	-5.139	1.00	52.03	ATOM
ATOM	47576	C4 CYT	1351	233.619	139.156	2.563	1.00	73.01	Al6S	ATOM	47629	P	1354	239.156	148.336	-6.503	1.00	53.41	ATOM
ATOM	47577	N4 CYT	1351	233.752	138.077	1.593	1.00	73.01	Al6S	ATOM	47630	O1P	1354	239.917	149.541	-6.902	1.00	82.44	ATOM
ATOM	47578	C5 CYT	1351	232.358	139.476	2.921	1.00	73.01	Al6S	ATOM	47631	O2P	1354	237.683	148.423	-6.339	1.00	82.44	ATOM
ATOM	47579	C2' CYT	1351	233.057	143.814	3.710	1.00	47.40	Al6S	ATOM	47632	O5' URI	1354	239.479	147.167	-7.526	1.00	53.41	ATOM
ATOM	47580	O2' CYT	1351	233.057	143.814	3.710	1.00	47.40	Al6S	ATOM	47633	C5' URI	1354	239.479	147.167	-7.526	1.00	53.41	ATOM
ATOM	47581	C3' CYT	1351	231.551	143.988	3.747	1.00	47.40	Al6S	ATOM	47634	C4' URI	1354	240.861	145.643	-8.764	1.00	53.41	ATOM
ATOM	47582	O3' CYT	1351	231.217	145.343	3.536	1.00	47.40	Al6S	ATOM	47635	O4' URI	1354	240.861	145.643	-8.764	1.00	53.41	ATOM
ATOM	47583	P	1352	230.879	145.850	2.055	1.00	54.38	Al6S	ATOM	47636	C1' URI	1354	240.537	144.402	-8.087	1.00	53.41	ATOM
ATOM	47584	O1P	1352	230.307	147.218	2.160	1.00	75.97	Al6S	ATOM	47637	N1 URI	1354	239.886	143.530	-8.995	1.00	53.41	ATOM
ATOM	47585	O2P	1352	230.094	144.776	1.399	1.00	75.97	Al6S	ATOM	47638	C6 URI	1354	238.550	143.220	-8.472	1.00	82.44	ATOM
ATOM	47586	O5' GUA	1352	232.302	145.978	1.349	1.00	54.38	Al6S	ATOM	47639	C2 URI	1354	237.972	143.971	-7.479	1.00	82.44	ATOM
ATOM	47587	C5' GUA	1352	233.100	147.140	1.551	1.00	54.38	Al6S	ATOM	47640	O2 URI	1354	237.972	143.971	-7.479	1.00	82.44	ATOM
ATOM	47588	C4' GUA	1352	234.545	146.856	1.221	1.00	54.38	Al6S	ATOM	47641	N3 URI	1354	238.390	141.459	-9.899	1.00	82.44	ATOM
ATOM	47589	O4' GUA	1352	234.930	145.600	1.852	1.00	54.38	Al6S	ATOM	47642	C4 URI	1354	236.629	141.928	-8.535	1.00	82.44	ATOM
ATOM	47590	C1' GUA	1352	235.837	144.903	1.014	1.00	54.38	Al6S	ATOM	47643	O4 URI	1354	235.979	142.651	-7.555	1.00	82.44	ATOM
ATOM	47591	N9 GUA	1352	235.167	143.706	0.514	1.00	75.97	Al6S	ATOM	47644	C5 URI	1354	234.804	142.389	-7.285	1.00	82.44	ATOM
ATOM	47592	C4 GUA	1352	235.763	142.611	-0.067	1.00	75.97	Al6S	ATOM	47645	C2' URI	1354	236.742	143.731	-7.014	1.00	82.44	ATOM
ATOM	47593	N3 GUA	1352	237.090	142.406	-0.196	1.00	75.97	Al6S	ATOM	47646	O2' URI	1354	239.801	144.257	-10.338	1.00	53.41	ATOM
ATOM	47594	C2 GUA	1352	237.356	141.293	-0.849	1.00	75.97	Al6S	ATOM	47647	C3' URI	1354	239.868	145.710	-9.906	1.00	53.41	ATOM
ATOM	47595	N2 GUA	1352	238.633	140.947	-1.047	1.00	75.97	Al6S	ATOM	47648	O3' URI	1354	240.365	146.508	-10.954	1.00	53.41	ATOM
ATOM	47596	N1 GUA	1352	236.391	140.444	-1.355	1.00	75.97	Al6S	ATOM	47649	P	1355	239.346	147.125	-12.017	1.00	51.06	ATOM
ATOM	47597	C6 GUA	1352	235.015	140.645	-1.251	1.00	75.97	Al6S	ATOM	47650	O1P	1355	239.092	147.583	-13.219	1.00	75.01	ATOM
ATOM	47598	O6 GUA	1352	234.218	139.851	-1.792	1.00	75.97	Al6S	ATOM	47651	O2P	1355	238.484	148.086	-11.279	1.00	75.01	ATOM
ATOM	47599	C5 GUA	1352	234.722	141.826	-0.518	1.00	75.97	Al6S	ATOM	47652	O5' GUA	1355	238.471	145.874	-12.465	1.00	51.06	ATOM
ATOM	47600	N7 GUA	1352	233.502	142.381	-0.164	1.00	75.97	Al6S	ATOM	47653	C5' GUA	1355	239.038	144.816	-13.237	1.00	51.06	ATOM
ATOM	47601	C8 GUA	1352	233.815	143.484	-0.459	1.00	75.97	Al6S	ATOM	47654	C4' GUA	1355	238.018	143.725	-13.452	1.00	51.06	ATOM
ATOM	47602	C2' GUA	1352	236.169	145.852	-0.147	1.00	54.38	Al6S	ATOM	47655	O4' GUA	1355	237.716	143.050	-12.198	1.00	51.06	ATOM
ATOM	47603	O2' GUA	1352	237.262	146.668	-0.206	1.00	54.38	Al6S	ATOM	47656	C1' GUA	1355	236.328	142.735	-12.148	1.00	51.06	ATOM
ATOM	47604	C3' GUA	1352	234.885	146.660	-0.247	1.00	54.38	Al6S	ATOM	47657	N9 GUA	1355	235.693	143.596	-11.160	1.00	75.01	ATOM
ATOM	47605	O3' GUA	1352	235.125	147.920	-0.859	1.00	54.38	Al6S	ATOM	47658	C4 GUA	1355	234.570	143.236	-10.439	1.00	75.01	ATOM
ATOM	47606	P	1353	235.297	148.023	-2.455	1.00	52.03	Al6S	ATOM	47659	N3 GUA	1355	233.888	142.136	-10.492	1.00	75.01	ATOM
ATOM	47607	O1P	1353	235.537	149.438	-2.818	1.00	83.30	Al6S	ATOM	47660	C2 GUA	1355	232.859	142.135	-9.675	1.00	75.01	ATOM
ATOM	47608	O2P	1353	234.202	147.279	-3.118	1.00	83.30	Al6S	ATOM	47661	N2 GUA	1355	232.085	141.052	-9.584	1.00	75.01	ATOM
ATOM	47609	O5' GUA	1353	236.660	147.243	-2.733	1.00	52.03	Al6S	ATOM	47662	N1 GUA	1355	232.514	143.195	-8.879	1.00	75.01	ATOM
ATOM	47610	C5' GUA	1353	237.919	147.876	-2.517	1.00	52.03	Al6S	ATOM	47663	C6 GUA	1355	233.187	144.405	-8.815	1.00	75.01	ATOM
ATOM	47611	C4' GUA	1353	239.049	146.991	-2.994	1.00	52.03	Al6S	ATOM	47664	O6 GUA	1355	232.768	145.303	-8.072	1.00	75.01	ATOM
ATOM	47612	O4' GUA	1353	238.907	145.667	-2.418	1.00	52.03	Al6S	ATOM	47665	C5 GUA	1355	234.313	144.414	-9.677	1.00	75.01	ATOM

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ATOM	47666	N7	GUA	1355	235.268	145.394	-9.907	1.00	75.01	Al6S	ATOM	47719	O5'	URI	1358	229.251	138.408	-25.123	1.00	50.48	A
ATOM	47667	C8	GUA	1355	236.068	144.863	-10.790	1.00	75.01	Al6S	ATOM	47720	C5'	URI	1358	229.144	137.046	-25.508	1.00	50.48	A
ATOM	47668	C2'	GUA	1355	235.758	143.070	-13.519	1.00	51.06	Al6S	ATOM	47721	C4'	URI	1358	227.871	136.446	-24.990	1.00	50.48	A
ATOM	47669	O2'	GUA	1355	235.879	141.942	-14.348	1.00	51.06	Al6S	ATOM	47722	O4'	URI	1358	227.915	136.372	-23.542	1.00	50.48	A
ATOM	47670	C3'	GUA	1355	236.665	144.217	-13.923	1.00	51.06	Al6S	ATOM	47723	C1'	URI	1358	226.602	136.530	-23.027	1.00	50.48	A
ATOM	47671	O3'	GUA	1355	236.654	144.449	-15.308	1.00	51.06	Al6S	ATOM	47724	N1	URI	1358	226.565	137.734	-22.187	1.00	53.70	A
ATOM	47672	P	ADE	1356	235.364	145.110	-15.968	1.00	45.84	Al6S	ATOM	47725	C6	URI	1358	227.416	138.783	-22.393	1.00	53.70	A
ATOM	47673	O1P	ADE	1356	235.687	145.539	-17.357	1.00	78.13	Al6S	ATOM	47726	C2	URI	1358	225.618	137.781	-21.199	1.00	53.70	A
ATOM	47674	O2P	ADE	1356	234.850	146.108	-15.003	1.00	78.13	Al6S	ATOM	47727	O2	URI	1358	224.880	138.849	-20.956	1.00	53.70	A
ATOM	47675	O5'	ADE	1356	234.354	143.887	-16.055	1.00	45.84	Al6S	ATOM	47728	N3	URI	1358	225.566	138.958	-20.695	1.00	53.70	A
ATOM	47676	C5'	ADE	1356	233.726	143.548	-17.288	1.00	45.84	Al6S	ATOM	47729	C4	URI	1358	226.361	140.063	-20.471	1.00	53.70	A
ATOM	47677	C4'	ADE	1356	234.326	142.281	-17.849	1.00	45.84	Al6S	ATOM	47730	O4	URI	1358	226.126	141.089	-20.030	1.00	53.70	A
ATOM	47678	O4'	ADE	1356	234.461	141.284	-16.807	1.00	45.84	Al6S	ATOM	47731	C5	URI	1358	227.349	139.918	-21.689	1.00	53.70	A
ATOM	47679	C1'	ADE	1356	234.179	140.003	-17.329	1.00	45.84	Al6S	ATOM	47732	C2'	URI	1358	225.664	136.637	-24.233	1.00	50.48	A
ATOM	47680	N9	ADE	1356	232.362	138.299	-16.853	1.00	78.13	Al6S	ATOM	47733	C3'	URI	1358	225.239	135.339	-24.593	1.00	50.48	A
ATOM	47681	C4	ADE	1356	232.672	137.363	-17.765	1.00	78.13	Al6S	ATOM	47734	O3'	URI	1358	226.597	137.217	-25.284	1.00	50.48	A
ATOM	47682	N3	ADE	1356	231.816	136.355	-17.712	1.00	78.13	Al6S	ATOM	47735	O3'	URI	1358	226.144	136.926	-26.599	1.00	50.48	A
ATOM	47683	C2	ADE	1356	230.761	136.184	-16.916	1.00	78.13	Al6S	ATOM	47736	P	ADE	1359	225.178	137.959	-27.360	1.00	53.63	A
ATOM	47684	N1	ADE	1356	230.473	137.140	-16.007	1.00	78.13	Al6S	ATOM	47737	O1P	ADE	1359	225.166	137.583	-28.797	1.00	54.51	A
ATOM	47685	C6	ADE	1356	229.415	136.964	-15.209	1.00	78.13	Al6S	ATOM	47738	O2P	ADE	1359	225.544	139.345	-26.959	1.00	54.51	A
ATOM	47686	N6	ADE	1356	231.312	138.265	-15.959	1.00	78.13	Al6S	ATOM	47739	O5'	ADE	1359	223.731	137.634	-26.781	1.00	53.63	A
ATOM	47687	C7	ADE	1356	231.312	138.265	-15.959	1.00	78.13	Al6S	ATOM	47740	C5'	ADE	1359	223.010	136.492	-27.224	1.00	53.63	A
ATOM	47688	N7	ADE	1356	231.311	139.401	-15.163	1.00	78.13	Al6S	ATOM	47741	C4'	ADE	1359	221.781	136.280	-26.369	1.00	53.63	A
ATOM	47689	C8	ADE	1356	232.336	140.090	-15.594	1.00	78.13	Al6S	ATOM	47742	O4'	ADE	1359	222.183	136.065	-24.989	1.00	53.63	A
ATOM	47690	C2'	ADE	1356	233.956	140.167	-18.833	1.00	45.84	Al6S	ATOM	47743	C1'	ADE	1359	221.185	136.569	-24.119	1.00	53.63	A
ATOM	47691	O2'	ADE	1356	235.148	139.974	-19.496	1.00	45.84	Al6S	ATOM	47744	N9	ADE	1359	221.766	137.656	-23.343	1.00	54.51	A
ATOM	47692	C3'	ADE	1356	233.494	141.610	-18.920	1.00	45.84	Al6S	ATOM	47745	C4	ADE	1359	221.321	138.120	-22.133	1.00	54.51	A
ATOM	47693	O3'	ADE	1356	233.814	142.178	-20.170	1.00	45.84	Al6S	ATOM	47746	N3	ADE	1359	220.319	137.629	-21.388	1.00	54.51	A
ATOM	47694	P	ADE	1357	232.707	142.228	-21.318	1.00	50.11	Al6S	ATOM	47747	C2	ADE	1359	220.145	138.365	-20.297	1.00	54.51	A
ATOM	47695	O1P	ADE	1357	233.359	142.785	-22.538	1.00	58.77	Al6S	ATOM	47748	N1	ADE	1359	220.808	139.451	-19.897	1.00	54.51	A
ATOM	47696	O2P	ADE	1357	231.485	142.884	-20.773	1.00	58.77	Al6S	ATOM	47749	C6	ADE	1359	221.816	139.912	-20.678	1.00	54.51	A
ATOM	47697	O5'	ADE	1357	232.391	140.691	-21.565	1.00	50.11	Al6S	ATOM	47750	N6	ADE	1359	222.485	140.997	-20.278	1.00	54.51	A
ATOM	47698	C5'	ADE	1357	233.364	139.850	-22.151	1.00	50.11	Al6S	ATOM	47751	C5	ADE	1359	222.101	139.220	-21.845	1.00	54.51	A
ATOM	47699	C4'	ADE	1357	232.555	137.894	-20.993	1.00	50.11	Al6S	ATOM	47752	N7	ADE	1359	223.051	139.416	-22.830	1.00	54.51	A
ATOM	47700	O4'	ADE	1357	231.407	137.066	-21.043	1.00	50.11	Al6S	ATOM	47753	C8	ADE	1359	222.816	138.457	-23.687	1.00	54.51	A
ATOM	47701	C1'	ADE	1357	230.402	137.669	-20.169	1.00	58.77	Al6S	ATOM	47754	O2'	ADE	1359	220.061	137.113	-25.001	1.00	53.63	A
ATOM	47702	N9	ADE	1357	229.198	137.138	-19.768	1.00	58.77	Al6S	ATOM	47755	O2'	ADE	1359	219.073	136.126	-25.195	1.00	53.63	A
ATOM	47703	C4	ADE	1357	228.682	135.940	-20.087	1.00	58.77	Al6S	ATOM	47756	C3'	ADE	1359	220.820	137.446	-26.273	1.00	53.63	A
ATOM	47704	N3	ADE	1357	227.500	135.768	-19.506	1.00	58.77	Al6S	ATOM	47757	O3'	ADE	1359	219.949	137.492	-27.382	1.00	53.63	A
ATOM	47705	C2	ADE	1357	226.821	136.598	-18.711	1.00	58.77	Al6S	ATOM	47758	P	CYT	1360	218.938	138.728	-27.539	1.00	54.07	A
ATOM	47706	N1	ADE	1357	227.362	137.798	-18.421	1.00	58.77	Al6S	ATOM	47759	O1P	CYT	1360	219.704	139.996	-27.430	1.00	60.07	A
ATOM	47707	C6	ADE	1357	226.674	138.638	-17.654	1.00	58.77	Al6S	ATOM	47760	O2P	CYT	1360	217.771	138.498	-26.650	1.00	60.07	A
ATOM	47708	N5	ADE	1357	229.440	139.204	-18.849	1.00	58.77	Al6S	ATOM	47761	O5'	CYT	1360	218.457	138.613	-29.046	1.00	54.07	A
ATOM	47709	C6	ADE	1357	230.981	137.013	-22.512	1.00	50.11	Al6S	ATOM	47762	C5'	CYT	1360	219.317	138.998	-30.115	1.00	54.07	A
ATOM	47710	N7	ADE	1357	230.479	138.902	-19.583	1.00	58.77	Al6S	ATOM	47763	C4'	CYT	1360	219.128	138.067	-31.279	1.00	54.07	A
ATOM	47711	C8	ADE	1357	230.981	137.013	-22.512	1.00	50.11	Al6S	ATOM	47764	O4'	CYT	1360	219.841	136.835	-31.045	1.00	54.07	A
ATOM	47712	C2'	ADE	1357	231.640	135.945	-23.163	1.00	50.11	Al6S	ATOM	47765	C1'	CYT	1360	219.096	135.748	-31.562	1.00	54.07	A
ATOM	47713	O2'	ADE	1357	231.478	138.359	-23.009	1.00	50.11	Al6S	ATOM	47766	N1	CYT	1360	218.943	134.748	-30.494	1.00	60.07	A
ATOM	47714	C3'	ADE	1357	231.649	138.357	-24.410	1.00	50.11	Al6S	ATOM	47767	C6	CYT	1360	219.101	135.090	-29.180	1.00	60.07	A
ATOM	47715	O3'	ADE	1357	230.625	139.183	-25.331	1.00	50.48	Al6S	ATOM	47768	C2	CYT	1360	218.684	133.428	-30.849	1.00	60.07	A
ATOM	47716	P	URI	1358	231.058	138.980	-26.746	1.00	53.70	Al6S	ATOM	47769	O2	CYT	1360	218.461	133.165	-32.039	1.00	60.07	A
ATOM	47717	O1P	URI	1358	230.499	140.563	-24.795	1.00	53.70	Al6S	ATOM	47770	N3	CYT	1360	218.677	132.472	-29.892	1.00	60.07	A
ATOM	47718	O2P	URI	1358	230.499	140.563	-24.795	1.00	53.70	Al6S	ATOM	47771	C4	CYT	1360	218.892	132.804	-28.620	1.00	60.07	A

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ATOM	47772	N4	CYT	1360	218.931	131.821	-27.715	1.00	60.07	Al6s	ATOM	47825	C5' URI	1363	207.841	127.483	-30.534	1.00	57.17	/
ATOM	47773	C5	CYT	1360	219.090	134.157	-28.219	1.00	60.07	Al6s	ATOM	47826	C4' URI	1363	208.613	126.175	-30.611	1.00	57.17	/
ATOM	47774	C2' CYT	1360	217.810	136.307	-32.170	1.00	54.07	Al6s	ATOM	47827	O4' URI	1363	209.939	126.426	-31.130	1.00	57.17	/	
ATOM	47775	O2' CYT	1360	217.984	136.485	-33.560	1.00	54.07	Al6s	ATOM	47828	C1' URI	1363	210.832	125.438	-30.642	1.00	57.17	/	
ATOM	47776	C3' CYT	1360	217.691	137.636	-31.447	1.00	54.07	Al6s	ATOM	47829	N1 URI	1363	211.920	126.111	-29.921	1.00	84.73	/	
ATOM	47777	O3' CYT	1360	216.976	138.598	-32.185	1.00	54.07	Al6s	ATOM	47830	C6 URI	1363	211.821	127.423	-29.521	1.00	84.73	/	
ATOM	47778	P	GUA	1361	215.488	138.936	-31.741	1.00	64.70	Al6s	ATOM	47831	C2 URI	1363	213.043	125.373	-29.660	1.00	84.73	/
ATOM	47779	O1P	GUA	1361	214.866	139.882	-32.715	1.00	50.70	Al6s	ATOM	47832	O2 URI	1363	213.146	124.204	-29.983	1.00	84.73	/
ATOM	47780	O2P	GUA	1361	215.559	139.297	-30.297	1.00	50.70	Al6s	ATOM	47833	N3 URI	1363	214.038	126.047	-29.002	1.00	84.73	/
ATOM	47781	O5' GUA	1361	214.780	137.518	-31.860	1.00	64.70	Al6s	ATOM	47834	C4 URI	1363	214.012	127.359	-28.582	1.00	84.73	/	
ATOM	47782	C5' GUA	1361	214.018	136.990	-30.783	1.00	64.70	Al6s	ATOM	47835	O4 URI	1363	215.010	127.843	-28.052	1.00	84.73	/	
ATOM	47783	C4' GUA	1361	214.190	135.496	-30.713	1.00	64.70	Al6s	ATOM	47836	C5 URI	1363	212.801	128.053	-28.874	1.00	84.73	/	
ATOM	47784	O4' GUA	1361	215.446	135.171	-30.056	1.00	64.70	Al6s	ATOM	47837	C2' URI	1363	210.039	124.493	-29.737	1.00	57.17	/	
ATOM	47785	C1' GUA	1361	215.313	133.936	-29.367	1.00	64.70	Al6s	ATOM	47838	O2' URI	1363	209.660	123.339	-30.451	1.00	57.17	/	
ATOM	47786	N9 GUA	1361	215.710	134.124	-27.974	1.00	50.70	Al6s	ATOM	47839	C3' URI	1363	208.847	125.360	-29.343	1.00	57.17	/	
ATOM	47787	C4 GUA	1361	215.502	131.839	-27.170	1.00	50.70	Al6s	ATOM	47840	O3' URI	1363	207.749	124.504	-29.027	1.00	57.17	/	
ATOM	47788	N3 GUA	1361	215.679	131.149	-26.052	1.00	50.70	Al6s	ATOM	47841	P	CYT	1364	207.643	123.847	-27.555	1.00	51.11	/
ATOM	47789	C2 GUA	1361	215.433	129.840	-26.030	1.00	50.70	Al6s	ATOM	47842	O1P	CYT	1364	206.548	122.841	-27.534	1.00	65.02	/
ATOM	47790	N2 GUA	1361	216.103	131.696	-24.871	1.00	50.70	Al6s	ATOM	47843	O2P	CYT	1364	207.629	124.972	-26.576	1.00	65.02	/
ATOM	47791	N1 GUA	1361	216.387	133.042	-24.673	1.00	50.70	Al6s	ATOM	47844	O5' CYT	1364	209.004	123.042	-27.381	1.00	51.11	/	
ATOM	47792	C6 GUA	1361	216.726	133.437	-23.557	1.00	50.70	Al6s	ATOM	47845	C5' CYT	1364	209.202	121.796	-28.023	1.00	51.11	/	
ATOM	47793	O6 GUA	1361	216.213	133.795	-23.557	1.00	50.70	Al6s	ATOM	47846	C4' CYT	1364	210.515	121.211	-27.596	1.00	51.11	/	
ATOM	47794	C5 GUA	1361	216.395	135.148	-25.866	1.00	50.70	Al6s	ATOM	47847	O4' CYT	1364	211.576	122.127	-27.954	1.00	51.11	/	
ATOM	47795	N7 GUA	1361	216.085	135.297	-27.368	1.00	50.70	Al6s	ATOM	47848	C1' CYT	1364	212.573	122.114	-26.948	1.00	51.11	/	
ATOM	47796	C8 GUA	1361	213.867	133.465	-29.551	1.00	64.70	Al6s	ATOM	47849	N1 CYT	1364	212.701	123.468	-26.395	1.00	65.02	/	
ATOM	47797	O2' GUA	1361	213.832	132.523	-30.607	1.00	64.70	Al6s	ATOM	47850	C6 CYT	1364	211.755	124.428	-26.626	1.00	65.02	/	
ATOM	47798	C2' GUA	1361	213.155	134.780	-29.873	1.00	64.70	Al6s	ATOM	47851	C2 CYT	1364	213.815	123.753	-25.630	1.00	65.02	/	
ATOM	47799	C3' GUA	1361	213.155	134.780	-29.873	1.00	64.70	Al6s	ATOM	47852	O2 CYT	1364	214.639	122.850	-25.425	1.00	65.02	/	
ATOM	47800	O3' GUA	1361	211.972	134.612	-30.652	1.00	64.70	Al6s	ATOM	47853	N3 CYT	1364	213.973	124.996	-25.123	1.00	65.02	/	
ATOM	47801	P	URI	1362	210.543	134.457	-29.925	1.00	73.59	Al6s	ATOM	47854	C4 CYT	1364	213.051	125.928	-25.349	1.00	65.02	/
ATOM	47802	O1P	URI	1362	209.518	134.261	-30.970	1.00	52.53	Al6s	ATOM	47855	N4 CYT	1364	213.249	127.134	-24.820	1.00	65.02	/
ATOM	47803	O2P	URI	1362	210.357	135.526	-28.923	1.00	52.53	Al6s	ATOM	47856	C5 CYT	1364	211.888	125.661	-26.125	1.00	65.02	/
ATOM	47804	O5' URI	1362	210.688	133.088	-29.144	1.00	73.59	Al6s	ATOM	47857	C2' CYT	1364	212.158	121.085	-25.900	1.00	51.11	/	
ATOM	47805	C5' URI	1362	210.800	131.868	-29.842	1.00	73.59	Al6s	ATOM	47858	O2' CYT	1364	212.775	119.851	-26.186	1.00	51.11	/	
ATOM	47806	C4' URI	1362	210.549	130.761	-28.885	1.00	73.59	Al6s	ATOM	47859	C3' CYT	1364	210.654	121.056	-26.098	1.00	51.11	/	
ATOM	47807	O4' URI	1362	211.667	130.681	-27.981	1.00	73.59	Al6s	ATOM	47860	O3' CYT	1364	210.108	119.820	-25.706	1.00	51.11	/	
ATOM	47808	C1' URI	1362	211.210	130.475	-26.664	1.00	73.59	Al6s	ATOM	47861	P	CYT	1365	209.332	119.713	-24.318	1.00	54.69	/
ATOM	47809	N1 URI	1362	211.898	131.442	-25.801	1.00	52.53	Al6s	ATOM	47862	O1P	CYT	1365	208.653	118.397	-24.296	1.00	46.18	/
ATOM	47810	C6 URI	1362	212.000	132.763	-26.146	1.00	52.53	Al6s	ATOM	47863	O2P	CYT	1365	208.529	120.958	-24.196	1.00	46.18	/
ATOM	47811	C2 URI	1362	212.453	130.968	-24.620	1.00	52.53	Al6s	ATOM	47864	O5' CYT	1365	210.499	119.695	-23.234	1.00	54.69	/	
ATOM	47812	O2 URI	1362	212.414	129.800	-24.289	1.00	52.53	Al6s	ATOM	47865	C5' CYT	1365	211.298	118.534	-23.066	1.00	54.69	/	
ATOM	47813	N3 URI	1362	213.065	131.913	-23.845	1.00	52.53	Al6s	ATOM	47866	C4' CYT	1365	212.284	118.738	-21.949	1.00	54.69	/	
ATOM	47814	C4 URI	1362	213.190	133.250	-24.123	1.00	52.53	Al6s	ATOM	47867	O4' CYT	1365	213.209	119.786	-22.320	1.00	54.69	/	
ATOM	47815	O4 URI	1362	213.749	133.980	-23.305	1.00	52.53	Al6s	ATOM	47868	C1' CYT	1365	213.560	120.541	-21.176	1.00	54.69	/	
ATOM	47816	C5 URI	1362	212.613	133.662	-25.372	1.00	52.53	Al6s	ATOM	47869	N1 CYT	1365	213.137	121.931	-21.395	1.00	46.18	/	
ATOM	47817	C2' URI	1362	209.673	130.476	-26.661	1.00	73.59	Al6s	ATOM	47870	C6 CYT	1365	212.280	122.264	-22.406	1.00	46.18	/	
ATOM	47818	O2' URI	1362	209.222	129.157	-26.443	1.00	73.59	Al6s	ATOM	47871	C2 CYT	1365	213.645	122.907	-20.560	1.00	46.18	/	
ATOM	47819	C3' URI	1362	209.358	131.102	-28.024	1.00	73.59	Al6s	ATOM	47872	O2 CYT	1365	214.402	122.557	-19.645	1.00	46.18	/	
ATOM	47820	O3' URI	1362	208.155	130.855	-28.779	1.00	73.59	Al6s	ATOM	47873	N3 CYT	1365	213.309	124.203	-20.765	1.00	46.18	/	
ATOM	47821	P	URI	1363	207.434	129.405	-28.800	1.00	57.17	Al6s	ATOM	47874	C4 CYT	1365	212.501	124.526	-21.772	1.00	46.18	/
ATOM	47822	O1P	URI	1363	206.252	129.609	-29.676	1.00	84.73	Al6s	ATOM	47875	N4 CYT	1365	212.236	125.823	-21.977	1.00	46.18	/
ATOM	47823	O2P	URI	1363	207.231	128.897	-27.423	1.00	84.73	Al6s	ATOM	47876	C5 CYT	1365	211.940	123.538	-22.629	1.00	46.18	/
ATOM	47824	O5' URI	1363	208.400	128.388	-29.571	1.00	57.17	Al6s	ATOM	47877	C2' CYT	1365	212.879	119.880	-19.984	1.00	54.69	/	

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ATOM	47878	O2' CYT	1365	213.734	118.911	-19.429	1.00	54.69	Al6S	ATOM	47931	C1' GUA	1368	204.574	128.512	-12.852	1.00	48.12	A
ATOM	47879	C3' CYT	1365	211.682	119.243	-20.659	1.00	54.69	Al6S	ATOM	47932	N9 GUA	1368	204.584	128.042	-14.228	1.00	37.07	A
ATOM	47880	O3' CYT	1365	211.129	118.194	-19.892	1.00	54.69	Al6S	ATOM	47933	C4 GUA	1368	204.361	128.816	-15.338	1.00	37.07	A
ATOM	47881	P CYT	1366	209.729	118.435	-19.151	1.00	54.26	Al6S	ATOM	47934	N3 GUA	1368	204.167	130.142	-15.332	1.00	37.07	A
ATOM	47882	O1P CYT	1366	209.238	117.142	-18.618	1.00	36.23	Al6S	ATOM	47935	C2 GUA	1368	203.957	130.610	-16.543	1.00	37.07	A
ATOM	47883	O2P CYT	1366	208.877	119.220	-20.077	1.00	36.23	Al6S	ATOM	47936	N2 GUA	1368	203.772	131.919	-16.723	1.00	37.07	A
ATOM	47884	O5' CYT	1366	210.137	119.349	-17.915	1.00	54.26	Al6S	ATOM	47937	N1 GUA	1368	203.921	129.836	-17.669	1.00	37.07	A
ATOM	47885	C5' CYT	1366	210.892	118.794	-16.852	1.00	54.26	Al6S	ATOM	47938	C6 GUA	1368	204.120	128.464	-17.694	1.00	37.07	A
ATOM	47886	C4' CYT	1366	211.285	119.862	-15.882	1.00	54.26	Al6S	ATOM	47939	O6 GUA	1368	204.075	127.856	-18.769	1.00	37.07	A
ATOM	47887	O4' CYT	1366	212.034	120.879	-16.584	1.00	54.26	Al6S	ATOM	47940	C5 GUA	1368	204.363	127.950	-16.396	1.00	37.07	A
ATOM	47888	C1' CYT	1366	211.870	122.119	-15.923	1.00	54.26	Al6S	ATOM	47941	N7 GUA	1368	204.629	126.655	-15.975	1.00	37.07	A
ATOM	47889	N1 CYT	1366	211.338	123.080	-16.890	1.00	36.23	Al6S	ATOM	47942	C8 GUA	1368	204.761	126.760	-14.679	1.00	37.07	A
ATOM	47890	C6 CYT	1366	210.974	122.685	-18.143	1.00	36.23	Al6S	ATOM	47943	C2' GUA	1368	203.148	128.848	-12.413	1.00	48.12	A
ATOM	47891	C2 CYT	1366	211.222	124.417	-16.510	1.00	36.23	Al6S	ATOM	47944	O2' GUA	1368	203.136	130.002	-11.595	1.00	48.12	A
ATOM	47892	O2 CYT	1366	211.542	124.736	-15.357	1.00	36.23	Al6S	ATOM	47945	C3' GUA	1368	202.767	127.582	-11.665	1.00	48.12	A
ATOM	47893	N3 CYT	1366	210.764	125.322	-17.400	1.00	36.23	Al6S	ATOM	47946	O3' GUA	1368	201.710	127.836	-10.761	1.00	48.12	A
ATOM	47894	C4 CYT	1366	210.419	124.929	-18.621	1.00	36.23	Al6S	ATOM	47947	P GUA	1369	200.196	127.664	-11.257	1.00	42.07	A
ATOM	47895	N4 CYT	1366	209.972	125.849	-19.464	1.00	36.23	Al6S	ATOM	47948	O1P GUA	1369	199.389	127.535	-10.026	1.00	43.06	A
ATOM	47896	C5 CYT	1366	210.515	123.570	-19.033	1.00	36.23	Al6S	ATOM	47949	O2P GUA	1369	200.150	126.572	-12.269	1.00	43.06	A
ATOM	47897	C2' CYT	1366	210.925	121.867	-14.753	1.00	54.26	Al6S	ATOM	47950	O5' GUA	1369	199.900	129.031	-12.019	1.00	42.07	A
ATOM	47898	O2' CYT	1366	211.683	121.536	-13.605	1.00	54.26	Al6S	ATOM	47951	C5' GUA	1369	200.008	130.256	-11.337	1.00	42.07	A
ATOM	47899	C3' CYT	1366	210.158	120.670	-15.283	1.00	54.26	Al6S	ATOM	47952	C4' GUA	1369	199.775	131.417	-12.269	1.00	42.07	A
ATOM	47900	O3' CYT	1366	209.499	119.956	-14.252	1.00	54.26	Al6S	ATOM	47953	O4' GUA	1369	200.829	131.447	-13.262	1.00	42.07	A
ATOM	47901	P GUA	1367	207.897	120.030	-14.141	1.00	48.53	Al6S	ATOM	47954	C1' GUA	1369	200.351	132.112	-14.427	1.00	42.07	A
ATOM	47902	O1P GUA	1367	207.531	118.911	-13.236	1.00	36.18	Al6S	ATOM	47955	N9 GUA	1369	200.500	131.205	-15.556	1.00	43.06	A
ATOM	47903	O2P GUA	1367	207.318	120.108	-15.506	1.00	36.18	Al6S	ATOM	47956	C4 GUA	1369	200.331	131.516	-16.882	1.00	43.06	A
ATOM	47904	O5' GUA	1367	207.620	121.421	-13.410	1.00	48.53	Al6S	ATOM	47957	N3 GUA	1369	199.900	132.723	-17.380	1.00	43.06	A
ATOM	47905	C5' GUA	1367	208.233	121.712	-12.162	1.00	48.53	Al6S	ATOM	47958	C2 GUA	1369	199.903	132.703	-18.696	1.00	43.06	A
ATOM	47906	C4' GUA	1367	208.167	123.190	-11.874	1.00	48.53	Al6S	ATOM	47959	N2 GUA	1369	200.561	133.799	-19.358	1.00	43.06	A
ATOM	47907	O4' GUA	1367	208.995	123.941	-12.791	1.00	48.53	Al6S	ATOM	47960	N1 GUA	1369	200.142	131.601	-19.457	1.00	43.06	A
ATOM	47908	C1' GUA	1367	208.494	125.263	-14.896	1.00	48.53	Al6S	ATOM	47961	C6 GUA	1369	200.499	130.354	-18.966	1.00	43.06	A
ATOM	47909	N9 GUA	1367	208.024	126.537	-14.298	1.00	36.18	Al6S	ATOM	47962	O6 GUA	1369	200.703	129.420	-17.749	1.00	43.06	A
ATOM	47910	C4 GUA	1367	208.024	126.767	-14.874	1.00	36.18	Al6S	ATOM	47963	C5 GUA	1369	200.584	130.352	-17.562	1.00	43.06	A
ATOM	47911	N3 GUA	1367	208.077	127.951	-14.246	1.00	36.18	Al6S	ATOM	47964	N7 GUA	1369	200.902	129.328	-16.684	1.00	43.06	A
ATOM	47912	C2 GUA	1367	207.830	128.960	-15.075	1.00	36.18	Al6S	ATOM	47965	C8 GUA	1369	200.840	129.880	-15.507	1.00	43.06	A
ATOM	47913	N2 GUA	1367	207.864	130.215	-14.626	1.00	36.18	Al6S	ATOM	47966	C2' GUA	1369	198.887	132.464	-14.168	1.00	42.07	A
ATOM	47914	N1 GUA	1367	207.535	128.815	-16.407	1.00	36.18	Al6S	ATOM	47967	O2' GUA	1369	198.789	133.752	-13.133	1.00	42.07	A
ATOM	47915	C6 GUA	1367	207.462	127.598	-17.068	1.00	36.18	Al6S	ATOM	47968	C3' GUA	1369	198.523	131.417	-13.133	1.00	42.07	A
ATOM	47916	O6 GUA	1367	207.157	127.566	-18.265	1.00	36.18	Al6S	ATOM	47969	O3' GUA	1369	197.337	131.803	-12.449	1.00	42.07	A
ATOM	47917	C5 GUA	1367	207.751	126.511	-16.196	1.00	36.18	Al6S	ATOM	47970	P CYT	1370	195.934	131.162	-12.900	1.00	42.95	A
ATOM	47918	N7 GUA	1367	207.803	125.148	-16.452	1.00	36.18	Al6S	ATOM	47971	O1P CYT	1370	194.926	131.415	-11.849	1.00	50.91	A
ATOM	47919	C8 GUA	1367	208.092	124.612	-15.298	1.00	36.18	Al6S	ATOM	47972	O2P CYT	1370	196.227	129.765	-13.307	1.00	50.91	A
ATOM	47920	C2' GUA	1367	207.198	125.306	-12.089	1.00	48.53	Al6S	ATOM	47973	O5' CYT	1370	195.530	131.989	-14.194	1.00	42.95	A
ATOM	47921	O2' GUA	1367	207.439	125.846	-10.808	1.00	48.53	Al6S	ATOM	47974	C5' CYT	1370	195.361	133.385	-15.142	1.00	42.95	A
ATOM	47922	C3' GUA	1367	206.819	123.836	-12.068	1.00	48.53	Al6S	ATOM	47975	C4' CYT	1370	195.026	133.902	-15.515	1.00	42.95	A
ATOM	47923	O3' GUA	1367	205.965	123.523	-10.991	1.00	48.53	Al6S	ATOM	47976	O4' CYT	1370	196.189	133.779	-16.371	1.00	42.95	A
ATOM	47924	P GUA	1368	204.393	123.388	-11.246	1.00	48.12	Al6S	ATOM	47977	C1' CYT	1370	195.776	133.506	-17.704	1.00	42.95	A
ATOM	47925	O1P GUA	1368	203.872	122.826	-9.981	1.00	37.07	Al6S	ATOM	47978	N1 CYT	1370	196.289	132.191	-18.104	1.00	50.91	A
ATOM	47926	O2P GUA	1368	204.125	122.683	-12.522	1.00	37.07	Al6S	ATOM	47979	C6 CYT	1370	196.671	131.269	-17.176	1.00	50.91	A
ATOM	47927	O5' GUA	1368	203.926	124.901	-11.428	1.00	48.12	Al6S	ATOM	47980	C2 CYT	1370	196.369	131.900	-19.453	1.00	50.91	A
ATOM	47928	C5' GUA	1368	204.210	125.863	-10.417	1.00	48.12	Al6S	ATOM	47981	O2 CYT	1370	196.018	132.769	-20.268	1.00	50.91	A
ATOM	47929	C4' GUA	1368	204.061	127.259	-10.956	1.00	48.12	Al6S	ATOM	47982	N3 CYT	1370	196.822	130.685	-19.843	1.00	50.91	A
ATOM	47930	O4' GUA	1368	205.028	127.474	-12.006	1.00	48.12	Al6S	ATOM	47983	C4 CYT	1370	197.179	129.783	-18.929	1.00	50.91	A

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ATOM	47984	N4	CYT	1370	197.594	128.586	-19.349	1.00	50.91	Al6S	ATOM	48037	C1' URI	1373	188.763	122.506	-25.082	1.00	52.42	f
ATOM	47985	C5	CYT	1370	197.119	130.063	-17.542	1.00	50.91	Al6S	ATOM	48038	N1 URI	1373	189.161	122.663	-23.681	1.00	52.37	f
ATOM	47986	C2' CYT	1370	194.255	133.524	-17.705	1.00	42.95	Al6S	ATOM	48039	C6 URI	1373	188.685	123.702	-22.925	1.00	52.37	f	
ATOM	47987	O2' CYT	1370	193.840	134.838	-17.975	1.00	42.95	Al6S	ATOM	48040	C2 URI	1373	190.031	121.734	-23.151	1.00	52.37	f	
ATOM	47988	C3' CYT	1370	193.965	133.120	-16.270	1.00	42.95	Al6S	ATOM	48041	O2 URI	1373	190.479	120.802	-23.795	1.00	52.37	f	
ATOM	47989	O3' CYT	1370	192.647	133.476	-15.882	1.00	42.95	Al6S	ATOM	48042	N3 URI	1373	190.361	121.938	-21.838	1.00	52.37	f	
ATOM	47990	P' CYT	1371	191.511	132.346	-15.839	1.00	49.63	Al6S	ATOM	48043	C4 URI	1373	189.922	122.959	-21.023	1.00	52.37	f	
ATOM	47991	O1P CYT	1371	190.384	132.887	-15.039	1.00	46.18	Al6S	ATOM	48044	O4 URI	1373	190.323	123.019	-19.862	1.00	52.37	f	
ATOM	47992	O2P CYT	1371	192.179	131.087	-15.410	1.00	46.18	Al6S	ATOM	48045	C5 URI	1373	189.029	123.881	-21.649	1.00	52.37	f	
ATOM	47993	O5' CYT	1371	191.044	132.227	-17.358	1.00	49.63	Al6S	ATOM	48046	C2' URI	1373	187.633	121.495	-25.272	1.00	52.42	f	
ATOM	47994	C4' CYT	1371	190.338	133.266	-17.970	1.00	49.63	Al6S	ATOM	48047	O2' URI	1373	187.792	120.822	-26.505	1.00	52.42	f	
ATOM	47995	C4' CYT	1371	191.521	133.085	-20.046	1.00	49.63	Al6S	ATOM	48048	C3' URI	1373	186.412	122.399	-25.238	1.00	52.42	f	
ATOM	47996	O4' CYT	1371	191.521	133.085	-20.046	1.00	49.63	Al6S	ATOM	48049	O3' URI	1373	185.320	121.838	-25.957	1.00	52.42	f	
ATOM	47997	C1' CYT	1371	191.561	132.178	-21.137	1.00	49.63	Al6S	ATOM	48050	P' GUA	1374	184.313	120.828	-25.218	1.00	48.15	f	
ATOM	47998	N1 CYT	1371	192.484	131.088	-20.812	1.00	46.18	Al6S	ATOM	48051	O1P GUA	1374	183.179	120.582	-26.161	1.00	45.79	f	
ATOM	47999	C6 CYT	1371	192.803	130.795	-19.522	1.00	46.18	Al6S	ATOM	48052	O2P GUA	1374	184.025	121.335	-23.838	1.00	45.79	f	
ATOM	48000	C2 CYT	1371	192.993	130.332	-21.848	1.00	46.18	Al6S	ATOM	48053	O5' GUA	1374	185.172	119.490	-25.070	1.00	48.15	f	
ATOM	48001	O2 CYT	1371	192.724	130.663	-23.012	1.00	46.18	Al6S	ATOM	48054	C5' GUA	1374	185.436	118.678	-26.199	1.00	48.15	f	
ATOM	48002	N3 CYT	1371	193.764	129.262	-21.569	1.00	46.18	Al6S	ATOM	48055	C4' GUA	1374	187.558	117.826	-25.456	1.00	48.15	f	
ATOM	48003	C4 CYT	1371	194.030	128.951	-20.305	1.00	46.18	Al6S	ATOM	48056	O4' GUA	1374	188.007	117.053	-24.360	1.00	48.15	f	
ATOM	48004	N4 CYT	1371	194.750	127.853	-20.068	1.00	46.18	Al6S	ATOM	48057	C1' GUA	1374	188.007	117.053	-24.360	1.00	48.15	f	
ATOM	48005	C5 CYT	1371	193.560	129.743	-19.226	1.00	46.18	Al6S	ATOM	48058	N9 GUA	1374	188.148	117.962	-23.236	1.00	45.79	f	
ATOM	48006	C2' CYT	1371	190.152	131.614	-21.305	1.00	49.63	Al6S	ATOM	48059	C4 GUA	1374	189.983	117.839	-22.160	1.00	45.79	f	
ATOM	48007	O2' CYT	1371	189.443	132.405	-22.229	1.00	49.63	Al6S	ATOM	48060	N3 GUA	1374	189.837	116.826	-21.931	1.00	45.79	f	
ATOM	48008	C3' CYT	1371	189.622	131.723	-19.884	1.00	49.63	Al6S	ATOM	48061	C2 GUA	1374	190.527	117.012	-20.816	1.00	45.79	f	
ATOM	48009	O3' CYT	1371	188.202	131.730	-19.861	1.00	49.63	Al6S	ATOM	48062	N2 GUA	1374	191.437	116.107	-20.434	1.00	45.79	f	
ATOM	48010	P' URI	1372	187.392	130.355	-19.626	1.00	50.31	Al6S	ATOM	48063	N1 GUA	1374	190.379	118.104	-19.997	1.00	45.79	f	
ATOM	48011	O1P URI	1372	185.954	130.720	-19.612	1.00	53.52	Al6S	ATOM	48064	C6 GUA	1374	189.504	119.158	-20.227	1.00	45.79	f	
ATOM	48012	O2P URI	1372	187.960	129.585	-18.501	1.00	53.52	Al6S	ATOM	48065	O6 GUA	1374	189.459	120.118	-19.443	1.00	45.79	f	
ATOM	48013	O5' URI	1372	187.672	129.496	-20.933	1.00	50.31	Al6S	ATOM	48066	C5 GUA	1374	188.763	118.965	-21.403	1.00	45.79	f	
ATOM	48014	C5' URI	1372	187.403	130.021	-22.223	1.00	50.31	Al6S	ATOM	48067	N7 GUA	1374	187.795	119.765	-21.980	1.00	45.79	f	
ATOM	48015	C4' URI	1372	188.052	129.159	-23.275	1.00	50.31	Al6S	ATOM	48068	C8 GUA	1374	187.459	119.130	-23.062	1.00	45.79	f	
ATOM	48016	O4' URI	1372	189.485	129.097	-23.035	1.00	50.31	Al6S	ATOM	48069	C2' GUA	1374	186.929	116.005	-24.107	1.00	48.15	f	
ATOM	48017	C1' URI	1372	189.987	127.868	-23.534	1.00	50.31	Al6S	ATOM	48070	O2' GUA	1374	187.113	114.901	-24.955	1.00	48.15	f	
ATOM	48018	N1 URI	1372	190.700	127.165	-22.461	1.00	53.52	Al6S	ATOM	48071	C3' GUA	1374	185.698	116.758	-24.550	1.00	48.15	f	
ATOM	48019	C6 URI	1372	190.624	127.541	-21.147	1.00	53.52	Al6S	ATOM	48072	O3' GUA	1374	184.674	115.837	-24.840	1.00	48.15	f	
ATOM	48020	C2 URI	1372	191.442	126.086	-22.836	1.00	53.52	Al6S	ATOM	48073	P' URI	1375	183.717	115.343	-23.657	1.00	36.54	f	
ATOM	48021	O2 URI	1372	191.569	125.765	-23.997	1.00	53.52	Al6S	ATOM	48074	O1P URI	1375	182.715	114.438	-24.286	1.00	51.40	f	
ATOM	48022	N3 URI	1372	192.039	125.398	-21.810	1.00	53.52	Al6S	ATOM	48075	O2P URI	1375	183.260	116.548	-22.917	1.00	51.40	f	
ATOM	48023	C4 URI	1372	191.979	125.690	-20.470	1.00	53.52	Al6S	ATOM	48076	O5' URI	1375	184.684	114.538	-22.672	1.00	36.54	f	
ATOM	48024	O4 URI	1372	192.443	124.885	-19.654	1.00	53.52	Al6S	ATOM	48077	C5' URI	1375	185.142	113.229	-22.988	1.00	36.54	f	
ATOM	48025	C5 URI	1372	191.227	126.860	-20.163	1.00	53.52	Al6S	ATOM	48078	C4' URI	1375	186.000	112.686	-21.871	1.00	36.54	f	
ATOM	48026	C2' URI	1372	188.789	127.074	-24.061	1.00	50.31	Al6S	ATOM	48079	O4' URI	1375	187.086	113.617	-21.647	1.00	36.54	f	
ATOM	48027	O2' URI	1372	188.644	127.317	-25.443	1.00	50.31	Al6S	ATOM	48080	C1' URI	1375	187.470	113.586	-20.287	1.00	36.54	f	
ATOM	48028	C3' URI	1372	187.468	127.698	-23.277	1.00	50.31	Al6S	ATOM	48081	N1 URI	1375	187.314	114.934	-19.732	1.00	51.40	f	
ATOM	48029	O3' URI	1372	186.419	127.543	-23.963	1.00	50.31	Al6S	ATOM	48082	C6 URI	1375	186.599	115.903	-20.389	1.00	51.40	f	
ATOM	48030	P' URI	1373	185.416	126.354	-23.553	1.00	52.42	Al6S	ATOM	48083	C2 URI	1375	187.919	115.194	-18.525	1.00	51.40	f	
ATOM	48031	O1P URI	1373	184.147	126.619	-24.282	1.00	52.37	Al6S	ATOM	48084	O2 URI	1375	188.560	114.353	-17.912	1.00	51.40	f	
ATOM	48032	O2P URI	1373	185.391	126.198	-22.076	1.00	52.37	Al6S	ATOM	48085	N3 URI	1375	187.750	116.475	-18.056	1.00	51.40	f	
ATOM	48033	O5' URI	1373	186.095	125.063	-24.191	1.00	52.42	Al6S	ATOM	48086	C4 URI	1375	187.042	117.492	-18.660	1.00	51.40	f	
ATOM	48034	C5' URI	1373	186.185	124.916	-25.603	1.00	52.42	Al6S	ATOM	48087	O4 URI	1375	186.894	118.564	-18.064	1.00	51.40	f	
ATOM	48035	C4' URI	1373	186.916	123.645	-25.943	1.00	52.42	Al6S	ATOM	48088	C5 URI	1375	186.448	117.139	-19.912	1.00	51.40	f	
ATOM	48036	O4' URI	1373	188.298	123.760	-25.537	1.00	52.42	Al6S	ATOM	48089	C2' URI	1375	186.590	112.548	-19.603	1.00	36.54	f	

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ATOM	48090	O2' URI	1375	187.268	111.316	-19.632	1.00	36.54	Al6s	ATOM	48143	N9 ADE	1378	186.893	113.546	-9.768	1.00	43.54	Al1
ATOM	48091	C3' URI	1375	185.361	112.561	-20.499	1.00	36.54	Al6s	ATOM	48144	C4 ADE	1378	186.390	114.793	-9.990	1.00	43.54	Al1
ATOM	48092	O3' URI	1375	184.624	111.347	-20.361	1.00	36.54	Al6s	ATOM	48145	N3 ADE	1378	186.480	115.850	-9.174	1.00	43.54	Al1
ATOM	48093	P ADE	1376	183.278	111.317	-19.474	1.00	47.63	Al6s	ATOM	48146	C2 ADE	1378	185.947	116.918	-9.740	1.00	43.54	Al1
ATOM	48094	O1P ADE	1376	182.154	111.334	-20.432	1.00	55.28	Al6s	ATOM	48147	N1 ADE	1378	185.387	117.044	-10.940	1.00	43.54	Al1
ATOM	48095	O2P ADE	1376	183.363	112.365	-18.439	1.00	55.28	Al6s	ATOM	48148	C6 ADE	1378	185.319	115.958	-11.737	1.00	43.54	Al1
ATOM	48096	O5' ADE	1376	183.283	109.875	-18.797	1.00	47.63	Al6s	ATOM	48149	N6 ADE	1378	184.786	111.088	-12.948	1.00	43.54	Al1
ATOM	48097	C5' ADE	1376	183.308	109.687	-17.375	1.00	47.63	Al6s	ATOM	48150	C5 ADE	1378	185.829	114.756	-11.244	1.00	43.54	Al1
ATOM	48098	C4' ADE	1376	184.148	108.476	-17.054	1.00	47.63	Al6s	ATOM	48151	N7 ADE	1378	185.898	113.477	-11.775	1.00	43.54	Al1
ATOM	48099	O4' ADE	1376	183.751	107.425	-17.958	1.00	47.63	Al6s	ATOM	48152	C8 ADE	1378	186.520	112.791	-10.848	1.00	43.54	Al1
ATOM	48100	C1' ADE	1376	184.877	106.924	-18.635	1.00	47.63	Al6s	ATOM	48153	C2' ADE	1378	187.195	112.686	-7.315	1.00	53.82	Al1
ATOM	48101	N9 ADE	1376	184.674	107.084	-20.067	1.00	55.28	Al6s	ATOM	48154	O2' ADE	1378	187.184	113.763	-6.390	1.00	53.82	Al1
ATOM	48102	C4 ADE	1376	185.137	106.212	-21.013	1.00	55.28	Al6s	ATOM	48155	C3' ADE	1378	188.220	111.621	-6.931	1.00	53.82	Al1
ATOM	48103	N3 ADE	1376	185.839	105.086	-20.798	1.00	55.28	Al6s	ATOM	48156	O3' ADE	1378	188.849	112.076	-5.731	1.00	53.82	Al1
ATOM	48104	C2 ADE	1376	186.122	104.493	-21.947	1.00	55.28	Al6s	ATOM	48157	P ADE	1379	188.803	111.216	-4.392	1.00	65.04	Al1
ATOM	48105	N1 ADE	1376	185.804	104.866	-23.194	1.00	55.28	Al6s	ATOM	48158	O1P ADE	1379	188.299	109.858	-4.711	1.00	65.04	Al1
ATOM	48106	C6 ADE	1376	185.091	105.998	-23.369	1.00	55.28	Al6s	ATOM	48159	O2P ADE	1379	188.120	112.034	-3.370	1.00	65.04	Al1
ATOM	48107	N6 ADE	1376	184.762	106.361	-24.612	1.00	55.28	Al6s	ATOM	48160	O5' ADE	1379	190.342	111.128	-4.002	1.00	65.04	Al1
ATOM	48108	C5 ADE	1376	184.735	106.725	-22.224	1.00	55.28	Al6s	ATOM	48161	C5' ADE	1379	191.365	111.582	-4.902	1.00	65.04	Al1
ATOM	48109	N7 ADE	1376	184.031	107.907	-22.045	1.00	55.28	Al6s	ATOM	48162	C4' ADE	1379	192.700	110.941	-4.557	1.00	65.04	Al1
ATOM	48110	C8 ADE	1376	184.022	108.073	-20.751	1.00	55.28	Al6s	ATOM	48163	C4' ADE	1379	193.033	111.263	-3.184	1.00	65.04	Al1
ATOM	48111	C2' ADE	1376	186.144	107.595	-18.117	1.00	47.63	Al6s	ATOM	48164	C1' ADE	1379	193.711	110.172	-2.579	1.00	65.04	Al1
ATOM	48112	O2' ADE	1376	186.880	106.707	-17.323	1.00	47.63	Al6s	ATOM	48165	N1 ADE	1379	192.989	109.757	-1.364	1.00	65.04	Al1
ATOM	48113	C3' ADE	1376	185.613	108.775	-17.320	1.00	47.63	Al6s	ATOM	48166	C6 ADE	1379	191.623	109.781	-0.258	1.00	65.04	Al1
ATOM	48114	O3' ADE	1376	186.352	108.813	-16.095	1.00	47.63	Al6s	ATOM	48167	C2 ADE	1379	193.733	109.314	-0.258	1.00	65.04	Al1
ATOM	48115	P ADE	1377	185.421	108.210	-14.730	1.00	42.73	Al6s	ATOM	48168	O2 ADE	1379	194.975	109.324	-0.322	1.00	65.04	Al1
ATOM	48116	O1P ADE	1377	185.421	106.757	-14.880	1.00	43.51	Al6s	ATOM	48169	N3 ADE	1379	193.081	108.889	0.849	1.00	65.04	Al1
ATOM	48117	O2P ADE	1377	184.655	109.130	-14.255	1.00	43.51	Al6s	ATOM	48170	C4 ADE	1379	191.746	108.904	0.882	1.00	65.04	Al1
ATOM	48118	O5' ADE	1377	186.943	108.331	-13.725	1.00	42.73	Al6s	ATOM	48171	N4 ADE	1379	191.143	108.463	1.990	1.00	65.04	Al1
ATOM	48119	C5' ADE	1377	188.217	107.789	-14.056	1.00	42.73	Al6s	ATOM	48172	C5 ADE	1379	190.967	109.367	-0.220	1.00	65.04	Al1
ATOM	48120	O4' ADE	1377	189.291	108.773	-13.696	1.00	42.73	Al6s	ATOM	48173	C2' ADE	1379	193.833	109.044	-3.605	1.00	65.04	Al1
ATOM	48121	C4' ADE	1377	189.683	112.064	-14.665	1.00	42.73	Al6s	ATOM	48174	O2' ADE	1379	195.153	108.984	-4.106	1.00	65.04	Al1
ATOM	48122	C1' ADE	1377	189.661	111.041	-14.042	1.00	42.73	Al6s	ATOM	48175	C3' ADE	1379	192.762	109.416	-4.621	1.00	65.04	Al1
ATOM	48123	N1 ADE	1377	188.683	112.064	-14.400	1.00	43.51	Al6s	ATOM	48176	O3' ADE	1379	193.072	108.968	-5.943	1.00	65.04	Al1
ATOM	48124	C6 ADE	1377	187.658	111.792	-15.267	1.00	43.51	Al6s	ATOM	48177	P ADE	1380	194.494	109.345	-6.624	1.00	65.04	Al1
ATOM	48125	C2 ADE	1377	188.842	113.336	-13.874	1.00	43.51	Al6s	ATOM	48178	O1P ADE	1380	195.257	108.082	-6.868	1.00	65.04	Al1
ATOM	48126	O2 ADE	1377	189.726	113.517	-13.033	1.00	43.51	Al6s	ATOM	48179	O2P ADE	1380	195.155	110.472	-5.904	1.00	65.04	Al1
ATOM	48127	N3 ADE	1377	188.023	114.330	-14.286	1.00	43.51	Al6s	ATOM	48180	O5' ADE	1380	194.050	109.952	-8.025	1.00	65.04	Al1
ATOM	48128	C4 ADE	1377	187.054	114.066	-15.164	1.00	43.51	Al6s	ATOM	48181	O5' ADE	1380	194.615	111.161	-8.487	1.00	65.04	Al1
ATOM	48129	N4 ADE	1377	186.294	115.073	-15.563	1.00	43.51	Al6s	ATOM	48182	C4' ADE	1380	193.689	111.817	-9.461	1.00	65.04	Al1
ATOM	48130	C5 ADE	1377	186.831	112.754	-15.673	1.00	43.51	Al6s	ATOM	48183	O4' ADE	1380	192.544	112.329	-8.740	1.00	65.04	Al1
ATOM	48131	C2' ADE	1377	189.819	110.792	-12.545	1.00	42.73	Al6s	ATOM	48184	C1' ADE	1380	192.139	113.568	-9.304	1.00	65.04	Al1
ATOM	48132	O2' ADE	1377	191.189	110.700	-12.228	1.00	42.73	Al6s	ATOM	48185	N9 ADE	1380	192.309	114.616	-8.296	1.00	65.04	Al1
ATOM	48133	C3' ADE	1377	189.068	109.479	-12.371	1.00	42.73	Al6s	ATOM	48186	C4 ADE	1380	191.774	115.880	-8.355	1.00	65.04	Al1
ATOM	48134	O3' ADE	1377	189.624	108.714	-11.328	1.00	42.73	Al6s	ATOM	48187	N3 ADE	1380	190.989	116.387	-9.321	1.00	65.04	Al1
ATOM	48135	P ADE	1378	188.765	108.428	-10.022	1.00	53.82	Al6s	ATOM	48188	C2 ADE	1380	190.658	117.647	-9.043	1.00	49.55	Al1
ATOM	48136	O1P ADE	1378	189.568	107.542	-9.159	1.00	43.54	Al6s	ATOM	48189	N1 ADE	1380	191.008	118.406	-7.996	1.00	49.55	Al1
ATOM	48137	O2P ADE	1378	187.425	107.997	-10.462	1.00	43.54	Al6s	ATOM	48190	C6 ADE	1380	191.808	117.874	-7.051	1.00	49.55	Al1
ATOM	48138	O5' ADE	1378	188.663	109.849	-9.316	1.00	53.82	Al6s	ATOM	48191	N6 ADE	1380	192.175	118.648	-6.027	1.00	49.55	Al1
ATOM	48139	C5' ADE	1378	189.738	110.376	-8.532	1.00	53.82	Al6s	ATOM	48192	C5 ADE	1380	192.212	116.530	-7.217	1.00	49.55	Al1
ATOM	48140	C4' ADE	1378	189.331	111.709	-7.972	1.00	53.82	Al6s	ATOM	48193	N7 ADE	1380	192.996	115.666	-6.445	1.00	49.55	Al1
ATOM	48141	O4' ADE	1378	188.839	112.487	-9.064	1.00	53.82	Al6s	ATOM	48194	C8 ADE	1380	193.022	114.567	-7.128	1.00	49.55	Al1
ATOM	48142	C1' ADE	1378	187.746	113.237	-8.631	1.00	53.82	Al6s	ATOM	48195	C2' ADE	1380	193.025	113.800	-10.525	1.00	60.35	Al1

ATOM	48196	O2' ADE	1380	192.413	113.256	-11.678	1.00	60.35	Al6s	ATOM	48249	N3 GUA	1383	192.888	108.270	-15.279	1.00	58.99	/
ATOM	48197	C3' ADE	1380	194.275	113.046	-10.113	1.00	60.35	Al6s	ATOM	48250	C2 GUA	1383	192.461	107.942	-16.479	1.00	58.99	/
ATOM	48198	O3' ADE	1380	195.064	112.665	-11.215	1.00	60.35	Al6s	ATOM	48251	N2 GUA	1383	191.230	108.281	-16.858	1.00	58.99	/
ATOM	48199	P	1381	196.250	113.611	-11.689	1.00	54.55	Al6s	ATOM	48252	N1 GUA	1383	193.211	107.258	-17.397	1.00	58.99	/
ATOM	48200	O1P CYT	1381	197.114	113.850	-10.522	1.00	58.29	Al6s	ATOM	48253	C6 GUA	1383	194.514	106.824	-17.200	1.00	58.99	/
ATOM	48201	O2P CYT	1381	195.672	114.750	-12.423	1.00	58.29	Al6s	ATOM	48254	O6 GUA	1383	195.093	106.199	-18.089	1.00	58.99	/
ATOM	48202	O5' CYT	1381	197.049	112.715	-12.726	1.00	54.55	Al6s	ATOM	48255	C5 GUA	1383	194.990	107.187	-15.918	1.00	58.99	/
ATOM	48203	C5' CYT	1381	198.063	111.801	-12.306	1.00	54.55	Al6s	ATOM	48256	N7 GUA	1383	196.221	106.970	-15.322	1.00	58.99	/
ATOM	48204	C4' CYT	1381	198.625	111.098	-13.515	1.00	54.55	Al6s	ATOM	48257	C8 GUA	1383	196.103	107.499	-14.138	1.00	58.99	/
ATOM	48205	O1' CYT	1381	197.564	110.323	-14.084	1.00	54.55	Al6s	ATOM	48258	C2' GUA	1383	193.385	107.683	-12.010	1.00	54.04	/
ATOM	48206	C1' CYT	1381	197.605	110.427	-15.483	1.00	54.55	Al6s	ATOM	48259	O2' GUA	1383	192.597	108.446	-11.125	1.00	54.04	/
ATOM	48207	N1 CYT	1381	196.249	110.711	-15.954	1.00	58.29	Al6s	ATOM	48260	C3' GUA	1383	194.327	106.790	-11.229	1.00	54.04	/
ATOM	48208	C6 CYT	1381	195.446	111.598	-15.298	1.00	58.29	Al6s	ATOM	48261	O3' GUA	1383	193.611	106.148	-10.192	1.00	54.04	/
ATOM	48209	C2 CYT	1381	195.764	110.035	-17.090	1.00	58.29	Al6s	ATOM	48262	P	1384	193.263	104.585	-10.316	1.00	50.19	/
ATOM	48210	O2 CYT	1381	196.548	109.250	-17.672	1.00	58.29	Al6s	ATOM	48263	O1P CYT	1384	192.471	104.152	-9.128	1.00	56.54	/
ATOM	48211	N3 CYT	1381	194.519	110.254	-17.518	1.00	58.29	Al6s	ATOM	48264	O2P CYT	1384	192.261	104.505	-11.544	1.00	50.19	/
ATOM	48212	C4 CYT	1381	193.738	111.114	-16.863	1.00	58.29	Al6s	ATOM	48265	O5' CYT	1384	190.986	105.119	-11.463	1.00	50.19	/
ATOM	48213	N4 CYT	1381	192.494	111.294	-17.313	1.00	58.29	Al6s	ATOM	48266	C5' CYT	1384	190.354	105.167	-12.823	1.00	50.19	/
ATOM	48214	C5' CYT	1381	198.638	111.413	-15.911	1.00	54.55	Al6s	ATOM	48267	C4' CYT	1384	191.278	105.824	-13.732	1.00	50.19	/
ATOM	48215	C2' CYT	1381	199.781	110.755	-16.542	1.00	54.55	Al6s	ATOM	48268	O4' CYT	1384	191.164	105.247	-15.018	1.00	50.19	/
ATOM	48216	O2' CYT	1381	199.115	112.057	-14.599	1.00	54.55	Al6s	ATOM	48269	C1' CYT	1384	192.445	104.630	-15.377	1.00	56.54	/
ATOM	48217	C3' CYT	1381	200.552	112.208	-14.646	1.00	54.55	Al6s	ATOM	48270	N1 CYT	1384	193.458	104.493	-14.474	1.00	56.54	/
ATOM	48218	O3' CYT	1381	201.547	111.023	-14.125	1.00	44.62	Al6s	ATOM	48271	C6 CYT	1384	192.594	104.174	-16.664	1.00	56.54	/
ATOM	48219	P	1382	202.309	111.559	-12.977	1.00	58.00	Al6s	ATOM	48272	C2 CYT	1384	193.664	104.336	-17.449	1.00	56.54	/
ATOM	48220	O1P CYT	1382	202.272	110.444	-15.284	1.00	58.00	Al6s	ATOM	48273	N3 CYT	1384	194.712	103.408	-16.149	1.00	56.54	/
ATOM	48221	O2P CYT	1382	200.618	109.877	-13.561	1.00	44.62	Al6s	ATOM	48274	C4 CYT	1384	195.814	102.757	-16.552	1.00	56.54	/
ATOM	48222	O5' CYT	1382	200.882	108.536	-13.875	1.00	44.62	Al6s	ATOM	48275	C4 CYT	1384	190.602	103.892	-14.914	1.00	56.54	/
ATOM	48223	C5' CYT	1382	201.353	107.831	-12.649	1.00	44.62	Al6s	ATOM	48276	N4 CYT	1384	188.815	104.854	-15.287	1.00	50.19	/
ATOM	48224	C4' CYT	1382	202.385	108.620	-12.064	1.00	44.62	Al6s	ATOM	48277	C5 CYT	1384	190.033	103.222	-14.945	1.00	50.19	/
ATOM	48225	O4' CYT	1382	202.570	108.136	-10.772	1.00	44.62	Al6s	ATOM	48278	C2' CYT	1384	188.700	101.686	-12.914	1.00	57.68	/
ATOM	48226	C1' CYT	1382	203.529	108.978	-10.036	1.00	58.00	Al6s	ATOM	48279	O2' CYT	1384	187.285	101.365	-12.591	1.00	77.93	/
ATOM	48227	N1 CYT	1382	203.961	108.569	-8.773	1.00	58.00	Al6s	ATOM	48280	C3' CYT	1384	189.784	101.149	-12.057	1.00	77.93	/
ATOM	48228	C6 CYT	1382	203.439	107.575	-8.252	1.00	58.00	Al6s	ATOM	48281	O3' CYT	1384	188.941	101.187	-14.399	1.00	57.68	/
ATOM	48229	C2 CYT	1382	205.476	110.333	-8.748	1.00	58.00	Al6s	ATOM	48282	P	1385	188.139	101.673	-15.463	1.00	57.68	/
ATOM	48230	O2 CYT	1382	206.481	110.963	-8.122	1.00	58.00	Al6s	ATOM	48283	O1P CYT	1385	190.014	101.841	-16.966	1.00	57.68	/
ATOM	48231	N3 CYT	1382	204.939	109.264	-8.154	1.00	58.00	Al6s	ATOM	48284	O2P CYT	1385	191.982	100.685	-16.557	1.00	77.93	/
ATOM	48232	C4 CYT	1382	205.018	110.802	-10.014	1.00	58.00	Al6s	ATOM	48285	O5' CYT	1385	191.919	101.223	-15.304	1.00	77.93	/
ATOM	48233	N4 CYT	1382	201.217	107.645	-10.248	1.00	44.62	Al6s	ATOM	48286	C5' CYT	1385	193.075	99.932	-16.941	1.00	77.93	/
ATOM	48234	C5 CYT	1382	201.407	106.335	-9.775	1.00	44.62	Al6s	ATOM	48287	C4' CYT	1385	193.088	99.450	-18.071	1.00	77.93	/
ATOM	48235	O2' CYT	1382	200.350	107.658	-11.520	1.00	44.62	Al6s	ATOM	48288	O4' CYT	1385	194.090	99.743	-16.075	1.00	77.93	/
ATOM	48236	C3' CYT	1382	199.775	106.374	-11.790	1.00	44.62	Al6s	ATOM	48289	C1' CYT	1385	194.029	100.275	-14.857	1.00	77.93	/
ATOM	48237	O3' CYT	1382	198.585	105.790	-9.464	1.00	58.99	Al6s	ATOM	48290	N1 CYT	1385	195.058	100.067	-14.035	1.00	77.93	/
ATOM	48238	P	1383	198.958	106.000	-9.464	1.00	58.99	Al6s	ATOM	48291	C6 CYT	1385	192.912	101.044	-14.428	1.00	77.93	/
ATOM	48239	O1P GUA	1383	197.345	106.729	-11.224	1.00	54.04	Al6s	ATOM	48292	C2 CYT	1385	190.994	99.647	-17.867	1.00	57.68	/
ATOM	48240	O2P GUA	1383	196.618	107.359	-10.177	1.00	54.04	Al6s	ATOM	48293	O2 CYT	1385	189.604	99.778	-19.183	1.00	57.68	/
ATOM	48241	O3P GUA	1383	195.276	107.832	-10.669	1.00	54.04	Al6s	ATOM	48294	N3 CYT	1385	188.961	99.726	-16.857	1.00	57.68	/
ATOM	48242	O5' GUA	1383	195.470	108.742	-11.785	1.00	54.04	Al6s	ATOM	48295	C4 CYT	1385	187.773	99.101	-17.340	1.00	57.68	/
ATOM	48243	C4' GUA	1383	194.378	108.629	-12.681	1.00	54.04	Al6s	ATOM	48296	N4 CYT	1385						/
ATOM	48244	C5' GUA	1383	194.867	108.036	-13.914	1.00	58.99	Al6s	ATOM	48297	C5 CYT	1385						/
ATOM	48245	O4' GUA	1383	194.153	107.865	-15.068	1.00	58.99	Al6s	ATOM	48298	C2' CYT	1385						/
ATOM	48246	C1' GUA	1383						Al6s	ATOM	48299	O2' CYT	1385						/
ATOM	48247	N9 GUA	1383						Al6s	ATOM	48300	C3' CYT	1385						/
ATOM	48248	C4 GUA	1383						Al6s	ATOM	48301	O3' CYT	1385						/

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ATOM	48302	P	CYT	1386	187.504	97.547	-17.043	1.00	42.50	Al6S	ATOM	48355	C2	URI	1388	195.039	86.619	-20.784	1.00	65.10	A
ATOM	48303	OlP	CYT	1386	186.042	97.326	-16.921	1.00	56.25	Al6S	ATOM	48356	O2	URI	1388	195.871	86.023	-21.437	1.00	65.10	A
ATOM	48304	O2P	CYT	1386	188.398	97.129	-15.938	1.00	56.25	Al6S	ATOM	48357	N3	URI	1388	195.357	87.306	-19.642	1.00	65.10	A
ATOM	48305	O5'	CYT	1386	187.966	96.833	-18.385	1.00	42.50	Al6S	ATOM	48358	C4	URI	1388	194.497	88.023	-18.847	1.00	65.10	A
ATOM	48306	C4'	CYT	1386	187.454	97.262	-19.637	1.00	42.50	Al6S	ATOM	48359	O4	URI	1388	194.914	88.530	-17.806	1.00	65.10	A
ATOM	48307	C5'	CYT	1386	188.147	96.530	-20.753	1.00	42.50	Al6S	ATOM	48360	C5	URI	1388	193.142	88.038	-19.303	1.00	65.10	A
ATOM	48308	O4'	CYT	1386	189.498	97.029	-20.905	1.00	42.50	Al6S	ATOM	48361	C2'	URI	1388	193.041	84.428	-21.979	1.00	53.36	A
ATOM	48309	C1'	CYT	1386	190.372	95.959	-21.191	1.00	42.50	Al6S	ATOM	48362	O2'	URI	1388	193.447	83.604	-23.057	1.00	53.36	A
ATOM	48310	N1	CYT	1386	191.313	95.845	-20.071	1.00	56.25	Al6S	ATOM	48363	C3'	URI	1388	191.530	84.442	-21.801	1.00	53.36	A
ATOM	48311	C6	CYT	1386	190.946	96.204	-18.803	1.00	56.25	Al6S	ATOM	48364	O3'	URI	1388	190.978	83.151	-21.977	1.00	53.36	A
ATOM	48312	C2	CYT	1386	192.869	95.380	-20.325	1.00	56.25	Al6S	ATOM	48365	P	CYT	1389	190.705	82.232	-20.692	1.00	63.28	A
ATOM	48313	O2	CYT	1386	192.869	95.032	-21.474	1.00	56.25	Al6S	ATOM	48366	OlP	CYT	1389	190.260	80.918	-21.201	1.00	57.71	A
ATOM	48314	N3	CYT	1386	193.483	95.313	-19.318	1.00	56.25	Al6S	ATOM	48367	O2P	CYT	1389	189.867	82.959	-19.711	1.00	57.71	A
ATOM	48315	C4	CYT	1386	193.125	95.677	-18.085	1.00	56.25	Al6S	ATOM	48368	O5'	CYT	1389	192.128	82.093	-20.005	1.00	63.28	A
ATOM	48316	N4	CYT	1386	194.040	95.600	-17.123	1.00	56.25	Al6S	ATOM	48369	C5'	CYT	1389	193.211	81.484	-20.680	1.00	63.28	A
ATOM	48317	C5	CYT	1386	191.812	96.135	-17.787	1.00	56.25	Al6S	ATOM	48370	C4'	CYT	1389	194.437	81.535	-19.810	1.00	63.28	A
ATOM	48318	C2'	CYT	1386	189.502	94.720	-21.407	1.00	42.50	Al6S	ATOM	48371	O4'	CYT	1389	194.863	82.915	-19.648	1.00	63.28	A
ATOM	48319	O2'	CYT	1386	189.127	94.649	-22.768	1.00	42.50	Al6S	ATOM	48372	C1'	CYT	1389	195.415	83.090	-18.352	1.00	63.28	A
ATOM	48320	C3'	CYT	1386	188.308	95.042	-20.521	1.00	42.50	Al6S	ATOM	48373	N1	CYT	1389	194.599	84.080	-17.641	1.00	57.71	A
ATOM	48321	O3'	CYT	1386	187.131	94.367	-20.932	1.00	42.50	Al6S	ATOM	48374	C6	CYT	1389	193.341	84.398	-18.076	1.00	57.71	A
ATOM	48322	P	GUA	1387	186.715	92.986	-20.229	1.00	37.84	Al6S	ATOM	48375	C2	CYT	1389	195.118	84.676	-16.507	1.00	57.71	A
ATOM	48323	OlP	GUA	1387	185.293	92.735	-20.585	1.00	58.30	Al6S	ATOM	48376	O2	CYT	1389	196.268	84.380	-16.154	1.00	57.71	A
ATOM	48324	O2P	GUA	1387	187.120	93.024	-18.807	1.00	58.30	Al6S	ATOM	48377	N3	CYT	1389	194.362	85.558	-15.820	1.00	57.71	A
ATOM	48325	O5'	GUA	1387	187.608	91.897	-20.973	1.00	37.84	Al6S	ATOM	48378	C4	CYT	1389	193.133	85.849	-16.239	1.00	57.71	A
ATOM	48326	C5'	GUA	1387	187.357	91.563	-22.332	1.00	37.84	Al6S	ATOM	48379	N4	CYT	1389	192.423	86.710	-15.526	1.00	57.71	A
ATOM	48327	C4'	GUA	1387	188.461	90.700	-22.871	1.00	37.84	Al6S	ATOM	48380	C5	CYT	1389	192.579	85.267	-17.406	1.00	57.71	A
ATOM	48328	O4'	GUA	1387	189.685	91.478	-22.981	1.00	37.84	Al6S	ATOM	48381	C2'	CYT	1389	195.364	81.727	-17.656	1.00	63.28	A
ATOM	48329	C1'	GUA	1387	190.803	90.647	-22.683	1.00	37.84	Al6S	ATOM	48382	O2'	CYT	1389	196.564	81.007	-17.866	1.00	63.28	A
ATOM	48330	N9	GUA	1387	191.406	91.104	-21.432	1.00	58.30	Al6S	ATOM	48383	C3'	CYT	1389	194.210	81.070	-18.386	1.00	63.28	A
ATOM	48331	C4	GUA	1387	192.749	91.110	-21.119	1.00	58.30	Al6S	ATOM	48384	O3'	CYT	1389	194.277	79.666	-18.274	1.00	63.28	A
ATOM	48332	N3	GUA	1387	193.755	90.702	-21.921	1.00	58.30	Al6S	ATOM	48385	P	ADE	1390	193.558	78.950	-17.036	1.00	57.78	A
ATOM	48333	C2	GUA	1387	194.934	90.831	-21.340	1.00	58.30	Al6S	ATOM	48386	OlP	ADE	1390	193.689	77.478	-17.222	1.00	73.81	A
ATOM	48334	N2	GUA	1387	196.042	90.484	-22.005	1.00	58.30	Al6S	ATOM	48387	O2P	ADE	1390	192.210	79.552	-16.854	1.00	73.81	A
ATOM	48335	C6	GUA	1387	195.115	91.313	-20.070	1.00	58.30	Al6S	ATOM	48388	O5'	ADE	1390	194.460	79.367	-15.796	1.00	57.78	A
ATOM	48336	C6	GUA	1387	194.101	91.738	-19.223	1.00	58.30	Al6S	ATOM	48389	C5'	ADE	1390	195.747	78.810	-15.632	1.00	57.78	A
ATOM	48337	O6	GUA	1387	192.823	91.613	-19.837	1.00	58.30	Al6S	ATOM	48390	C4'	ADE	1390	196.272	79.130	-14.265	1.00	57.78	A
ATOM	48338	C5	GUA	1387	192.823	91.613	-19.837	1.00	58.30	Al6S	ATOM	48391	O4'	ADE	1390	196.503	80.551	-14.163	1.00	57.78	A
ATOM	48339	N7	GUA	1387	191.558	91.923	-19.357	1.00	58.30	Al6S	ATOM	48392	C1'	ADE	1390	196.302	80.962	-12.825	1.00	57.78	A
ATOM	48340	C8	GUA	1387	190.753	91.604	-20.333	1.00	58.30	Al6S	ATOM	48393	N9	ADE	1390	195.246	81.962	-12.820	1.00	73.81	A
ATOM	48341	C2'	GUA	1387	190.249	89.230	-22.567	1.00	37.84	Al6S	ATOM	48394	C4	ADE	1390	194.849	82.715	-11.748	1.00	73.81	A
ATOM	48342	O2'	GUA	1387	190.169	88.677	-23.869	1.00	37.84	Al6S	ATOM	48395	N3	ADE	1390	195.389	82.730	-10.517	1.00	73.81	A
ATOM	48343	O3'	GUA	1387	188.868	89.522	-22.007	1.00	37.84	Al6S	ATOM	48396	C2	ADE	1390	194.719	83.562	-9.727	1.00	73.81	A
ATOM	48344	C3'	GUA	1387	187.988	88.417	-22.148	1.00	37.84	Al6S	ATOM	48397	N1	ADE	1390	193.649	84.314	-10.008	1.00	73.81	A
ATOM	48345	P	URI	1388	188.109	87.180	-21.136	1.00	53.36	Al6S	ATOM	48398	C6	ADE	1390	193.131	84.262	-11.254	1.00	73.81	A
ATOM	48346	OlP	URI	1388	187.039	86.215	-21.460	1.00	65.10	Al6S	ATOM	48399	N6	ADE	1390	192.051	84.985	-11.535	1.00	73.81	A
ATOM	48347	O2P	URI	1388	188.218	87.727	-19.769	1.00	65.10	Al6S	ATOM	48400	C5	ADE	1390	193.758	83.437	-12.183	1.00	73.81	A
ATOM	48348	O5'	URI	1388	189.501	86.501	-22.506	1.00	53.36	Al6S	ATOM	48401	N7	ADE	1390	193.502	83.181	-13.519	1.00	73.81	A
ATOM	48349	C5'	URI	1388	189.721	85.967	-22.804	1.00	53.36	Al6S	ATOM	48402	C8	ADE	1390	194.419	82.310	-13.852	1.00	73.81	A
ATOM	48350	C4'	URI	1388	191.109	85.383	-22.909	1.00	53.36	Al6S	ATOM	48403	C2'	ADE	1390	195.898	79.722	-12.024	1.00	57.78	A
ATOM	48351	O4'	URI	1388	192.115	86.432	-22.844	1.00	53.36	Al6S	ATOM	48404	O2'	ADE	1390	197.040	79.146	-11.446	1.00	57.78	A
ATOM	48352	C1'	URI	1388	193.319	85.892	-22.326	1.00	53.36	Al6S	ATOM	48405	C3'	ADE	1390	195.342	78.822	-13.110	1.00	57.78	A
ATOM	48353	N1	URI	1388	193.713	86.658	-21.140	1.00	65.10	Al6S	ATOM	48406	O3'	ADE	1390	195.501	77.472	-12.725	1.00	57.78	A
ATOM	48354	C6	URI	1388	192.805	87.368	-20.406	1.00	65.10	Al6S	ATOM	48407	P	CYT	1391	194.267	76.677	-12.092	1.00	53.98	A

ATOM	48408	OLP	CYT	1391	194.686	75.269	-11.901	1.00	64.34	Al6S	ATOM	48461	O2	CYT	1393	181.771	80.418	-6.911	1.00	55.94	P
ATOM	48409	O2P	CYT	1391	193.071	76.974	-12.917	1.00	64.34	Al6S	ATOM	48462	N3	CYT	1393	183.145	79.860	-8.610	1.00	55.94	P
ATOM	48410	O5	CYT	1391	194.082	77.132	-10.653	1.00	53.98	Al6S	ATOM	48463	C4	CYT	1393	184.240	79.222	-9.007	1.00	55.94	P
ATOM	48411	C5	CYT	1391	195.045	77.132	-9.634	1.00	53.98	Al6S	ATOM	48464	N4	CYT	1393	184.570	79.304	-10.291	1.00	55.94	P
ATOM	48412	C4	CYT	1391	194.638	77.860	-8.382	1.00	53.98	Al6S	ATOM	48465	C5	CYT	1393	185.050	78.479	-8.103	1.00	55.94	P
ATOM	48413	O4	CYT	1391	194.696	79.232	-8.617	1.00	53.98	Al6S	ATOM	48466	C2	CYT	1393	181.946	78.285	-4.699	1.00	77.54	P
ATOM	48414	C1	CYT	1391	193.672	79.942	-7.860	1.00	53.98	Al6S	ATOM	48467	O2	CYT	1393	181.178	78.883	-3.675	1.00	77.54	P
ATOM	48415	N1	CYT	1391	192.724	80.577	-8.791	1.00	64.34	Al6S	ATOM	48468	C3	CYT	1393	182.581	76.974	-4.271	1.00	77.54	P
ATOM	48416	C6	CYT	1391	192.685	80.225	-10.110	1.00	64.34	Al6S	ATOM	48469	O3	CYT	1393	181.674	76.165	-3.537	1.00	77.54	P
ATOM	48417	C2	CYT	1391	191.850	81.536	-8.296	1.00	64.34	Al6S	ATOM	48470	P	CYT	1394	180.841	75.023	-4.306	1.00	56.47	P
ATOM	48418	O2	CYT	1391	191.914	81.838	-7.101	1.00	64.34	Al6S	ATOM	48471	O1P	CYT	1394	180.219	74.158	-3.267	1.00	57.23	P
ATOM	48419	N3	CYT	1391	190.958	82.108	-9.126	1.00	64.34	Al6S	ATOM	48472	O2P	CYT	1394	181.726	74.416	-5.339	1.00	57.23	P
ATOM	48420	C4	CYT	1391	190.914	81.747	-10.406	1.00	64.34	Al6S	ATOM	48473	O5	CYT	1394	179.707	75.822	-5.090	1.00	56.47	P
ATOM	48421	N4	CYT	1391	189.998	82.321	-11.188	1.00	64.34	Al6S	ATOM	48474	C5	CYT	1394	178.794	76.651	-4.391	1.00	56.47	P
ATOM	48422	C5	CYT	1391	191.802	80.779	-10.943	1.00	64.34	Al6S	ATOM	48475	C4	CYT	1394	178.020	77.507	-5.357	1.00	56.47	P
ATOM	48423	C2	CYT	1391	192.984	78.855	-7.039	1.00	53.98	Al6S	ATOM	48476	O4	CYT	1394	178.918	78.422	-6.027	1.00	56.47	P
ATOM	48424	O2	CYT	1391	193.618	78.733	-5.783	1.00	53.98	Al6S	ATOM	48477	C1	CYT	1394	178.406	78.722	-7.310	1.00	56.47	P
ATOM	48425	C3	CYT	1391	193.206	77.648	-7.931	1.00	53.98	Al6S	ATOM	48478	N1	CYT	1394	179.421	78.356	-8.296	1.00	57.23	P
ATOM	48426	O3	CYT	1391	193.015	76.434	-7.236	1.00	53.98	Al6S	ATOM	48479	C6	CYT	1394	180.380	77.431	-8.002	1.00	57.23	P
ATOM	48427	P	GUA	1392	191.697	75.571	-7.537	1.00	65.57	Al6S	ATOM	48480	C2	CYT	1394	179.388	78.965	-9.547	1.00	57.23	P
ATOM	48428	O1P	GUA	1392	191.916	74.185	-7.064	1.00	65.57	Al6S	ATOM	48481	O2	CYT	1394	178.515	78.617	-9.774	1.00	57.23	P
ATOM	48429	O2P	GUA	1392	191.327	75.814	-8.954	1.00	65.57	Al6S	ATOM	48482	N3	CYT	1394	180.307	78.619	-10.473	1.00	57.23	P
ATOM	48430	O5	GUA	1392	190.595	76.244	-6.606	1.00	68.35	Al6S	ATOM	48483	C4	CYT	1394	181.241	77.717	-10.177	1.00	57.23	P
ATOM	48431	C5	GUA	1392	190.798	76.351	-5.200	1.00	68.35	Al6S	ATOM	48484	N4	CYT	1394	182.133	77.416	-11.114	1.00	57.23	P
ATOM	48432	C4	GUA	1392	189.947	77.246	-4.584	1.00	68.35	Al6S	ATOM	48485	C5	CYT	1394	181.303	77.086	-8.904	1.00	57.23	P
ATOM	48433	O4	GUA	1392	189.731	78.613	-5.040	1.00	68.35	Al6S	ATOM	48486	C2	CYT	1394	177.116	77.917	-7.488	1.00	56.47	P
ATOM	48434	C1	GUA	1392	188.670	79.251	-5.138	1.00	68.35	Al6S	ATOM	48487	O2	CYT	1394	175.996	78.703	-7.133	1.00	56.47	P
ATOM	48435	N9	GUA	1392	188.466	79.627	-6.532	1.00	65.57	Al6S	ATOM	48488	C3	CYT	1394	177.330	76.786	-6.499	1.00	56.47	P
ATOM	48436	C4	GUA	1392	187.493	80.457	-7.028	1.00	65.57	Al6S	ATOM	48489	O3	CYT	1394	176.081	76.273	-6.078	1.00	56.47	P
ATOM	48437	N3	GUA	1392	186.530	81.064	-6.313	1.00	65.57	Al6S	ATOM	48490	P	ADE	1395	174.405	74.433	-5.952	1.00	59.17	P
ATOM	48438	C2	GUA	1392	185.745	81.804	-7.074	1.00	65.57	Al6S	ATOM	48491	O1P	ADE	1395	176.577	74.159	-7.292	1.00	59.17	P
ATOM	48439	N1	GUA	1392	185.918	82.466	-6.529	1.00	65.57	Al6S	ATOM	48492	O2P	ADE	1395	174.737	75.636	-8.105	1.00	56.47	P
ATOM	48440	C6	GUA	1392	186.889	81.333	-9.181	1.00	65.57	Al6S	ATOM	48493	O5	ADE	1395	173.489	76.305	-7.984	1.00	56.47	P
ATOM	48441	O6	GUA	1392	186.946	81.534	-10.400	1.00	65.57	Al6S	ATOM	48494	C5	ADE	1395	173.193	77.100	-9.232	1.00	56.47	P
ATOM	48442	C5	GUA	1392	187.727	80.525	-8.381	1.00	65.57	Al6S	ATOM	48495	C4	ADE	1395	174.298	78.004	-9.493	1.00	56.47	P
ATOM	48443	N7	GUA	1392	188.814	79.742	-8.731	1.00	65.57	Al6S	ATOM	48496	O4	ADE	1395	174.423	78.206	-10.886	1.00	56.47	P
ATOM	48444	C8	GUA	1392	189.218	79.229	-7.603	1.00	65.57	Al6S	ATOM	48497	C1	ADE	1395	175.708	77.672	-11.313	1.00	59.17	P
ATOM	48445	C8	GUA	1392	187.631	78.253	-4.624	1.00	68.35	Al6S	ATOM	48498	N9	ADE	1395	176.321	77.951	-12.505	1.00	59.17	P
ATOM	48446	C2	GUA	1392	187.485	78.410	-3.230	1.00	68.35	Al6S	ATOM	48499	C4	ADE	1395	175.882	78.773	-13.467	1.00	59.17	P
ATOM	48447	O2	GUA	1392	188.308	76.935	-4.945	1.00	68.35	Al6S	ATOM	48500	N3	ADE	1395	176.723	78.782	-14.493	1.00	59.17	P
ATOM	48448	C3	GUA	1392	187.793	75.907	-4.122	1.00	68.35	Al6S	ATOM	48501	C2	ADE	1395	177.865	78.117	-14.653	1.00	59.17	P
ATOM	48449	O3	GUA	1392	186.581	74.998	-4.652	1.00	77.54	Al6S	ATOM	48502	N1	ADE	1395	178.280	77.303	-13.662	1.00	59.17	P
ATOM	48450	P	CYT	1393	186.453	73.870	-3.700	1.00	55.94	Al6S	ATOM	48503	C6	ADE	1395	179.426	76.640	-13.819	1.00	59.17	P
ATOM	48451	O1P	CYT	1393	186.794	74.725	-6.099	1.00	55.94	Al6S	ATOM	48504	N6	ADE	1395	177.475	77.203	-12.519	1.00	59.17	P
ATOM	48452	O5P	CYT	1393	184.879	76.450	-4.519	1.00	77.54	Al6S	ATOM	48505	C5	ADE	1395	176.600	76.474	-11.347	1.00	59.17	P
ATOM	48453	C5	CYT	1393	183.759	77.452	-3.442	1.00	77.54	Al6S	ATOM	48506	N7	ADE	1395	176.531	76.792	-10.665	1.00	59.17	P
ATOM	48454	O5	CYT	1393	184.247	78.593	-4.200	1.00	77.54	Al6S	ATOM	48507	C8	ADE	1395	173.282	77.437	-11.545	1.00	56.47	P
ATOM	48455	C4	CYT	1393	183.186	79.134	-4.973	1.00	77.54	Al6S	ATOM	48508	C2	ADE	1395	172.162	78.287	-11.654	1.00	56.47	P
ATOM	48456	C1	CYT	1393	183.575	79.128	-6.393	1.00	55.94	Al6S	ATOM	48509	O2	ADE	1395	173.052	76.329	-10.533	1.00	56.47	P
ATOM	48457	N1	CYT	1393	184.685	78.459	-6.817	1.00	55.94	Al6S	ATOM	48510	C3	ADE	1395	171.737	75.805	-10.668	1.00	56.47	P
ATOM	48458	C6	CYT	1393	182.784	79.834	-7.312	1.00	55.94	Al6S	ATOM	48511	P	URI	1396	169.990	74.364	-11.687	1.00	50.56	P
ATOM	48459	C2	CYT	1393						Al6S	ATOM	48512	O1P	URI	1396						P
ATOM	48460	C2	CYT	1393						Al6S	ATOM	48513	O1P	URI	1396						P

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ATOM	48514	O2P	URI	1396	172.327	73.404	-11.218	1.00	62.61	Al6S	ATOM	48567	N2	GUA	1398	178.829	67.009	-24.212	1.00	66.85	Al1
ATOM	48515	O5'	URI	1396	171.926	75.008	-13.074	1.00	50.56	Al6S	ATOM	48568	N1	GUA	1398	177.982	67.692	-22.187	1.00	66.85	Al1
ATOM	48516	C5'	URI	1396	171.145	75.927	-13.812	1.00	50.56	Al6S	ATOM	48569	C6	GUA	1398	177.152	68.398	-21.326	1.00	66.85	Al1
ATOM	48517	C4'	URI	1396	171.868	76.338	-15.064	1.00	50.56	Al6S	ATOM	48570	O6	GUA	1398	177.255	68.248	-20.103	1.00	66.85	Al1
ATOM	48518	O4'	URI	1396	173.195	76.829	-14.732	1.00	50.56	Al6S	ATOM	48571	C5	GUA	1398	176.264	69.235	-22.035	1.00	66.85	Al1
ATOM	48519	C1'	URI	1396	174.063	76.612	-15.829	1.00	50.56	Al6S	ATOM	48572	N7	GUA	1398	175.278	70.089	-21.570	1.00	66.85	Al1
ATOM	48520	N1	URI	1396	175.195	75.787	-15.389	1.00	62.61	Al6S	ATOM	48573	C8	GUA	1398	174.775	70.613	-22.653	1.00	66.85	Al1
ATOM	48521	C6	URI	1396	175.203	75.180	-14.163	1.00	62.61	Al6S	ATOM	48574	C2'	GUA	1398	174.489	69.456	-26.037	1.00	59.12	Al1
ATOM	48522	C2	URI	1396	176.243	75.611	-16.273	1.00	62.61	Al6S	ATOM	48575	O2'	GUA	1398	174.924	69.659	-27.370	1.00	59.12	Al1
ATOM	48523	O2	URI	1396	176.317	76.186	-17.339	1.00	62.61	Al6S	ATOM	48576	C3'	GUA	1398	172.995	69.703	-25.868	1.00	59.12	Al1
ATOM	48524	N3	URI	1396	177.211	74.742	-15.856	1.00	62.61	Al6S	ATOM	48577	O3'	GUA	1398	172.250	69.215	-26.974	1.00	59.12	Al1
ATOM	48525	C4	URI	1396	177.255	74.064	-14.663	1.00	62.61	Al6S	ATOM	48578	P	GUA	1399	171.463	67.826	-26.852	1.00	75.31	Al1
ATOM	48526	O4	URI	1396	178.124	73.209	-14.490	1.00	62.61	Al6S	ATOM	48579	O1P	GUA	1399	171.001	67.478	-28.219	1.00	70.42	Al1
ATOM	48527	C5'	URI	1396	176.171	74.348	-13.779	1.00	62.61	Al6S	ATOM	48580	O2P	GUA	1399	170.477	67.926	-25.756	1.00	70.42	Al1
ATOM	48528	C2'	URI	1396	173.234	75.901	-16.904	1.00	50.56	Al6S	ATOM	48581	O5'	GUA	1399	172.594	66.801	-26.396	1.00	75.31	Al1
ATOM	48529	O2'	URI	1396	172.691	76.867	-17.776	1.00	50.56	Al6S	ATOM	48582	C5'	GUA	1399	173.664	66.451	-27.271	1.00	75.31	Al1
ATOM	48530	C3'	URI	1396	172.153	75.241	-16.065	1.00	50.56	Al6S	ATOM	48583	C4'	GUA	1399	174.661	65.570	-26.555	1.00	75.31	Al1
ATOM	48531	O3'	URI	1396	170.992	74.972	-16.837	1.00	50.56	Al6S	ATOM	48584	O4'	GUA	1399	175.304	66.323	-25.497	1.00	75.31	Al1
ATOM	48532	P	GUA	1397	170.830	73.554	-17.582	1.00	52.89	Al6S	ATOM	48585	C1'	GUA	1399	175.578	65.467	-24.406	1.00	75.31	Al1
ATOM	48533	O1P	GUA	1397	169.369	73.314	-17.720	1.00	69.53	Al6S	ATOM	48586	N9	GUA	1399	174.891	65.995	-23.233	1.00	70.42	Al1
ATOM	48534	O2P	GUA	1397	171.680	72.534	-16.917	1.00	69.53	Al6S	ATOM	48587	C4	GUA	1399	175.198	65.729	-21.924	1.00	70.42	Al1
ATOM	48535	O5'	GUA	1397	171.426	73.823	-19.030	1.00	52.89	Al6S	ATOM	48588	N3	GUA	1399	176.182	64.914	-21.495	1.00	70.42	Al1
ATOM	48536	C5'	GUA	1397	170.879	74.837	-19.845	1.00	52.89	Al6S	ATOM	48589	C2	GUA	1399	176.247	64.867	-20.178	1.00	70.42	Al1
ATOM	48537	C4'	GUA	1397	171.716	75.024	-21.081	1.00	52.89	Al6S	ATOM	48590	N2	GUA	1399	177.173	64.097	-19.584	1.00	70.42	Al1
ATOM	48538	O4'	GUA	1397	173.036	75.432	-20.705	1.00	52.89	Al6S	ATOM	48591	N1	GUA	1399	175.412	65.568	-19.348	1.00	70.42	Al1
ATOM	48539	C1'	GUA	1397	173.993	74.992	-21.622	1.00	52.89	Al6S	ATOM	48592	C6	GUA	1399	174.397	66.417	-19.769	1.00	70.42	Al1
ATOM	48540	N9	GUA	1397	174.938	74.174	-20.873	1.00	69.53	Al6S	ATOM	48593	O6	GUA	1399	173.707	67.009	-18.932	1.00	70.42	Al1
ATOM	48541	C4	GUA	1397	176.015	73.501	-21.384	1.00	69.53	Al6S	ATOM	48594	C5	GUA	1399	174.313	66.471	-21.181	1.00	70.42	Al1
ATOM	48542	N3	GUA	1397	176.386	73.478	-22.678	1.00	69.53	Al6S	ATOM	48595	N7	GUA	1399	173.452	67.181	-22.005	1.00	70.42	Al1
ATOM	48543	C2	GUA	1397	177.466	72.748	-22.866	1.00	69.53	Al6S	ATOM	48596	C8	GUA	1399	173.830	66.864	-23.213	1.00	70.42	Al1
ATOM	48544	N2	GUA	1397	177.963	72.607	-24.101	1.00	69.53	Al6S	ATOM	48597	C2'	GUA	1399	175.140	64.057	-24.805	1.00	75.31	Al1
ATOM	48545	N1	GUA	1397	178.135	72.098	-21.859	1.00	69.53	Al6S	ATOM	48598	O2'	GUA	1399	176.233	63.364	-25.367	1.00	75.31	Al1
ATOM	48546	C6	GUA	1397	177.769	72.108	-20.518	1.00	69.53	Al6S	ATOM	48599	C3'	GUA	1399	174.078	64.357	-25.851	1.00	75.31	Al1
ATOM	48547	O6	GUA	1397	178.446	71.488	-19.688	1.00	69.53	Al6S	ATOM	48600	O3'	GUA	1399	173.964	63.275	-26.762	1.00	75.31	Al1
ATOM	48548	N7	GUA	1397	176.607	72.882	-20.306	1.00	69.53	Al6S	ATOM	48601	P	ADE	1400	172.718	62.570	-27.800	1.00	89.93	Al1
ATOM	48549	C8	GUA	1397	174.932	73.928	-19.522	1.00	69.53	Al6S	ATOM	48602	O1P	ADE	1400	172.189	62.317	-25.270	1.00	89.93	Al1
ATOM	48550	N7	GUA	1397	174.914	73.160	-19.136	1.00	69.53	Al6S	ATOM	48603	O2P	ADE	1400	173.365	60.841	-26.895	1.00	113.09	Al1
ATOM	48551	C2'	GUA	1397	173.222	74.204	-22.683	1.00	52.89	Al6S	ATOM	48604	O5'	ADE	1400	173.930	59.399	-27.970	1.00	113.09	Al1
ATOM	48552	O2'	GUA	1397	172.878	75.046	-23.767	1.00	52.89	Al6S	ATOM	48605	C5'	ADE	1400	174.943	59.399	-27.970	1.00	113.09	Al1
ATOM	48553	C3'	GUA	1397	172.000	73.775	-21.888	1.00	52.89	Al6S	ATOM	48606	C4'	ADE	1400	176.039	59.903	-27.155	1.00	113.09	Al1
ATOM	48554	O3'	GUA	1397	170.909	73.437	-22.726	1.00	52.89	Al6S	ATOM	48607	O4'	ADE	1400	176.483	58.886	-26.269	1.00	113.09	Al1
ATOM	48555	P	GUA	1398	170.499	71.896	-22.891	1.00	59.12	Al6S	ATOM	48608	C1'	ADE	1400	176.092	59.263	-24.914	1.00	89.93	Al1
ATOM	48556	O1P	GUA	1398	169.221	71.834	-23.647	1.00	66.85	Al6S	ATOM	48609	N9	ADE	1400	176.675	58.825	-23.753	1.00	89.93	Al1
ATOM	48557	O2P	GUA	1398	170.601	71.253	-21.554	1.00	66.85	Al6S	ATOM	48610	C4	ADE	1400	177.726	58.000	-23.634	1.00	89.93	Al1
ATOM	48558	O5'	GUA	1398	171.625	71.324	-23.851	1.00	59.12	Al6S	ATOM	48611	N3	ADE	1400	178.005	57.784	-22.354	1.00	89.93	Al1
ATOM	48559	C5'	GUA	1398	171.728	71.805	-25.178	1.00	59.12	Al6S	ATOM	48612	C2	ADE	1400	177.399	58.262	-21.262	1.00	89.93	Al1
ATOM	48560	C4'	GUA	1398	172.934	71.218	-25.846	1.00	59.12	Al6S	ATOM	48613	N1	ADE	1400	176.343	59.087	-21.419	1.00	89.93	Al1
ATOM	48561	O4'	GUA	1398	174.118	71.608	-25.109	1.00	59.12	Al6S	ATOM	48614	C6	ADE	1400	175.731	59.559	-20.331	1.00	89.93	Al1
ATOM	48562	C1'	GUA	1398	175.075	70.567	-25.164	1.00	59.12	Al6S	ATOM	48615	N6	ADE	1400	175.949	59.397	-22.727	1.00	89.93	Al1
ATOM	48563	N9	GUA	1398	175.375	70.160	-23.799	1.00	66.85	Al6S	ATOM	48616	C5	ADE	1400	174.935	60.197	-23.230	1.00	89.93	Al1
ATOM	48564	C4	GUA	1398	176.328	69.263	-23.410	1.00	66.85	Al6S	ATOM	48617	N7	ADE	1400	175.066	60.088	-24.529	1.00	89.93	Al1
ATOM	48565	N3	GUA	1398	177.145	68.573	-24.230	1.00	66.85	Al6S	ATOM	48618	C8	ADE	1400	175.751	57.608	-26.676	1.00	113.09	Al1
ATOM	48566	C2	GUA	1398	177.961	67.783	-23.556	1.00	66.85	Al6S	ATOM	48619	C2'	ADE	1400						Al1

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ATOM	48620	O2' ADE	1400	176.488	56.920	-27.667	1.00113.09	Al6S	ATOM	48673	Cl' GUA	1403	166.458	54.222	-15.173	1.00133.70	/
ATOM	48621	C3' ADE	1400	174.446	58.189	-27.195	1.00113.09	Al6S	ATOM	48674	N9 GUA	1403	166.503	55.029	-16.388	1.00126.66	/
ATOM	48622	O3' ADE	1400	173.722	57.274	-28.007	1.00113.09	Al6S	ATOM	48675	C4 GUA	1403	165.896	56.247	-16.579	1.00126.66	/
ATOM	48623	P GUA	1401	172.535	56.401	-27.357	1.00121.91	Al6S	ATOM	48676	N3 GUA	1403	165.177	56.925	-15.661	1.00126.66	/
ATOM	48624	O1P GUA	1401	172.329	55.255	-28.273	1.00105.79	Al6S	ATOM	48677	C2 GUA	1403	164.710	58.062	-16.142	1.00126.66	/
ATOM	48625	O2P GUA	1401	171.387	57.275	-27.013	1.00105.79	Al6S	ATOM	48678	N2 GUA	1403	163.980	58.868	-15.358	1.00126.66	/
ATOM	48626	O5' GUA	1401	173.150	55.849	-25.994	1.00121.91	Al6S	ATOM	48679	N1 GUA	1403	164.926	58.496	-17.427	1.00126.66	/
ATOM	48627	C5' GUA	1401	174.118	54.806	-25.997	1.00121.91	Al6S	ATOM	48680	C6 GUA	1403	165.661	57.813	-18.389	1.00126.66	/
ATOM	48628	C4' GUA	1401	174.469	54.418	-24.582	1.00121.91	Al6S	ATOM	48681	O6 GUA	1403	165.789	58.293	-19.520	1.00126.66	/
ATOM	48629	O4' GUA	1401	175.029	55.573	-23.903	1.00121.91	Al6S	ATOM	48682	C5 GUA	1403	166.176	56.595	-17.882	1.00126.66	/
ATOM	48630	Cl' GUA	1401	174.612	55.580	-22.547	1.00121.91	Al6S	ATOM	48683	N7 GUA	1403	166.957	55.625	-18.494	1.00126.66	/
ATOM	48631	N9 GUA	1401	173.738	56.755	-22.340	1.00105.79	Al6S	ATOM	48684	C8 GUA	1403	167.129	54.718	-17.570	1.00126.66	/
ATOM	48632	C4 GUA	1401	173.498	57.369	-21.140	1.00105.79	Al6S	ATOM	48685	C2' GUA	1403	165.075	53.595	-14.997	1.00133.70	/
ATOM	48633	N3 GUA	1401	173.971	57.999	-19.930	1.00105.79	Al6S	ATOM	48686	O2' GUA	1403	164.845	53.338	-13.626	1.00133.70	/
ATOM	48634	C2 GUA	1401	173.518	57.780	-18.962	1.00105.79	Al6S	ATOM	48687	C3' GUA	1403	165.236	52.330	-15.829	1.00133.70	/
ATOM	48635	N2 GUA	1401	173.883	57.553	-17.692	1.00105.79	Al6S	ATOM	48688	O3' GUA	1403	164.247	51.345	-15.532	1.00133.70	/
ATOM	48636	N1 GUA	1401	172.673	58.839	-19.166	1.00105.79	Al6S	ATOM	48689	P GUA	1404	162.969	51.177	-16.503	1.00129.36	/
ATOM	48637	C6 GUA	1401	172.172	59.238	-20.401	1.00105.79	Al6S	ATOM	48690	O1P GUA	1404	162.357	49.859	-16.198	1.00117.46	/
ATOM	48638	O6 GUA	1401	171.406	60.211	-20.472	1.00105.79	Al6S	ATOM	48691	O2P GUA	1404	163.369	51.494	-17.897	1.00117.46	/
ATOM	48639	C5 GUA	1401	172.649	58.409	-21.449	1.00105.79	Al6S	ATOM	48692	O5' GUA	1404	161.952	52.296	-16.007	1.00129.36	/
ATOM	48640	N7 GUA	1401	172.402	58.454	-22.814	1.00105.79	Al6S	ATOM	48693	C5' GUA	1404	161.392	52.232	-14.702	1.00129.36	/
ATOM	48641	C8 GUA	1401	173.089	57.458	-22.301	1.00105.79	Al6S	ATOM	48694	O4' GUA	1404	160.683	53.520	-14.374	1.00129.36	/
ATOM	48642	C2' GUA	1401	173.843	54.280	-22.313	1.00121.91	Al6S	ATOM	48695	C4' GUA	1404	161.635	54.621	-14.451	1.00129.36	/
ATOM	48643	O2' GUA	1401	174.731	53.275	-21.868	1.00121.91	Al6S	ATOM	48696	Cl' GUA	1404	160.987	55.779	-14.961	1.00129.36	/
ATOM	48644	C3' GUA	1401	173.297	54.008	-23.706	1.00121.91	Al6S	ATOM	48697	N9 GUA	1404	161.499	56.035	-16.302	1.00117.46	/
ATOM	48645	O3' GUA	1401	172.973	52.635	-23.884	1.00121.91	Al6S	ATOM	48698	C4 GUA	1404	161.330	57.186	-17.034	1.00117.46	/
ATOM	48646	P GUA	1402	171.435	52.167	-23.831	1.00110.49	Al6S	ATOM	48699	N3 GUA	1404	160.699	58.304	-16.619	1.00117.46	/
ATOM	48647	O1P CYT	1402	171.402	50.725	-24.184	1.00167.38	Al6S	ATOM	48700	C2 GUA	1404	160.681	59.237	-17.556	1.00117.46	/
ATOM	48648	O2P CYT	1402	170.634	53.135	-24.622	1.00167.38	Al6S	ATOM	48701	N2 GUA	1404	160.103	60.419	-17.309	1.00117.46	/
ATOM	48649	O5' CYT	1402	171.031	52.312	-22.295	1.00110.49	Al6S	ATOM	48702	N1 GUA	1404	161.230	59.080	-18.802	1.00117.46	/
ATOM	48650	C5' CYT	1402	171.671	51.521	-21.298	1.00110.49	Al6S	ATOM	48703	C6 GUA	1404	161.881	57.935	-19.251	1.00117.46	/
ATOM	48651	C4' CYT	1402	171.503	52.149	-19.933	1.00110.49	Al6S	ATOM	48704	O6 GUA	1404	162.334	57.894	-20.401	1.00117.46	/
ATOM	48652	O4' CYT	1402	172.018	53.508	-19.968	1.00110.49	Al6S	ATOM	48705	C5 GUA	1404	161.918	56.932	-18.253	1.00117.46	/
ATOM	48653	C1' CYT	1402	171.254	54.332	-19.101	1.00110.49	Al6S	ATOM	48706	N7 GUA	1404	162.471	55.660	-18.279	1.00117.46	/
ATOM	48654	N1 CYT	1402	170.603	55.377	-19.910	1.00167.38	Al6S	ATOM	48707	C8 GUA	1404	162.205	55.431	-15.046	1.00129.36	/
ATOM	48655	C6 CYT	1402	170.599	55.307	-21.275	1.00167.38	Al6S	ATOM	48708	C2' GUA	1404	158.873	55.721	-13.814	1.00129.36	/
ATOM	48656	C2 CYT	1402	169.979	56.446	-19.257	1.00167.38	Al6S	ATOM	48709	O2' GUA	1404	159.584	53.941	-15.336	1.00129.36	/
ATOM	48657	O2 CYT	1402	170.004	56.489	-18.018	1.00167.38	Al6S	ATOM	48710	C3' GUA	1404	158.351	53.270	-15.103	1.00129.36	/
ATOM	48658	N3 CYT	1402	169.366	57.402	-19.991	1.00167.38	Al6S	ATOM	48711	O3' GUA	1404	157.231	53.251	-16.260	1.00130.50	/
ATOM	48659	C4 CYT	1402	169.355	57.322	-21.323	1.00167.38	Al6S	ATOM	48712	P GUA	1405	156.156	52.310	-15.851	1.00123.46	/
ATOM	48660	N4 CYT	1402	168.747	58.286	-22.007	1.00167.38	Al6S	ATOM	48713	O1P GUA	1405	157.919	53.055	-17.562	1.00123.46	/
ATOM	48661	C5 CYT	1402	169.992	56.248	-22.014	1.00167.38	Al6S	ATOM	48714	O2P GUA	1405	156.636	54.727	-16.230	1.00130.50	/
ATOM	48662	C2' CYT	1402	170.252	53.420	-18.394	1.00110.49	Al6S	ATOM	48715	O5' GUA	1405	156.076	55.264	-15.034	1.00130.50	/
ATOM	48663	O2' CYT	1402	170.810	52.946	-17.183	1.00110.49	Al6S	ATOM	48716	C5' GUA	1405	155.581	56.668	-15.277	1.00130.50	/
ATOM	48664	C3' CYT	1402	170.079	52.320	-19.432	1.00110.49	Al6S	ATOM	48717	C4' GUA	1405	156.709	57.537	-15.570	1.00130.50	/
ATOM	48665	O3' CYT	1402	169.581	51.124	-18.845	1.00110.49	Al6S	ATOM	48718	O4' GUA	1405	156.363	58.444	-16.607	1.00130.50	/
ATOM	48666	P GUA	1403	168.009	50.795	-18.922	1.00133.70	Al6S	ATOM	48719	Cl' GUA	1405	157.137	58.087	-17.793	1.00123.46	/
ATOM	48667	O1P GUA	1403	167.851	49.342	-18.663	1.00126.66	Al6S	ATOM	48720	N9 GUA	1405	157.223	58.803	-18.962	1.00123.46	/
ATOM	48668	O2P GUA	1403	167.462	51.382	-20.173	1.00126.66	Al6S	ATOM	48721	C4 GUA	1405	156.603	59.973	-19.223	1.00123.46	/
ATOM	48669	O5' GUA	1403	167.350	51.581	-17.687	1.00133.70	Al6S	ATOM	48722	N3 GUA	1405	156.882	60.418	-20.437	1.00123.46	/
ATOM	48670	C5' GUA	1403	166.636	50.988	-16.396	1.00133.70	Al6S	ATOM	48723	C2 GUA	1405	156.350	61.570	-20.866	1.00123.46	/
ATOM	48671	C4' GUA	1403	167.370	53.143	-15.322	1.00133.70	Al6S	ATOM	48724	N2 GUA	1405	157.702	59.766	-21.323	1.00123.46	/
ATOM	48672	O4' GUA	1403						ATOM	48725	N1 GUA	1405					/

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ATOM	48726	C6	GUA	1405	158.349	58.560	-21.076	1.00123.46	Al6S	ATOM	48779	C5' CYT	1408	146.731	60.075	-28.298	1.00121.62	Al6S	
ATOM	48727	O6	GUA	1405	159.066	58.057	-21.947	1.00123.46	Al6S	ATOM	48780	C4' CYT	1408	147.422	59.917	-29.624	1.00121.62	Al6S	
ATOM	48728	C5	GUA	1405	158.061	58.071	-19.778	1.00123.46	Al6S	ATOM	48781	O4' CYT	1408	148.834	59.661	-29.412	1.00121.62	Al6S	
ATOM	48729	N7	GUA	1405	158.493	56.919	-19.136	1.00123.46	Al6S	ATOM	48782	C1' CYT	1408	149.330	58.859	-30.472	1.00121.62	Al6S	
ATOM	48730	C8	GUA	1405	157.921	56.970	-17.964	1.00123.46	Al6S	ATOM	48783	N1 CYT	1408	149.981	57.671	-29.898	1.00129.61	Al6S	
ATOM	48731	C2' GUA	1405	154.862	58.284	-16.835	1.00130.50	Al6S	ATOM	48784	C6 CYT	1408	149.862	57.378	-28.569	1.00129.61	Al6S		
ATOM	48732	O2' GUA	1405	154.156	59.132	-15.956	1.00130.50	Al6S	ATOM	48785	C2 CYT	1408	150.740	56.845	-30.740	1.00129.61	Al6S		
ATOM	48733	C3' GUA	1405	154.681	56.816	-16.488	1.00130.50	Al6S	ATOM	48786	O2 CYT	1408	150.816	57.122	-31.946	1.00129.61	Al6S		
ATOM	48734	O3' GUA	1405	153.337	56.484	-16.186	1.00130.50	Al6S	ATOM	48787	N3 CYT	1408	151.366	55.767	-30.218	1.00129.61	Al6S		
ATOM	48735	P	CYT	1406	152.383	55.933	-17.354	1.00124.24	Al6S	ATOM	48788	C4 CYT	1408	151.255	55.498	-28.915	1.00129.61	Al6S	
ATOM	48736	O1P	CYT	1406	151.087	55.554	-16.734	1.00141.61	Al6S	ATOM	48789	N4 CYT	1408	151.903	54.433	-28.438	1.00129.61	Al6S	
ATOM	48737	O2P	CYT	1406	153.143	54.928	-18.145	1.00141.61	Al6S	ATOM	48790	C5 CYT	1408	150.476	56.312	-28.040	1.00129.61	Al6S	
ATOM	48738	O5' CYT	1406	152.149	57.215	-18.268	1.00124.24	Al6S	ATOM	48791	C2' CYT	1408	148.150	58.534	-31.390	1.00121.62	Al6S		
ATOM	48739	C5' CYT	1406	151.775	58.455	-17.684	1.00124.24	Al6S	ATOM	48792	O2' CYT	1408	148.129	59.444	-32.471	1.00121.62	Al6S		
ATOM	48740	C4' CYT	1406	151.797	59.548	-18.719	1.00124.24	Al6S	ATOM	48793	C3' CYT	1408	146.971	58.727	-30.447	1.00121.62	Al6S		
ATOM	48741	O4' CYT	1406	153.153	59.775	-19.178	1.00124.24	Al6S	ATOM	48794	O3' CYT	1408	145.773	59.013	-31.153	1.00121.62	Al6S		
ATOM	48742	C1' CYT	1406	153.121	60.244	-20.516	1.00124.24	Al6S	ATOM	48795	P	URI	1409	144.828	57.804	-31.626	1.00123.33	Al6S	
ATOM	48743	N1	CYT	1406	153.977	59.380	-21.335	1.00141.61	Al6S	ATOM	48796	O1P	URI	1409	143.591	58.405	-32.191	1.00100.64	Al6S
ATOM	48744	C6	CYT	1406	154.421	58.176	-20.866	1.00141.61	Al6S	ATOM	48797	O2P	URI	1409	144.726	56.828	-30.514	1.00100.64	Al6S
ATOM	48745	O2	CYT	1406	153.915	60.912	-23.005	1.00141.61	Al6S	ATOM	48798	O5' URI	1409	145.651	57.118	-32.805	1.00123.33	Al6S	
ATOM	48746	O2	CYT	1406	155.108	59.024	-23.387	1.00141.61	Al6S	ATOM	48799	C5' URI	1409	146.792	56.992	-34.919	1.00123.33	Al6S	
ATOM	48747	N3	CYT	1406	155.297	57.847	-22.924	1.00141.61	Al6S	ATOM	48800	C4' URI	1409	148.133	56.849	-34.378	1.00123.33	Al6S	
ATOM	48748	N4	CYT	1406	156.523	57.099	-22.724	1.00141.61	Al6S	ATOM	48801	O4' URI	1409	148.654	55.577	-34.733	1.00123.33	Al6S	
ATOM	48750	C5	CYT	1406	155.194	57.384	-21.619	1.00141.61	Al6S	ATOM	48803	N1	URI	1409	148.946	54.838	-33.498	1.00100.64	Al6S
ATOM	48751	C2' CYT	1406	151.660	60.236	-20.973	1.00124.24	Al6S	ATOM	48804	C6	URI	1409	148.348	55.165	-32.308	1.00100.64	Al6S	
ATOM	48752	O2' CYT	1406	151.130	61.542	-20.859	1.00124.24	Al6S	ATOM	48805	C2	URI	1409	149.844	53.799	-33.577	1.00100.64	Al6S	
ATOM	48753	O3' CYT	1406	151.041	59.241	-19.995	1.00124.24	Al6S	ATOM	48806	O2	URI	1409	150.385	53.472	-34.614	1.00100.64	Al6S	
ATOM	48754	O3' CYT	1406	149.645	59.443	-19.810	1.00124.24	Al6S	ATOM	48807	N3	URI	1409	150.084	53.149	-32.397	1.00100.64	Al6S	
ATOM	48755	P	URI	1407	148.599	58.526	-20.610	1.00124.40	Al6S	ATOM	48808	C4	URI	1409	149.527	53.423	-31.173	1.00100.64	Al6S
ATOM	48756	O1P	URI	1407	147.239	58.964	-20.212	1.00153.45	Al6S	ATOM	48809	O4	URI	1409	148.876	52.767	-30.194	1.00100.64	Al6S
ATOM	48757	O2P	URI	1407	148.989	57.104	-20.445	1.00153.45	Al6S	ATOM	48810	C5	URI	1409	148.597	54.508	-31.172	1.00100.64	Al6S
ATOM	48758	O5' URI	1407	148.834	58.944	-22.127	1.00124.40	Al6S	ATOM	48811	C2' URI	1409	147.594	54.883	-35.589	1.00123.33	Al6S		
ATOM	48759	C5' URI	1407	148.686	60.299	-22.532	1.00124.40	Al6S	ATOM	48812	O2' URI	1409	147.835	55.141	-36.958	1.00123.33	Al6S		
ATOM	48760	C4' URI	1407	149.150	60.474	-23.955	1.00124.40	Al6S	ATOM	48813	C3' URI	1409	146.329	55.561	-35.088	1.00123.33	Al6S		
ATOM	48761	O4' URI	1407	150.583	60.262	-24.037	1.00124.40	Al6S	ATOM	48814	O3' URI	1409	145.257	55.462	-36.007	1.00123.33	Al6S		
ATOM	48762	C1' URI	1407	150.911	59.743	-25.314	1.00124.40	Al6S	ATOM	48815	P	ADE	1410	144.174	54.299	-35.813	1.00123.72	Al6S	
ATOM	48763	N1	URI	1407	151.667	58.495	-25.133	1.00153.45	Al6S	ATOM	48816	O1P	ADE	1410	143.093	54.492	-36.813	1.0092.25	Al6S
ATOM	48764	C6	URI	1407	151.538	57.735	-23.995	1.00153.45	Al6S	ATOM	48817	O2P	ADE	1410	143.835	54.239	-34.366	1.0092.25	Al6S
ATOM	48765	C2	URI	1407	152.514	58.111	-26.153	1.00153.45	Al6S	ATOM	48818	O5' ADE	1410	144.984	52.980	-36.188	1.00123.72	Al6S	
ATOM	48766	O2	URI	1407	152.654	58.761	-27.174	1.00153.45	Al6S	ATOM	48819	C5' ADE	1410	145.497	52.784	-37.501	1.00123.72	Al6S	
ATOM	48767	N3	URI	1407	153.191	56.937	-25.935	1.00153.45	Al6S	ATOM	48820	C4' ADE	1410	146.270	51.492	-37.565	1.00123.72	Al6S	
ATOM	48768	C4	URI	1407	153.108	56.127	-24.823	1.00153.45	Al6S	ATOM	48821	O4' ADE	1410	147.507	51.622	-36.816	1.00123.72	Al6S	
ATOM	48769	O4	URI	1407	153.779	55.094	-24.776	1.00153.45	Al6S	ATOM	48822	C1' ADE	1410	147.833	50.376	-36.220	1.00123.72	Al6S	
ATOM	48770	C5	URI	1407	152.211	56.594	-23.810	1.00153.45	Al6S	ATOM	48823	N9	ADE	1410	147.946	50.565	-34.773	1.0092.25	Al6S
ATOM	48771	C2' URI	1407	149.602	59.562	-26.090	1.00124.40	Al6S	ATOM	48824	C4	ADE	1410	148.743	49.832	-33.926	1.0092.25	Al6S	
ATOM	48772	O2' URI	1407	149.404	60.671	-26.942	1.00124.40	Al6S	ATOM	48825	N3	ADE	1410	149.551	48.808	-34.248	1.0092.25	Al6S	
ATOM	48773	O3' URI	1407	148.580	59.486	-24.958	1.00124.40	Al6S	ATOM	48826	C2	ADE	1410	150.181	48.348	-33.171	1.0092.25	Al6S	
ATOM	48774	C3' URI	1407	147.267	59.873	-25.363	1.00124.40	Al6S	ATOM	48827	N1	ADE	1410	150.106	48.764	-31.905	1.0092.25	Al6S	
ATOM	48775	P	CYT	1408	146.298	58.797	-26.064	1.00121.62	Al6S	ATOM	48828	C6	ADE	1410	149.288	49.799	-31.612	1.0092.25	Al6S
ATOM	48776	O1P	CYT	1408	144.908	59.311	-25.997	1.00129.61	Al6S	ATOM	48829	N6	ADE	1410	149.227	50.221	-30.349	1.0092.25	Al6S
ATOM	48777	O2P	CYT	1408	146.609	57.450	-25.522	1.00129.61	Al6S	ATOM	48830	C5	ADE	1410	148.554	50.372	-32.668	1.0092.25	Al6S
ATOM	48778	O5' CYT	1408	146.750	58.846	-27.587	1.00121.62	Al6S	ATOM	48831	N7	ADE	1410	147.639	51.418	-32.714	1.0092.25	Al6S	

ATOM	48832	C8	ADE	1410	147.308	51.490	-33.981	1.00	92.25	Al6s	ATOM	48885	N1	CYT	1413	143.392	41.183	-26.823	1.00	81.06	/
ATOM	48833	C2'	ADE	1410	146.743	49.380	-36.617	1.00	100.123.72	Al6s	ATOM	48886	C6	CYT	1413	143.047	41.604	-28.077	1.00	81.06	/
ATOM	48834	O2'	ADE	1410	147.141	48.658	-37.761	1.00	100.123.72	Al6s	ATOM	48887	C2	CYT	1413	143.242	42.036	-25.727	1.00	81.06	/
ATOM	48835	C3'	ADE	1410	145.579	50.311	-36.909	1.00	100.123.72	Al6s	ATOM	48888	O2	CYT	1413	143.576	41.631	-24.602	1.00	81.06	/
ATOM	48836	O3'	ADE	1410	144.638	49.703	-37.776	1.00	100.123.72	Al6s	ATOM	48889	N3	CYT	1413	142.738	43.276	-25.921	1.00	81.06	/
ATOM	48837	P	CYT	1411	143.479	48.788	-37.154	1.00	96.82	Al6s	ATOM	48890	C4	CYT	1413	142.392	43.672	-27.147	1.00	81.06	/
ATOM	48838	O1P	CYT	1411	142.581	48.360	-38.259	1.00	90.82	Al6s	ATOM	48891	N4	CYT	1413	141.884	44.896	-27.289	1.00	81.06	/
ATOM	48839	O2P	CYT	1411	142.925	49.514	-35.984	1.00	90.82	Al6s	ATOM	48892	C5	CYT	1413	142.548	42.829	-28.283	1.00	81.06	/
ATOM	48840	O5'	CYT	1411	144.255	47.500	-36.638	1.00	96.82	Al6s	ATOM	48893	C2'	CYT	1413	142.853	38.928	-25.958	1.00	95.21	/
ATOM	48841	C5'	CYT	1411	144.830	46.596	-37.567	1.00	96.82	Al6s	ATOM	48894	O2'	CYT	1413	143.453	37.931	-25.157	1.00	95.21	/
ATOM	48842	C4'	CYT	1411	145.669	45.576	-36.849	1.00	96.82	Al6s	ATOM	48895	C3'	CYT	1413	142.202	38.334	-27.195	1.00	95.21	/
ATOM	48843	O4'	CYT	1411	146.761	46.243	-34.168	1.00	96.82	Al6s	ATOM	48896	O3'	CYT	1413	141.465	37.178	-26.891	1.00	95.21	/
ATOM	48844	C1'	CYT	1411	147.088	45.530	-34.986	1.00	96.82	Al6s	ATOM	48897	P	GUA	1414	139.883	37.297	-26.676	1.00	76.82	/
ATOM	48845	N1	CYT	1411	146.478	46.415	-33.836	1.00	90.82	Al6s	ATOM	48898	O1P	GUA	1414	139.406	35.960	-26.233	1.00	81.47	/
ATOM	48846	C6	CYT	1411	146.067	47.515	-33.929	1.00	90.82	Al6s	ATOM	48899	O2P	GUA	1414	139.283	37.934	-27.877	1.00	81.47	/
ATOM	48847	C2	CYT	1411	147.500	46.099	-32.632	1.00	90.82	Al6s	ATOM	48900	O5'	GUA	1414	139.742	38.323	-25.465	1.00	76.82	/
ATOM	48848	O2	CYT	1411	148.254	45.117	-32.593	1.00	90.82	Al6s	ATOM	48901	C5'	GUA	1414	140.293	38.024	-24.184	1.00	76.82	/
ATOM	48849	N3	CYT	1411	147.277	46.874	-31.546	1.00	90.82	Al6s	ATOM	48902	C4'	GUA	1414	140.028	39.157	-23.221	1.00	76.82	/
ATOM	48850	C4	CYT	1411	146.478	47.937	-31.641	1.00	90.82	Al6s	ATOM	48903	O4'	GUA	1414	139.942	41.494	-23.420	1.00	76.82	/
ATOM	48851	N4	CYT	1411	146.277	48.663	-30.543	1.00	90.82	Al6s	ATOM	48904	C1'	GUA	1414	139.942	41.494	-23.420	1.00	76.82	/
ATOM	48852	C5'	CYT	1411	145.163	48.299	-32.866	1.00	90.82	Al6s	ATOM	48905	N9	GUA	1414	139.600	42.065	-24.718	1.00	81.47	/
ATOM	48853	C2'	CYT	1411	146.163	44.317	-34.935	1.00	96.82	Al6s	ATOM	48906	C4	GUA	1414	139.394	43.390	-25.005	1.00	81.47	/
ATOM	48854	O2'	CYT	1411	146.792	43.221	-35.564	1.00	96.82	Al6s	ATOM	48907	N3	GUA	1414	139.487	44.415	-24.132	1.00	81.47	/
ATOM	48855	C3'	CYT	1411	144.977	44.836	-35.727	1.00	96.82	Al6s	ATOM	48908	C2	GUA	1414	139.216	45.573	-24.705	1.00	81.47	/
ATOM	48856	O3'	CYT	1411	144.912	43.787	-36.220	1.00	96.82	Al6s	ATOM	48909	N2	GUA	1414	139.266	46.698	-23.981	1.00	81.47	/
ATOM	48857	P	CYT	1412	142.124	42.370	-36.191	1.00	90.81	Al6s	ATOM	48910	N1	GUA	1414	138.875	45.711	-26.029	1.00	81.47	/
ATOM	48858	O1P	CYT	1412	142.117	42.370	-36.191	1.00	90.81	Al6s	ATOM	48911	C6	GUA	1414	138.770	44.664	-26.942	1.00	81.47	/
ATOM	48859	O2P	CYT	1412	142.290	44.500	-34.763	1.00	87.10	Al6s	ATOM	48912	O6	GUA	1414	138.442	44.890	-28.115	1.00	81.47	/
ATOM	48860	O5'	CYT	1412	143.598	42.443	-34.180	1.00	90.81	Al6s	ATOM	48913	C5	GUA	1414	139.066	43.426	-26.344	1.00	81.47	/
ATOM	48861	C5'	CYT	1412	144.407	41.314	-34.486	1.00	90.81	Al6s	ATOM	48914	N7	GUA	1414	139.083	42.154	-26.889	1.00	81.47	/
ATOM	48862	C4'	CYT	1412	145.017	40.744	-33.228	1.00	90.81	Al6s	ATOM	48915	C8	GUA	1414	139.407	41.381	-25.890	1.00	81.47	/
ATOM	48863	O4'	CYT	1412	145.998	41.665	-32.679	1.00	90.81	Al6s	ATOM	48916	C2'	GUA	1414	138.717	41.029	-22.629	1.00	76.82	/
ATOM	48864	C1'	CYT	1412	145.983	41.587	-31.263	1.00	90.81	Al6s	ATOM	48917	O2'	GUA	1414	138.980	41.111	-21.242	1.00	76.82	/
ATOM	48865	N1	CYT	1412	145.566	42.895	-30.742	1.00	87.10	Al6s	ATOM	48918	C3'	GUA	1414	138.581	39.591	-23.107	1.00	76.82	/
ATOM	48866	C6	CYT	1412	144.880	43.778	-31.528	1.00	87.10	Al6s	ATOM	48919	O3'	GUA	1414	137.924	38.777	-22.149	1.00	76.82	/
ATOM	48867	C2	CYT	1412	145.878	43.219	-29.428	1.00	87.10	Al6s	ATOM	48920	P	ADE	1415	136.394	39.074	-21.768	1.00	67.18	/
ATOM	48868	O2	CYT	1412	146.503	42.397	-28.746	1.00	87.10	Al6s	ATOM	48921	O1P	ADE	1415	135.620	37.808	-21.838	1.00	62.64	/
ATOM	48869	N3	CYT	1412	145.496	44.416	-28.933	1.00	87.10	Al6s	ATOM	48922	O2P	ADE	1415	135.955	40.248	-22.569	1.00	62.64	/
ATOM	48870	C4	CYT	1412	144.830	45.274	-29.707	1.00	87.10	Al6s	ATOM	48923	O5'	ADE	1415	136.466	39.432	-20.234	1.00	67.18	/
ATOM	48871	N4	CYT	1412	144.482	46.449	-29.183	1.00	87.10	Al6s	ATOM	48924	C5'	ADE	1415	137.083	38.644	-19.277	1.00	67.18	/
ATOM	48872	C5	CYT	1412	144.495	44.967	-31.055	1.00	87.10	Al6s	ATOM	48925	C4'	ADE	1415	136.942	39.238	-17.903	1.00	67.18	/
ATOM	48873	C2'	CYT	1412	145.000	40.476	-30.887	1.00	90.81	Al6s	ATOM	48926	O4'	ADE	1415	137.728	40.454	-17.806	1.00	67.18	/
ATOM	48874	O2	CYT	1412	145.687	39.248	-30.755	1.00	90.81	Al6s	ATOM	48927	C1'	ADE	1415	137.055	41.393	-16.980	1.00	67.18	/
ATOM	48875	C3'	CYT	1412	144.056	40.506	-32.081	1.00	90.81	Al6s	ATOM	48928	N9	ADE	1415	136.795	42.592	-17.779	1.00	62.64	/
ATOM	48876	O3'	CYT	1412	143.353	39.285	-32.247	1.00	90.81	Al6s	ATOM	48929	C4	ADE	1415	136.527	43.855	-17.310	1.00	62.64	/
ATOM	48877	P	CYT	1413	141.915	39.104	-31.556	1.00	95.21	Al6s	ATOM	48930	N3	ADE	1415	136.454	44.253	-16.031	1.00	62.64	/
ATOM	48878	O1P	CYT	1413	141.339	37.815	-32.021	1.00	81.06	Al6s	ATOM	48931	C2	ADE	1415	136.163	45.547	-15.963	1.00	62.64	/
ATOM	48879	O2P	CYT	1413	141.145	40.360	-31.755	1.00	81.06	Al6s	ATOM	48932	N1	ADE	1415	135.952	46.420	-16.953	1.00	62.64	/
ATOM	48880	O5'	CYT	1413	142.274	38.967	-30.009	1.00	95.21	Al6s	ATOM	48933	C6	ADE	1415	136.036	45.981	-18.225	1.00	62.64	/
ATOM	48881	C5'	CYT	1413	143.120	37.915	-29.550	1.00	95.21	Al6s	ATOM	48934	N6	ADE	1415	135.828	46.840	-19.215	1.00	62.64	/
ATOM	48882	C4'	CYT	1413	143.408	38.073	-28.074	1.00	95.21	Al6s	ATOM	48935	C5	ADE	1415	136.338	44.638	-18.431	1.00	62.64	/
ATOM	48883	O4'	CYT	1413	144.241	39.244	-27.850	1.00	95.21	Al6s	ATOM	48936	N7	ADE	1415	136.492	43.889	-19.586	1.00	62.64	/
ATOM	48884	C1'	CYT	1413	143.914	39.825	-26.593	1.00	95.21	Al6s	ATOM	48937	C8	ADE	1415	136.763	42.686	-19.148	1.00	62.64	/

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ATOM	48938	C2' ADE	1415	135.778	40.714	-16.471	1.00	67.18	Al6S	ATOM	48991	C5' URI	1418	122.624	45.502	-16.671	1.00	57.29	Al
ATOM	48939	O2' ADE	1415	136.018	40.130	-15.207	1.00	67.18	Al6S	ATOM	48992	C4' URI	1418	122.669	46.508	-17.786	1.00	57.29	Al
ATOM	48940	C3' ADE	1415	135.536	39.679	-17.562	1.00	67.18	Al6S	ATOM	48993	O4' URI	1418	124.048	46.723	-18.192	1.00	57.29	Al
ATOM	48941	O3' ADE	1415	134.786	38.576	-17.099	1.00	67.18	Al6S	ATOM	48994	C1' URI	1418	124.086	47.044	-19.571	1.00	57.29	Al
ATOM	48942	P ADE	1416	133.215	38.527	-17.381	1.00	56.70	Al6S	ATOM	48995	N1 URI	1418	125.002	46.117	-20.248	1.00	65.69	Al
ATOM	48943	O1P ADE	1416	132.677	37.253	-16.846	1.00	56.67	Al6S	ATOM	48996	C6 URI	1418	125.317	44.896	-19.715	1.00	65.69	Al
ATOM	48944	O2P ADE	1416	132.985	38.883	-18.804	1.00	56.67	Al6S	ATOM	48997	C2 URI	1418	125.524	46.518	-21.455	1.00	65.69	Al
ATOM	48945	O5' ADE	1416	132.649	39.692	-16.461	1.00	56.70	Al6S	ATOM	48998	O2 URI	1418	125.285	47.609	-21.941	1.00	65.69	Al
ATOM	48946	C5' ADE	1416	132.802	39.624	-15.057	1.00	56.70	Al6S	ATOM	48999	N3 URI	1418	126.336	45.602	-22.073	1.00	65.69	Al
ATOM	48947	C4' ADE	1416	133.436	40.937	-14.437	1.00	56.70	Al6S	ATOM	49000	C4 URI	1418	126.676	44.352	-22.609	1.00	65.69	Al
ATOM	48948	O4' ADE	1416	133.347	41.957	-14.914	1.00	56.70	Al6S	ATOM	49001	O4 URI	1418	127.341	43.599	-22.324	1.00	65.69	Al
ATOM	48949	C1' ADE	1416	132.671	43.200	-14.953	1.00	56.70	Al6S	ATOM	49002	C5 URI	1418	126.116	44.023	-20.334	1.00	65.69	Al
ATOM	48950	N9 ADE	1416	132.708	43.716	-16.319	1.00	56.67	Al6S	ATOM	49003	C2' URI	1418	122.649	46.969	-20.103	1.00	57.29	Al
ATOM	48951	C3 ADE	1416	132.758	45.041	-16.671	1.00	56.67	Al6S	ATOM	49004	O2' URI	1418	122.094	48.267	-20.127	1.00	57.29	Al
ATOM	48952	N3 ADE	1416	132.758	46.098	-15.846	1.00	56.67	Al6S	ATOM	49005	C3' URI	1418	121.974	46.077	-19.066	1.00	57.29	Al
ATOM	48953	C2 ADE	1416	132.736	47.230	-16.537	1.00	56.67	Al6S	ATOM	49006	O3' URI	1418	120.581	46.351	-18.973	1.00	57.29	Al
ATOM	48954	N1 ADE	1416	132.687	47.414	-17.860	1.00	56.67	Al6S	ATOM	49007	P CYT	1419	119.533	45.487	-19.829	1.00	50.80	Al
ATOM	48955	C6 ADE	1416	132.659	46.329	-18.662	1.00	56.67	Al6S	ATOM	49008	O1P CYT	1419	118.197	46.112	-19.633	1.00	70.06	Al
ATOM	48956	N6 ADE	1416	132.611	46.514	-19.984	1.00	56.67	Al6S	ATOM	49009	O2P CYT	1419	119.719	44.048	-19.532	1.00	50.80	Al
ATOM	48957	C5 ADE	1416	132.680	45.066	-18.048	1.00	56.67	Al6S	ATOM	49010	O5' CYT	1419	119.971	45.750	-21.332	1.00	50.80	Al
ATOM	48958	N7 ADE	1416	132.664	43.779	-18.560	1.00	56.67	Al6S	ATOM	49011	C5' CYT	1419	119.807	47.036	-21.901	1.00	50.80	Al
ATOM	48959	C8 ADE	1416	132.692	43.018	-17.496	1.00	56.67	Al6S	ATOM	49012	C4' CYT	1419	120.414	47.079	-23.270	1.00	50.80	Al
ATOM	48960	O2' ADE	1416	131.230	42.944	-14.498	1.00	56.70	Al6S	ATOM	49013	O4' CYT	1419	121.841	46.882	-23.159	1.00	50.80	Al
ATOM	48961	C2' ADE	1416	131.113	43.214	-13.116	1.00	56.70	Al6S	ATOM	49014	C1' CYT	1419	122.319	46.260	-24.333	1.00	50.80	Al
ATOM	48962	C3' ADE	1416	131.069	41.467	-14.814	1.00	56.70	Al6S	ATOM	49015	N1 CYT	1419	123.029	45.035	-23.953	1.00	70.06	Al
ATOM	48963	O3' ADE	1416	130.073	40.884	-13.989	1.00	56.70	Al6S	ATOM	49016	C6 CYT	1419	122.782	44.417	-22.763	1.00	70.06	Al
ATOM	48964	P GUA	1417	128.718	40.310	-14.644	1.00	58.53	Al6S	ATOM	49017	C2 CYT	1419	123.950	44.500	-24.844	1.00	70.06	Al
ATOM	48965	O1P GUA	1417	127.909	39.685	-13.562	1.00	60.79	Al6S	ATOM	49018	O2 CYT	1419	124.186	45.111	-25.893	1.00	70.06	Al
ATOM	48966	O2P GUA	1417	129.107	39.509	-15.834	1.00	60.79	Al6S	ATOM	49019	N3 CYT	1419	124.567	43.339	-24.541	1.00	70.06	Al
ATOM	48967	O5' GUA	1417	127.925	41.597	-15.143	1.00	58.53	Al6S	ATOM	49020	C4' CYT	1419	124.304	42.730	-23.388	1.00	70.06	Al
ATOM	48968	C4' GUA	1417	127.518	42.600	-14.220	1.00	58.53	Al6S	ATOM	49021	N4 CYT	1419	124.923	41.583	-23.135	1.00	70.06	Al
ATOM	48969	C5' GUA	1417	127.308	43.916	-14.928	1.00	58.53	Al6S	ATOM	49022	C5 CYT	1419	123.392	43.272	-22.444	1.00	70.06	Al
ATOM	48970	O4' GUA	1417	128.546	44.324	-15.569	1.00	58.53	Al6S	ATOM	49023	C2' CYT	1419	121.105	45.990	-25.229	1.00	50.80	Al
ATOM	48971	C1' GUA	1417	128.255	44.971	-16.792	1.00	58.53	Al6S	ATOM	49024	O2' CYT	1419	120.943	47.064	-26.133	1.00	50.80	Al
ATOM	48972	N9 GUA	1417	128.793	44.150	-17.869	1.00	60.79	Al6S	ATOM	49025	C3' CYT	1419	119.974	45.984	-24.218	1.00	50.80	Al
ATOM	48973	C4 GUA	1417	129.192	44.579	-19.112	1.00	60.79	Al6S	ATOM	49026	O3' CYT	1419	118.764	46.354	-24.853	1.00	50.80	Al
ATOM	48974	N3 GUA	1417	129.165	45.848	-19.556	1.00	60.79	Al6S	ATOM	49027	P GUA	1420	117.823	45.221	-25.475	1.00	55.54	Al
ATOM	48975	C2 GUA	1417	129.598	45.945	-20.796	1.00	60.79	Al6S	ATOM	49028	O1P GUA	1420	116.587	45.868	-25.994	1.00	64.18	Al
ATOM	48976	N2 GUA	1417	129.625	47.138	-21.390	1.00	60.79	Al6S	ATOM	49029	O2P GUA	1420	117.719	44.151	-24.463	1.00	64.18	Al
ATOM	48977	C1 GUA	1417	130.034	44.883	-21.545	1.00	60.79	Al6S	ATOM	49030	O5' GUA	1420	118.654	44.652	-26.703	1.00	55.54	Al
ATOM	48978	N1 GUA	1417	130.077	43.568	-21.113	1.00	60.79	Al6S	ATOM	49031	C5' GUA	1420	118.615	45.300	-27.963	1.00	55.54	Al
ATOM	48979	O6 GUA	1417	130.490	42.682	-21.872	1.00	60.79	Al6S	ATOM	49032	C4' GUA	1420	119.369	44.485	-28.977	1.00	55.54	Al
ATOM	48980	C5 GUA	1417	129.605	43.445	-19.778	1.00	60.79	Al6S	ATOM	49033	O4' GUA	1420	120.727	44.311	-28.505	1.00	55.54	Al
ATOM	48981	N7 GUA	1417	129.473	42.325	-18.968	1.00	60.79	Al6S	ATOM	49034	C1' GUA	1420	121.219	43.055	-28.933	1.00	55.54	Al
ATOM	48982	C8 GUA	1417	128.992	42.792	-17.847	1.00	60.79	Al6S	ATOM	49035	N9 GUA	1420	121.726	42.325	-27.877	1.00	64.18	Al
ATOM	48983	C2' GUA	1417	126.732	45.103	-16.866	1.00	58.53	Al6S	ATOM	49036	C4 GUA	1420	122.508	41.206	-27.827	1.00	64.18	Al
ATOM	48984	O2' GUA	1417	126.315	46.304	-16.253	1.00	58.53	Al6S	ATOM	49037	N3 GUA	1420	122.931	40.594	-28.947	1.00	64.18	Al
ATOM	48985	C3' GUA	1417	126.293	43.898	-16.055	1.00	58.53	Al6S	ATOM	49038	C2 GUA	1420	123.676	39.542	-28.681	1.00	64.18	Al
ATOM	48986	O3' GUA	1417	124.971	44.060	-15.558	1.00	58.53	Al6S	ATOM	49039	N2 GUA	1420	124.188	38.817	-29.681	1.00	64.18	Al
ATOM	48987	P URI	1418	123.771	43.200	-16.196	1.00	57.29	Al6S	ATOM	49040	N1 GUA	1420	123.979	39.121	-27.418	1.00	64.18	Al
ATOM	48988	O1P URI	1418	122.821	42.842	-15.103	1.00	65.69	Al6S	ATOM	49041	C6 GUA	1420	123.557	39.732	-26.251	1.00	64.18	Al
ATOM	48989	O2P URI	1418	124.341	42.128	-17.057	1.00	65.69	Al6S	ATOM	49042	O6 GUA	1420	123.894	39.265	-25.164	1.00	64.18	Al
ATOM	48990	O5' URI	1418	123.036	44.233	-17.155	1.00	57.29	Al6S	ATOM	49043	C5 GUA	1420	122.756	40.870	-26.518	1.00	64.18	Al

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ATOM	49044	N7	GUA	1420	122.137	41.763	-25.654	1.00	64.18	Al6S	ATOM	49097	C1	GUA	1423	117.215	30.277	-26.190	1.00	64.65
ATOM	49045	C8	GUA	1420	121.536	42.608	-26.446	1.00	65.18	Al6S	ATOM	49098	N9	GUA	1423	116.608	31.603	-26.188	1.00	68.56
ATOM	49046	C2	GUA	1420	120.095	42.341	-29.682	1.00	55.54	Al6S	ATOM	49099	C4	GUA	1423	116.502	32.443	-25.113	1.00	68.56
ATOM	49047	O2	GUA	1420	120.283	42.535	-31.061	1.00	55.54	Al6S	ATOM	49100	N3	GUA	1423	116.959	32.195	-23.873	1.00	68.56
ATOM	49048	C3	GUA	1420	118.864	43.066	-29.157	1.00	55.54	Al6S	ATOM	49101	C2	GUA	1423	116.712	33.193	-23.051	1.00	68.56
ATOM	49049	O3	GUA	1420	117.795	43.028	-30.090	1.00	55.54	Al6S	ATOM	49102	N2	GUA	1423	117.107	33.111	-21.777	1.00	68.56
ATOM	49050	P	CYT	1421	116.686	41.873	-29.973	1.00	67.45	Al6S	ATOM	49103	N1	GUA	1423	116.062	34.344	-23.415	1.00	68.56
ATOM	49051	O1P	CYT	1421	115.592	42.186	-30.928	1.00	74.06	Al6S	ATOM	49104	C6	GUA	1423	115.575	34.617	-24.687	1.00	68.56
ATOM	49052	O2P	CYT	1421	116.371	41.706	-28.533	1.00	74.06	Al6S	ATOM	49105	O6	GUA	1423	114.990	35.687	-24.912	1.00	68.56
ATOM	49053	O5	CYT	1421	117.449	40.568	-30.479	1.00	67.45	Al6S	ATOM	49106	C5	GUA	1423	115.842	33.555	-25.581	1.00	68.56
ATOM	49054	C5	CYT	1421	117.867	40.457	-31.832	1.00	67.45	Al6S	ATOM	49107	N7	GUA	1423	115.543	33.418	-26.927	1.00	68.56
ATOM	49055	C4	CYT	1421	118.692	39.207	-32.030	1.00	67.45	Al6S	ATOM	49108	C8	GUA	1423	116.019	32.248	-27.245	1.00	68.56
ATOM	49056	O4	CYT	1421	119.948	39.318	-31.315	1.00	67.45	Al6S	ATOM	49109	C2	GUA	1423	116.239	29.200	-25.715	1.00	64.65
ATOM	49057	C1	CYT	1421	120.360	38.033	-30.881	1.00	67.45	Al6S	ATOM	49110	O2	GUA	1423	116.944	28.153	-25.089	1.00	64.65
ATOM	49058	N1	CYT	1421	120.492	38.055	-29.422	1.00	74.06	Al6S	ATOM	49111	C3	GUA	1423	115.621	28.746	-27.029	1.00	64.65
ATOM	49059	C6	CYT	1421	119.882	39.018	-28.670	1.00	74.06	Al6S	ATOM	49112	O3	GUA	1423	115.149	27.416	-26.903	1.00	64.65
ATOM	49060	C2	CYT	1421	121.261	37.071	-28.816	1.00	74.06	Al6S	ATOM	49113	P	GUA	1424	113.684	27.033	-27.421	1.00	79.89
ATOM	49061	O2	CYT	1421	121.782	36.203	-29.530	1.00	74.06	Al6S	ATOM	49114	O1P	GUA	1424	113.257	28.047	-28.416	1.00	122.28
ATOM	49062	N3	CYT	1421	121.419	37.085	-27.476	1.00	74.06	Al6S	ATOM	49115	O5	GUA	1424	113.932	25.655	-28.175	1.00	79.89
ATOM	49063	C4	CYT	1421	120.834	38.035	-26.749	1.00	74.06	Al6S	ATOM	49116	O5	GUA	1424	113.803	25.555	-29.587	1.00	79.89
ATOM	49064	N4	CYT	1421	121.031	38.022	-25.431	1.00	74.06	Al6S	ATOM	49117	C5	GUA	1424	114.852	24.620	-30.143	1.00	79.89
ATOM	49065	C5	CYT	1421	120.025	39.045	-27.341	1.00	74.06	Al6S	ATOM	49118	C4	GUA	1424	116.090	25.335	-30.409	1.00	79.89
ATOM	49066	O2	CYT	1421	119.308	37.033	-31.352	1.00	67.45	Al6S	ATOM	49119	O4	GUA	1424	117.194	24.468	-30.191	1.00	79.89
ATOM	49067	C2	CYT	1421	119.710	36.474	-32.581	1.00	67.45	Al6S	ATOM	49120	C1	GUA	1424	118.017	25.026	-29.119	1.00	122.28
ATOM	49068	C3	CYT	1421	118.088	37.928	-31.486	1.00	67.45	Al6S	ATOM	49121	N9	GUA	1424	118.593	24.339	-28.070	1.00	122.28
ATOM	49069	O3	CYT	1421	117.153	37.381	-32.391	1.00	67.45	Al6S	ATOM	49122	C4	GUA	1424	118.520	23.004	-27.851	1.00	122.28
ATOM	49070	P	CYT	1422	115.975	36.459	-31.831	1.00	64.65	Al6S	ATOM	49123	N3	GUA	1424	119.170	22.643	-26.754	1.00	122.28
ATOM	49071	O1P	CYT	1422	115.007	36.216	-32.932	1.00	66.46	Al6S	ATOM	49124	C2	GUA	1424	119.203	21.352	-26.387	1.00	122.28
ATOM	49072	O2P	CYT	1422	115.509	37.066	-30.560	1.00	66.46	Al6S	ATOM	49125	N2	GUA	1424	119.835	23.523	-25.935	1.00	122.28
ATOM	49073	O5	CYT	1422	116.702	35.080	-31.502	1.00	64.65	Al6S	ATOM	49126	N1	GUA	1424	119.920	24.900	-26.137	1.00	122.28
ATOM	49074	C5	CYT	1422	117.108	34.213	-32.549	1.00	64.65	Al6S	ATOM	49127	C6	GUA	1424	120.534	25.605	-25.327	1.00	122.28
ATOM	49075	C4	CYT	1422	117.966	33.098	-32.005	1.00	64.65	Al6S	ATOM	49128	O6	GUA	1424	119.235	25.299	-27.316	1.00	122.28
ATOM	49076	O4	CYT	1422	119.081	33.674	-31.276	1.00	64.65	Al6S	ATOM	49129	C5	GUA	1424	119.086	26.555	-27.887	1.00	122.28
ATOM	49077	C1	CYT	1422	119.448	32.811	-30.215	1.00	64.65	Al6S	ATOM	49130	N7	GUA	1424	116.615	23.092	-29.856	1.00	79.89
ATOM	49078	N1	CYT	1422	119.242	33.524	-28.953	1.00	66.46	Al6S	ATOM	49131	C8	GUA	1424	116.466	22.350	-31.049	1.00	79.89
ATOM	49079	C6	CYT	1422	118.560	34.707	-28.917	1.00	66.46	Al6S	ATOM	49132	C2	GUA	1424	115.277	23.476	-29.236	1.00	79.89
ATOM	49080	C2	CYT	1422	120.374	31.904	-27.865	1.00	66.46	Al6S	ATOM	49133	O2	GUA	1424	114.349	22.385	-29.229	1.00	79.89
ATOM	49081	O2	CYT	1422	119.742	32.964	-27.788	1.00	66.46	Al6S	ATOM	49134	C3	GUA	1424	113.914	21.712	-27.828	1.00	122.26
ATOM	49082	N3	CYT	1422	119.526	33.587	-26.610	1.00	66.46	Al6S	ATOM	49135	O3	GUA	1424	112.601	22.303	-27.460	1.00	110.11
ATOM	49083	C4	CYT	1422	118.839	34.729	-26.579	1.00	66.46	Al6S	ATOM	49136	P	GUA	1425	115.047	21.781	-26.862	1.00	110.11
ATOM	49084	N4	CYT	1422	118.618	35.296	-25.396	1.00	66.46	Al6S	ATOM	49137	O1P	GUA	1425	113.678	20.178	-28.184	1.00	122.26
ATOM	49085	C5	CYT	1422	118.339	35.337	-27.762	1.00	66.46	Al6S	ATOM	49138	O2P	GUA	1425	114.338	19.155	-27.446	1.00	122.26
ATOM	49086	C2	CYT	1422	118.547	31.582	-30.308	1.00	64.65	Al6S	ATOM	49139	O5	GUA	1425	114.299	17.857	-28.208	1.00	122.26
ATOM	49087	O2	CYT	1422	119.166	30.599	-31.108	1.00	64.65	Al6S	ATOM	49140	C5	GUA	1425	112.720	16.632	-29.399	1.00	122.26
ATOM	49088	C3	CYT	1422	117.325	32.174	-30.987	1.00	64.65	Al6S	ATOM	49141	O4	GUA	1425	111.440	17.059	-29.947	1.00	110.11
ATOM	49089	O3	CYT	1422	116.579	31.153	-31.625	1.00	64.65	Al6S	ATOM	49142	C4	GUA	1425	110.532	16.251	-30.570	1.00	110.11
ATOM	49090	P	GUA	1423	115.181	30.683	-30.994	1.00	64.65	Al6S	ATOM	49143	C1	GUA	1425	109.639	14.938	-30.816	1.00	110.11
ATOM	49091	O1P	GUA	1423	114.648	29.565	-31.819	1.00	68.56	Al6S	ATOM	49144	N9	GUA	1425	109.635	13.122	-31.772	1.00	110.11
ATOM	49092	O2P	GUA	1423	114.359	31.903	-30.789	1.00	68.56	Al6S	ATOM	49145	C4	GUA	1425	108.517	15.142	-31.765	1.00	110.11
ATOM	49093	O5	GUA	1423	115.576	30.105	-29.567	1.00	64.65	Al6S	ATOM	49146	N3	GUA	1425					
ATOM	49094	C5	GUA	1423	116.448	28.992	-29.433	1.00	64.65	Al6S	ATOM	49147	C2	GUA	1425					
ATOM	49095	C4	GUA	1423	116.809	28.807	-27.978	1.00	64.65	Al6S	ATOM	49148	N2	GUA	1425					
ATOM	49096	O4	GUA	1423	117.578	29.955	-27.523	1.00	64.65	Al6S	ATOM	49149	N1	GUA	1425					

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ATOM	49150	C6	GUA	1425	108.330	16.496	-31.513	1.00110.11	A16S	ATOM	49203	O3' GUA	1427	115.758	19.502	-18.303	1.00 93.16	A
ATOM	49151	O6	GUA	1425	107.272	17.043	-31.846	1.00110.11	A16S	ATOM	49204	P	1428	114.254	19.499	-17.740	1.00 83.31	A
ATOM	49152	C5	GUA	1425	109.459	17.065	-30.867	1.00110.11	A16S	ATOM	49205	O1P	1428	114.128	18.348	-16.811	1.00 76.27	A
ATOM	49153	N7	GUA	1425	109.700	18.368	-30.455	1.00110.11	A16S	ATOM	49206	O2P	1428	113.336	19.607	-18.907	1.00 76.27	A
ATOM	49154	C8	GUA	1425	110.890	18.319	-29.920	1.00110.11	A16S	ATOM	49207	O5' GUA	1428	114.140	20.835	-16.875	1.00 83.31	A
ATOM	49155	C2' GUA	1425	113.945	16.777	-30.305	1.00122.26	A16S	ATOM	49208	C5' GUA	1428	114.609	20.880	-15.533	1.00 83.31	A	
ATOM	49156	C2' GUA	1425	114.702	15.586	-30.252	1.00122.26	A16S	ATOM	49209	C4' GUA	1428	114.228	22.191	-14.884	1.00 83.31	A	
ATOM	49157	C3' GUA	1425	114.674	17.962	-29.675	1.00122.26	A16S	ATOM	49210	O4' GUA	1428	114.926	23.294	-15.525	1.00 83.31	A	
ATOM	49158	O3' GUA	1425	116.082	17.811	-29.812	1.00122.26	A16S	ATOM	49211	C1' GUA	1428	114.100	24.450	-15.518	1.00 83.31	A	
ATOM	49159	P	1426	116.917	18.877	-30.667	1.00166.50	A16S	ATOM	49212	N1	1428	113.795	24.820	-16.908	1.00 76.27	A	
ATOM	49160	O1P	1426	115.938	19.710	-31.411	1.00200.66	A16S	ATOM	49213	C6	1428	114.041	23.957	-17.937	1.00 76.27	A	
ATOM	49161	O2P	1426	117.975	18.147	-31.410	1.00200.66	A16S	ATOM	49214	C2	1428	113.225	26.067	-17.157	1.00 76.27	A	
ATOM	49162	O5' ADE	1426	117.627	19.786	-29.569	1.00166.50	A16S	ATOM	49215	O2	1428	113.044	26.839	-16.209	1.00 76.27	A	
ATOM	49163	C5' ADE	1426	117.196	19.785	-28.210	1.00166.50	A16S	ATOM	49216	N3	1428	112.883	26.400	-18.421	1.00 76.27	A	
ATOM	49164	C4' ADE	1426	117.657	18.524	-27.533	1.00166.50	A16S	ATOM	49217	C4	1428	113.103	25.541	-19.416	1.00 76.27	A	
ATOM	49165	O4' ADE	1426	118.766	17.991	-28.290	1.00166.50	A16S	ATOM	49218	N4	1428	112.730	25.898	-20.642	1.00 76.27	A	
ATOM	49166	C1' ADE	1426	119.755	17.509	-27.409	1.00166.50	A16S	ATOM	49219	C5	1428	113.711	24.273	-19.195	1.00 76.27	A	
ATOM	49167	N9	ADE	1426	120.971	18.292	-27.635	1.00200.66	A16S	ATOM	49220	C2' GUA	1428	112.827	24.076	-14.762	1.00 83.31	A
ATOM	49168	C4	ADE	1426	122.129	17.845	-28.230	1.00200.66	A16S	ATOM	49221	O2' GUA	1428	112.971	24.392	-13.394	1.00 83.31	A
ATOM	49169	N3	ADE	1426	122.379	16.613	-28.710	1.00200.66	A16S	ATOM	49222	C3' GUA	1428	112.772	22.578	-15.007	1.00 83.31	A
ATOM	49170	C2	ADE	1426	123.609	16.547	-29.221	1.00200.66	A16S	ATOM	49223	O3' GUA	1428	111.995	21.939	-14.024	1.00 83.31	A
ATOM	49171	N1	ADE	1426	124.546	17.500	-29.303	1.00200.66	A16S	ATOM	49224	P	1429	110.435	21.704	-14.291	1.00 73.61	A
ATOM	49172	C6	ADE	1426	124.264	18.728	-28.813	1.00200.66	A16S	ATOM	49225	O1P	1429	109.915	20.913	-13.150	1.00 62.70	A
ATOM	49173	N6	ADE	1426	125.198	19.678	-28.897	1.00200.66	A16S	ATOM	49226	O2P	1429	110.272	21.198	-13.683	1.00 62.70	A
ATOM	49174	C5	ADE	1426	122.990	18.928	-28.242	1.00200.66	A16S	ATOM	49227	O5' GUA	1429	109.792	23.155	-14.188	1.00 73.61	A
ATOM	49175	N7	ADE	1426	122.389	20.037	-27.660	1.00200.66	A16S	ATOM	49228	C5' GUA	1429	109.500	23.723	-12.918	1.00 73.61	A
ATOM	49176	C8	ADE	1426	121.198	19.608	-27.317	1.00200.66	A16S	ATOM	49229	C4' GUA	1429	108.677	24.975	-13.083	1.00 73.61	A
ATOM	49177	C2' ADE	1426	119.187	17.574	-25.985	1.00166.50	A16S	ATOM	49230	O4' GUA	1429	109.469	26.009	-13.729	1.00 73.61	A	
ATOM	49178	O2' ADE	1426	118.597	16.334	-25.649	1.00166.50	A16S	ATOM	49231	C1' GUA	1429	108.645	26.768	-14.595	1.00 73.61	A	
ATOM	49179	C3' ADE	1426	118.157	18.692	-26.106	1.00166.50	A16S	ATOM	49232	N1	1429	109.075	26.513	-15.973	1.00 62.70	A	
ATOM	49180	O3' ADE	1426	117.098	18.527	-25.159	1.00166.50	A16S	ATOM	49233	C6	1429	109.897	25.463	-16.272	1.00 62.70	A	
ATOM	49181	P	1427	116.806	19.684	-24.079	1.00 93.16	A16S	ATOM	49234	C2	1429	108.609	27.351	-16.978	1.00 62.70	A	
ATOM	49182	O1P	1427	115.366	20.056	-24.160	1.00 85.38	A16S	ATOM	49235	O2	1429	107.891	28.308	-16.662	1.00 62.70	A	
ATOM	49183	O2P	1427	117.853	20.721	-24.319	1.00 85.38	A16S	ATOM	49236	N3	1429	108.946	27.098	-18.262	1.00 62.70	A	
ATOM	49184	O5' GUA	1427	117.037	19.005	-22.649	1.00 93.16	A16S	ATOM	49237	C4	1429	109.723	26.048	-18.549	1.00 62.70	A	
ATOM	49185	C5' GUA	1427	116.179	19.318	-21.548	1.00 93.16	A16S	ATOM	49238	N4	1429	110.006	25.803	-19.832	1.00 62.70	A	
ATOM	49186	C4' GUA	1427	116.982	19.840	-20.372	1.00 93.16	A16S	ATOM	49239	C5	1429	110.237	25.194	-17.533	1.00 62.70	A	
ATOM	49187	O4' GUA	1427	117.872	20.895	-20.819	1.00 93.16	A16S	ATOM	49240	C2' GUA	1429	107.215	26.286	-14.364	1.00 73.61	A	
ATOM	49188	C1' GUA	1427	117.888	21.951	-19.872	1.00 93.16	A16S	ATOM	49241	O2' GUA	1429	106.670	27.027	-13.298	1.00 73.61	A	
ATOM	49189	N9	GUA	1427	117.338	23.139	-20.518	1.00 85.38	A16S	ATOM	49242	C3' GUA	1429	107.458	24.838	-13.972	1.00 73.61	A
ATOM	49190	C4	GUA	1427	117.018	24.336	-19.923	1.00 85.38	A16S	ATOM	49243	O3' GUA	1429	106.375	24.302	-13.233	1.00 73.61	A
ATOM	49191	N3	GUA	1427	117.151	24.632	-18.617	1.00 85.38	A16S	ATOM	49244	P	1430	105.167	23.583	-14.009	1.00 53.87	A
ATOM	49192	C2	GUA	1427	116.760	25.866	-18.351	1.00 85.38	A16S	ATOM	49245	O1P	1430	104.110	23.265	-13.016	1.00 70.62	A
ATOM	49193	N2	GUA	1427	116.823	26.331	-17.098	1.00 85.38	A16S	ATOM	49246	O2P	1430	105.740	22.504	-14.862	1.00 70.62	A
ATOM	49194	N1	GUA	1427	116.279	26.735	-19.295	1.00 85.38	A16S	ATOM	49247	O5' GUA	1430	104.587	24.725	-14.950	1.00 53.87	A
ATOM	49195	C6	GUA	1427	116.135	26.448	-20.645	1.00 85.38	A16S	ATOM	49248	C5' GUA	1430	103.940	25.863	-14.401	1.00 53.87	A
ATOM	49196	O6	GUA	1427	115.691	27.306	-21.415	1.00 85.38	A16S	ATOM	49249	C4' GUA	1430	103.513	26.780	-15.510	1.00 53.87	A
ATOM	49197	C5	GUA	1427	116.546	25.135	-20.942	1.00 85.38	A16S	ATOM	49250	O4' GUA	1430	104.685	27.172	-16.276	1.00 53.87	A
ATOM	49198	N7	GUA	1427	116.563	24.457	-22.149	1.00 85.38	A16S	ATOM	49251	C1' GUA	1430	104.322	27.364	-17.629	1.00 53.87	A
ATOM	49199	C8	GUA	1427	117.039	23.280	-21.850	1.00 85.38	A16S	ATOM	49252	N1	1430	105.158	26.497	-18.461	1.00 70.62	A
ATOM	49200	C2' GUA	1427	117.096	21.487	-18.649	1.00 93.16	A16S	ATOM	49253	C6	1430	105.869	25.459	-17.920	1.00 70.62	A	
ATOM	49201	O2' GUA	1427	117.959	20.916	-17.689	1.00 93.16	A16S	ATOM	49254	C2	1430	105.196	26.763	-19.809	1.00 70.62	A	
ATOM	49202	C3' GUA	1427	116.145	20.470	-19.266	1.00 93.16	A16S	ATOM	49255	O2	1430	104.594	27.695	-20.309	1.00 70.62	A	

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ATOM	49256	N3	URI	1430	105.972	25.903	-20.550	1.00	70.62	Al6S	ATOM	49309	O5'	GUA	1433	100.673	30.258	-26.434	1.00	58.01	f
ATOM	49257	C4	URI	1430	106.709	24.835	-20.075	1.00	70.62	Al6S	ATOM	49310	C5'	GUA	1433	101.786	31.063	-26.838	1.00	58.01	f
ATOM	49258	O4	URI	1430	107.377	24.158	-20.860	1.00	70.62	Al6S	ATOM	49311	C4'	GUA	1433	101.644	32.473	-26.306	1.00	58.01	f
ATOM	49259	C5	URI	1430	106.625	24.639	-18.661	1.00	70.62	Al6S	ATOM	49312	O4'	GUA	1433	100.684	32.495	-25.227	1.00	58.01	f
ATOM	49260	C2'	URI	1430	102.835	27.040	-17.754	1.00	53.87	Al6S	ATOM	49313	C1'	GUA	1433	101.080	33.455	-24.271	1.00	58.01	f
ATOM	49261	O2'	URI	1430	102.099	28.242	-17.686	1.00	53.87	Al6S	ATOM	49314	N9	GUA	1433	100.994	32.841	-22.955	1.00	60.86	f
ATOM	49262	C3'	URI	1430	102.626	26.129	-16.550	1.00	53.87	Al6S	ATOM	49315	C4	GUA	1433	101.718	31.776	-22.497	1.00	60.86	f
ATOM	49263	O3'	URI	1430	101.277	26.084	-16.107	1.00	53.87	Al6S	ATOM	49316	N3	GUA	1433	102.656	31.106	-23.186	1.00	60.86	f
ATOM	49264	P	ADE	1431	100.215	25.181	-16.898	1.00	63.70	Al6S	ATOM	49317	C2	GUA	1433	103.169	30.116	-22.482	1.00	60.86	f
ATOM	49265	O1P	ADE	1431	99.117	24.837	-15.962	1.00	92.68	Al6S	ATOM	49318	N2	GUA	1433	104.121	29.344	-23.019	1.00	60.86	f
ATOM	49266	O2P	ADE	1431	100.955	24.105	-17.599	1.00	92.68	Al6S	ATOM	49319	N1	GUA	1433	102.787	29.808	-21.203	1.00	60.86	f
ATOM	49267	O5'	ADE	1431	99.619	26.165	-17.995	1.00	63.70	Al6S	ATOM	49320	C6	GUA	1433	101.810	30.477	-20.480	1.00	60.86	f
ATOM	49268	C5'	ADE	1431	98.387	25.884	-18.648	1.00	63.70	Al6S	ATOM	49321	O6	GUA	1433	101.512	30.096	-19.342	1.00	60.86	f
ATOM	49269	C4'	ADE	1431	97.638	27.171	-18.890	1.00	63.70	Al6S	ATOM	49322	C5	GUA	1433	101.264	31.548	-21.220	1.00	60.86	f
ATOM	49270	O4'	ADE	1431	97.163	27.697	-17.627	1.00	63.70	Al6S	ATOM	49323	N7	GUA	1433	100.281	32.465	-20.877	1.00	60.86	f
ATOM	49271	C1'	ADE	1431	98.297	29.091	-17.568	1.00	63.70	Al6S	ATOM	49324	C8	GUA	1433	100.157	33.212	-21.937	1.00	58.01	f
ATOM	49272	N9	ADE	1431	97.999	30.012	-15.310	1.00	92.68	Al6S	ATOM	49325	C2'	GUA	1433	102.439	34.049	-24.670	1.00	58.01	f
ATOM	49273	C4	ADE	1431	97.999	30.012	-15.310	1.00	92.68	Al6S	ATOM	49326	O2'	GUA	1433	102.294	35.377	-25.139	1.00	58.01	f
ATOM	49274	N3	ADE	1431	96.840	30.611	-14.999	1.00	92.68	Al6S	ATOM	49327	C3'	GUA	1433	102.927	33.080	-25.748	1.00	58.01	f
ATOM	49275	C2	ADE	1431	96.908	31.150	-13.786	1.00	92.68	Al6S	ATOM	49328	O3'	GUA	1433	103.610	33.810	-26.762	1.00	58.01	f
ATOM	49276	N1	ADE	1431	97.925	31.152	-12.918	1.00	92.68	Al6S	ATOM	49329	P	GUA	1434	105.177	33.563	-27.017	1.00	62.81	f
ATOM	49277	C6	ADE	1431	99.074	30.534	-13.268	1.00	92.68	Al6S	ATOM	49330	O1P	GUA	1434	105.608	34.609	-27.970	1.00	67.89	f
ATOM	49278	N6	ADE	1431	100.088	30.519	-12.402	1.00	92.68	Al6S	ATOM	49331	O2P	GUA	1434	105.375	32.129	-27.354	1.00	67.89	f
ATOM	49279	C6	ADE	1431	99.137	29.935	-14.526	1.00	92.68	Al6S	ATOM	49332	O5'	GUA	1434	105.903	33.895	-25.635	1.00	62.81	f
ATOM	49280	N7	ADE	1431	100.132	29.243	-15.182	1.00	92.68	Al6S	ATOM	49333	C5'	GUA	1434	105.902	35.221	-25.125	1.00	62.81	f
ATOM	49281	C8	ADE	1431	99.593	28.914	-16.326	1.00	92.68	Al6S	ATOM	49334	C4'	GUA	1434	106.058	35.211	-23.623	1.00	62.81	f
ATOM	49282	C2'	ADE	1431	97.910	29.555	-18.929	1.00	63.70	Al6S	ATOM	49335	O4'	GUA	1434	105.243	34.132	-23.087	1.00	62.81	f
ATOM	49283	O2'	ADE	1431	96.852	30.099	-19.685	1.00	63.70	Al6S	ATOM	49336	C1'	GUA	1434	105.891	33.545	-21.964	1.00	62.81	f
ATOM	49284	C3'	ADE	1431	98.502	28.266	-19.489	1.00	63.70	Al6S	ATOM	49337	N9	GUA	1434	106.351	32.209	-22.335	1.00	67.89	f
ATOM	49285	O3'	ADE	1431	98.556	28.152	-20.913	1.00	63.70	Al6S	ATOM	49338	C4	GUA	1434	106.808	31.242	-21.474	1.00	67.89	f
ATOM	49286	P	CYT	1432	97.204	27.990	-21.773	1.00	69.13	Al6S	ATOM	49339	N3	GUA	1434	106.817	31.321	-20.131	1.00	67.89	f
ATOM	49287	O1P	CYT	1432	96.328	29.170	-21.631	1.00	55.97	Al6S	ATOM	49340	C2	GUA	1434	107.384	30.268	-19.578	1.00	67.89	f
ATOM	49288	O2P	CYT	1432	96.647	26.654	-21.482	1.00	55.97	Al6S	ATOM	49341	N2	GUA	1434	107.470	30.188	-18.256	1.00	67.89	f
ATOM	49289	O5'	CYT	1432	97.759	27.973	-23.270	1.00	69.13	Al6S	ATOM	49342	N1	GUA	1434	107.912	29.216	-20.283	1.00	67.89	f
ATOM	49290	C5'	CYT	1432	98.314	29.146	-23.877	1.00	69.13	Al6S	ATOM	49343	C6	GUA	1434	107.923	29.114	-21.669	1.00	67.89	f
ATOM	49291	O4'	CYT	1432	99.677	28.847	-24.469	1.00	69.13	Al6S	ATOM	49344	O6	GUA	1434	108.461	28.137	-22.213	1.00	67.89	f
ATOM	49292	C4'	CYT	1432	100.547	28.459	-23.386	1.00	69.13	Al6S	ATOM	49345	C5	GUA	1434	107.292	30.236	-22.278	1.00	67.89	f
ATOM	49293	C1'	CYT	1432	101.572	27.640	-23.895	1.00	69.13	Al6S	ATOM	49346	N7	GUA	1434	107.073	30.530	-23.615	1.00	67.89	f
ATOM	49294	N1	CYT	1432	101.872	26.572	-22.932	1.00	55.97	Al6S	ATOM	49347	C8	GUA	1434	106.497	31.701	-23.599	1.00	67.89	f
ATOM	49295	C6	CYT	1432	101.111	26.334	-21.813	1.00	55.97	Al6S	ATOM	49348	C2'	GUA	1434	107.121	34.407	-21.684	1.00	62.81	f
ATOM	49296	C2	CYT	1432	102.982	25.764	-23.160	1.00	55.97	Al6S	ATOM	49349	O2'	GUA	1434	106.835	35.430	-20.746	1.00	62.81	f
ATOM	49297	O2	CYT	1432	103.622	25.905	-24.203	1.00	55.97	Al6S	ATOM	49350	C3'	GUA	1434	107.442	34.888	-23.093	1.00	62.81	f
ATOM	49298	N3	CYT	1432	103.334	24.845	-22.243	1.00	55.97	Al6S	ATOM	49351	O3'	GUA	1434	108.332	35.997	-23.113	1.00	62.81	f
ATOM	49299	C4	CYT	1432	102.620	24.710	-21.131	1.00	55.97	Al6S	ATOM	49352	P	GUA	1435	109.910	35.736	-22.947	1.00	53.26	f
ATOM	49300	N4	CYT	1432	103.049	23.830	-20.230	1.00	55.97	Al6S	ATOM	49353	O1P	GUA	1435	110.655	37.001	-23.153	1.00	59.85	f
ATOM	49301	C5	CYT	1432	101.483	25.483	-20.889	1.00	55.97	Al6S	ATOM	49354	O2P	GUA	1435	110.257	34.541	-23.755	1.00	59.85	f
ATOM	49302	C2'	CYT	1432	101.202	27.209	-25.315	1.00	69.13	Al6S	ATOM	49355	O5'	GUA	1435	110.043	35.393	-21.398	1.00	53.26	f
ATOM	49303	O2'	CYT	1432	102.052	27.833	-26.267	1.00	69.13	Al6S	ATOM	49356	C5'	GUA	1435	109.645	36.341	-20.413	1.00	53.26	f
ATOM	49304	C3'	CYT	1432	99.757	27.675	-25.440	1.00	69.13	Al6S	ATOM	49357	C4'	GUA	1435	109.907	35.794	-19.035	1.00	53.26	f
ATOM	49305	O3'	CYT	1432	99.556	27.947	-26.843	1.00	69.13	Al6S	ATOM	49358	O4'	GUA	1435	109.098	34.600	-18.848	1.00	53.26	f
ATOM	49306	P	GUA	1433	99.851	29.407	-27.498	1.00	58.01	Al6S	ATOM	49359	C1'	GUA	1435	109.846	33.622	-18.135	1.00	53.26	f
ATOM	49307	O1P	GUA	1433	98.539	30.087	-27.698	1.00	60.86	Al6S	ATOM	49360	N9	GUA	1435	110.160	32.539	-19.056	1.00	59.85	f
ATOM	49308	O2P	GUA	1433	100.753	29.191	-28.658	1.00	60.86	Al6S	ATOM	49361	C4	GUA	1435	110.689	31.314	-18.729	1.00	59.85	f

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ATOM	49362	N3	GUA	1435	110.968	30.877	-17.484	1.00	59.85	Al6S	ATOM	49415	C3' ADE	1437	120.879	30.486	-16.458	1.00	69.01	Al
ATOM	49363	C2	GUA	1435	111.474	29.657	-17.493	1.00	59.85	Al6S	ATOM	49416	O3' ADE	1437	122.085	30.521	-15.734	1.00	69.01	Al
ATOM	49364	N2	GUA	1435	111.785	29.059	-16.340	1.00	59.85	Al6S	ATOM	49417	P	1438	123.367	31.207	-16.394	1.00	71.18	Al
ATOM	49365	N1	GUA	1435	111.705	28.932	-18.632	1.00	59.85	Al6S	ATOM	49418	O1P GUA	1438	124.539	30.898	-15.538	1.00	76.17	Al
ATOM	49366	C6	GUA	1435	111.332	29.365	-19.923	1.00	59.85	Al6S	ATOM	49419	O2P GUA	1438	123.010	32.624	-16.669	1.00	76.17	Al
ATOM	49367	O6	GUA	1435	111.686	28.636	-20.883	1.00	59.85	Al6S	ATOM	49420	O5' GUA	1438	123.533	30.431	-17.772	1.00	71.18	Al
ATOM	49368	C5	GUA	1435	110.872	30.664	-19.928	1.00	59.85	Al6S	ATOM	49421	C5' GUA	1438	123.905	29.063	-17.791	1.00	71.18	Al
ATOM	49369	N7	GUA	1435	110.446	31.454	-20.987	1.00	59.85	Al6S	ATOM	49422	C4' GUA	1438	123.816	28.527	-19.194	1.00	71.18	Al
ATOM	49370	C8	GUA	1435	110.025	32.552	-20.422	1.00	59.85	Al6S	ATOM	49423	O4' GUA	1438	122.440	28.610	-19.648	1.00	71.18	Al
ATOM	49371	C2'	GUA	1435	111.143	34.296	-17.688	1.00	53.26	Al6S	ATOM	49424	C1' GUA	1438	122.412	28.948	-21.025	1.00	71.18	Al
ATOM	49372	O2'	GUA	1435	110.998	34.876	-16.410	1.00	53.26	Al6S	ATOM	49425	N9	1438	121.799	30.263	-21.153	1.00	76.17	Al
ATOM	49373	C3'	GUA	1435	111.329	35.315	-18.801	1.00	53.26	Al6S	ATOM	49426	C4	1438	121.353	30.833	-22.312	1.00	76.17	Al
ATOM	49374	O3'	GUA	1435	112.226	36.354	-18.446	1.00	53.26	Al6S	ATOM	49427	N3	1438	121.386	30.265	-23.532	1.00	76.17	Al
ATOM	49375	P	CYT	1436	113.771	36.223	-18.865	1.00	61.94	Al6S	ATOM	49428	C2	1438	120.905	31.066	-24.460	1.00	76.17	Al
ATOM	49376	O1P	CYT	1436	114.479	37.479	-18.517	1.00	63.27	Al6S	ATOM	49429	N2	1438	120.871	30.661	-25.733	1.00	76.17	Al
ATOM	49377	O2P	CYT	1436	113.843	35.699	-20.255	1.00	63.27	Al6S	ATOM	49430	N1	1438	120.424	32.324	-24.209	1.00	76.17	Al
ATOM	49378	O5'	CYT	1436	114.312	35.080	-17.907	1.00	61.94	Al6S	ATOM	49431	C6	1438	120.382	32.927	-22.957	1.00	76.17	Al
ATOM	49379	C5'	CYT	1436	114.219	35.213	-16.501	1.00	61.94	Al6S	ATOM	49432	O6	1438	119.938	34.071	-22.839	1.00	76.17	Al
ATOM	49380	C4'	CYT	1436	114.742	33.969	-15.847	1.00	61.94	Al6S	ATOM	49433	C5	1438	120.896	32.079	-21.955	1.00	76.17	Al
ATOM	49381	O4'	CYT	1436	113.893	32.853	-16.223	1.00	61.94	Al6S	ATOM	49434	N7	1438	121.041	32.285	-20.591	1.00	76.17	Al
ATOM	49382	C1'	CYT	1436	114.679	31.683	-16.358	1.00	61.94	Al6S	ATOM	49435	C8	1438	121.576	31.179	-20.156	1.00	76.17	Al
ATOM	49383	N1	CYT	1436	114.021	31.241	-17.749	1.00	63.27	Al6S	ATOM	49436	C2'	1438	123.861	28.970	-21.510	1.00	71.18	Al
ATOM	49384	C2	CYT	1436	114.697	32.035	-18.726	1.00	63.27	Al6S	ATOM	49437	O2'	1438	124.217	29.704	-22.013	1.00	71.18	Al
ATOM	49385	C6	CYT	1436	115.138	30.001	-18.059	1.00	63.27	Al6S	ATOM	49438	C3'	1438	124.592	29.321	-20.258	1.00	71.18	Al
ATOM	49386	O2	CYT	1436	115.562	29.293	-17.138	1.00	63.27	Al6S	ATOM	49439	O3'	1438	125.946	28.911	-20.258	1.00	71.18	Al
ATOM	49387	N3	CYT	1436	115.165	29.594	-19.345	1.00	63.27	Al6S	ATOM	49440	P	1439	127.075	29.950	-20.722	1.00	82.81	Al
ATOM	49388	C4	CYT	1436	114.667	30.377	-20.296	1.00	63.27	Al6S	ATOM	49441	O1P	1439	126.398	29.323	-20.458	1.00	72.98	Al
ATOM	49389	N4	CYT	1436	114.713	29.938	-21.552	1.00	63.27	Al6S	ATOM	49442	O2P	1439	126.754	31.261	-20.112	1.00	72.98	Al
ATOM	49390	C5	CYT	1436	114.100	31.644	-20.002	1.00	63.27	Al6S	ATOM	49443	O5'	1439	126.869	30.042	-22.300	1.00	82.81	Al
ATOM	49391	C2'	CYT	1436	116.108	32.062	-15.988	1.00	61.94	Al6S	ATOM	49444	C5'	1439	127.009	28.881	-23.113	1.00	82.81	Al
ATOM	49392	O3'	CYT	1436	116.288	31.827	-14.615	1.00	61.94	Al6S	ATOM	49445	C4'	1439	126.616	29.181	-24.540	1.00	82.81	Al
ATOM	49393	C3'	CYT	1436	116.114	33.543	-16.327	1.00	61.94	Al6S	ATOM	49446	O4'	1439	125.189	29.438	-24.624	1.00	82.81	Al
ATOM	49394	O3'	CYT	1436	117.144	34.251	-15.648	1.00	61.94	Al6S	ATOM	49447	C1'	1439	124.939	30.419	-25.620	1.00	82.81	Al
ATOM	49395	P	ADE	1437	118.600	34.378	-16.327	1.00	69.01	Al6S	ATOM	49448	N9	1439	124.388	31.538	-24.962	1.00	72.98	Al
ATOM	49396	O1P	ADE	1437	119.441	35.199	-15.416	1.00	68.65	Al6S	ATOM	49449	C4	1439	123.742	32.646	-25.566	1.00	72.98	Al
ATOM	49397	O2P	ADE	1437	118.425	34.793	-17.737	1.00	68.65	Al6S	ATOM	49450	N3	1439	123.467	32.785	-26.879	1.00	72.98	Al
ATOM	49398	O5'	ADE	1437	119.158	32.882	-16.385	1.00	69.01	Al6S	ATOM	49451	C2	1439	122.860	33.895	-27.160	1.00	72.98	Al
ATOM	49399	C5'	ADE	1437	119.345	32.116	-15.201	1.00	69.01	Al6S	ATOM	49452	N2	1439	122.506	34.170	-28.416	1.00	72.98	Al
ATOM	49400	C4'	ADE	1437	119.684	30.686	-15.547	1.00	69.01	Al6S	ATOM	49453	N1	1439	122.553	34.853	-26.228	1.00	72.98	Al
ATOM	49401	O4'	ADE	1437	118.598	30.097	-16.303	1.00	69.01	Al6S	ATOM	49454	C6	1439	122.829	34.764	-24.869	1.00	72.98	Al
ATOM	49402	C1'	ADE	1437	119.119	29.115	-17.187	1.00	69.01	Al6S	ATOM	49455	O6	1439	122.516	35.696	-24.110	1.00	72.98	Al
ATOM	49403	N9	ADE	1437	118.754	29.483	-18.549	1.00	68.65	Al6S	ATOM	49456	C5	1439	123.471	33.542	-24.551	1.00	72.98	Al
ATOM	49404	C3	ADE	1437	119.936	28.708	-19.664	1.00	68.65	Al6S	ATOM	49457	N7	1439	123.910	33.052	-23.331	1.00	72.98	Al
ATOM	49405	N4	ADE	1437	119.479	27.480	-19.720	1.00	68.65	Al6S	ATOM	49458	C8	1439	124.442	31.897	-23.622	1.00	72.98	Al
ATOM	49406	C2	ADE	1437	119.486	27.031	-20.974	1.00	68.65	Al6S	ATOM	49459	C2'	1439	126.283	30.728	-26.283	1.00	82.81	Al
ATOM	49407	N1	ADE	1437	119.043	27.627	-22.092	1.00	68.65	Al6S	ATOM	49460	O2'	1439	126.461	29.882	-27.397	1.00	82.81	Al
ATOM	49408	C6	ADE	1437	118.057	28.863	-21.992	1.00	68.65	Al6S	ATOM	49461	C3'	1439	127.251	30.415	-25.149	1.00	82.81	Al
ATOM	49409	N6	ADE	1437	118.502	29.463	-23.097	1.00	68.65	Al6S	ATOM	49462	O3'	1439	128.563	30.133	-25.614	1.00	82.81	Al
ATOM	49410	C5	ADE	1437	118.440	29.447	-20.720	1.00	68.65	Al6S	ATOM	49463	P	1440	129.610	31.333	-25.809	1.00	69.31	Al
ATOM	49411	N7	ADE	1437	117.959	30.670	-20.280	1.00	68.65	Al6S	ATOM	49464	O1P	1440	130.886	30.717	-26.249	1.00	61.05	Al
ATOM	49412	C8	ADE	1437	118.170	30.642	-18.989	1.00	68.65	Al6S	ATOM	49465	O2P	1440	129.598	32.206	-24.612	1.00	61.05	Al
ATOM	49413	C2'	ADE	1437	120.634	29.091	-17.000	1.00	69.01	Al6S	ATOM	49466	O5'	1440	128.998	32.149	-27.031	1.00	69.31	Al
ATOM	49414	O2'	ADE	1437	120.998	28.084	-16.080	1.00	69.01	Al6S	ATOM	49467	C5'	1440	128.966	31.562	-28.319	1.00	69.31	Al

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ATOM	49468	C4' CYT	1440	128.367	32.508	-29.316	1.00	69.31	Al6S	ATOM	49521	C5' CYT	1442	129.532	42.476	-27.220	1.00	70.08	/
ATOM	49469	O4' CYT	1440	126.975	32.728	-28.997	1.00	69.31	Al6S	ATOM	49522	C2' CYT	1442	129.847	46.002	-30.063	1.00	66.10	/
ATOM	49470	C1' CYT	1440	126.594	34.025	-29.430	1.00	69.31	Al6S	ATOM	49523	O2' CYT	1442	129.361	47.107	-30.798	1.00	66.10	/
ATOM	49471	N1' CYT	1440	126.227	34.806	-28.252	1.00	61.05	Al6S	ATOM	49524	C3' CYT	1442	130.897	45.205	-30.820	1.00	66.10	/
ATOM	49472	C6' CYT	1440	126.762	34.521	-27.027	1.00	61.05	Al6S	ATOM	49525	O3' CYT	1442	131.756	46.068	-31.551	1.00	66.10	/
ATOM	49473	C2' CYT	1440	125.339	35.861	-28.407	1.00	61.05	Al6S	ATOM	49526	P' CYT	1443	133.184	46.475	-30.930	1.00	61.87	/
ATOM	49474	O2' CYT	1440	124.974	36.084	-29.533	1.00	61.05	Al6S	ATOM	49527	OlP CYT	1443	133.894	47.344	-31.907	1.00	71.49	/
ATOM	49475	N3' CYT	1440	125.018	36.613	-27.329	1.00	61.05	Al6S	ATOM	49528	O2P CYT	1443	133.838	45.239	-29.640	1.00	61.87	/
ATOM	49476	C4' CYT	1440	125.556	36.338	-26.139	1.00	61.05	Al6S	ATOM	49529	O5' CYT	1443	132.800	47.374	-29.680	1.00	61.87	/
ATOM	49477	N4' CYT	1440	125.227	37.114	-25.108	1.00	61.05	Al6S	ATOM	49530	C5' CYT	1443	131.971	48.512	-29.848	1.00	61.87	/
ATOM	49478	C5' CYT	1440	127.830	34.649	-30.069	1.00	69.31	Al6S	ATOM	49531	C4' CYT	1443	131.522	49.029	-28.509	1.00	61.87	/
ATOM	49479	C2' CYT	1440	127.854	34.378	-31.452	1.00	69.31	Al6S	ATOM	49532	O4' CYT	1443	130.640	48.067	-27.877	1.00	61.87	/
ATOM	49480	O2' CYT	1440	128.923	33.912	-29.326	1.00	69.31	Al6S	ATOM	49533	C1' CYT	1443	130.778	48.158	-26.471	1.00	61.87	/
ATOM	49481	C3' CYT	1440	130.147	34.005	-30.015	1.00	69.31	Al6S	ATOM	49534	N1' CYT	1443	131.131	46.834	-25.938	1.00	71.49	/
ATOM	49482	O3' CYT	1440	131.204	35.122	-29.570	1.00	75.88	Al6S	ATOM	49535	C6' CYT	1443	131.752	45.900	-26.717	1.00	71.49	/
ATOM	49483	P' GUA	1441	132.412	34.899	-30.407	1.00	67.50	Al6S	ATOM	49536	C2' CYT	1443	130.825	46.548	-24.606	1.00	71.49	/
ATOM	49484	OlP GUA	1441	131.323	35.104	-28.089	1.00	67.50	Al6S	ATOM	49537	O2' CYT	1443	130.253	47.412	-23.929	1.00	71.49	/
ATOM	49485	O2P GUA	1441	130.504	36.492	-29.993	1.00	75.88	Al6S	ATOM	49538	N3' CYT	1443	131.156	45.341	-24.092	1.00	71.49	/
ATOM	49486	O5' GUA	1441	129.468	36.758	-31.353	1.00	75.88	Al6S	ATOM	49539	C4' CYT	1443	131.762	44.437	-24.860	1.00	71.49	/
ATOM	49487	C5' GUA	1441	128.210	38.078	-31.484	1.00	75.88	Al6S	ATOM	49540	N4' CYT	1443	132.060	43.259	-24.317	1.00	71.49	/
ATOM	49488	O4' GUA	1441	127.853	39.310	-30.332	1.00	75.88	Al6S	ATOM	49541	C5' CYT	1443	132.085	44.700	-26.222	1.00	71.49	/
ATOM	49489	O4' GUA	1441	127.082	40.209	-28.115	1.00	67.50	Al6S	ATOM	49542	C2' CYT	1443	131.847	49.214	-26.188	1.00	61.87	/
ATOM	49490	C1' GUA	1441	127.082	40.209	-28.115	1.00	67.50	Al6S	ATOM	49543	O2' CYT	1443	131.217	50.453	-25.959	1.00	61.87	/
ATOM	49491	N9' GUA	1441	126.416	41.284	-28.573	1.00	67.50	Al6S	ATOM	49544	C3' CYT	1443	132.627	49.217	-27.492	1.00	61.87	/
ATOM	49492	C3' GUA	1441	125.921	42.009	-27.590	1.00	67.50	Al6S	ATOM	49545	O3' CYT	1444	133.833	50.611	-27.353	1.00	69.19	/
ATOM	49493	N3' GUA	1441	125.236	43.124	-27.868	1.00	67.50	Al6S	ATOM	49546	P' GUA	1444	135.139	52.062	-27.415	1.00	72.76	/
ATOM	49494	C2' GUA	1441	126.065	41.697	-26.265	1.00	67.50	Al6S	ATOM	49547	OlP GUA	1444	135.615	49.658	-28.177	1.00	72.76	/
ATOM	49495	N2' GUA	1441	126.744	40.589	-25.776	1.00	67.50	Al6S	ATOM	49548	O2P GUA	1444	134.939	50.873	-25.806	1.00	69.19	/
ATOM	49496	C6' GUA	1441	126.816	40.399	-24.563	1.00	67.50	Al6S	ATOM	49549	O5' GUA	1444	134.291	50.145	-25.837	1.00	69.19	/
ATOM	49497	C6' GUA	1441	127.280	39.809	-26.815	1.00	67.50	Al6S	ATOM	49550	C5' GUA	1444	133.625	48.837	-23.711	1.00	69.19	/
ATOM	49498	O6' GUA	1441	128.258	38.360	-28.019	1.00	67.50	Al6S	ATOM	49551	C4' GUA	1444	134.219	47.841	-22.893	1.00	69.19	/
ATOM	49499	C5' GUA	1441	128.959	40.263	-30.762	1.00	75.88	Al6S	ATOM	49552	O4' GUA	1444	134.734	46.785	-23.756	1.00	72.76	/
ATOM	49500	C8' GUA	1441	128.637	40.885	-31.984	1.00	75.88	Al6S	ATOM	49553	C1' GUA	1444	134.825	45.451	-23.445	1.00	72.76	/
ATOM	49501	C2' GUA	1441	130.143	39.307	-30.898	1.00	75.88	Al6S	ATOM	49554	N9' GUA	1444	134.419	44.875	-22.292	1.00	72.76	/
ATOM	49502	O2' GUA	1441	131.099	39.836	-31.802	1.00	75.88	Al6S	ATOM	49555	C4' GUA	1444	134.293	43.571	-22.282	1.00	72.76	/
ATOM	49503	C3' GUA	1441	132.090	41.007	-31.326	1.00	66.10	Al6S	ATOM	49556	N3' GUA	1444	135.252	42.892	-23.318	1.00	72.76	/
ATOM	49504	O3' GUA	1441	132.955	41.287	-32.494	1.00	70.08	Al6S	ATOM	49557	C2' GUA	1444	135.677	43.464	-24.513	1.00	72.76	/
ATOM	49505	P' GUA	1442	132.714	40.651	-30.032	1.00	70.08	Al6S	ATOM	49558	N2' GUA	1444	136.209	42.758	-25.378	1.00	72.76	/
ATOM	49506	OlP CYT	1442	131.127	42.261	-31.108	1.00	66.10	Al6S	ATOM	49559	N1' GUA	1444	135.418	44.860	-24.543	1.00	72.76	/
ATOM	49507	O2P CYT	1442	130.680	43.049	-32.213	1.00	66.10	Al6S	ATOM	49560	C6' GUA	1444	135.672	45.801	-25.023	1.00	72.76	/
ATOM	49508	C5' CYT	1442	130.043	44.330	-31.725	1.00	66.10	Al6S	ATOM	49561	C5' GUA	1444	135.246	46.925	-25.023	1.00	72.76	/
ATOM	49509	O5' CYT	1442	128.911	43.981	-30.891	1.00	66.10	Al6S	ATOM	49562	N7' GUA	1444	135.344	48.527	-22.117	1.00	69.19	/
ATOM	49510	C4' CYT	1442	128.750	44.952	-29.870	1.00	66.10	Al6S	ATOM	49563	C8' GUA	1444	134.854	49.039	-20.891	1.00	69.19	/
ATOM	49511	C4' CYT	1442	128.818	44.278	-28.562	1.00	70.08	Al6S	ATOM	49564	C2' GUA	1444	136.700	49.651	-23.071	1.00	69.19	/
ATOM	49512	O1' CYT	1442	129.439	43.069	-28.420	1.00	70.08	Al6S	ATOM	49565	O2' GUA	1444	136.363	50.693	-22.387	1.00	69.19	/
ATOM	49513	C1' CYT	1442	128.244	44.909	-27.453	1.00	70.08	Al6S	ATOM	49566	P' GUA	1445	137.941	50.884	-22.574	1.00	60.37	/
ATOM	49514	C6' CYT	1442	127.666	45.998	-27.614	1.00	70.08	Al6S	ATOM	49567	OlP GUA	1445	138.101	52.796	-22.994	1.00	61.32	/
ATOM	49515	O2' CYT	1442	128.330	44.323	-26.234	1.00	70.08	Al6S	ATOM	49570	O2P GUA	1445	138.500	49.796	-23.418	1.00	61.32	/
ATOM	49516	C3' CYT	1442	128.957	43.155	-26.102	1.00	70.08	Al6S	ATOM	49571	O2P ADE	1445	138.521	50.740	-21.097	1.00	60.37	/
ATOM	49517	N3' CYT	1442	129.044	42.632	-24.878	1.00	70.08	Al6S	ATOM	49572	O5' ADE	1445	138.107	51.631	-20.065	1.00	60.37	/
ATOM	49518	C4' CYT	1442							ATOM	49573	C5' ADE	1445						/
ATOM	49519	C4' CYT	1442																/
ATOM	49520	N4' CYT	1442																/

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ATOM	49574	C4' ADE	1445	138.468	51.074	-18.709	1.00	60.37	A16S	ATOM	49627	N1 GUA	1447	145.795	44.834	-26.164	1.00	64.37	A
ATOM	49575	O4' ADE	1445	137.717	49.857	-18.471	1.00	60.37	A16S	ATOM	49628	C6 GUA	1447	145.604	46.081	-26.575	1.00	64.37	A
ATOM	49576	C1' ADE	1445	138.540	48.914	-17.808	1.00	60.37	A16S	ATOM	49629	O6 GUA	1447	145.244	47.046	-26.267	1.00	64.37	A
ATOM	49577	N9 ADE	1445	138.819	47.833	-18.743	1.00	61.32	A16S	ATOM	49630	C5 GUA	1447	145.875	46.048	-24.189	1.00	64.37	A
ATOM	49578	C4 ADE	1445	139.225	46.567	-18.410	1.00	61.32	A16S	ATOM	49631	N7 GUA	1447	145.805	47.052	-23.236	1.00	64.37	A
ATOM	49579	N3 ADE	1445	139.458	46.090	-17.178	1.00	61.32	A16S	ATOM	49632	C8 GUA	1447	146.173	46.471	-22.129	1.00	64.37	A
ATOM	49580	C2 ADE	1445	139.807	44.812	-17.237	1.00	61.32	A16S	ATOM	49633	C2' GUA	1447	148.526	44.136	-21.501	1.00	80.00	A
ATOM	49581	N1 ADE	1445	139.938	44.016	-18.308	1.00	61.32	A16S	ATOM	49634	O2' GUA	1447	148.994	42.871	-21.074	1.00	80.00	A
ATOM	49582	C6 ADE	1445	139.694	44.530	-19.529	1.00	61.32	A16S	ATOM	49635	C3' GUA	1447	148.995	45.295	-20.633	1.00	80.00	A
ATOM	49583	N5 ADE	1445	139.808	43.732	-20.595	1.00	61.32	A16S	ATOM	49636	O3' GUA	1447	150.370	45.203	-20.307	1.00	80.00	A
ATOM	49584	C6 ADE	1445	139.325	45.879	-19.603	1.00	61.32	A16S	ATOM	49637	P GUA	1448	151.454	45.886	-21.278	1.00	80.80	A
ATOM	49585	N7 ADE	1445	139.012	46.704	-20.672	1.00	61.32	A16S	ATOM	49638	O1P GUA	1448	152.754	45.811	-20.564	1.00	85.77	A
ATOM	49586	C8 ADE	1445	138.722	47.850	-20.109	1.00	61.32	A16S	ATOM	49639	O2P GUA	1448	150.932	47.205	-21.720	1.00	85.77	A
ATOM	49587	C2' ADE	1445	139.813	49.645	-17.408	1.00	60.37	A16S	ATOM	49640	O5' GUA	1448	151.488	44.925	-22.549	1.00	98.80	A
ATOM	49588	O2' ADE	1445	139.604	50.255	-16.154	1.00	60.37	A16S	ATOM	49641	C5' GUA	1448	151.630	43.525	-22.395	1.00	98.80	A
ATOM	49589	C3' ADE	1445	139.919	50.661	-18.531	1.00	60.37	A16S	ATOM	49642	C4' GUA	1448	151.525	42.828	-23.721	1.00	98.80	A
ATOM	49590	O3' ADE	1445	140.711	51.764	-18.132	1.00	60.37	A16S	ATOM	49643	O4' GUA	1448	150.160	42.995	-24.182	1.00	98.80	A
ATOM	49591	P GUA	1446	142.724	52.083	-18.922	1.00	67.22	A16S	ATOM	49644	C1' GUA	1448	150.145	43.098	-25.596	1.00	98.80	A
ATOM	49592	O1P GUA	1446	141.688	52.145	-20.354	1.00	72.78	A16S	ATOM	49645	N9 GUA	1448	149.194	44.782	-27.214	1.00	85.77	A
ATOM	49593	O2P GUA	1446	142.955	50.783	-18.712	1.00	67.22	A16S	ATOM	49646	C4 GUA	1448	149.335	44.057	-28.341	1.00	85.77	A
ATOM	49594	O5' GUA	1446	143.256	50.318	-17.409	1.00	67.22	A16S	ATOM	49647	N3 GUA	1448	148.886	44.702	-29.401	1.00	85.77	A
ATOM	49595	C5' GUA	1446	143.641	48.863	-17.452	1.00	67.22	A16S	ATOM	49648	C2 GUA	1448	148.960	44.127	-30.609	1.00	85.77	A
ATOM	49596	C4' GUA	1446	142.549	48.101	-18.034	1.00	67.22	A16S	ATOM	49649	N2 GUA	1448	148.336	45.955	-29.357	1.00	85.77	A
ATOM	49597	O4' GUA	1446	143.074	46.982	-18.735	1.00	67.22	A16S	ATOM	49650	N1 GUA	1448	148.182	46.721	-28.207	1.00	85.77	A
ATOM	49598	C1' GUA	1446	142.739	47.130	-20.145	1.00	72.78	A16S	ATOM	49651	C6 GUA	1448	147.670	47.842	-28.280	1.00	85.77	A
ATOM	49599	N9 GUA	1446	142.809	46.152	-21.107	1.00	72.78	A16S	ATOM	49652	O6 GUA	1448	148.667	46.045	-27.063	1.00	85.77	A
ATOM	49600	C4 GUA	1446	143.183	44.869	-20.909	1.00	72.78	A16S	ATOM	49653	C5 GUA	1448	149.707	46.440	-25.773	1.00	85.77	A
ATOM	49601	N3 GUA	1446	143.153	44.171	-22.030	1.00	72.78	A16S	ATOM	49654	N7 GUA	1448	151.586	42.940	-26.085	1.00	98.80	A
ATOM	49602	C2 GUA	1446	142.796	44.693	-23.246	1.00	72.78	A16S	ATOM	49655	C8 GUA	1448	151.831	41.595	-26.441	1.00	98.80	A
ATOM	49603	N2 GUA	1446	142.411	46.011	-23.472	1.00	72.78	A16S	ATOM	49656	C2' GUA	1448	152.366	43.388	-24.854	1.00	98.80	A
ATOM	49604	N1 GUA	1446	142.113	46.384	-24.615	1.00	72.78	A16S	ATOM	49657	O2' GUA	1448	153.687	42.859	-24.828	1.00	98.80	A
ATOM	49605	C6 GUA	1446	142.428	46.767	-22.281	1.00	72.78	A16S	ATOM	49658	C3' GUA	1448	154.913	43.767	-25.329	1.00	95.86	A
ATOM	49606	O6 GUA	1446	142.115	48.099	-22.060	1.00	72.78	A16S	ATOM	49659	O3' GUA	1449	156.157	43.074	-24.915	1.00	73.98	A
ATOM	49607	C5 GUA	1446	144.311	48.269	-20.781	1.00	72.78	A16S	ATOM	49660	P URI	1449	154.880	43.718	-26.918	1.00	95.86	A
ATOM	49608	N7 GUA	1446	144.915	46.289	-17.345	1.00	67.22	A16S	ATOM	49661	O1P URI	1449	155.142	42.541	-27.643	1.00	95.86	A
ATOM	49609	C8 GUA	1446	144.821	48.498	-18.337	1.00	67.22	A16S	ATOM	49662	O2P URI	1449	153.874	42.742	-29.115	1.00	95.86	A
ATOM	49610	C2' GUA	1446	144.059	48.743	-17.687	1.00	67.22	A16S	ATOM	49663	O5' URI	1449	153.454	42.979	-29.309	1.00	95.86	A
ATOM	49611	O2' GUA	1446	147.400	48.893	-18.558	1.00	80.00	A16S	ATOM	49664	C5' URI	1449	152.261	43.846	-30.420	1.00	95.86	A
ATOM	49612	C3' GUA	1446	147.579	49.931	-19.596	1.00	64.37	A16S	ATOM	49665	C4' URI	1449	152.570	45.058	-29.960	1.00	73.98	A
ATOM	49613	O3' GUA	1447	148.508	49.046	-17.579	1.00	64.37	A16S	ATOM	49666	O4' URI	1449	152.742	45.529	-28.682	1.00	73.98	A
ATOM	49614	P GUA	1447	147.191	47.480	-19.274	1.00	80.00	A16S	ATOM	49667	C1' URI	1449	151.754	45.727	-30.863	1.00	73.98	A
ATOM	49615	O1P GUA	1447	147.559	47.341	-18.526	1.00	80.00	A16S	ATOM	49668	N1 URI	1449	151.536	45.324	-31.993	1.00	73.98	A
ATOM	49616	O2P GUA	1447	148.101	45.135	-19.422	1.00	80.00	A16S	ATOM	49669	C6 URI	1449	151.196	46.883	-30.389	1.00	73.98	A
ATOM	49617	O5' GUA	1447	146.816	44.813	-20.019	1.00	80.00	A16S	ATOM	49670	C2 URI	1449	151.350	47.423	-29.129	1.00	73.98	A
ATOM	49618	C5' GUA	1447	147.018	44.234	-21.302	1.00	80.00	A16S	ATOM	49671	N3 URI	1449	150.834	46.513	-28.871	1.00	73.98	A
ATOM	49619	C4' GUA	1447	146.496	45.150	-22.301	1.00	64.37	A16S	ATOM	49672	O2 URI	1449	152.176	46.655	-28.247	1.00	95.86	A
ATOM	49620	O4' GUA	1447	146.279	44.864	-23.620	1.00	64.37	A16S	ATOM	49673	C4 URI	1449	154.647	44.170	-30.981	1.00	95.86	A
ATOM	49621	C1' GUA	1447	146.460	43.666	-24.205	1.00	64.37	A16S	ATOM	49674	C5 URI	1449	154.964	43.275	-32.026	1.00	95.86	A
ATOM	49622	N9 GUA	1447	146.202	43.705	-25.499	1.00	64.37	A16S	ATOM	49675	C2' URI	1449	155.523	43.962	-29.754	1.00	95.86	A
ATOM	49623	C4 GUA	1447	146.338	42.595	-26.237	1.00	64.37	A16S	ATOM	49676	O2' URI	1449	156.884	43.736	-30.118	1.00	95.86	A
ATOM	49624	N3 GUA	1447							ATOM	49677	C3' URI	1449						A
ATOM	49625	C2 GUA	1447							ATOM	49678	O3' URI	1449						A
ATOM	49626	N2 GUA	1447							ATOM	49679	O3' URI	1449						A

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ATOM	49680	P	ADE	1450	157.876	44.992	-30.309	1.00121.71	Al6s	ATOM	49733	N9	GUA	1452	155.768	57.151	-32.852	1.00188.98
ATOM	49681	01P	ADE	1450	159.200	44.450	-30.711	1.0097.92	Al6s	ATOM	49734	C4	GUA	1452	155.054	57.358	-31.695	1.00188.98
ATOM	49682	02P	ADE	1450	157.782	45.874	-29.116	1.0097.92	Al6s	ATOM	49735	N3	GUA	1452	154.197	58.376	-31.463	1.00188.98
ATOM	49683	05	ADE	1450	157.264	45.777	-31.554	1.00121.71	Al6s	ATOM	49736	C2	GUA	1452	153.676	58.317	-30.249	1.00188.98
ATOM	49684	C5	ADE	1450	157.412	45.268	-32.875	1.00121.71	Al6s	ATOM	49737	N2	GUA	1452	152.806	59.256	-29.852	1.00188.98
ATOM	49685	C4	ADE	1450	156.902	46.266	-33.885	1.00121.71	Al6s	ATOM	49738	N1	GUA	1452	153.972	57.334	-29.333	1.00188.98
ATOM	49686	04	ADE	1450	155.453	46.350	-33.820	1.00121.71	Al6s	ATOM	49739	C6	GUA	1452	154.850	56.276	-29.549	1.00188.98
ATOM	49687	C1	ADE	1450	155.041	47.680	-34.098	1.00121.71	Al6s	ATOM	49740	O6	GUA	1452	155.048	55.444	-28.653	1.00188.98
ATOM	49688	N9	ADE	1450	154.409	48.222	-32.897	1.0097.92	Al6s	ATOM	49741	C5	GUA	1452	155.418	56.328	-30.851	1.00188.98
ATOM	49689	C4	ADE	1450	153.533	49.280	-32.850	1.0097.92	Al6s	ATOM	49742	N7	GUA	1452	156.330	55.483	-31.470	1.00188.98
ATOM	49690	N3	ADE	1450	153.073	50.007	-33.884	1.0097.92	Al6s	ATOM	49743	C8	GUA	1452	156.504	56.006	-32.654	1.00188.98
ATOM	49691	C2	ADE	1450	152.244	50.957	-33.459	1.0097.92	Al6s	ATOM	49744	C2	GUA	1452	156.673	59.209	-33.856	1.00142.08
ATOM	49692	N1	ADE	1450	151.854	51.243	-32.210	1.0097.92	Al6s	ATOM	49745	O2	GUA	1452	156.190	60.313	-34.597	1.00142.08
ATOM	49693	C6	ADE	1450	152.336	50.494	-31.194	1.0097.92	Al6s	ATOM	49746	C3	GUA	1452	157.984	58.656	-34.391	1.00142.08
ATOM	49694	N6	ADE	1450	151.945	50.781	-29.950	1.0097.92	Al6s	ATOM	49747	O3	GUA	1452	158.895	59.683	-34.737	1.00142.08
ATOM	49695	C5	ADE	1450	153.223	49.453	-31.513	1.0097.92	Al6s	ATOM	49748	P	GUA	1453	159.890	60.256	-33.617	1.00140.54
ATOM	49696	N7	ADE	1450	153.885	48.516	-30.731	1.0097.92	Al6s	ATOM	49749	O1P	GUA	1453	160.867	59.107	-32.810	1.00185.35
ATOM	49697	C8	ADE	1450	154.570	47.810	-31.598	1.0097.92	Al6s	ATOM	49750	O2P	GUA	1453	160.378	61.143	-32.699	1.00185.35
ATOM	49698	C2	ADE	1450	156.300	48.467	-34.459	1.00121.71	Al6s	ATOM	49751	O5	GUA	1453	158.946	61.153	-32.699	1.00140.54
ATOM	49699	C3	ADE	1450	156.510	48.421	-35.855	1.00121.71	Al6s	ATOM	49752	C5	GUA	1453	158.253	62.274	-33.241	1.00140.54
ATOM	49700	C2	ADE	1450	157.352	47.699	-33.674	1.00121.71	Al6s	ATOM	49753	O4	GUA	1453	157.344	62.881	-32.199	1.00140.54
ATOM	49701	O3	ADE	1450	158.666	47.928	-34.157	1.00121.71	Al6s	ATOM	49754	O4	GUA	1453	156.287	61.940	-31.872	1.00140.54
ATOM	49702	P	GUA	1451	159.504	49.175	-33.592	1.00130.60	Al6s	ATOM	49755	C1	GUA	1453	155.990	62.010	-30.486	1.00140.54
ATOM	49703	01P	GUA	1451	160.894	49.034	-34.089	1.00135.77	Al6s	ATOM	49756	N9	GUA	1453	156.326	60.731	-29.880	1.00185.35
ATOM	49704	02P	GUA	1451	159.256	49.285	-32.134	1.00135.77	Al6s	ATOM	49757	C4	GUA	1453	155.989	60.301	-28.617	1.00185.35
ATOM	49705	O5	GUA	1451	158.836	50.429	-34.311	1.00130.60	Al6s	ATOM	49758	N3	GUA	1453	155.288	61.001	-27.701	1.00185.35
ATOM	49706	C5	GUA	1451	158.903	50.568	-35.726	1.00130.60	Al6s	ATOM	49759	C2	GUA	1453	155.120	60.318	-26.581	1.00185.35
ATOM	49707	C4	GUA	1451	157.995	51.679	-36.194	1.00130.60	Al6s	ATOM	49760	N2	GUA	1453	154.447	60.865	-25.561	1.00185.35
ATOM	49708	O4	GUA	1451	156.614	51.337	-35.884	1.00130.60	Al6s	ATOM	49761	N1	GUA	1453	155.600	59.047	-26.378	1.00185.35
ATOM	49709	C1	GUA	1451	155.908	52.509	-35.503	1.00130.60	Al6s	ATOM	49762	C6	GUA	1453	156.323	58.306	-27.307	1.00185.35
ATOM	49710	N9	GUA	1451	155.625	52.418	-34.076	1.00135.77	Al6s	ATOM	49763	O6	GUA	1453	156.705	57.163	-27.024	1.00185.35
ATOM	49711	C4	GUA	1451	154.713	53.170	-33.376	1.00135.77	Al6s	ATOM	49764	C5	GUA	1453	156.515	59.030	-28.511	1.00185.35
ATOM	49712	N3	GUA	1451	153.891	54.108	-33.897	1.00135.77	Al6s	ATOM	49765	N7	GUA	1453	157.173	58.670	-29.679	1.00185.35
ATOM	49713	C2	GUA	1451	153.138	54.673	-32.970	1.00135.77	Al6s	ATOM	49766	C8	GUA	1453	157.037	59.708	-30.460	1.00185.35
ATOM	49714	N2	GUA	1451	152.264	55.629	-33.315	1.00135.77	Al6s	ATOM	49767	C2	GUA	1453	156.809	63.175	-29.917	1.00140.54
ATOM	49715	N1	GUA	1451	153.188	54.344	-31.638	1.00135.77	Al6s	ATOM	49768	O2	GUA	1453	156.057	64.370	-29.988	1.00140.54
ATOM	49716	C6	GUA	1451	154.027	53.383	-31.080	1.00135.77	Al6s	ATOM	49769	C3	GUA	1453	158.000	63.185	-30.863	1.00140.54
ATOM	49717	O6	GUA	1451	153.998	53.168	-29.863	1.00135.77	Al6s	ATOM	49770	O3	GUA	1453	158.646	64.451	-30.880	1.00140.54
ATOM	49718	C5	GUA	1451	154.838	52.768	-32.063	1.00135.77	Al6s	ATOM	49771	P	GUA	1454	159.875	64.727	-29.881	1.00162.51
ATOM	49719	N7	GUA	1451	155.798	51.773	-31.942	1.00135.77	Al6s	ATOM	49772	01P	CYT	1454	160.507	65.998	-30.317	1.00171.00
ATOM	49720	C8	GUA	1451	156.232	51.594	-33.159	1.00135.77	Al6s	ATOM	49773	02P	CYT	1454	160.694	63.491	-29.798	1.00171.00
ATOM	49721	C2	GUA	1451	156.843	53.687	-35.777	1.00130.60	Al6s	ATOM	49774	O5	CYT	1454	159.185	64.967	-28.425	1.00162.51
ATOM	49722	O2	GUA	1451	156.679	54.147	-37.107	1.00130.60	Al6s	ATOM	49775	C5	CYT	1454	158.322	66.082	-28.251	1.00162.51
ATOM	49723	C3	GUA	1451	158.194	53.033	-35.528	1.00130.60	Al6s	ATOM	49776	C4	CYT	1454	157.654	65.986	-26.898	1.00162.51
ATOM	49724	P	GUA	1451	159.021	53.774	-36.088	1.00142.08	Al6s	ATOM	49777	O4	CYT	1454	156.879	64.758	-26.836	1.00162.51
ATOM	49725	O3	GUA	1452	160.021	54.880	-35.192	1.00142.08	Al6s	ATOM	49778	C1	CYT	1454	156.920	64.233	-25.519	1.00162.51
ATOM	49726	01P	GUA	1452	161.113	55.458	-36.016	1.00188.98	Al6s	ATOM	49779	N1	CYT	1454	157.593	62.927	-25.565	1.00171.00
ATOM	49727	02P	GUA	1452	160.335	54.289	-33.867	1.00188.98	Al6s	ATOM	49780	C6	CYT	1454	158.263	62.520	-26.685	1.00171.00
ATOM	49728	O5	GUA	1452	158.915	56.005	-34.980	1.00142.08	Al6s	ATOM	49781	C2	CYT	1454	157.540	62.105	-24.437	1.00171.00
ATOM	49729	C5	GUA	1452	158.459	56.789	-36.076	1.00142.08	Al6s	ATOM	49782	O2	CYT	1454	156.925	62.502	-23.436	1.00171.00
ATOM	49730	C4	GUA	1452	157.512	57.860	-35.595	1.00142.08	Al6s	ATOM	49783	N3	CYT	1454	158.159	60.904	-24.465	1.00171.00
ATOM	49731	O4	GUA	1452	156.276	57.252	-35.133	1.00142.08	Al6s	ATOM	49784	C4	CYT	1454	158.812	60.516	-25.562	1.00171.00
ATOM	49732	C1	GUA	1452	155.756	58.000	-34.040	1.00142.08	Al6s	ATOM	49785	N4	CYT	1454	159.411	59.324	-25.544	1.00171.00

Table 2 - 470/482

ATOM	49786	C5	CYT	1454	158.882	61.334	-26.726	1.00171.00	A16S	ATOM	49839	N9	GUA	1457	166.270	61.652	-14.971	1.00103.80	A
ATOM	49787	C2	CYT	1454	157.673	65.245	-24.657	1.00162.51	A16S	ATOM	49840	C4	GUA	1457	166.954	60.733	-15.733	1.00103.80	A
ATOM	49788	O2	CYT	1454	156.755	66.153	-24.083	1.00162.51	A16S	ATOM	49841	N3	GUA	1457	167.489	59.574	-15.291	1.00103.80	A
ATOM	49789	C3	CYT	1454	158.579	65.894	-25.694	1.00162.51	A16S	ATOM	49842	C2	GUA	1457	168.095	58.906	-16.264	1.00103.80	A
ATOM	49790	O3	CYT	1454	159.026	67.179	-25.272	1.00162.51	A16S	ATOM	49843	N2	GUA	1457	168.686	57.727	-16.003	1.00103.80	A
ATOM	49791	P	CYT	1455	160.361	67.305	-24.380	1.00138.64	A16S	ATOM	49844	N1	GUA	1457	168.168	59.345	-17.568	1.00103.80	A
ATOM	49792	O1P	CYT	1455	160.739	68.739	-24.353	1.00117.68	A16S	ATOM	49845	C6	GUA	1457	167.628	60.538	-18.043	1.00103.80	A
ATOM	49793	O2P	CYT	1455	161.347	66.299	-24.854	1.00117.68	A16S	ATOM	49846	O6	GUA	1457	167.763	60.848	-19.236	1.00103.80	A
ATOM	49794	O5	CYT	1455	159.892	66.892	-22.911	1.00138.64	A16S	ATOM	49847	C5	GUA	1457	166.973	61.259	-17.010	1.00103.80	A
ATOM	49795	C5	CYT	1455	158.852	67.609	-22.247	1.00138.64	A16S	ATOM	49848	N7	GUA	1457	166.315	62.478	-17.048	1.00103.80	A
ATOM	49796	C4	CYT	1455	158.547	66.979	-20.906	1.00138.64	A16S	ATOM	49849	C8	GUA	1457	165.915	62.670	-15.820	1.00103.80	A
ATOM	49797	O4	CYT	1455	158.068	65.624	-21.102	1.00138.64	A16S	ATOM	49850	C2	GUA	1457	167.230	61.794	-12.687	1.00116.92	A
ATOM	49798	C1	CYT	1455	158.440	64.827	-19.991	1.00138.64	A16S	ATOM	49851	O2	GUA	1457	167.110	61.086	-11.471	1.00116.92	A
ATOM	49799	N1	CYT	1455	159.209	63.676	-20.475	1.00117.68	A16S	ATOM	49852	C3	GUA	1457	167.163	63.295	-12.470	1.00116.92	A
ATOM	49800	C6	CYT	1455	159.691	63.633	-21.752	1.00117.68	A16S	ATOM	49853	O3	GUA	1457	167.896	63.695	-11.326	1.00116.92	A
ATOM	49801	C2	CYT	1455	159.442	62.618	-19.597	1.00117.68	A16S	ATOM	49854	P	URI	1458	169.249	64.535	-11.514	1.00103.80	A
ATOM	49802	O2	CYT	1455	158.986	62.686	-18.446	1.00117.68	A16S	ATOM	49855	O1P	URI	1458	169.039	65.176	-10.207	1.00103.80	A
ATOM	49803	N3	CYT	1455	160.155	61.551	-20.019	1.00117.68	A16S	ATOM	49856	O2P	URI	1458	169.039	65.376	-12.731	1.00103.80	A
ATOM	49804	C4	CYT	1455	160.625	61.518	-21.267	1.00117.68	A16S	ATOM	49857	O5	URI	1458	170.347	62.223	-11.077	1.00103.80	A
ATOM	49805	N4	CYT	1455	161.324	60.445	-21.642	1.00117.68	A16S	ATOM	49858	C5	URI	1458	170.401	62.223	-11.077	1.00103.80	A
ATOM	49806	C5	CYT	1455	160.398	62.583	-22.186	1.00117.68	A16S	ATOM	49859	C4	URI	1458	171.039	61.136	-11.896	1.00103.80	A
ATOM	49807	C2	CYT	1455	159.251	65.705	-19.039	1.00138.64	A16S	ATOM	49860	O4	URI	1458	170.175	60.775	-13.002	1.00103.80	A
ATOM	49808	O2	CYT	1455	158.424	66.186	-18.002	1.00138.64	A16S	ATOM	49861	C1	URI	1458	170.966	60.348	-14.099	1.00103.80	A
ATOM	49809	C3	CYT	1455	159.731	66.806	-19.972	1.00138.64	A16S	ATOM	49862	N1	URI	1458	170.607	62.319	-15.277	1.00103.80	A
ATOM	49810	O3	CYT	1455	159.990	67.992	-19.242	1.00138.64	A16S	ATOM	49863	C6	URI	1458	169.883	62.313	-15.162	1.00103.80	A
ATOM	49811	P	CYT	1456	161.431	68.205	-18.577	1.00141.27	A16S	ATOM	49864	C2	URI	1458	171.028	60.690	-16.513	1.00103.80	A
ATOM	49812	O1P	CYT	1456	161.417	69.499	-17.859	1.00141.27	A16S	ATOM	49865	O2	URI	1458	171.672	59.666	-16.652	1.00103.80	A
ATOM	49813	O2P	CYT	1456	162.440	67.961	-17.630	1.00141.27	A16S	ATOM	49866	N3	URI	1458	170.669	61.476	-17.581	1.00103.80	A
ATOM	49814	O5	CYT	1456	161.541	67.038	-17.501	1.00141.27	A16S	ATOM	49867	C4	URI	1458	169.944	62.650	-17.540	1.00103.80	A
ATOM	49815	C5	CYT	1456	160.953	67.177	-16.214	1.00141.27	A16S	ATOM	49868	O4	URI	1458	169.671	63.061	-16.221	1.00103.80	A
ATOM	49816	C4	CYT	1456	161.343	66.014	-15.336	1.00141.27	A16S	ATOM	49869	C5	URI	1458	169.546	63.061	-16.221	1.00103.80	A
ATOM	49817	O4	CYT	1456	160.839	64.785	-15.928	1.00141.27	A16S	ATOM	49870	C2	URI	1458	172.432	60.504	-13.689	1.00103.80	A
ATOM	49818	C1	CYT	1456	161.752	63.725	-15.679	1.00141.27	A16S	ATOM	49871	O2	URI	1458	172.927	59.267	-13.221	1.00103.80	A
ATOM	49819	N1	CYT	1456	162.297	63.261	-16.964	1.00141.27	A16S	ATOM	49872	C3	URI	1458	172.322	61.542	-12.583	1.00103.80	A
ATOM	49820	C6	CYT	1456	162.184	64.019	-18.098	1.00141.27	A16S	ATOM	49873	O3	URI	1458	173.399	61.461	-11.675	1.00103.80	A
ATOM	49821	C2	CYT	1456	162.943	62.029	-17.003	1.00141.27	A16S	ATOM	49874	P	URI	1459	174.637	62.465	-11.832	1.00103.80	A
ATOM	49822	O2	CYT	1456	163.029	61.370	-15.958	1.00141.27	A16S	ATOM	49875	O1P	GUA	1459	175.572	62.177	-10.714	1.00103.80	A
ATOM	49823	N3	CYT	1456	163.461	61.587	-18.174	1.00141.27	A16S	ATOM	49876	O2P	GUA	1459	174.096	63.836	-12.004	1.00103.80	A
ATOM	49824	C4	CYT	1456	163.354	62.336	-19.275	1.00141.27	A16S	ATOM	49877	O5	GUA	1459	175.317	62.010	-13.198	1.00103.80	A
ATOM	49825	N4	CYT	1456	163.893	61.870	-20.406	1.00141.27	A16S	ATOM	49878	C5	GUA	1459	176.239	60.448	-14.767	1.00103.80	A
ATOM	49826	C5	CYT	1456	162.694	63.599	-19.265	1.00141.27	A16S	ATOM	49879	C4	GUA	1459	175.043	60.357	-15.577	1.00103.80	A
ATOM	49827	C2	CYT	1456	162.850	64.291	-14.783	1.00141.27	A16S	ATOM	49880	O4	GUA	1459	175.296	60.903	-16.860	1.00103.80	A
ATOM	49828	O2	CYT	1456	162.936	64.102	-13.428	1.00141.27	A16S	ATOM	49881	C1	GUA	1459	174.384	62.021	-17.050	1.00103.80	A
ATOM	49829	C3	CYT	1456	162.495	65.752	-15.205	1.00141.27	A16S	ATOM	49882	N9	GUA	1459	174.934	62.521	-18.246	1.00103.80	A
ATOM	49830	O3	CYT	1456	163.464	66.534	-14.246	1.00141.27	A16S	ATOM	49883	C4	GUA	1459	174.279	62.077	-19.470	1.00103.80	A
ATOM	49831	P	GUA	1457	165.061	66.792	-14.296	1.00116.92	A16S	ATOM	49884	N3	GUA	1459	173.673	62.757	-20.430	1.00106.34	A1
ATOM	49832	O1P	GUA	1457	165.415	67.877	-13.349	1.00103.80	A16S	ATOM	49885	C2	GUA	1459	173.910	62.458	-21.714	1.00106.34	A1
ATOM	49833	O2P	GUA	1457	165.663	66.900	-15.720	1.00103.80	A16S	ATOM	49886	N2	GUA	1459	172.793	63.781	-20.199	1.00106.34	A1
ATOM	49834	O5	GUA	1457	165.420	65.420	-13.721	1.00116.92	A16S	ATOM	49887	N1	GUA	1459	172.422	64.249	-18.943	1.00106.34	A1
ATOM	49835	C5	GUA	1457	165.184	64.915	-12.466	1.00116.92	A16S	ATOM	49888	C6	GUA	1459	171.610	65.178	-18.844	1.00106.34	A1
ATOM	49836	C4	GUA	1457	165.679	63.503	-12.255	1.00116.92	A16S	ATOM	49889	O6	GUA	1459	173.073	63.540	-17.912	1.00106.34	A1
ATOM	49837	O4	GUA	1457	165.067	62.601	-13.215	1.00116.92	A16S	ATOM	49890	C5	GUA	1459	172.996	63.690	-16.536	1.00106.34	A1
ATOM	49838	C1	GUA	1457	165.984	61.567	-13.543	1.00116.92	A16S	ATOM	49891	N7	GUA	1459					A1

ATOM	49892	C8	GUA	1459	173.792	62.771	-16.068	1.00106.34	Al6S	ATOM	49945	O4' URI	1462	183.121	67.762	-23.656	1.00 97.70
ATOM	49893	C2' GUA	1459	176.767	61.317	-16.904	1.00104.15	Al6S	ATOM	49946	C1' URI	1462	182.149	68.764	-23.415	1.00 97.70	
ATOM	49894	O2' GUA	1459	177.538	60.280	-17.479	1.00104.15	Al6S	ATOM	49947	N1 URI	1462	181.819	68.749	-21.985	1.00 65.70	
ATOM	49895	C3' GUA	1459	177.058	61.542	-15.426	1.00104.15	Al6S	ATOM	49948	C6 URI	1462	182.629	68.128	-21.066	1.00 65.70	
ATOM	49896	O3' GUA	1459	178.433	61.372	-15.118	1.00104.15	Al6S	ATOM	49949	C2 URI	1462	180.666	69.389	-21.596	1.00 65.70	
ATOM	49897	P ADE	1460	179.495	62.483	-15.579	1.00 95.62	Al6S	ATOM	49950	O2 URI	1462	179.926	69.937	-22.377	1.00 65.70	
ATOM	49898	O1P ADE	1460	180.304	62.832	-14.382	1.00112.90	Al6S	ATOM	49951	N3 URI	1462	180.410	69.360	-20.257	1.00 65.70	
ATOM	49899	O2P ADE	1460	178.781	63.551	-16.321	1.00112.90	Al6S	ATOM	49952	C4 URI	1462	181.169	68.761	-19.287	1.00 65.70	
ATOM	49900	O5' ADE	1460	180.426	61.697	-16.604	1.00 95.62	Al6S	ATOM	49953	O4 URI	1462	180.775	68.784	-18.124	1.00 65.70	
ATOM	49901	C5' ADE	1460	181.113	60.517	-16.206	1.00 95.62	Al6S	ATOM	49954	C5 URI	1462	182.353	68.113	-19.764	1.00 65.70	
ATOM	49902	C4' ADE	1460	181.724	59.852	-17.408	1.00 95.62	Al6S	ATOM	49955	C2' URI	1462	182.773	70.093	-23.825	1.00 97.70	
ATOM	49903	O4' ADE	1460	180.664	59.430	-18.295	1.00 95.62	Al6S	ATOM	49956	O2' URI	1462	182.524	70.343	-25.192	1.00 97.70	
ATOM	49904	C1' ADE	1460	181.111	59.516	-19.637	1.00 95.62	Al6S	ATOM	49957	C3' URI	1462	184.238	69.808	-23.567	1.00 97.70	
ATOM	49905	N9 ADE	1460	180.170	60.340	-20.388	1.00112.90	Al6S	ATOM	49958	O3' URI	1462	185.034	70.721	-24.300	1.00 97.70	
ATOM	49906	C4 ADE	1460	180.031	60.340	-21.752	1.00112.90	Al6S	ATOM	49959	P GUA	1463	185.416	72.130	-23.637	1.00 86.37	
ATOM	49907	N3 ADE	1460	180.719	59.603	-22.641	1.00112.90	Al6S	ATOM	49960	O1P GUA	1463	186.483	72.754	-24.464	1.00 64.09	
ATOM	49908	C2 ADE	1460	180.308	59.857	-23.877	1.00112.90	Al6S	ATOM	49961	O2P GUA	1463	185.651	71.877	-22.190	1.00 64.09	
ATOM	49909	N1 ADE	1460	179.360	60.701	-24.296	1.00112.90	Al6S	ATOM	49962	O5' GUA	1463	184.099	73.016	-23.792	1.00 86.37	
ATOM	49910	C6 ADE	1460	178.690	61.429	-23.376	1.00112.90	Al6S	ATOM	49963	C5' GUA	1463	183.707	73.495	-25.071	1.00 86.37	
ATOM	49911	N6 ADE	1460	177.746	62.271	-23.792	1.00112.90	Al6S	ATOM	49964	C4' GUA	1463	182.601	74.514	-24.947	1.00 86.37	
ATOM	49912	C5 ADE	1460	179.032	61.251	-22.028	1.00112.90	Al6S	ATOM	49965	O4' GUA	1463	181.427	73.898	-24.362	1.00 86.37	
ATOM	49913	N7 ADE	1460	178.553	61.823	-20.858	1.00112.90	Al6S	ATOM	49966	C1' GUA	1463	180.682	74.876	-23.656	1.00 86.37	
ATOM	49914	C8 ADE	1460	179.260	61.250	-19.915	1.00112.90	Al6S	ATOM	49967	N9 GUA	1463	180.587	74.455	-22.264	1.00 64.09	
ATOM	49915	C2' ADE	1460	182.529	60.088	-19.629	1.00 95.62	Al6S	ATOM	49968	C4 GUA	1463	179.680	75.784	-21.331	1.00 64.09	
ATOM	49916	O2' ADE	1460	183.476	59.050	-19.775	1.00 95.62	Al6S	ATOM	49969	N3 GUA	1463	178.689	75.012	-20.452	1.00 64.09	
ATOM	49917	C3' ADE	1460	182.575	60.768	-18.268	1.00 95.62	Al6S	ATOM	49970	C2 GUA	1463	177.987	76.012	-20.452	1.00 64.09	
ATOM	49918	O3' ADE	1460	183.899	60.837	-17.770	1.00 95.62	Al6S	ATOM	49971	N2 GUA	1463	176.945	76.850	-20.493	1.00 64.09	
ATOM	49919	P CYT	1461	184.561	62.269	-17.488	1.00 79.15	Al6S	ATOM	49972	N1 GUA	1463	178.249	75.433	-19.236	1.00 64.09	
ATOM	49920	O1P CYT	1461	185.983	62.053	-17.121	1.00100.21	Al6S	ATOM	49973	C6 GUA	1463	179.266	74.524	-18.989	1.00 64.09	
ATOM	49921	O2P CYT	1461	183.663	62.999	-16.554	1.00100.21	Al6S	ATOM	49974	O6 GUA	1463	179.421	74.069	-17.850	1.00 64.09	
ATOM	49922	O5' CYT	1461	184.534	62.986	-18.910	1.00 79.15	Al6S	ATOM	49975	C5 GUA	1463	180.015	74.253	-20.161	1.00 64.09	
ATOM	49923	C5' CYT	1461	185.276	62.452	-19.997	1.00 79.15	Al6S	ATOM	49976	N7 GUA	1463	181.090	73.403	-20.360	1.00 64.09	
ATOM	49924	C4' CYT	1461	184.746	62.981	-21.301	1.00 79.15	Al6S	ATOM	49977	C8 GUA	1463	181.394	73.556	-21.621	1.00 64.09	
ATOM	49925	O4' CYT	1461	183.341	62.631	-21.425	1.00 79.15	Al6S	ATOM	49978	C2' GUA	1463	181.441	76.193	-23.799	1.00 86.37	
ATOM	49926	C1' CYT	1461	182.662	63.648	-22.147	1.00 79.15	Al6S	ATOM	49979	O2' GUA	1463	180.961	76.695	-24.923	1.00 86.37	
ATOM	49927	N1 CYT	1461	181.663	64.264	-21.261	1.00100.21	Al6S	ATOM	49980	C3' GUA	1463	182.854	75.691	-24.031	1.00 86.37	
ATOM	49928	C6 CYT	1461	181.696	64.058	-19.910	1.00100.21	Al6S	ATOM	49981	O3' GUA	1463	183.647	76.686	-24.652	1.00 86.37	
ATOM	49929	C2 CYT	1461	180.690	65.089	-21.824	1.00100.21	Al6S	ATOM	49982	P GUA	1464	184.808	77.394	-23.803	1.00 72.03	
ATOM	49930	O2 CYT	1461	180.660	65.224	-23.053	1.00100.21	Al6S	ATOM	49983	O1P GUA	1464	185.803	77.953	-24.749	1.00 54.05	
ATOM	49931	N3 CYT	1461	179.807	65.715	-21.017	1.00100.21	Al6S	ATOM	49984	O2P GUA	1464	185.233	76.420	-22.765	1.00 54.05	
ATOM	49932	C4 CYT	1461	179.864	65.532	-19.698	1.00100.21	Al6S	ATOM	49985	O5' GUA	1464	184.089	78.597	-23.049	1.00 72.03	
ATOM	49933	N4 CYT	1461	178.991	66.194	-18.940	1.00100.21	Al6S	ATOM	49986	C5' GUA	1464	183.548	79.681	-23.780	1.00 72.03	
ATOM	49934	C5 CYT	1461	180.823	64.668	-19.098	1.00100.21	Al6S	ATOM	49987	C4' GUA	1464	182.231	80.117	-23.183	1.00 72.03	
ATOM	49935	C2' CYT	1461	183.723	64.667	-22.559	1.00 79.15	Al6S	ATOM	49988	O4' GUA	1464	181.462	78.942	-22.812	1.00 72.03	
ATOM	49936	O2' CYT	1461	184.263	64.319	-23.815	1.00 79.15	Al6S	ATOM	49989	C1' GUA	1464	180.584	79.271	-21.751	1.00 72.03	
ATOM	49937	C3' CYT	1461	184.732	64.487	-21.442	1.00 79.15	Al6S	ATOM	49990	N9 GUA	1464	180.936	78.464	-20.592	1.00 54.05	
ATOM	49938	O3' CYT	1461	186.003	64.983	-21.809	1.00 79.15	Al6S	ATOM	49991	C4 GUA	1464	180.193	78.318	-19.441	1.00 54.05	
ATOM	49939	P URI	1462	186.443	66.456	-21.336	1.00 97.70	Al6S	ATOM	49992	N3 GUA	1464	178.987	78.876	-19.196	1.00 54.05	
ATOM	49940	O1P URI	1462	187.828	66.669	-21.844	1.00 65.70	Al6S	ATOM	49993	C2 GUA	1464	178.524	78.557	-17.996	1.00 54.05	
ATOM	49941	O2P URI	1462	186.165	66.593	-19.879	1.00 65.70	Al6S	ATOM	49994	N2 GUA	1464	177.325	79.015	-17.596	1.00 54.05	
ATOM	49942	O5' URI	1462	185.453	67.430	-22.125	1.00 97.70	Al6S	ATOM	49995	N1 GUA	1464	179.196	77.765	-17.102	1.00 54.05	
ATOM	49943	C5' URI	1462	185.526	67.558	-23.546	1.00 97.70	Al6S	ATOM	49996	C6 GUA	1464	180.438	77.182	-17.328	1.00 54.05	
ATOM	49944	C4' URI	1462	184.366	68.381	-24.074	1.00 97.70	Al6S	ATOM	49997	O6 GUA	1464	180.960	76.481	-16.445	1.00 54.05	

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ATOM	49998	C5	GUA	1466	180.943	77.509	-18.623	1.00	54.05	Al6s	ATOM	50051	P	CYT	1467	179.827	89.480	-11.835	1.00	43.92	A
ATOM	49999	N7	GUA	1464	182.127	77.140	-19.251	1.00	54.05	Al6s	ATOM	50052	OLP	CYT	1467	179.161	90.748	-11.445	1.00	59.55	A
ATOM	50000	C8	GUA	1464	182.074	77.726	-20.415	1.00	54.05	Al6s	ATOM	50053	OLP	CYT	1467	181.033	89.521	-12.693	1.00	59.55	A
ATOM	50001	C2'	GUA	1464	180.808	80.751	-21.456	1.00	72.03	Al6s	ATOM	50054	O5'	CYT	1467	180.161	88.633	-10.523	1.00	43.92	A
ATOM	50002	O2'	GUA	1464	179.938	81.515	-22.271	1.00	72.03	Al6s	ATOM	50055	C5'	CYT	1467	179.274	88.629	-9.407	1.00	43.92	A
ATOM	50003	C3'	GUA	1464	182.252	80.910	-21.890	1.00	72.03	Al6s	ATOM	50056	C4'	CYT	1467	179.872	87.870	-8.246	1.00	43.92	A
ATOM	50004	O3'	GUA	1464	182.526	82.280	-22.140	1.00	72.03	Al6s	ATOM	50057	O4'	CYT	1467	180.063	86.480	-7.817	1.00	43.92	A
ATOM	50005	P	GUA	1465	182.815	83.273	-20.911	1.00	50.85	Al6s	ATOM	50058	C1'	CYT	1467	181.145	85.933	-8.617	1.00	43.92	A
ATOM	50006	OLP	GUA	1465	182.820	84.659	-21.469	1.00	65.05	Al6s	ATOM	50059	N1	CYT	1467	182.133	85.420	-8.828	1.00	59.55	A
ATOM	50007	O2P	GUA	1465	183.994	82.782	-20.150	1.00	65.05	Al6s	ATOM	50060	C6	CYT	1467	182.239	85.943	-10.082	1.00	59.55	A
ATOM	50008	O5'	GUA	1465	181.541	83.105	-19.965	1.00	50.85	Al6s	ATOM	50061	C2	CYT	1467	182.978	84.406	-8.419	1.00	59.55	A
ATOM	50009	C5'	GUA	1465	180.298	83.723	-20.290	1.00	50.85	Al6s	ATOM	50062	O2	CYT	1467	182.831	83.936	-7.288	1.00	59.55	A
ATOM	50010	C4'	GUA	1465	179.373	83.710	-19.093	1.00	50.85	Al6s	ATOM	50063	N3	CYT	1467	183.932	83.956	-9.259	1.00	59.55	A
ATOM	50011	O4'	GUA	1465	179.108	82.345	-18.674	1.00	50.85	Al6s	ATOM	50064	C4	CYT	1467	184.044	84.483	-10.476	1.00	59.55	A
ATOM	50012	C1'	GUA	1465	178.851	82.324	-17.279	1.00	50.85	Al6s	ATOM	50065	N4	CYT	1467	185.008	84.023	-11.273	1.00	59.55	A
ATOM	50013	N9	GUA	1465	179.810	81.424	-16.652	1.00	65.05	Al6s	ATOM	50066	C5	CYT	1467	183.174	85.510	-10.931	1.00	43.92	A
ATOM	50014	C4	GUA	1465	179.787	80.963	-15.357	1.00	65.05	Al6s	ATOM	50067	C2'	CYT	1467	181.729	87.061	-7.031	1.00	43.92	A
ATOM	50015	N3	GUA	1465	178.840	81.230	-14.433	1.00	65.05	Al6s	ATOM	50068	O2'	CYT	1467	181.247	86.986	-5.709	1.00	43.92	A
ATOM	50016	C2	GUA	1465	179.118	80.669	-13.265	1.00	65.05	Al6s	ATOM	50069	C3'	CYT	1467	181.254	88.288	-7.797	1.00	43.92	A
ATOM	50017	N2	GUA	1465	178.292	80.831	-12.230	1.00	65.05	Al6s	ATOM	50070	O3'	CYT	1467	181.236	89.439	-6.981	1.00	43.92	A
ATOM	50018	N1	GUA	1465	180.234	79.910	-13.026	1.00	65.05	Al6s	ATOM	50071	P	GUA	1468	182.606	90.226	-6.723	1.00	42.28	A
ATOM	50019	C6	GUA	1465	181.221	79.623	-13.961	1.00	65.05	Al6s	ATOM	50072	OLP	GUA	1468	182.318	91.382	-5.836	1.00	60.24	A
ATOM	50020	O6	GUA	1465	182.199	78.941	-15.635	1.00	65.05	Al6s	ATOM	50073	O2P	GUA	1468	183.259	90.453	-8.034	1.00	60.24	A
ATOM	50021	C5	GUA	1465	180.931	80.210	-15.219	1.00	65.05	Al6s	ATOM	50074	O5'	GUA	1468	183.476	89.115	-5.916	1.00	42.28	A
ATOM	50022	N7	GUA	1465	181.638	80.167	-16.410	1.00	65.05	Al6s	ATOM	50075	C5'	GUA	1468	183.387	89.115	-4.512	1.00	42.28	A
ATOM	50023	C8	GUA	1465	180.933	80.896	-17.230	1.00	65.05	Al6s	ATOM	50076	C4'	GUA	1468	184.527	88.311	-3.946	1.00	42.28	A
ATOM	50024	O2'	GUA	1465	179.001	83.762	-16.772	1.00	50.85	Al6s	ATOM	50077	O4'	GUA	1468	184.432	86.958	-4.483	1.00	42.28	A
ATOM	50025	O2'	GUA	1465	177.742	84.396	-16.758	1.00	50.85	Al6s	ATOM	50078	C1'	GUA	1468	185.729	86.404	-4.619	1.00	42.28	A
ATOM	50026	C3'	GUA	1465	179.902	84.366	-17.833	1.00	50.85	Al6s	ATOM	50079	N9	GUA	1468	185.967	85.134	-6.035	1.00	60.24	A
ATOM	50027	O3'	GUA	1465	179.730	85.770	-17.900	1.00	50.85	Al6s	ATOM	50080	C4	GUA	1468	186.910	85.281	-6.566	1.00	60.24	A
ATOM	50028	P	GUA	1466	180.602	86.725	-16.950	1.00	47.95	Al6s	ATOM	50081	N3	GUA	1468	187.771	84.508	-5.870	1.00	60.24	A
ATOM	50029	OLP	GUA	1466	180.400	88.120	-17.397	1.00	53.50	Al6s	ATOM	50082	C2	GUA	1468	188.577	83.823	-6.666	1.00	60.24	A
ATOM	50030	O2P	GUA	1466	181.975	86.182	-16.859	1.00	53.50	Al6s	ATOM	50083	N2	GUA	1468	189.491	83.006	-6.149	1.00	60.24	A
ATOM	50031	O5'	GUA	1466	179.919	86.561	-15.525	1.00	47.95	Al6s	ATOM	50084	N1	GUA	1468	188.546	83.891	-8.027	1.00	60.24	A
ATOM	50032	C5'	GUA	1466	178.585	87.004	-15.313	1.00	47.95	Al6s	ATOM	50085	C6	GUA	1468	187.675	84.674	-8.766	1.00	60.24	A
ATOM	50033	C4'	GUA	1466	178.147	86.676	-13.911	1.00	47.95	Al6s	ATOM	50086	O6	GUA	1468	187.743	84.664	-9.989	1.00	60.24	A
ATOM	50034	O4'	GUA	1466	178.187	85.238	-13.699	1.00	47.95	Al6s	ATOM	50087	C5	GUA	1468	186.794	85.413	-7.932	1.00	60.24	A
ATOM	50035	C1'	GUA	1466	178.605	84.966	-12.372	1.00	47.95	Al6s	ATOM	50088	N7	GUA	1468	185.783	86.303	-8.256	1.00	60.24	A
ATOM	50036	N9	GUA	1466	179.849	84.208	-12.442	1.00	53.50	Al6s	ATOM	50089	C8	GUA	1468	185.317	86.639	-7.103	1.00	60.24	A
ATOM	50037	C4	GUA	1466	180.357	83.371	-11.479	1.00	53.50	Al6s	ATOM	50090	O2'	GUA	1468	186.690	87.435	-4.016	1.00	42.28	A
ATOM	50038	N3	GUA	1466	179.807	83.121	-10.272	1.00	53.50	Al6s	ATOM	50091	O2'	GUA	1468	186.767	87.158	-2.631	1.00	42.28	A
ATOM	50039	C2	GUA	1466	180.524	82.250	-9.575	1.00	53.50	Al6s	ATOM	50092	C3'	GUA	1468	185.947	88.742	-4.300	1.00	42.28	A
ATOM	50040	N2	GUA	1466	180.138	81.886	-8.341	1.00	53.50	Al6s	ATOM	50093	O3'	GUA	1468	186.431	89.889	-3.563	1.00	42.28	A
ATOM	50041	N1	GUA	1466	181.673	81.668	-10.035	1.00	53.50	Al6s	ATOM	50094	P	ADE	1469	187.332	90.984	-4.312	0.00198.45	AI	
ATOM	50042	C6	GUA	1466	182.244	81.904	-11.276	1.00	53.50	Al6s	ATOM	50095	OLP	ADE	1469	186.899	92.321	-3.831	0.00174.90	AI	
ATOM	50043	O6	GUA	1466	183.267	81.300	-11.600	1.00	53.50	Al6s	ATOM	50096	O2P	ADE	1469	187.312	90.685	-5.767	0.00198.45	AI	
ATOM	50044	C5	GUA	1466	181.505	82.846	-12.021	1.00	53.50	Al6s	ATOM	50097	O5'	ADE	1469	189.256	91.341	-2.574	0.00198.45	AI	
ATOM	50045	N7	GUA	1466	181.733	83.365	-13.285	1.00	53.50	Al6s	ATOM	50098	C5'	ADE	1469	190.170	89.339	-1.543	0.00198.45	AI	
ATOM	50046	C8	GUA	1466	180.728	84.169	-13.491	1.00	53.50	Al6s	ATOM	50099	C4'	ADE	1469	190.498	90.658	-2.055	0.00198.45	AI	
ATOM	50047	C2'	GUA	1466	178.755	86.312	-11.665	1.00	47.95	Al6s	ATOM	50100	O4'	ADE	1469	190.170	89.339	-1.543	0.00198.45	AI	
ATOM	50048	O2'	GUA	1466	177.529	86.649	-11.054	1.00	47.95	Al6s	ATOM	50101	C1'	ADE	1469	191.311	88.500	-1.652	0.00198.45	AI	
ATOM	50049	C3'	GUA	1466	179.063	87.223	-12.839	1.00	47.95	Al6s	ATOM	50102	N9	ADE	1469	190.944	87.286	-2.379	0.00174.90	AI	
ATOM	50050	O3'	GUA	1466	178.746	88.570	-12.564	1.00	47.95	Al6s	ATOM	50103	C4	ADE	1469	191.602	86.082	-2.296	0.00174.90	AI	

ATOM	50104	N3	ADE	1469	192.677	85.793	-1.542	0.00174.90	Al6S	ATOM	50157	C2' GUA	1471	199.789	86.412	-9.946	1.00	69.87		
ATOM	50105	C2	ADE	1469	193.050	84.528	-1.723	0.00174.90	Al6S	ATOM	50158	O2' GUA	1471	200.887	85.546	-9.803	1.00	69.87		
ATOM	50106	N1	ADE	1469	192.512	83.591	-2.511	0.00174.90	Al6S	ATOM	50159	C3' GUA	1471	200.020	87.739	-9.247	1.00	69.87		
ATOM	50107	C6	ADE	1469	191.432	83.913	-3.255	0.00174.90	Al6S	ATOM	50160	O3' GUA	1471	201.363	88.148	-9.391	1.00	69.87		
ATOM	50108	N6	ADE	1469	190.897	82.977	-4.040	0.00174.90	Al6S	ATOM	50161	P	1472	201.729	89.228	-10.511	1.00	49.36		
ATOM	50109	C5	ADE	1469	190.937	85.227	-3.155	0.00174.90	Al6S	ATOM	50162	O1P URI	1472	203.143	89.635	-10.313	1.00	49.99		
ATOM	50110	N7	ADE	1469	189.872	85.876	-3.765	0.00174.90	Al6S	ATOM	50163	O2P URI	1472	200.659	90.263	-10.499	1.00	49.99		
ATOM	50111	C8	ADE	1469	189.918	87.090	-3.271	0.00174.90	Al6S	ATOM	50164	O5' URI	1472	201.622	88.411	-11.877	1.00	49.36		
ATOM	50112	C2' ADE	1469	192.404	89.303	-2.360	0.00198.45	Al6S	ATOM	50165	C5' URI	1472	202.425	87.254	-12.115	1.00	49.36			
ATOM	50113	O2' ADE	1469	193.288	89.848	-1.402	0.00198.45	Al6S	ATOM	50166	C4' URI	1472	202.217	86.744	-13.526	1.00	49.36			
ATOM	50114	C3' ADE	1469	191.583	90.369	-3.076	0.00198.45	Al6S	ATOM	50167	O4' URI	1472	200.911	86.123	-13.636	1.00	49.36			
ATOM	50115	O3' ADE	1469	192.361	91.522	-3.366	0.00198.45	Al6S	ATOM	50168	C1' URI	1472	200.400	86.337	-14.950	1.00	49.36			
ATOM	50116	P	ADE	1470	193.386	91.490	-4.602	0.00200.66	Al6S	ATOM	50169	N1 URI	1472	199.118	87.030	-14.854	1.00	49.99		
ATOM	50117	O1P ADE	1470	194.052	92.816	-4.663	0.00200.66	Al6S	ATOM	50170	C6 URI	1472	198.791	87.740	-13.725	1.00	49.99			
ATOM	50118	O2P ADE	1470	192.671	90.973	-5.796	0.00200.66	Al6S	ATOM	50171	C2 URI	1472	198.251	86.985	-15.943	1.00	49.99			
ATOM	50119	O5' ADE	1470	194.469	90.410	-4.157	0.00200.66	Al6S	ATOM	50172	O2 URI	1472	198.471	86.337	-16.952	1.00	49.99			
ATOM	50120	C5' ADE	1470	195.437	90.725	-3.163	0.00200.66	Al6S	ATOM	50173	N3 URI	1472	197.107	87.731	-15.800	1.00	49.99			
ATOM	50121	C4' ADE	1470	196.544	89.699	-3.165	0.00200.66	Al6S	ATOM	50174	C4 URI	1472	196.745	88.490	-14.709	1.00	49.99			
ATOM	50122	O4' ADE	1470	196.132	88.489	-2.469	0.00200.66	Al6S	ATOM	50175	O4 URI	1472	195.797	89.251	-14.809	1.00	49.99			
ATOM	50123	C1' ADE	1470	196.747	87.359	-3.080	0.00200.66	Al6S	ATOM	50176	C5 URI	1472	197.663	88.445	-13.617	1.00	49.99			
ATOM	50124	N9	ADE	1470	195.708	86.572	-3.739	0.00200.66	Al6S	ATOM	50177	C2' URI	1472	201.452	87.101	-15.739	1.00	49.36		
ATOM	50125	C4	ADE	1470	195.906	85.393	-4.416	0.00200.66	Al6S	ATOM	50178	O2' URI	1472	202.264	86.220	-16.480	1.00	49.36		
ATOM	50126	N3	ADE	1470	197.063	84.728	-4.573	0.00200.66	Al6S	ATOM	50179	C3' URI	1472	202.223	87.794	-14.626	1.00	49.36		
ATOM	50127	C2	ADE	1470	196.878	83.633	-5.307	0.00200.66	Al6S	ATOM	50180	O3' URI	1472	203.538	88.113	-15.054	1.00	49.36		
ATOM	50128	N1	ADE	1470	195.754	83.166	-5.862	0.00200.66	Al6S	ATOM	50181	P	1473	203.811	89.503	-15.817	1.00	50.11		
ATOM	50129	C6	ADE	1470	194.610	83.862	-5.686	0.00200.66	Al6S	ATOM	50182	O1P CYT	1473	205.286	89.642	-15.979	1.00	59.38		
ATOM	50130	N6	ADE	1470	193.491	83.404	-6.247	0.00200.66	Al6S	ATOM	50183	O2P CYT	1473	203.052	90.587	-15.138	1.00	59.38		
ATOM	50131	C5	ADE	1470	194.670	85.038	-4.921	0.00200.66	Al6S	ATOM	50184	O5' CYT	1473	203.175	89.290	-17.263	1.00	50.11		
ATOM	50132	N7	ADE	1470	193.705	85.965	-4.555	0.00200.66	Al6S	ATOM	50185	C5' CYT	1473	203.856	88.537	-18.247	1.00	50.11		
ATOM	50133	C8	ADE	1470	194.370	86.849	-3.851	0.00200.66	Al6S	ATOM	50186	C4' CYT	1473	203.142	88.631	-19.564	1.00	50.11		
ATOM	50134	C2' ADE	1470	197.690	87.912	-4.147	0.00200.66	Al6S	ATOM	50187	O4' CYT	1473	201.826	88.044	-19.429	1.00	50.11			
ATOM	50135	O2' ADE	1470	196.966	88.170	-3.598	0.00200.66	Al6S	ATOM	50188	C1' CYT	1473	200.895	88.773	-20.209	1.00	50.11			
ATOM	50136	C3' ADE	1470	196.942	89.176	-4.529	0.00200.66	Al6S	ATOM	50189	N1 CYT	1473	199.918	89.410	-19.305	1.00	59.38			
ATOM	50137	O3' ADE	1470	197.704	90.089	-5.292	0.00200.66	Al6S	ATOM	50190	C6 CYT	1473	200.107	89.018	-17.952	1.00	59.38			
ATOM	50138	P	GUA	1471	197.353	90.279	-6.846	1.00	69.87	Al6S	50191	C2 CYT	1473	198.795	90.022	-19.861	1.00	59.38		
ATOM	50139	O1P GUA	1471	197.392	91.731	-7.136	1.00	66.08	Al6S	ATOM	50192	O2 CYT	1473	198.639	89.981	-21.084	1.00	59.38		
ATOM	50140	O2P GUA	1471	196.127	89.515	-7.140	1.00	66.08	Al6S	ATOM	50193	N3 CYT	1473	197.909	90.641	-19.056	1.00	59.38		
ATOM	50141	O5' GUA	1471	198.544	89.533	-7.602	1.00	69.87	Al6S	ATOM	50194	C4 CYT	1473	198.104	90.654	-17.739	1.00	59.38		
ATOM	50142	C5' GUA	1471	199.373	88.590	-6.917	1.00	69.87	Al6S	ATOM	50195	N4 CYT	1473	197.199	91.281	-16.983	1.00	59.38		
ATOM	50143	C4' GUA	1471	199.689	87.407	-7.809	1.00	69.87	Al6S	ATOM	50196	C5 CYT	1473	199.235	90.024	-17.139	1.00	59.38		
ATOM	50144	O4' GUA	1471	198.550	86.517	-7.920	1.00	69.87	Al6S	ATOM	50197	C2' CYT	1473	201.700	89.802	-21.001	1.00	50.11		
ATOM	50145	C1' GUA	1471	198.580	85.865	-9.183	1.00	69.87	Al6S	ATOM	50198	O2' CYT	1473	202.086	89.238	-22.237	1.00	50.11		
ATOM	50146	N9	GUA	1471	197.331	86.142	-9.885	1.00	66.08	Al6S	ATOM	50199	C3' CYT	1473	202.871	90.035	-20.061	1.00	50.11	
ATOM	50147	C4	GUA	1471	197.022	85.798	-11.182	1.00	66.08	Al6S	ATOM	50200	O3' CYT	1473	204.001	90.581	-20.727	1.00	50.11	
ATOM	50148	N3	GUA	1471	197.803	85.099	-12.028	1.00	66.08	Al6S	ATOM	50201	P	1474	204.630	91.963	-20.208	1.00	48.25	
ATOM	50149	C2	GUA	1471	197.241	84.960	-13.217	1.00	66.08	Al6S	ATOM	50202	O1P GUA	1474	206.062	91.994	-20.590	1.00	81.85	
ATOM	50150	N2	GUA	1471	197.868	84.283	-14.188	1.00	66.08	Al6S	ATOM	50203	O2P GUA	1474	204.250	92.089	-18.778	1.00	81.85	
ATOM	50151	N1	GUA	1471	196.024	85.475	-13.547	1.00	66.08	Al6S	ATOM	50204	O5' GUA	1474	203.855	93.080	-21.035	1.00	48.25	
ATOM	50152	C6	GUA	1471	195.210	86.205	-12.697	1.00	66.08	Al6S	ATOM	50205	C5' GUA	1474	203.994	93.151	-22.440	1.00	48.25	
ATOM	50153	O6	GUA	1471	194.140	86.647	-13.108	1.00	66.08	Al6S	ATOM	50206	C4' GUA	1474	202.640	93.130	-23.110	1.00	48.25	
ATOM	50154	C5	GUA	1471	195.784	86.342	-11.417	1.00	66.08	Al6S	ATOM	50207	O4' GUA	1474	201.712	92.318	-22.342	1.00	48.25	
ATOM	50155	N7	GUA	1471	195.301	86.972	-10.282	1.00	66.08	Al6S	ATOM	50208	C1' GUA	1474	200.388	92.763	-22.587	1.00	48.25	
ATOM	50156	C8	GUA	1471	196.249	86.824	-9.399	1.00	66.08	Al6S	ATOM	50209	N9	GUA	1474	199.778	93.123	-21.313	1.00	81.85

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ATOM	50210	C4	GUA	1474	198.469	93.493	-22.095	1.00	81.85	Al6S	ATOM	50263	O2' ADE	1476	191.131	99.349	-27.749	1.00	33.02	A
ATOM	50211	N3	GUA	1474	197.496	93.570	-22.027	1.00	81.85	Al6S	ATOM	50264	O3' ADE	1476	193.453	99.968	-27.314	1.00	33.02	A
ATOM	50212	C2	GUA	1474	196.338	93.947	-21.504	1.00	81.85	Al6S	ATOM	50265	O3' ADE	1476	193.248	101.005	-28.273	1.00	33.02	A
ATOM	50213	N2	GUA	1474	195.252	94.042	-22.282	1.00	81.85	Al6S	ATOM	50266	P ADE	1476	193.374	102.544	-27.819	1.00	40.72	A
ATOM	50214	N1	GUA	1474	196.157	94.248	-20.180	1.00	81.85	Al6S	ATOM	50267	OlP ADE	1477	193.362	103.440	-29.042	1.00	44.70	A
ATOM	50215	C6	GUA	1474	197.147	94.185	-19.206	1.00	81.85	Al6S	ATOM	50268	O2P ADE	1477	194.509	102.658	-26.818	1.00	44.70	A
ATOM	50216	C6	GUA	1474	196.883	94.488	-18.038	1.00	81.85	Al6S	ATOM	50269	O5' ADE	1477	192.027	102.745	-27.003	1.00	40.72	A
ATOM	50217	C5	GUA	1474	198.386	93.760	-19.747	1.00	81.85	Al6S	ATOM	50270	C5' ADE	1477	190.786	102.282	-27.517	1.00	40.72	A
ATOM	50218	N7	GUA	1474	199.609	93.551	-19.127	1.00	81.85	Al6S	ATOM	50271	C4' ADE	1477	189.689	102.498	-26.506	1.00	40.72	A
ATOM	50219	C8	GUA	1474	200.401	93.173	-20.093	1.00	81.85	Al6S	ATOM	50272	O4' ADE	1477	189.876	101.597	-25.382	1.00	40.72	A
ATOM	50220	C2'	GUA	1474	200.495	93.949	-23.546	1.00	48.25	Al6S	ATOM	50273	C1' ADE	1477	189.510	102.256	-24.181	1.00	40.72	A
ATOM	50221	O2'	GUA	1474	200.395	93.453	-24.867	1.00	48.25	Al6S	ATOM	50274	N9 ADE	1477	190.701	102.386	-23.347	1.00	44.70	A
ATOM	50222	C3'	GUA	1474	201.903	94.447	-23.259	1.00	48.25	Al6S	ATOM	50275	C4 ADE	1477	190.712	102.727	-22.019	1.00	44.70	A
ATOM	50223	O3'	GUA	1474	202.406	95.136	-24.396	1.00	48.25	Al6S	ATOM	50276	N3 ADE	1477	189.655	103.016	-21.243	1.00	44.70	A
ATOM	50224	P	URI	1475	202.431	96.738	-24.414	1.00	56.96	Al6S	ATOM	50277	C2 ADE	1477	190.045	103.262	-20.001	1.00	44.70	A
ATOM	50225	OlP	URI	1475	202.904	97.236	-25.726	1.00	46.89	Al6S	ATOM	50278	N1 ADE	1477	191.270	103.251	-19.488	1.00	44.70	A
ATOM	50226	O2P	URI	1475	203.128	97.163	-23.188	1.00	46.89	Al6S	ATOM	50279	C6 ADE	1477	192.306	102.956	-20.293	1.00	44.70	A
ATOM	50227	O5'	URI	1475	200.898	97.126	-24.277	1.00	56.96	Al6S	ATOM	50280	N6 ADE	1477	193.523	102.925	-19.769	1.00	44.70	A
ATOM	50228	C5'	URI	1475	199.930	96.671	-25.214	1.00	56.96	Al6S	ATOM	50281	C5 ADE	1477	192.033	102.687	-22.702	1.00	44.70	A
ATOM	50229	C4'	URI	1475	198.629	97.374	-24.951	1.00	56.96	Al6S	ATOM	50282	N7 ADE	1477	192.845	102.354	-22.702	1.00	44.70	A
ATOM	50230	O4'	URI	1475	198.139	96.933	-23.677	1.00	56.96	Al6S	ATOM	50283	C8 ADE	1477	192.008	102.190	-23.693	1.00	44.70	A
ATOM	50231	C1'	URI	1475	197.720	98.035	-22.916	1.00	56.96	Al6S	ATOM	50284	C2' ADE	1477	188.932	103.612	-24.576	1.00	40.72	A
ATOM	50232	N1	URI	1475	198.199	97.821	-21.543	1.00	46.89	Al6S	ATOM	50285	O2' ADE	1477	187.559	103.450	-24.815	1.00	40.72	A
ATOM	50233	C6	URI	1475	199.442	97.298	-21.292	1.00	46.89	Al6S	ATOM	50286	C3' ADE	1477	189.034	104.836	-26.679	1.00	40.72	A
ATOM	50234	C2	URI	1475	197.322	98.094	-20.506	1.00	46.89	Al6S	ATOM	50287	O3' ADE	1477	189.679	103.873	-25.868	1.00	40.72	A
ATOM	50235	O2	URI	1475	196.242	98.609	-20.682	1.00	46.89	Al6S	ATOM	50288	P	1478	189.644	106.314	-26.761	1.00	35.84	A
ATOM	50236	N3	URI	1475	197.758	97.733	-19.256	1.00	46.89	Al6S	ATOM	50289	OlP	1478	188.914	107.049	-27.835	1.00	59.83	A
ATOM	50237	C4	URI	1475	198.965	97.154	-18.940	1.00	46.89	Al6S	ATOM	50290	O2P	1478	191.135	106.226	-26.799	1.00	59.83	A
ATOM	50238	O4	URI	1475	199.176	96.793	-17.778	1.00	46.89	Al6S	ATOM	50291	O5' CYT	1478	189.265	106.931	-25.347	1.00	35.84	A
ATOM	50239	C5	URI	1475	199.845	96.957	-20.062	1.00	46.89	Al6S	ATOM	50292	C5' CYT	1478	187.910	107.087	-24.975	1.00	35.84	A
ATOM	50240	C2'	URI	1475	197.941	99.342	-23.696	1.00	56.96	Al6S	ATOM	50293	C4' CYT	1478	187.822	107.546	-23.556	1.00	35.84	A
ATOM	50241	O2'	URI	1475	196.689	99.863	-24.070	1.00	56.96	Al6S	ATOM	50294	O4' CYT	1478	188.515	106.579	-22.735	1.00	35.84	A
ATOM	50242	C3'	URI	1475	198.797	98.882	-24.880	1.00	56.96	Al6S	ATOM	50295	C1' CYT	1478	188.965	107.214	-21.561	1.00	35.84	A
ATOM	50243	O3'	URI	1475	198.653	99.429	-26.222	1.00	56.96	Al6S	ATOM	50296	N1	1478	190.361	106.841	-21.334	1.00	59.83	A
ATOM	50244	P	ADE	1476	197.246	100.031	-26.776	1.00	33.02	Al6S	ATOM	50297	C6	1478	191.108	106.271	-22.323	1.00	59.83	A
ATOM	50245	OlP	ADE	1476	197.511	100.328	-28.196	1.00	53.27	Al6S	ATOM	50298	C2	1478	190.911	107.070	-20.080	1.00	59.83	A
ATOM	50246	O2P	ADE	1476	196.697	101.146	-25.912	1.00	33.02	Al6S	ATOM	50299	O2	1478	190.207	107.586	-19.209	1.00	59.83	A
ATOM	50247	O5'	ADE	1476	196.223	98.812	-26.863	1.00	33.02	Al6S	ATOM	50300	N3	1478	192.196	106.726	-19.848	1.00	59.83	A
ATOM	50248	C5'	ADE	1476	195.529	98.567	-28.100	1.00	33.02	Al6S	ATOM	50301	C4	1478	192.923	106.182	-20.821	1.00	59.83	A
ATOM	50249	C4'	ADE	1476	194.019	98.695	-27.941	1.00	33.02	Al6S	ATOM	50302	C4	1478	192.382	105.924	-22.110	1.00	59.83	A
ATOM	50250	O4'	ADE	1476	193.516	97.605	-27.116	1.00	33.02	Al6S	ATOM	50303	C5	1478	188.697	108.711	-21.724	1.00	35.84	A
ATOM	50251	C1'	ADE	1476	192.483	98.082	-26.273	1.00	33.02	Al6S	ATOM	50304	C2'	1478	187.474	108.989	-21.084	1.00	35.84	A
ATOM	50252	N9	ADE	1476	192.983	98.077	-24.903	1.00	53.27	Al6S	ATOM	50305	O2' CYT	1478	188.547	108.833	-23.231	1.00	35.84	A
ATOM	50253	C4	ADE	1476	191.921	98.497	-23.781	1.00	53.27	Al6S	ATOM	50306	C3' CYT	1478	187.753	109.955	-23.594	1.00	35.84	A
ATOM	50254	N3	ADE	1476	192.073	99.017	-23.709	1.00	53.27	Al6S	ATOM	50307	O3' CYT	1478	188.254	110.931	-24.767	1.00	49.18	A
ATOM	50255	C2	ADE	1476	190.767	99.319	-22.456	1.00	53.27	Al6S	ATOM	50308	P	1479	187.135	111.787	-25.217	1.00	71.42	A
ATOM	50256	N1	ADE	1476	191.496	99.160	-21.351	1.00	53.27	Al6S	ATOM	50309	OlP	1479	189.964	110.085	-25.751	1.00	71.42	A
ATOM	50257	C6	ADE	1476	193.448	98.617	-21.461	1.00	53.27	Al6S	ATOM	50310	O2P	1479	189.334	111.855	-24.053	1.00	49.18	A
ATOM	50258	N6	ADE	1476	193.725	98.413	-20.361	1.00	53.27	Al6S	ATOM	50311	O5' ADE	1479	189.329	113.264	-24.259	1.00	49.18	A
ATOM	50259	C5	ADE	1476	193.179	98.282	-22.732	1.00	53.27	Al6S	ATOM	50312	C5' ADE	1479	190.728	113.817	-24.152	1.00	49.18	A
ATOM	50260	N7	ADE	1476	194.375	97.751	-23.181	1.00	53.27	Al6S	ATOM	50313	C4' ADE	1479	191.272	113.479	-22.869	1.00	49.18	A
ATOM	50261	C8	ADE	1476	194.208	97.651	-24.471	1.00	53.27	Al6S	ATOM	50314	O4' ADE	1479	192.639	113.712	-22.969	1.00	49.18	A
ATOM	50262	C2'	ADE	1476	192.123	99.485	-26.756	1.00	33.02	Al6S	ATOM	50315	C1' ADE	1479						A

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ATOM	50316	N9	ADE	1479	193.373	113.315	-21.772	1.00	71.42	Al6s	ATOM	50369	N7	GUA	1481	191.775	109.319	-22.987	1.00	54.33
ATOM	50317	C4	ADE	1479	194.515	112.580	-21.773	1.00	71.42	Al6s	ATOM	50370	C8	GUA	1481	192.316	108.786	-24.046	1.00	54.33
ATOM	50318	N3	ADE	1479	195.085	112.006	-22.837	1.00	71.42	Al6s	ATOM	50371	C2'	GUA	1481	194.090	106.446	-25.489	1.00	41.14
ATOM	50319	C2	ADE	1479	196.200	111.408	-22.882	1.00	71.42	Al6s	ATOM	50372	O2'	GUA	1481	194.792	105.318	-25.005	1.00	41.14
ATOM	50320	N1	ADE	1479	196.778	111.332	-21.267	1.00	71.42	Al6s	ATOM	50373	C3'	GUA	1481	194.383	106.801	-26.943	1.00	41.14
ATOM	50321	C6	ADE	1479	196.172	111.935	-20.219	1.00	71.42	Al6s	ATOM	50374	O3'	GUA	1481	194.846	105.724	-27.793	1.00	41.14
ATOM	50322	N6	ADE	1479	196.755	111.885	-19.021	1.00	71.42	Al6s	ATOM	50375	P	GUA	1482	196.329	105.114	-27.611	1.00	35.46
ATOM	50323	C5	ADE	1479	194.971	112.586	-20.465	1.00	71.42	Al6s	ATOM	50376	O1P	GUA	1482	196.501	104.053	-28.621	1.00	41.75
ATOM	50324	N7	ADE	1479	194.095	113.268	-19.638	1.00	71.42	Al6s	ATOM	50377	O2P	GUA	1482	196.539	104.761	-26.194	1.00	41.75
ATOM	50325	C8	ADE	1479	193.152	113.665	-20.454	1.00	71.42	Al6s	ATOM	50378	O5'	GUA	1482	197.249	106.310	-28.094	1.00	35.46
ATOM	50326	C2'	ADE	1479	193.084	113.275	-24.359	1.00	49.18	Al6s	ATOM	50379	C5'	GUA	1482	197.068	106.855	-29.405	1.00	35.46
ATOM	50327	O2'	ADE	1479	194.004	114.227	-24.844	1.00	49.18	Al6s	ATOM	50380	C4'	GUA	1482	198.335	107.515	-29.879	1.00	35.46
ATOM	50328	C3'	ADE	1479	191.761	113.282	-25.142	1.00	49.18	Al6s	ATOM	50381	O4'	GUA	1482	198.583	108.760	-29.156	1.00	35.46
ATOM	50329	O3'	ADE	1479	192.043	114.238	-26.165	1.00	49.18	Al6s	ATOM	50382	C1'	GUA	1482	199.826	108.689	-28.476	1.00	35.46
ATOM	50330	P	ADE	1480	190.880	114.903	-27.040	1.00	60.94	Al6s	ATOM	50383	N9	GUA	1482	199.536	108.335	-27.080	1.00	41.75
ATOM	50331	O1P	ADE	1480	191.108	116.362	-26.981	1.00	65.75	Al6s	ATOM	50384	C4	GUA	1482	199.025	109.181	-26.103	1.00	41.75
ATOM	50332	O2P	ADE	1480	189.552	114.363	-26.688	1.00	65.75	Al6s	ATOM	50385	N3	GUA	1482	198.721	110.491	-26.253	1.00	41.75
ATOM	50333	O5'	ADE	1480	191.257	114.418	-28.512	1.00	60.94	Al6s	ATOM	50386	C2	GUA	1482	198.235	111.024	-25.137	1.00	41.75
ATOM	50334	C5'	ADE	1480	191.286	113.022	-28.865	1.00	60.94	Al6s	ATOM	50387	N2	GUA	1482	197.896	112.320	-25.096	1.00	41.75
ATOM	50335	C4'	ADE	1480	192.439	112.745	-29.808	1.00	60.94	Al6s	ATOM	50388	N1	GUA	1482	198.051	110.334	-23.980	1.00	41.75
ATOM	50336	O4'	ADE	1480	192.618	113.941	-30.599	1.00	60.94	Al6s	ATOM	50389	C6	GUA	1482	198.342	108.996	-23.791	1.00	41.75
ATOM	50337	C1'	ADE	1480	193.973	114.073	-30.953	1.00	60.94	Al6s	ATOM	50390	O6	GUA	1482	198.120	108.479	-22.690	1.00	41.75
ATOM	50338	N9	ADE	1480	194.401	115.447	-30.734	1.00	65.75	Al6s	ATOM	50391	C5	GUA	1482	198.880	108.398	-24.979	1.00	41.75
ATOM	50339	C4	ADE	1480	195.101	116.182	-31.825	1.00	65.75	Al6s	ATOM	50392	N7	GUA	1482	199.302	107.097	-25.228	1.00	41.75
ATOM	50340	N3	ADE	1480	195.499	115.784	-32.875	1.00	65.75	Al6s	ATOM	50393	C8	GUA	1482	199.684	107.108	-26.480	1.00	41.75
ATOM	50341	C2	ADE	1480	196.158	116.758	-33.491	1.00	65.75	Al6s	ATOM	50394	O2'	GUA	1482	200.622	107.679	-29.303	1.00	35.46
ATOM	50342	N1	ADE	1480	196.442	117.991	-33.058	1.00	65.75	Al6s	ATOM	50395	O2'	GUA	1482	200.990	108.409	-30.444	1.00	35.46
ATOM	50343	C6	ADE	1480	196.026	118.357	-31.824	1.00	65.75	Al6s	ATOM	50396	C3'	GUA	1482	199.533	106.649	-29.585	1.00	35.46
ATOM	50344	N6	ADE	1480	196.313	119.586	-31.394	1.00	65.75	Al6s	ATOM	50397	O3'	GUA	1482	199.608	105.537	-30.501	1.00	35.46
ATOM	50345	C5	ADE	1480	195.316	117.411	-31.068	1.00	65.75	Al6s	ATOM	50398	P	URI	1483	200.360	105.648	-31.913	1.00	62.40
ATOM	50346	N7	ADE	1480	194.760	117.451	-29.797	1.00	65.75	Al6s	ATOM	50399	O1P	URI	1483	200.956	104.297	-32.042	1.00	39.90
ATOM	50347	C8	ADE	1480	194.229	116.262	-29.650	1.00	65.75	Al6s	ATOM	50400	O2P	URI	1483	201.216	106.828	-32.034	1.00	39.90
ATOM	50348	C2'	ADE	1480	194.784	113.048	-30.170	1.00	60.94	Al6s	ATOM	50401	O5'	URI	1483	199.182	105.835	-32.969	1.00	62.40
ATOM	50349	O2'	ADE	1480	195.227	112.007	-31.022	1.00	60.94	Al6s	ATOM	50402	C5'	URI	1483	199.108	107.010	-33.779	1.00	62.40
ATOM	50350	C3'	ADE	1480	193.787	112.571	-29.127	1.00	60.94	Al6s	ATOM	50403	C4'	URI	1483	198.080	106.828	-34.869	1.00	62.40
ATOM	50351	O3'	ADE	1480	194.164	111.224	-28.835	1.00	60.94	Al6s	ATOM	50404	O4'	URI	1483	198.419	105.622	-35.587	1.00	62.40
ATOM	50352	P	GUA	1481	193.447	109.959	-29.547	1.00	54.33	Al6s	ATOM	50405	N1	URI	1483	197.246	104.925	-35.952	1.00	62.40
ATOM	50353	O1P	GUA	1481	194.149	109.661	-29.811	1.00	54.33	Al6s	ATOM	50406	C1'	URI	1483	197.357	103.542	-35.473	1.00	39.90
ATOM	50354	O2P	GUA	1481	191.967	109.989	-29.527	1.00	54.33	Al6s	ATOM	50407	C6	URI	1483	197.925	103.238	-34.276	1.00	39.90
ATOM	50355	O5'	GUA	1481	193.917	108.847	-28.546	1.00	41.14	Al6s	ATOM	50408	C2	URI	1483	196.872	102.554	-36.300	1.00	39.90
ATOM	50356	C5'	GUA	1481	195.220	108.933	-28.000	1.00	41.14	Al6s	ATOM	50409	O2	URI	1483	196.364	102.789	-37.381	1.00	39.90
ATOM	50357	C4'	GUA	1481	195.350	107.978	-26.867	1.00	41.14	Al6s	ATOM	50410	N3	URI	1483	197.015	101.279	-35.831	1.00	39.90
ATOM	50358	O4'	GUA	1481	194.983	108.667	-25.676	1.00	41.14	Al6s	ATOM	50411	C4	URI	1483	197.597	100.902	-35.660	1.00	39.90
ATOM	50359	C1'	GUA	1481	194.523	107.719	-24.752	1.00	41.14	Al6s	ATOM	50412	O4	URI	1483	197.768	99.704	-34.440	1.00	39.90
ATOM	50360	N9	GUA	1481	193.597	108.357	-23.828	1.00	54.33	Al6s	ATOM	50413	C5	URI	1483	198.066	101.985	-33.852	1.00	39.90
ATOM	50361	C4	GUA	1481	193.889	108.642	-22.529	1.00	54.33	Al6s	ATOM	50414	O2'	URI	1483	196.032	105.697	-35.434	1.00	62.40
ATOM	50362	N3	GUA	1481	195.055	108.374	-21.918	1.00	54.33	Al6s	ATOM	50415	C2'	URI	1483	195.362	106.327	-36.506	1.00	62.40
ATOM	50363	C2	GUA	1481	195.051	108.755	-20.671	1.00	54.33	Al6s	ATOM	50416	C3'	URI	1483	196.659	106.607	-34.387	1.00	62.40
ATOM	50364	N2	GUA	1481	196.133	108.559	-19.927	1.00	54.33	Al6s	ATOM	50417	O3'	URI	1483	195.988	107.837	-34.085	1.00	62.40
ATOM	50365	N1	GUA	1481	193.987	109.356	-20.059	1.00	54.33	Al6s	ATOM	50418	P	ADE	1484	195.569	108.898	-35.245	1.00	47.70
ATOM	50366	C6	GUA	1481	192.772	109.641	-20.667	1.00	54.33	Al6s	ATOM	50419	O1P	ADE	1484	195.697	108.396	-36.630	1.00	48.17
ATOM	50367	O6	GUA	1481	191.868	110.184	-20.017	1.00	54.33	Al6s	ATOM	50420	O2P	ADE	1484	196.237	110.173	-34.883	1.00	48.17
ATOM	50368	C5	GUA	1481	192.766	109.232	-22.020	1.00	54.33	Al6s	ATOM	50421	O5'	ADE	1484	194.014	109.123	-34.949	1.00	47.70

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ATOM	50422	C5' ADE	1484	193.186	108.039	-34.505	1.00	47.70	Al6S	ATOM	50475	N3	CYT	1486	183.064	103.518	-35.936	1.00	43.74	Al6S
ATOM	50423	C4' ADE	1484	192.252	108.484	-33.398	1.00	47.70	Al6S	ATOM	50476	C4	CYT	1486	184.360	103.233	-35.817	1.00	43.74	Al6S
ATOM	50424	O4' ADE	1484	191.555	109.693	-33.780	1.00	47.70	Al6S	ATOM	50477	N4	CYT	1486	185.085	103.160	-36.922	1.00	43.74	Al6S
ATOM	50425	C1' ADE	1484	190.189	109.598	-33.409	1.00	47.70	Al6S	ATOM	50478	C5	CYT	1486	184.968	103.012	-34.553	1.00	43.74	Al6S
ATOM	50426	N9 ADE	1484	189.393	109.509	-34.633	1.00	48.17	Al6S	ATOM	50479	C2' CYT	1486	181.261	102.231	-32.149	1.00	34.49	Al6S	
ATOM	50427	C4 ADE	1484	188.024	109.532	-34.733	1.00	48.17	Al6S	ATOM	50480	O2' CYT	1486	180.090	102.491	-31.419	1.00	34.49	Al6S	
ATOM	50428	N3 ADE	1484	187.132	109.635	-33.735	1.00	48.17	Al6S	ATOM	50481	C3' CYT	1486	182.259	101.464	-31.306	1.00	34.49	Al6S	
ATOM	50429	C2 ADE	1484	185.900	109.656	-34.214	1.00	48.17	Al6S	ATOM	50482	O3' CYT	1486	181.615	100.460	-30.556	1.00	34.49	Al6S	
ATOM	50430	N1 ADE	1484	185.482	109.581	-35.475	1.00	48.17	Al6S	ATOM	50483	P	URI	1487	181.516	98.969	-31.146	1.00	35.05	Al6S
ATOM	50431	C6 ADE	1484	186.398	109.465	-36.450	1.00	48.17	Al6S	ATOM	50484	O1P URI	1487	180.673	98.193	-30.197	1.00	53.33	Al6S	
ATOM	50432	N6 ADE	1484	185.977	109.371	-37.706	1.00	48.17	Al6S	ATOM	50485	O2P URI	1487	182.890	98.499	-31.463	1.00	53.33	Al6S	
ATOM	50433	C5 ADE	1484	187.745	109.446	-36.078	1.00	48.17	Al6S	ATOM	50486	O5' URI	1487	180.686	99.164	-32.487	1.00	35.05	Al6S	
ATOM	50434	N7 ADE	1484	188.913	109.364	-36.815	1.00	48.17	Al6S	ATOM	50487	C5' URI	1487	179.369	99.638	-32.434	1.00	35.05	Al6S	
ATOM	50435	C8 ADE	1484	189.857	109.400	-35.914	1.00	48.17	Al6S	ATOM	50488	C4' URI	1487	178.841	99.815	-33.821	1.00	35.05	Al6S	
ATOM	50436	C2' ADE	1484	190.057	108.366	-32.524	1.00	47.70	Al6S	ATOM	50489	O4' URI	1487	179.624	100.817	-34.523	1.00	35.05	Al6S	
ATOM	50437	O2' ADE	1484	190.303	108.737	-31.185	1.00	47.70	Al6S	ATOM	50490	C1' URI	1487	179.601	100.537	-35.916	1.00	35.05	Al6S	
ATOM	50438	C3' ADE	1484	191.146	107.487	-33.106	1.00	47.70	Al6S	ATOM	50491	N1 URI	1487	180.985	100.384	-36.371	1.00	53.33	Al6S	
ATOM	50439	O3' ADE	1484	191.595	106.531	-32.179	1.00	47.70	Al6S	ATOM	50492	C6 URI	1487	181.991	100.103	-35.478	1.00	53.33	Al6S	
ATOM	50440	P	1485	192.253	104.994	-32.415	1.00	38.85	Al6S	ATOM	50493	C2 URI	1487	181.236	100.518	-37.715	1.00	53.33	Al6S	
ATOM	50441	O1P GUA	1485	192.153	104.155	-31.554	1.00	49.34	Al6S	ATOM	50494	O2 URI	1487	180.364	100.764	-38.527	1.00	53.33	Al6S	
ATOM	50442	O2P GUA	1485	191.212	104.782	-33.879	1.00	49.34	Al6S	ATOM	50495	N3 URI	1487	182.545	100.343	-38.070	1.00	53.33	Al6S	
ATOM	50443	O5' GUA	1485	189.785	104.865	-31.840	1.00	38.85	Al6S	ATOM	50496	C4 URI	1487	183.601	100.044	-37.223	1.00	53.33	Al6S	
ATOM	50444	C5' GUA	1485	189.516	105.140	-30.479	1.00	38.85	Al6S	ATOM	50497	O4 URI	1487	184.723	99.865	-37.694	1.00	53.33	Al6S	
ATOM	50445	C4' GUA	1485	188.037	105.298	-30.284	1.00	38.85	Al6S	ATOM	50498	C5 URI	1487	183.251	99.930	-35.847	1.00	53.33	Al6S	
ATOM	50446	O4' GUA	1485	187.556	106.442	-31.047	1.00	38.85	Al6S	ATOM	50499	C2' URI	1487	178.823	99.231	-36.101	1.00	35.05	Al6S	
ATOM	50447	C1' GUA	1485	186.247	106.184	-31.506	1.00	38.85	Al6S	ATOM	50500	O2' URI	1487	177.498	99.528	-36.472	1.00	35.05	Al6S	
ATOM	50448	N9 GUA	1485	186.267	106.214	-32.958	1.00	49.34	Al6S	ATOM	50501	C3' URI	1487	178.944	98.602	-34.718	1.00	35.05	Al6S	
ATOM	50449	C4 GUA	1485	185.210	106.490	-33.778	1.00	49.34	Al6S	ATOM	50502	O3' URI	1487	177.880	97.709	-34.449	1.00	36.48	Al6S	
ATOM	50450	N3 GUA	1485	183.971	106.846	-33.380	1.00	49.34	Al6S	ATOM	50503	P	GUA	1488	178.159	96.124	-34.423	1.00	36.48	Al6S
ATOM	50451	C2 GUA	1485	183.164	107.022	-34.406	1.00	49.34	Al6S	ATOM	50504	O1P GUA	1488	177.192	95.527	-33.455	1.00	48.47	Al6S	
ATOM	50452	N2 GUA	1485	181.906	107.422	-34.207	1.00	49.34	Al6S	ATOM	50505	O2P GUA	1488	179.614	95.868	-34.239	1.00	48.47	Al6S	
ATOM	50453	C6 GUA	1485	183.539	106.828	-35.711	1.00	49.34	Al6S	ATOM	50506	O5' GUA	1488	177.770	95.667	-35.901	1.00	36.48	Al6S	
ATOM	50454	C6 GUA	1485	184.805	106.446	-36.131	1.00	49.34	Al6S	ATOM	50507	C5' GUA	1488	176.419	95.468	-36.274	1.00	36.48	Al6S	
ATOM	50455	O6 GUA	1485	185.028	106.271	-37.323	1.00	49.34	Al6S	ATOM	50508	C4' GUA	1488	176.322	95.279	-37.760	1.00	36.48	Al6S	
ATOM	50456	C5 GUA	1485	185.682	106.297	-35.055	1.00	49.34	Al6S	ATOM	50509	O4' GUA	1488	177.868	96.457	-38.407	1.00	36.48	Al6S	
ATOM	50457	N7 GUA	1485	187.020	105.953	-35.039	1.00	49.34	Al6S	ATOM	50510	C1' GUA	1488	177.553	96.082	-39.591	1.00	36.48	Al6S	
ATOM	50458	C8 GUA	1485	187.327	105.922	-33.774	1.00	49.34	Al6S	ATOM	50511	N9 GUA	1488	178.957	96.398	-39.377	1.00	48.47	Al6S	
ATOM	50459	C2' GUA	1485	185.857	104.796	-30.988	1.00	38.85	Al6S	ATOM	50512	C4 GUA	1488	179.943	96.542	-40.324	1.00	48.47	Al6S	
ATOM	50460	O2' GUA	1485	185.186	104.910	-29.749	1.00	38.85	Al6S	ATOM	50513	N3 GUA	1488	179.796	96.384	-41.652	1.00	48.47	Al6S	
ATOM	50461	C3' GUA	1485	187.219	104.144	-30.818	1.00	38.85	Al6S	ATOM	50514	C2 GUA	1488	180.921	96.619	-42.303	1.00	48.47	Al6S	
ATOM	50462	O3' GUA	1485	187.179	103.105	-29.857	1.00	38.85	Al6S	ATOM	50515	N2 GUA	1488	180.949	96.530	-43.635	1.00	48.47	Al6S	
ATOM	50463	P	1486	186.601	101.675	-30.273	1.00	34.49	Al6S	ATOM	50516	N1 GUA	1488	182.101	96.965	-41.696	1.00	48.47	Al6S	
ATOM	50464	O1P CYT	1486	186.565	100.771	-29.090	1.00	43.74	Al6S	ATOM	50517	C6 GUA	1488	182.281	97.117	-40.327	1.00	48.47	Al6S	
ATOM	50465	O2P CYT	1486	187.364	101.278	-31.485	1.00	43.74	Al6S	ATOM	50518	O6 GUA	1488	183.406	97.412	-39.872	1.00	48.47	Al6S	
ATOM	50466	O5' CYT	1486	185.101	101.980	-30.711	1.00	34.49	Al6S	ATOM	50519	C5 GUA	1488	181.076	96.883	-39.620	1.00	48.47	Al6S	
ATOM	50467	C5' CYT	1486	184.117	102.287	-29.739	1.00	34.49	Al6S	ATOM	50520	N7 GUA	1488	180.814	96.925	-38.259	1.00	48.47	Al6S	
ATOM	50468	C4' CYT	1486	182.787	102.556	-30.400	1.00	34.49	Al6S	ATOM	50521	C8 GUA	1488	179.549	96.630	-38.163	1.00	48.47	Al6S	
ATOM	50469	O4' CYT	1486	182.895	103.706	-31.278	1.00	34.49	Al6S	ATOM	50522	C2' GUA	1488	177.301	94.585	-39.779	1.00	36.48	Al6S	
ATOM	50470	C1' CYT	1486	182.032	103.530	-32.391	1.00	34.49	Al6S	ATOM	50523	O2' GUA	1488	176.115	94.401	-40.532	1.00	36.48	Al6S	
ATOM	50471	N1 CYT	1486	182.870	103.415	-33.583	1.00	43.74	Al6S	ATOM	50524	C3' GUA	1488	177.138	94.140	-38.336	1.00	36.48	Al6S	
ATOM	50472	C6 CYT	1486	184.198	103.119	-33.473	1.00	43.74	Al6S	ATOM	50525	O3' GUA	1488	176.419	92.928	-38.248	1.00	36.48	Al6S	
ATOM	50473	C2 CYT	1486	182.291	103.601	-34.831	1.00	43.74	Al6S	ATOM	50526	P	URI	1489	177.176	91.595	-37.789	1.00	36.48	Al6S
ATOM	50474	O2 CYT	1486	181.080	103.822	-34.894	1.00	43.74	Al6S	ATOM	50527	O1P URI	1489	176.178	90.531	-37.527	1.00	46.05	Al6S	

ATOM	50528	O2P	URI	1489	178.137	91.970	-36.719	1.00	46.05	Al6S	ATOM	50581	C4	CYT	1491	187.994	89.333	-39.207	1.00	49.25
ATOM	50529	O5	URI	1489	178.003	91.200	-39.088	1.00	36.91	Al6S	ATOM	50582	N4	CYT	1491	187.570	89.881	-38.081	1.00	49.25
ATOM	50530	C5	URI	1489	177.384	91.199	-40.366	1.00	36.91	Al6S	ATOM	50583	C5	CYT	1491	187.183	88.388	-39.882	1.00	49.25
ATOM	50531	C4	URI	1489	178.418	91.335	-41.453	1.00	36.91	Al6S	ATOM	50584	C2	CYT	1491	190.405	86.460	-42.356	1.00	38.19
ATOM	50532	O4	URI	1489	179.013	92.652	-41.400	1.00	36.91	Al6S	ATOM	50585	O2	CYT	1491	191.345	86.334	-43.407	1.00	38.19
ATOM	50533	C1	URI	1489	180.334	92.586	-41.900	1.00	36.91	Al6S	ATOM	50586	C3	CYT	1491	189.444	85.280	-42.279	1.00	38.19
ATOM	50534	N1	URI	1489	181.235	93.175	-40.898	1.00	46.05	Al6S	ATOM	50587	O3	CYT	1491	190.112	84.048	-42.468	1.00	38.19
ATOM	50535	C6	URI	1489	180.922	93.201	-39.566	1.00	46.05	Al6S	ATOM	50588	P	CYT	1492	190.499	83.166	-41.193	1.00	42.51
ATOM	50536	C2	URI	1489	182.410	93.698	-41.350	1.00	46.05	Al6S	ATOM	50589	O1P	CYT	1492	191.015	81.860	-41.671	1.00	49.76
ATOM	50537	O2	URI	1489	182.707	93.702	-42.519	1.00	46.05	Al6S	ATOM	50590	O2P	CYT	1492	189.344	83.203	-40.255	1.00	49.76
ATOM	50538	N3	URI	1489	183.225	94.223	-40.384	1.00	46.05	Al6S	ATOM	50591	O5	CYT	1492	191.703	83.972	-40.532	1.00	42.51
ATOM	50539	C4	URI	1489	182.975	94.289	-39.037	1.00	46.05	Al6S	ATOM	50592	C5	CYT	1492	192.936	84.120	-41.212	1.00	42.51
ATOM	50540	O4	URI	1489	183.754	94.915	-38.307	1.00	46.05	Al6S	ATOM	50593	C4	CYT	1492	193.806	85.104	-40.486	1.00	42.51
ATOM	50541	C5	URI	1489	181.730	93.725	-38.646	1.00	46.05	Al6S	ATOM	50594	O4	CYT	1492	193.140	86.391	-40.469	1.00	42.51
ATOM	50542	C2	URI	1489	180.627	91.118	-42.254	1.00	36.91	Al6S	ATOM	50595	C1	CYT	1492	193.418	87.057	-39.246	1.00	49.76
ATOM	50543	O2	URI	1489	180.415	90.931	-43.643	1.00	36.91	Al6S	ATOM	50596	N1	CYT	1492	192.156	87.255	-38.523	1.00	49.76
ATOM	50544	C3	URI	1489	179.193	89.378	-41.404	1.00	36.91	Al6S	ATOM	50597	C6	CYT	1492	191.051	86.512	-38.819	1.00	49.76
ATOM	50545	O3	URI	1489	179.193	89.162	-42.023	1.00	36.91	Al6S	ATOM	50598	C2	CYT	1492	192.113	88.203	-37.506	1.00	49.76
ATOM	50546	P	ADE	1490	179.872	87.764	-41.599	1.00	40.14	Al6S	ATOM	50599	O2	CYT	1492	190.988	88.346	-36.781	1.00	49.76
ATOM	50547	O1P	ADE	1490	179.147	86.693	-42.327	1.00	49.25	Al6S	ATOM	50600	N3	CYT	1492	189.929	87.595	-37.050	1.00	49.76
ATOM	50548	O2P	ADE	1490	179.987	87.694	-40.129	1.00	49.25	Al6S	ATOM	50601	C4	CYT	1492	188.858	87.742	-36.284	1.00	49.76
ATOM	50549	O5	ADE	1490	181.334	87.880	-42.216	1.00	40.14	Al6S	ATOM	50602	N4	CYT	1492	189.927	86.650	-38.114	1.00	49.76
ATOM	50550	C5	ADE	1490	182.996	88.035	-43.947	1.00	40.14	Al6S	ATOM	50603	C5	CYT	1492	194.386	86.172	-38.460	1.00	42.51
ATOM	50551	C4	ADE	1490	182.996	88.035	-43.947	1.00	40.14	Al6S	ATOM	50604	C2	CYT	1492	195.705	86.595	-38.742	1.00	42.51
ATOM	50552	O4	ADE	1490	183.305	89.446	-43.823	1.00	40.14	Al6S	ATOM	50605	O2	CYT	1492	194.045	84.796	-39.019	1.00	42.51
ATOM	50553	C1	ADE	1490	184.678	89.594	-43.504	1.00	40.14	Al6S	ATOM	50606	C3	CYT	1492	195.113	83.880	-38.882	1.00	48.69
ATOM	50554	N9	ADE	1490	184.812	90.367	-42.274	1.00	49.25	Al6S	ATOM	50607	O3	CYT	1493	195.141	82.876	-37.635	1.00	48.69
ATOM	50555	C4	ADE	1490	185.890	91.149	-41.938	1.00	49.25	Al6S	ATOM	50608	P	CYT	1493	196.191	81.860	-37.915	1.00	58.78
ATOM	50556	N3	ADE	1490	186.970	91.415	-42.690	1.00	49.25	Al6S	ATOM	50609	O1P	CYT	1493	193.758	82.430	-37.341	1.00	58.78
ATOM	50557	C2	ADE	1490	187.833	92.171	-42.017	1.00	49.25	Al6S	ATOM	50610	O2P	CYT	1493	195.667	83.804	-36.461	1.00	48.69
ATOM	50558	N1	ADE	1490	187.747	92.650	-40.773	1.00	49.25	Al6S	ATOM	50611	O5	CYT	1493	196.928	84.440	-36.566	1.00	48.69
ATOM	50559	C6	ADE	1490	186.647	92.364	-40.047	1.00	49.25	Al6S	ATOM	50612	C5	CYT	1493	197.139	85.373	-35.406	1.00	48.69
ATOM	50560	N6	ADE	1490	186.563	92.837	-38.805	1.00	49.25	Al6S	ATOM	50613	C4	CYT	1493	196.245	86.510	-35.527	1.00	48.69
ATOM	50561	C5	ADE	1490	185.654	91.577	-40.650	1.00	49.25	Al6S	ATOM	50614	O4	CYT	1493	195.884	86.963	-34.230	1.00	48.69
ATOM	50562	N7	ADE	1490	184.429	91.118	-40.202	1.00	49.25	Al6S	ATOM	50615	C1	CYT	1493	194.438	86.880	-34.082	1.00	58.78
ATOM	50563	C8	ADE	1490	185.965	90.420	-41.208	1.00	49.25	Al6S	ATOM	50616	N9	CYT	1493	193.693	87.536	-33.136	1.00	58.78
ATOM	50564	C2	ADE	1490	185.257	88.190	-43.329	1.00	40.14	Al6S	ATOM	50617	C4	CYT	1493	194.168	88.408	-32.224	1.00	58.78
ATOM	50565	O2	ADE	1490	185.850	87.806	-44.539	1.00	40.14	Al6S	ATOM	50618	N3	CYT	1493	193.217	88.855	-31.421	1.00	58.78
ATOM	50566	C3	ADE	1490	184.014	87.373	-43.037	1.00	40.14	Al6S	ATOM	50619	C2	CYT	1493	193.524	89.739	-30.451	1.00	58.78
ATOM	50567	O3	ADE	1490	184.213	86.032	-43.436	1.00	40.14	Al6S	ATOM	50620	N2	CYT	1493	191.903	88.472	-31.507	1.00	58.78
ATOM	50568	P	CYT	1491	184.831	84.969	-42.406	1.00	38.19	Al6S	ATOM	50621	N1	CYT	1493	191.392	87.576	-32.436	1.00	58.78
ATOM	50569	O1P	CYT	1491	184.667	83.619	-43.009	1.00	49.25	Al6S	ATOM	50622	C6	CYT	1493	190.187	87.297	-32.421	1.00	58.78
ATOM	50570	O2P	CYT	1491	186.393	85.247	-41.074	1.00	49.25	Al6S	ATOM	50623	O6	CYT	1493	192.407	87.092	-33.310	1.00	58.78
ATOM	50571	O5	CYT	1491	187.203	84.875	-43.472	1.00	38.19	Al6S	ATOM	50624	C5	CYT	1493	192.336	86.197	-34.372	1.00	58.78
ATOM	50572	C5	CYT	1491	188.537	85.568	-43.453	1.00	38.19	Al6S	ATOM	50625	N7	CYT	1493	193.564	86.113	-34.805	1.00	58.78
ATOM	50573	C4	CYT	1491	188.357	87.008	-43.402	1.00	38.19	Al6S	ATOM	50626	C8	CYT	1493	196.572	86.042	-33.219	1.00	48.69
ATOM	50574	O1	CYT	1491	189.438	87.596	-42.692	1.00	38.19	Al6S	ATOM	50627	C2	CYT	1493	197.776	86.629	-32.788	1.00	48.69
ATOM	50575	C1	CYT	1491	188.900	88.206	-41.474	1.00	49.25	Al6S	ATOM	50628	O2	CYT	1493	197.841	84.001	-33.545	1.00	48.69
ATOM	50576	N1	CYT	1491	187.667	87.855	-41.003	1.00	49.25	Al6S	ATOM	50629	C3	CYT	1493	197.509	82.801	-32.539	1.00	58.61
ATOM	50577	C6	CYT	1491	189.670	89.139	-40.798	1.00	49.25	Al6S	ATOM	50630	O3	CYT	1494	196.295	82.112	-33.039	1.00	55.50
ATOM	50578	C2	CYT	1491	189.779	89.432	-41.252	1.00	49.25	Al6S	ATOM	50631	P	CYT	1494	198.760	82.023	-32.336	1.00	55.50
ATOM	50579	O2	CYT	1491	189.191	89.693	-39.665	1.00	49.25	Al6S	ATOM	50632	O1P	CYT	1494					
ATOM	50580	N3	CYT	1491						Al6S	ATOM	50633	O2P	CYT	1494					

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ATOM	50634	O5' GUA	1494	197.149	83.543	-31.178	1.00	58.61	A16S	ATOM	50687	C2' ADE	1496	196.619	94.986	-25.851	1.00	53.59	A
ATOM	50635	C5' GUA	1494	198.178	84.007	-30.312	1.00	58.61	A16S	ATOM	50688	N1 ADE	1496	197.292	94.902	-27.011	1.00	53.59	A
ATOM	50636	C4' GUA	1494	197.764	83.833	-28.874	1.00	58.61	A16S	ATOM	50689	C6 ADE	1496	196.847	94.048	-27.954	1.00	53.59	A
ATOM	50637	O4' GUA	1494	198.905	84.059	-28.018	1.00	58.61	A16S	ATOM	50690	N6 ADE	1496	197.512	93.991	-29.118	1.00	53.59	A
ATOM	50638	C1' GUA	1494	198.476	84.640	-26.801	1.00	58.61	A16S	ATOM	50691	C5 ADE	1496	195.692	93.278	-27.643	1.00	53.59	A
ATOM	50639	N9 GUA	1494	199.129	85.934	-26.669	1.00	55.50	A16S	ATOM	50692	N7 ADE	1496	194.988	92.310	-28.346	1.00	53.59	A
ATOM	50640	C4 GUA	1494	199.072	86.777	-25.583	1.00	55.50	A16S	ATOM	50693	C8 ADE	1496	194.006	91.979	-27.538	1.00	53.59	A
ATOM	50641	N3 GUA	1494	198.371	86.565	-24.444	1.00	55.50	A16S	ATOM	50694	C2' ADE	1496	192.216	93.944	-25.291	1.00	43.76	A
ATOM	50642	C2 GUA	1494	198.533	87.548	-23.571	1.00	55.50	A16S	ATOM	50695	O2' ADE	1496	191.688	94.168	-23.990	1.00	43.76	A
ATOM	50643	N2 GUA	1494	197.909	87.502	-22.383	1.00	55.50	A16S	ATOM	50696	C3' ADE	1496	191.097	93.551	-26.234	1.00	43.76	A
ATOM	50644	N1 GUA	1494	199.317	88.648	-23.798	1.00	55.50	A16S	ATOM	50697	O3' ADE	1496	190.076	94.507	-26.050	1.00	43.76	A
ATOM	50645	C6 GUA	1494	200.036	88.894	-24.961	1.00	55.50	A16S	ATOM	50698	P' GUA	1497	189.146	94.961	-27.283	1.00	44.98	A
ATOM	50646	O6 GUA	1494	200.704	89.934	-25.062	1.00	55.50	A16S	ATOM	50699	O1P GUA	1497	188.528	96.262	-26.906	1.00	53.43	A
ATOM	50647	C5' GUA	1494	199.872	87.844	-25.910	1.00	55.50	A16S	ATOM	50700	O2P GUA	1497	188.278	93.802	-27.616	1.00	53.43	A
ATOM	50648	N7 GUA	1494	200.403	87.688	-27.183	1.00	55.50	A16S	ATOM	50701	O5' GUA	1497	190.078	95.184	-28.558	1.00	44.98	A
ATOM	50649	C8 GUA	1494	199.932	86.544	-27.593	1.00	55.50	A16S	ATOM	50702	C5' GUA	1497	191.218	96.020	-28.522	1.00	44.98	A
ATOM	50650	C2' GUA	1494	196.955	84.743	-26.865	1.00	58.61	A16S	ATOM	50703	C4' GUA	1497	192.281	95.463	-29.446	1.00	44.98	A
ATOM	50651	O2' GUA	1494	196.387	83.568	-26.332	1.00	58.61	A16S	ATOM	50704	O4' GUA	1497	192.154	94.012	-29.487	1.00	44.98	A
ATOM	50652	C3' GUA	1494	196.736	84.822	-28.362	1.00	58.61	A16S	ATOM	50705	C1' GUA	1497	192.646	93.531	-30.719	1.00	44.98	A
ATOM	50653	O3' GUA	1494	195.427	84.408	-28.699	1.00	58.61	A16S	ATOM	50706	N9 GUA	1497	191.610	92.719	-31.347	1.00	53.43	A
ATOM	50654	P' ADE	1495	194.441	85.444	-29.419	1.00	46.00	A16S	ATOM	50707	C4 GUA	1497	191.747	91.919	-32.463	1.00	53.43	A
ATOM	50655	O1P ADE	1495	193.259	84.656	-29.848	1.00	42.41	A16S	ATOM	50708	N3 GUA	1497	192.871	91.746	-33.185	1.00	53.43	A
ATOM	50656	O2P ADE	1495	195.236	86.190	-30.432	1.00	42.41	A16S	ATOM	50709	C2 GUA	1497	192.680	90.925	-34.196	1.00	53.43	A
ATOM	50657	O5' ADE	1495	194.048	86.449	-28.243	1.00	46.00	A16S	ATOM	50710	N2 GUA	1497	193.679	90.646	-35.021	1.00	53.43	A
ATOM	50658	C5' ADE	1495	193.239	86.017	-27.148	1.00	46.00	A16S	ATOM	50711	N1 GUA	1497	191.494	90.316	-34.473	1.00	53.43	A
ATOM	50659	C4' ADE	1495	193.360	86.984	-26.001	1.00	46.00	A16S	ATOM	50712	C6 GUA	1497	190.334	90.461	-33.738	1.00	53.43	A
ATOM	50660	O4' ADE	1495	194.756	87.047	-25.583	1.00	46.00	A16S	ATOM	50713	O6 GUA	1497	189.327	89.829	-34.058	1.00	53.43	A
ATOM	50661	C1' ADE	1495	195.082	88.374	-25.207	1.00	46.00	A16S	ATOM	50714	C5 GUA	1497	190.512	91.354	-32.660	1.00	53.43	A
ATOM	50662	N9 ADE	1495	196.091	88.882	-26.142	1.00	42.41	A16S	ATOM	50715	N7 GUA	1497	189.618	91.786	-31.696	1.00	53.43	A
ATOM	50663	C4 ADE	1495	196.855	90.015	-25.994	1.00	42.41	A16S	ATOM	50716	C8 GUA	1497	190.313	92.592	-30.941	1.00	53.43	A
ATOM	50664	N3 ADE	1495	197.720	91.857	-25.160	1.00	42.41	A16S	ATOM	50717	C2' GUA	1497	193.070	94.754	-31.540	1.00	44.98	A
ATOM	50665	C2 ADE	1495	198.577	92.043	-26.173	1.00	42.41	A16S	ATOM	50718	O2' GUA	1497	192.228	95.848	-30.912	1.00	44.98	A
ATOM	50666	N1 ADE	1495	198.577	91.158	-27.190	1.00	42.41	A16S	ATOM	50719	C3' GUA	1497	192.866	97.103	-31.096	1.00	44.98	A
ATOM	50667	C6 ADE	1495	199.426	91.363	-28.208	1.00	42.41	A16S	ATOM	50720	O3' GUA	1497	192.672	97.906	-32.474	1.00	39.31	A
ATOM	50668	N6 ADE	1495	197.669	90.072	-27.110	1.00	42.41	A16S	ATOM	50721	P' GUA	1498	193.409	99.190	-32.355	1.00	52.78	A
ATOM	50669	C5 ADE	1495	197.414	89.001	-27.954	1.00	42.41	A16S	ATOM	50722	O1P GUA	1498	191.233	97.915	-32.862	1.00	52.78	A
ATOM	50670	N7 ADE	1495	196.472	88.329	-27.336	1.00	42.41	A16S	ATOM	50723	O2P GUA	1498	193.410	97.004	-33.544	1.00	39.31	A
ATOM	50671	C8 ADE	1495	193.767	89.158	-25.235	1.00	46.00	A16S	ATOM	50724	O5' GUA	1498	194.815	96.268	-34.876	1.00	39.31	A
ATOM	50672	C2' ADE	1495	193.104	88.971	-24.002	1.00	46.00	A16S	ATOM	50725	C5' GUA	1498	194.396	94.481	-36.147	1.00	39.31	A
ATOM	50673	O2' ADE	1495	193.022	88.426	-26.336	1.00	46.00	A16S	ATOM	50726	C4' GUA	1498	195.219	96.268	-34.876	1.00	39.31	A
ATOM	50674	C3' ADE	1495	191.622	88.650	-26.254	1.00	46.00	A16S	ATOM	50727	O4' GUA	1498	194.744	94.897	-34.838	1.00	39.31	A
ATOM	50675	O3' ADE	1495	190.817	89.084	-27.569	1.00	43.76	A16S	ATOM	50728	C1' GUA	1498	193.026	93.987	-36.098	1.00	52.78	A
ATOM	50676	P' ADE	1496	189.460	88.497	-27.476	1.00	53.59	A16S	ATOM	50729	N9 GUA	1498	192.412	93.088	-36.948	1.00	52.78	A
ATOM	50677	O1P ADE	1496	191.671	88.777	-28.733	1.00	53.59	A16S	ATOM	50730	C4 GUA	1498	192.982	92.477	-38.013	1.00	52.78	A
ATOM	50678	O2P ADE	1496	190.689	90.664	-27.465	1.00	43.76	A16S	ATOM	50731	N3 GUA	1498	192.126	91.663	-38.626	1.00	52.78	A
ATOM	50679	O5' ADE	1496	189.913	91.254	-26.439	1.00	43.76	A16S	ATOM	50732	C2 GUA	1498	192.507	90.967	-39.702	1.00	52.78	A
ATOM	50680	C5' ADE	1496	192.087	91.614	-25.478	1.00	43.76	A16S	ATOM	50733	N2 GUA	1498	190.831	91.473	-38.225	1.00	52.78	A
ATOM	50681	O4' ADE	1496	193.033	92.651	-25.265	1.00	43.76	A16S	ATOM	50734	N1 GUA	1498	189.062	91.862	-36.867	1.00	52.78	A
ATOM	50682	C1' ADE	1496	194.003	92.675	-26.361	1.00	53.59	A16S	ATOM	50735	O6 GUA	1498	191.134	92.955	-36.471	1.00	52.78	A
ATOM	50683	N9 ADE	1496	195.109	93.493	-26.407	1.00	53.59	A16S	ATOM	50736	C5 GUA	1498	190.944	93.742	-35.351	1.00	52.78	A
ATOM	50684	C4 ADE	1496	195.528	94.341	-25.457	1.00	53.59	A16S	ATOM	50737	N7 GUA	1498	192.088	94.335	-35.170	1.00	52.78	A
ATOM	50685	N3 ADE	1496							ATOM	50738	C8 GUA	1498						A
ATOM	50686	N3 ADE	1496							ATOM	50739	C8 GUA	1498						A

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ATOM	50740	C2' GUA	1498	194.600	95.684	-37.079	1.00	39.31	Al6s	ATOM	50793	O4' CYT	1501	186.183	97.492	-47.730	1.00	42.30	P
ATOM	50741	O2' GUA	1498	195.851	95.604	-37.724	1.00	39.31	Al6s	ATOM	50794	C1' CYT	1501	184.880	97.602	-47.184	1.00	42.30	P
ATOM	50742	C3' GUA	1498	194.559	96.852	-36.105	1.00	39.31	Al6s	ATOM	50795	N1 CYT	1501	184.987	97.802	-45.739	1.00	52.93	P
ATOM	50743	O3' GUA	1498	195.293	97.970	-36.584	1.00	39.31	Al6s	ATOM	50796	C6 CYT	1501	186.056	98.450	-45.195	1.00	52.93	P
ATOM	50744	P URI	1499	194.593	98.994	-37.602	1.00	39.75	Al6s	ATOM	50797	C2 CYT	1501	183.956	97.332	-44.927	1.00	52.93	P
ATOM	50745	O1P URI	1499	195.568	100.041	-38.011	1.00	49.36	Al6s	ATOM	50798	O2 CYT	1501	182.997	96.754	-45.455	1.00	52.93	P
ATOM	50746	O2P URI	1499	193.285	99.394	-37.012	1.00	49.36	Al6s	ATOM	50799	N3 CYT	1501	184.023	97.531	-43.596	1.00	52.93	P
ATOM	50747	O5' URI	1499	194.281	98.097	-38.872	1.00	39.75	Al6s	ATOM	50800	C4 CYT	1501	185.056	98.191	-43.077	1.00	52.93	P
ATOM	50748	C5' URI	1499	195.314	97.749	-39.762	1.00	39.75	Al6s	ATOM	50801	N4 CYT	1501	185.061	98.405	-41.768	1.00	52.93	P
ATOM	50749	O4' URI	1499	194.798	96.836	-40.828	1.00	39.75	Al6s	ATOM	50802	C5 CYT	1501	186.125	98.671	-43.881	1.00	52.93	P
ATOM	50750	O4' URI	1499	194.303	95.615	-40.217	1.00	39.75	Al6s	ATOM	50803	C2' CYT	1501	184.209	98.797	-47.854	1.00	42.30	P
ATOM	50751	C1' URI	1499	193.222	95.116	-40.981	1.00	39.75	Al6s	ATOM	50804	O2' CYT	1501	183.385	98.311	-48.885	1.00	42.30	P
ATOM	50752	N1 URI	1499	192.026	95.087	-40.134	1.00	49.36	Al6s	ATOM	50805	C3' CYT	1501	185.415	99.573	-48.359	1.00	42.30	P
ATOM	50753	C6 URI	1499	191.892	95.877	-39.017	1.00	49.36	Al6s	ATOM	50806	O3' CYT	1501	185.090	100.435	-49.431	1.00	42.30	P
ATOM	50754	C2 URI	1499	191.037	94.243	-40.523	1.00	49.36	Al6s	ATOM	50807	P URI	1502	185.049	102.019	-49.183	1.00	46.05	P
ATOM	50755	O2 URI	1499	191.156	93.520	-41.471	1.00	49.36	Al6s	ATOM	50808	O1P GUA	1502	184.981	102.677	-50.515	1.00	46.05	P
ATOM	50756	N3 URI	1499	189.907	94.269	-39.756	1.00	49.36	Al6s	ATOM	50809	O2P GUA	1502	186.133	102.387	-48.231	1.00	46.05	P
ATOM	50757	C4 URI	1499	189.686	95.035	-38.639	1.00	49.36	Al6s	ATOM	50810	O5' GUA	1502	183.652	102.241	-48.459	1.00	46.88	P
ATOM	50758	O4 URI	1499	188.607	94.941	-38.049	1.00	49.36	Al6s	ATOM	50811	C5' GUA	1502	182.449	102.029	-49.170	1.00	46.88	P
ATOM	50759	C5 URI	1499	190.784	95.880	-38.270	1.00	49.36	Al6s	ATOM	50812	C4' GUA	1502	181.290	101.887	-48.224	1.00	46.88	P
ATOM	50760	C2' URI	1499	193.032	96.069	-42.161	1.00	39.75	Al6s	ATOM	50813	O4' GUA	1502	181.488	100.733	-47.362	1.00	46.88	P
ATOM	50761	O2' URI	1499	193.799	95.604	-43.255	1.00	39.75	Al6s	ATOM	50814	C1' GUA	1502	180.713	100.902	-46.191	1.00	46.88	P
ATOM	50762	C3' URI	1499	193.596	97.353	-41.585	1.00	39.75	Al6s	ATOM	50815	N9 GUA	1502	181.582	100.847	-45.027	1.00	46.05	P
ATOM	50763	O3' URI	1499	194.005	98.226	-42.606	1.00	39.75	Al6s	ATOM	50816	C4 GUA	1502	181.186	100.502	-43.769	1.00	46.05	P
ATOM	50764	P GUA	1500	192.921	99.174	-43.288	1.00	36.46	Al6s	ATOM	50817	N3 GUA	1502	179.950	100.088	-43.421	1.00	46.05	P
ATOM	50765	O2P GUA	1500	193.559	100.036	-44.304	1.00	47.89	Al6s	ATOM	50818	C2 GUA	1502	179.856	99.845	-42.128	1.00	46.05	P
ATOM	50766	O5' GUA	1500	191.153	99.787	-42.171	1.00	47.89	Al6s	ATOM	50819	N2 GUA	1502	178.705	99.404	-41.615	1.00	46.05	P
ATOM	50767	O2' GUA	1500	191.983	98.150	-44.064	1.00	36.46	Al6s	ATOM	50820	N1 GUA	1502	180.885	100.016	-41.244	1.00	46.05	P
ATOM	50768	C5' GUA	1500	192.435	97.564	-45.272	1.00	36.46	Al6s	ATOM	50821	C6 GUA	1502	182.155	100.465	-41.575	1.00	46.05	P
ATOM	50769	O4' GUA	1500	191.334	96.787	-45.942	1.00	36.46	Al6s	ATOM	50822	O6 GUA	1502	182.992	100.629	-40.684	1.00	46.05	P
ATOM	50770	C4' GUA	1500	190.896	95.639	-45.090	1.00	36.46	Al6s	ATOM	50823	C5 GUA	1502	182.282	100.697	-42.972	1.00	46.05	P
ATOM	50771	C1' GUA	1500	189.553	95.384	-45.397	1.00	36.46	Al6s	ATOM	50824	N7 GUA	1502	183.367	101.116	-43.726	1.00	46.05	P
ATOM	50772	N9 GUA	1500	188.755	95.531	-44.181	1.00	47.89	Al6s	ATOM	50825	C8 GUA	1502	182.905	101.180	-44.943	1.00	46.05	P
ATOM	50773	C4 GUA	1500	187.524	94.973	-43.948	1.00	47.89	Al6s	ATOM	50826	C2' GUA	1502	180.084	102.293	-46.281	1.00	46.88	P
ATOM	50774	N3 GUA	1500	186.834	94.204	-44.811	1.00	47.89	Al6s	ATOM	50827	O2' GUA	1502	178.788	102.159	-46.832	1.00	46.88	P
ATOM	50775	C2' GUA	1500	185.696	93.779	-44.293	1.00	47.89	Al6s	ATOM	50828	C3' GUA	1502	181.059	102.991	-47.216	1.00	46.88	P
ATOM	50776	N2 GUA	1500	184.904	92.958	-45.009	1.00	47.89	Al6s	ATOM	50829	O3' GUA	1502	180.488	104.137	-47.820	1.00	46.88	P
ATOM	50777	N1 GUA	1500	185.256	94.112	-43.036	1.00	47.89	Al6s	ATOM	50830	P GUA	1503	180.653	105.580	-47.115	1.00	40.71	P
ATOM	50778	C6 GUA	1500	185.449	95.141	-41.025	1.00	47.89	Al6s	ATOM	50831	O1P GUA	1503	179.984	106.549	-48.020	1.00	49.07	P
ATOM	50779	O6 GUA	1500	185.492	95.141	-41.025	1.00	47.89	Al6s	ATOM	50832	O2P GUA	1503	182.073	105.797	-46.729	1.00	49.07	P
ATOM	50780	C5 GUA	1500	187.180	95.356	-42.669	1.00	47.89	Al6s	ATOM	50833	O5' GUA	1503	179.797	105.473	-45.780	1.00	40.71	P
ATOM	50781	N7 GUA	1500	188.170	96.154	-42.110	1.00	47.89	Al6s	ATOM	50834	C5' GUA	1503	178.424	105.159	-45.844	1.00	40.71	P
ATOM	50782	C8 GUA	1500	189.138	96.234	-43.043	1.00	47.89	Al6s	ATOM	50835	C4' GUA	1503	177.876	104.905	-44.468	1.00	40.71	P
ATOM	50783	O2' GUA	1500	189.082	96.328	-46.528	1.00	36.46	Al6s	ATOM	50836	O4' GUA	1503	178.544	103.766	-43.856	1.00	40.71	P
ATOM	50784	O2' GUA	1500	189.479	95.708	-47.754	1.00	36.46	Al6s	ATOM	50837	C1' GUA	1503	178.524	103.919	-42.448	1.00	40.71	P
ATOM	50785	C3' GUA	1500	190.049	97.515	-46.268	1.00	36.46	Al6s	ATOM	50838	N9 GUA	1503	179.900	103.887	-41.965	1.00	49.07	P
ATOM	50786	O3' GUA	1500	190.211	98.277	-47.449	1.00	36.46	Al6s	ATOM	50839	C4 GUA	1503	180.302	103.815	-40.659	1.00	49.07	P
ATOM	50787	P CYT	1501	189.698	99.802	-47.501	1.00	42.30	Al6s	ATOM	50840	N3 GUA	1503	179.494	103.782	-39.588	1.00	49.07	P
ATOM	50788	O1P CYT	1501	190.395	100.533	-48.591	1.00	52.93	Al6s	ATOM	50841	C2 GUA	1503	180.175	103.741	-38.465	1.00	49.07	P
ATOM	50789	O2P CYT	1501	189.753	100.321	-46.113	1.00	52.93	Al6s	ATOM	50842	N2 GUA	1503	179.531	103.752	-37.295	1.00	49.07	P
ATOM	50790	O5' CYT	1501	188.176	99.677	-47.920	1.00	42.30	Al6s	ATOM	50843	N1 GUA	1503	181.542	103.699	-38.400	1.00	49.07	P
ATOM	50791	C5' CYT	1501	187.781	98.815	-48.964	1.00	42.30	Al6s	ATOM	50844	C6 GUA	1503	182.391	103.714	-39.497	1.00	49.07	P
ATOM	50792	C4' CYT	1501	186.332	98.452	-48.800	1.00	42.30	Al6s	ATOM	50845	O6 GUA	1503	183.605	103.653	-39.334	1.00	49.07	P

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ATOM	50846	C5	GUA	1503	181.677	103.795	-40.700	1.00	49.07	Al6s	ATOM	50899	O4' GUA	1506	177.494	110.965	-29.792	1.00	39.80	Al	
ATOM	50847	N7	GUA	1503	182.132	103.871	-42.005	1.00	49.07	Al6s	ATOM	50900	C1' GUA	1506	178.268	109.815	-29.961	1.00	39.80	Al	
ATOM	50848	C8	GUA	1503	181.045	103.919	-42.721	1.00	49.07	Al6s	ATOM	50901	N9	GUA	1506	177.411	108.660	-30.174	1.00	32.96	Al
ATOM	50849	C2' GUA	1503	177.818	105.247	-42.156	1.00	40.71	Al6s	ATOM	50902	C4	GUA	1506	176.374	108.542	-31.059	1.00	32.96	Al	
ATOM	50850	O2' GUA	1503	176.438	105.003	-41.954	1.00	40.71	Al6s	ATOM	50903	N3	GUA	1506	175.936	109.498	-31.893	1.00	32.96	Al	
ATOM	50851	C3' GUA	1503	178.063	106.007	-43.449	1.00	40.71	Al6s	ATOM	50904	C2	GUA	1506	174.941	109.072	-32.636	1.00	32.96	Al	
ATOM	50852	O3' GUA	1503	177.090	107.022	-43.628	1.00	40.71	Al6s	ATOM	50905	N2	GUA	1506	174.378	109.892	-33.516	1.00	32.96	Al	
ATOM	50853	P	CYT	1504	177.417	108.520	-43.145	1.00	35.15	Al6s	ATOM	50906	N1	GUA	1506	174.422	107.810	-32.566	1.00	32.96	Al
ATOM	50854	O1P	CYT	1504	176.352	109.415	-43.674	1.00	39.35	Al6s	ATOM	50907	C6	GUA	1506	174.858	106.820	-31.704	1.00	32.96	Al
ATOM	50855	O2P	CYT	1504	178.842	108.793	-43.469	1.00	39.35	Al6s	ATOM	50908	O5	GUA	1506	174.317	105.720	-31.707	1.00	32.96	Al
ATOM	50856	O5' CYT	1504	177.280	108.437	-41.565	1.00	35.15	Al6s	ATOM	50909	C5	GUA	1506	175.914	107.258	-30.910	1.00	32.96	Al	
ATOM	50857	C5' CYT	1504	176.047	108.099	-40.962	1.00	35.15	Al6s	ATOM	50910	N7	GUA	1506	176.634	106.587	-29.936	1.00	32.96	Al	
ATOM	50858	C4' CYT	1504	176.195	108.124	-39.470	1.00	35.15	Al6s	ATOM	50911	C8	GUA	1506	177.510	107.458	-29.527	1.00	32.96	Al	
ATOM	50859	O4' CYT	1504	177.054	107.029	-39.077	1.00	35.15	Al6s	ATOM	50912	C2' GUA	1506	179.353	110.106	-31.004	1.00	39.80	Al		
ATOM	50860	C1' CYT	1504	177.862	107.431	-37.977	1.00	35.15	Al6s	ATOM	50913	O2' GUA	1506	180.591	109.575	-30.571	1.00	39.80	Al		
ATOM	50861	N1	CYT	1504	179.273	107.277	-38.359	1.00	39.35	Al6s	ATOM	50914	C3' GUA	1506	179.343	111.638	-31.099	1.00	39.80	Al	
ATOM	50862	C6	CYT	1504	179.642	107.233	-39.672	1.00	39.35	Al6s	ATOM	50915	O3' GUA	1506	180.683	112.086	-30.814	1.00	39.80	Al	
ATOM	50863	C2	CYT	1504	180.231	107.154	-37.353	1.00	39.35	Al6s	ATOM	50916	P	GUA	1507	180.977	113.235	-29.710	1.00	50.23	Al
ATOM	50864	O2	CYT	1504	179.874	107.251	-36.170	1.00	39.35	Al6s	ATOM	50917	O1P	GUA	1507	182.071	112.709	-28.847	1.00	69.57	Al
ATOM	50865	N3	CYT	1504	181.519	106.948	-37.693	1.00	39.35	Al6s	ATOM	50918	O2P	GUA	1507	179.768	113.779	-29.075	1.00	69.57	Al
ATOM	50866	C4	CYT	1504	181.866	106.897	-38.974	1.00	39.35	Al6s	ATOM	50919	O5' GUA	1507	181.570	114.409	-30.597	1.00	50.23	Al	
ATOM	50867	N4	CYT	1504	183.146	106.706	-39.259	1.00	39.35	Al6s	ATOM	50920	C5' GUA	1507	182.136	114.111	-31.862	1.00	50.23	Al	
ATOM	50868	C5	CYT	1504	180.913	107.047	-40.019	1.00	39.35	Al6s	ATOM	50921	C4' GUA	1507	183.631	113.989	-31.745	1.00	50.23	Al	
ATOM	50869	O2' CYT	1504	177.453	108.858	-37.606	1.00	35.15	Al6s	ATOM	50922	O4' GUA	1507	184.070	112.919	-32.599	1.00	50.23	Al		
ATOM	50870	C3' CYT	1504	176.467	108.807	-36.595	1.00	35.15	Al6s	ATOM	50923	C1' GUA	1507	185.345	113.227	-33.122	1.00	50.23	Al		
ATOM	50871	O3' CYT	1504	176.894	109.359	-38.927	1.00	35.15	Al6s	ATOM	50924	N9	GUA	1507	185.273	113.160	-34.570	1.00	69.57	Al	
ATOM	50872	O3' CYT	1504	175.972	110.404	-38.719	1.00	35.15	Al6s	ATOM	50925	C4	GUA	1507	186.333	113.001	-35.412	1.00	69.57	Al	
ATOM	50873	P	URI	1505	176.504	111.903	-38.559	1.00	44.66	Al6s	ATOM	50926	N3	GUA	1507	187.626	112.899	-35.039	1.00	69.57	Al
ATOM	50874	O1P	URI	1505	175.328	112.797	-38.554	1.00	47.22	Al6s	ATOM	50927	C2	GUA	1507	188.426	112.743	-36.076	1.00	69.57	Al
ATOM	50875	O2P	URI	1505	177.575	112.123	-39.555	1.00	47.22	Al6s	ATOM	50928	N2	GUA	1507	189.743	112.621	-35.883	1.00	69.57	Al
ATOM	50876	O5' URI	1505	177.197	111.915	-37.126	1.00	44.66	Al6s	ATOM	50929	N1	GUA	1507	187.990	112.694	-37.377	1.00	69.57	Al	
ATOM	50877	C5' URI	1505	176.467	111.770	-35.908	1.00	44.66	Al6s	ATOM	50930	C6	GUA	1507	186.661	112.800	-37.783	1.00	69.57	Al	
ATOM	50878	C4' URI	1505	177.388	112.097	-34.761	1.00	44.66	Al6s	ATOM	50931	O6	GUA	1507	186.373	112.745	-38.986	1.00	69.57	Al	
ATOM	50879	O4' URI	1505	178.491	111.171	-34.802	1.00	44.66	Al6s	ATOM	50932	C5	GUA	1507	185.793	112.965	-36.676	1.00	69.57	Al	
ATOM	50880	C1' URI	1505	179.714	111.852	-34.657	1.00	44.66	Al6s	ATOM	50933	N7	GUA	1507	184.412	113.109	-36.627	1.00	69.57	Al	
ATOM	50881	N1	URI	1505	180.663	111.296	-35.631	1.00	47.22	Al6s	ATOM	50934	C8	GUA	1507	184.151	113.226	-35.356	1.00	69.57	Al
ATOM	50882	C6	URI	1505	180.375	111.269	-36.972	1.00	47.22	Al6s	ATOM	50935	C2' GUA	1507	185.775	114.588	-32.583	1.00	50.23	Al	
ATOM	50883	O2	URI	1505	182.162	110.789	-33.945	1.00	47.22	Al6s	ATOM	50936	O2' GUA	1507	186.630	114.380	-31.483	1.00	50.23	Al	
ATOM	50884	N3	URI	1505	181.863	110.779	-35.139	1.00	47.22	Al6s	ATOM	50937	C3' GUA	1507	184.446	115.203	-32.165	1.00	50.23	Al	
ATOM	50885	O3' URI	1505	182.456	110.193	-37.449	1.00	47.22	Al6s	ATOM	50938	O3' GUA	1507	184.651	116.078	-31.057	1.00	50.23	Al		
ATOM	50886	C4	URI	1505	182.456	110.193	-37.449	1.00	47.22	Al6s	ATOM	50939	P	ADE	1508	184.976	117.620	-31.319	1.00	94.92	Al
ATOM	50887	O4	URI	1505	183.308	109.694	-38.187	1.00	47.22	Al6s	ATOM	50940	O1P	ADE	1508	184.052	118.396	-30.457	1.00	88.79	Al
ATOM	50888	C5	URI	1505	181.204	110.750	-37.870	1.00	47.22	Al6s	ATOM	50941	O2P	ADE	1508	184.981	117.845	-32.787	1.00	88.79	Al
ATOM	50889	C2' URI	1505	179.482	113.365	-34.668	1.00	44.66	Al6s	ATOM	50942	O5' ADE	1508	186.460	117.793	-30.765	1.00	94.92	Al		
ATOM	50890	O2' URI	1505	179.960	113.955	-33.500	1.00	44.66	Al6s	ATOM	50943	C5' ADE	1508	186.756	117.662	-29.370	1.00	94.92	Al		
ATOM	50891	C3' URI	1505	177.979	113.486	-34.912	1.00	44.66	Al6s	ATOM	50944	C4' ADE	1508	188.257	117.590	-29.157	1.00	94.92	Al		
ATOM	50892	O3' URI	1505	177.170	114.490	-34.242	1.00	44.66	Al6s	ATOM	50945	O4' ADE	1508	188.762	116.393	-29.810	1.00	94.92	Al		
ATOM	50893	P	GUA	1506	177.235	114.742	-32.631	1.00	39.80	Al6s	ATOM	50946	C1' ADE	1508	189.933	116.698	-30.548	1.00	94.92	Al	
ATOM	50894	O1P	GUA	1506	175.849	115.055	-32.290	1.00	32.96	Al6s	ATOM	50947	N9	ADE	1508	189.569	116.707	-31.967	1.00	88.79	Al
ATOM	50895	O2P	GUA	1506	178.279	115.727	-32.292	1.00	32.96	Al6s	ATOM	50948	C4	ADE	1508	190.393	116.474	-33.043	1.00	88.79	Al
ATOM	50896	O5' GUA	1506	177.519	113.347	-31.924	1.00	39.80	Al6s	ATOM	50949	N3	ADE	1508	191.707	116.183	-33.021	1.00	88.79	Al	
ATOM	50897	C5' GUA	1506	177.525	113.269	-30.507	1.00	39.80	Al6s	ATOM	50950	C2	ADE	1508	192.168	116.021	-34.258	1.00	88.79	Al	
ATOM	50898	C4' GUA	1506	178.335	112.088	-30.059	1.00	39.80	Al6s	ATOM	50951	N1	ADE	1508	191.511	116.107	-35.428	1.00	88.79	Al	

ATOM	50952	C6	ADE	1508	190.189	116.398	-35.410	1.00	88.79	Al6S	ATOM	51005	C5' ADE	1511	193.527	122.565	-40.519	0.00200.66
ATOM	50953	N6	ADE	1508	189.525	116.474	-36.569	1.00	88.79	Al6S	ATOM	51006	C4' ADE	1511	194.663	123.136	-41.334	0.00200.66
ATOM	50954	C5	ADE	1508	189.586	116.598	-34.166	1.00	88.79	Al6S	ATOM	51007	O4' ADE	1511	195.254	124.245	-40.602	0.00200.66
ATOM	50955	N7	ADE	1508	188.282	116.905	-33.806	1.00	88.79	Al6S	ATOM	51008	C1' ADE	1511	196.663	124.240	-40.777	0.00200.66
ATOM	50956	C8	ADE	1508	188.323	116.957	-32.499	1.00	88.79	Al6S	ATOM	51009	N9 ADE	1511	197.276	123.983	-39.474	0.00200.66
ATOM	50957	C2' ADE	1508	190.402	118.063	-30.048	1.00	94.92	Al6S	ATOM	51010	C4 ADE	1511	198.478	124.473	-39.021	0.00200.66	
ATOM	50958	O2' ADE	1508	191.204	117.887	-28.897	1.00	94.92	Al6S	ATOM	51011	N3 ADE	1511	199.329	125.280	-39.676	0.00200.66	
ATOM	50959	C3' ADE	1508	189.065	118.735	-29.755	1.00	94.92	Al6S	ATOM	51012	C2 ADE	1511	200.393	125.550	-38.922	0.00200.66	
ATOM	50960	O3' ADE	1508	189.194	119.829	-28.849	1.00	94.92	Al6S	ATOM	51013	N1 ADE	1511	200.681	125.135	-37.682	0.00200.66	
ATOM	50961	P	URI	1509	189.269	121.333	-29.418	1.00117.95	Al6S	ATOM	51014	C6 ADE	1511	199.803	124.324	-37.052	0.00200.66	
ATOM	50962	O1P URI	1509	189.857	122.180	-28.354	1.00145.58	Al6S	ATOM	51015	N6 ADE	1511	200.089	123.910	-35.815	0.00200.66		
ATOM	50963	O2P URI	1509	187.951	121.690	-29.991	1.00145.58	Al6S	ATOM	51016	C5 ADE	1511	198.634	123.963	-37.744	0.00200.66		
ATOM	50964	O5' URI	1509	190.325	121.255	-30.605	1.00117.95	Al6S	ATOM	51017	N7 ADE	1511	197.553	123.166	-37.397	0.00200.66		
ATOM	50965	C5' URI	1509	191.722	121.189	-30.335	1.00117.95	Al6S	ATOM	51018	C8 ADE	1511	196.779	123.210	-38.454	0.00200.66		
ATOM	50966	C4' URI	1509	192.512	121.243	-31.624	1.00117.95	Al6S	ATOM	51019	C2' ADE	1511	196.980	123.154	-41.806	0.00200.66		
ATOM	50967	O4' URI	1509	192.173	120.085	-32.443	1.00117.95	Al6S	ATOM	51020	O2' ADE	1511	196.964	123.716	-43.102	0.00200.66		
ATOM	50968	C1' URI	1509	192.157	120.456	-33.817	1.00117.95	Al6S	ATOM	51021	C3' ADE	1511	195.828	122.189	-41.569	0.00200.66		
ATOM	50969	N1 URI	1509	190.768	120.405	-34.302	1.00145.58	Al6S	ATOM	51022	O3' ADE	1511	195.593	121.245	-42.620	0.00200.66		
ATOM	50970	C6 URI	1509	189.705	120.653	-33.462	1.00145.58	Al6S	ATOM	51023	ZN+2 ZN2	190	216.794	127.655	24.827	0.86 40.90		
ATOM	50971	C2 URI	1509	190.563	120.122	-35.641	1.00145.58	Al6S	ATOM	51024	ZN+2 ZN2	300	154.444	113.548	39.567	1.03 40.90		
ATOM	50972	O2 URI	1509	191.471	119.871	-36.413	1.00145.58	Al6S	END									
ATOM	50973	N3 URI	1509	189.253	120.141	-36.043	1.00145.58	Al6S										
ATOM	50974	C4 URI	1509	188.149	120.401	-35.261	1.00145.58	Al6S										
ATOM	50975	O4 URI	1509	187.034	120.432	-35.784	1.00145.58	Al6S										
ATOM	50976	C5 URI	1509	188.440	120.662	-33.884	1.00145.58	Al6S										
ATOM	50977	C2' URI	1509	192.702	121.882	-33.878	1.00117.95	Al6S										
ATOM	50978	O2' URI	1509	194.111	121.835	-33.975	1.00117.95	Al6S										
ATOM	50979	C3' URI	1509	192.219	122.422	-32.540	1.00117.95	Al6S										
ATOM	50980	O3' URI	1509	192.885	123.620	-32.149	1.00117.95	Al6S										
ATOM	50981	P	CYT	1510	192.290	125.043	-32.608	1.00147.98	Al6S									
ATOM	50982	O1P	CYT	1510	190.840	125.045	-32.289	1.00200.01	Al6S									
ATOM	50983	O2P	CYT	1510	193.161	126.114	-32.061	1.00200.01	Al6S									
ATOM	50984	O5' CYT	1510	192.456	125.020	-34.196	1.00147.98	Al6S										
ATOM	50985	C5' CYT	1510	191.337	124.806	-35.062	1.00147.98	Al6S										
ATOM	50986	C4' CYT	1510	191.741	125.030	-36.508	1.00147.98	Al6S										
ATOM	50987	O4' CYT	1510	192.358	126.344	-36.612	1.00147.98	Al6S										
ATOM	50988	C1' CYT	1510	193.508	126.272	-37.436	1.00147.98	Al6S										
ATOM	50989	N1 CYT	1510	194.687	126.500	-36.584	1.00200.01	Al6S										
ATOM	50990	C6 CYT	1510	194.538	126.827	-35.263	1.00200.01	Al6S										
ATOM	50991	C2 CYT	1510	195.966	126.379	-37.141	1.00200.01	Al6S										
ATOM	50992	O2 CYT	1510	196.074	126.088	-38.345	1.00200.01	Al6S										
ATOM	50993	N3 CYT	1510	197.051	126.583	-36.354	1.00200.01	Al6S										
ATOM	50994	C4 CYT	1510	196.891	126.899	-35.064	1.00200.01	Al6S										
ATOM	50995	N4 CYT	1510	197.986	127.087	-34.324	1.00200.01	Al6S										
ATOM	50996	C5 CYT	1510	195.601	127.034	-34.475	1.00200.01	Al6S										
ATOM	50997	C2' CYT	1510	193.489	124.903	-38.118	1.00147.98	Al6S										
ATOM	50998	O2' CYT	1510	192.786	124.986	-39.343	1.00147.98	Al6S										
ATOM	50999	C3' CYT	1510	192.770	124.056	-37.076	1.00147.98	Al6S										
ATOM	51000	O3' CYT	1510	192.126	122.939	-37.688	1.00147.98	Al6S										
ATOM	51001	P	ADE	1511	192.990	121.649	-38.112	0.00200.66	Al6S									
ATOM	51002	O1P ADE	1511	192.060	120.691	-38.764	0.00200.66	Al6S										
ATOM	51003	O2P ADE	1511	193.786	121.213	-36.937	0.00200.66	Al6S										
ATOM	51004	O5' ADE	1511	193.994	122.185	-39.226	0.00200.66	Al6S										

TABLE 3 - PAROMOMYCIN

REMARK Written by O version 6.2.1

REMARK Fri Jul 7 22:08:47 2000

CRYST1	1.000	1.000	1.000	90.00	90.00	90.00	90.00
ORIGX1	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
ORIGX2	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000
ORIGX3	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000
SCALE1	1.000000	-0.000026	-0.000026	-0.000026	0.000000	0.000000	0.000000
SCALE2	-0.000000	1.000000	-0.000026	-0.000026	0.000000	0.000000	0.000000
SCALE3	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000
ATOM 1	C1	PAR	1	190.461	87.836	-9.287	1.00 0.00 0.00 6
ATOM 2	O1	PAR	1	191.311	89.006	-9.399	1.00 0.00 0.00 8
ATOM 3	C2	PAR	1	189.206	88.140	-8.388	1.00 0.00 0.00 6
ATOM 4	N2	PAR	1	188.589	89.472	-8.620	1.00 0.00 0.00 7
ATOM 5	C3	PAR	1	189.553	88.079	-6.889	1.00 0.00 0.00 6
ATOM 6	O3	PAR	1	188.370	88.092	-6.094	1.00 0.00 0.00 8
ATOM 7	C4	PAR	1	190.374	86.823	-6.563	1.00 0.00 0.00 6
ATOM 8	O4	PAR	1	190.649	86.762	-5.167	1.00 0.00 0.00 8
ATOM 9	C5	PAR	1	191.658	86.770	-7.422	1.00 0.00 0.00 6
ATOM 10	O5	PAR	1	191.237	86.706	-8.800	1.00 0.00 0.00 8
ATOM 11	C6	PAR	1	192.547	85.558	-7.145	1.00 0.00 0.00 6
ATOM 12	O6	PAR	1	193.041	84.937	-8.368	1.00 0.00 0.00 8
ATOM 13	C1	PAR	2	193.694	90.874	-12.406	1.00 0.00 0.00 6
ATOM 14	N1	PAR	2	194.599	91.200	-13.522	1.00 0.00 0.00 7
ATOM 15	C6	PAR	2	192.392	90.164	-12.889	1.00 0.00 0.00 6
ATOM 16	O6	PAR	2	191.687	90.991	-13.811	1.00 0.00 0.00 8
ATOM 17	C5	PAR	2	191.447	89.843	-11.695	1.00 0.00 0.00 6
ATOM 18	O5	PAR	2	190.337	89.034	-12.184	1.00 0.00 0.00 8
ATOM 19	C4	PAR	2	192.185	89.074	-10.550	1.00 0.00 0.00 6
ATOM 20	C3	PAR	2	193.515	89.767	-10.114	1.00 0.00 0.00 6
ATOM 21	N3	PAR	2	194.240	88.967	-9.102	1.00 0.00 0.00 7
ATOM 22	C2	PAR	2	194.432	90.014	-11.340	1.00 0.00 0.00 6
ATOM 23	C1	PAR	3	189.190	89.081	-13.073	1.00 0.00 0.00 6
ATOM 24	C2	PAR	3	188.912	87.770	-13.832	1.00 0.00 0.00 6
ATOM 25	O2	PAR	3	189.440	87.870	-15.175	1.00 0.00 0.00 8
ATOM 26	C3	PAR	3	187.410	87.687	-13.844	1.00 0.00 0.00 6
ATOM 27	O4	PAR	3	186.990	88.363	-12.544	1.00 0.00 0.00 6
ATOM 28	O4	PAR	3	187.939	89.416	-12.445	1.00 0.00 0.00 8
ATOM 29	C5	PAR	3	187.217	87.521	-11.488	1.00 0.00 0.00 6
ATOM 30	O5	PAR	3	186.688	88.126	-10.265	1.00 0.00 0.00 8
ATOM 31	C4	PAR	4	184.462	90.435	-17.095	1.00 0.00 0.00 6
ATOM 32	O4	PAR	4	183.965	91.560	-16.991	1.00 0.00 0.00 8
ATOM 33	C3	PAR	4	185.961	90.584	-16.964	1.00 0.00 0.00 6
ATOM 34	O3	PAR	4	186.394	91.481	-17.969	1.00 0.00 0.00 8
ATOM 35	C2	PAR	4	186.803	89.409	-16.757	1.00 0.00 0.00 6
ATOM 36	N2	PAR	4	188.253	89.680	-16.667	1.00 0.00 0.00 7
ATOM 37	C1	PAR	4	186.232	88.525	-15.734	1.00 0.00 0.00 6
ATOM 38	O4	PAR	4	186.759	88.952	-14.460	1.00 0.00 0.00 8
ATOM 39	C5	PAR	4	183.986	89.545	-15.971	1.00 0.00 0.00 6
ATOM 40	O5	PAR	4	184.795	88.366	-15.730	1.00 0.00 0.00 8
ATOM 41	C6	PAR	4	183.584	90.341	-14.803	1.00 0.00 0.00 6
ATOM 42	N6	PAR	4	182.738	89.523	-14.052	1.00 0.00 0.00 7

TABLE 4 - SPECTINOMYCIN

REMARK Written by O version 6.2.1

REMARK Mon Jul 3 14:36:04 2000

CRYST1	1.000	1.000	1.000	90.00	90.00	90.00	0.00000	0.00000	0.00000	
ORIGX1	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
ORIGX2	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
ORIGX3	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
SCALE1	1.000000	-0.000026	-0.000026	-0.000026	-0.000026	-0.000026	0.000000	0.000000	0.000000	
SCALE2	0.000000	1.000000	-0.000026	-0.000026	-0.000026	-0.000026	0.000000	0.000000	0.000000	
SCALE3	0.000000	0.000000	1.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
ATOM	1	C10	SPC	1	198.994	128.468	-4.902	1.00	0.00	6
ATOM	2	C9	SPC	1	200.373	129.103	-5.073	1.00	0.00	6
ATOM	3	C8	SPC	1	200.771	129.209	-6.563	1.00	0.00	6
ATOM	4	C7	SPC	1	199.682	129.943	-7.374	1.00	0.00	6
ATOM	5	C6	SPC	1	198.265	129.356	-7.181	1.00	0.00	6
ATOM	6	C5	SPC	1	197.957	129.280	-5.666	1.00	0.00	6
ATOM	7	O10	SPC	1	198.640	128.476	-3.531	1.00	0.00	8
ATOM	8	C1	SPC	1	197.361	127.961	-3.275	1.00	0.00	6
ATOM	9	C4a	SPC	1	196.304	128.606	-4.138	1.00	0.00	6
ATOM	10	O5	SPC	1	196.680	128.702	-5.480	1.00	0.00	8
ATOM	11	C4	SPC	1	195.038	127.800	-4.108	1.00	0.00	6
ATOM	12	O4	SPC	1	193.959	128.344	-4.057	1.00	0.00	8
ATOM	13	C3	SPC	1	195.212	126.298	-4.187	1.00	0.00	6
ATOM	14	C2	SPC	1	196.377	125.844	-3.295	1.00	0.00	6
ATOM	15	O1	SPC	1	197.533	126.605	-3.590	1.00	0.00	8
ATOM	16	O4a	SPC	1	196.032	129.908	-3.714	1.00	0.00	8
ATOM	17	C2a	SPC	1	196.701	124.357	-3.530	1.00	0.00	6
ATOM	18	N6	SPC	1	197.300	130.251	-7.797	1.00	0.00	7
ATOM	19	C6a	SPC	1	196.625	129.687	-8.958	1.00	0.00	6
ATOM	20	O7	SPC	1	199.716	131.298	-6.985	1.00	0.00	8
ATOM	21	N8	SPC	1	202.032	129.922	-6.637	1.00	0.00	7
ATOM	22	O9	SPC	1	201.330	128.312	-4.410	1.00	0.00	8
ATOM	23	C8a	SPC	1	202.700	129.827	-7.918	1.00	0.00	6
END										

TABLE 5 - STREPTINOMYCIN

REMARK Written by O version 6.2.1

REMARK Wed Jul 5 01:55:58 2000

CRYST1	1.000	1.000	1.000	1.000	90.00	90.00	90.00	
ORIGX1	1.000000	0.000000	0.000000	0.000000			0.00000	
ORIGX2	0.000000	1.000000	0.000000	0.000000			0.00000	
ORIGX3	0.000000	0.000000	1.000000	0.000000			0.00000	
SCALE1	1.000000	-0.000026	-0.000026	0.000026			0.00000	
SCALE2	0.000000	1.000000	-0.000026	0.000026			0.00000	
SCALE3	0.000000	0.000000	1.000000	0.000000			0.00000	
1 O6 STR	1	181.555	102.493			1.00	0.00	8
2 C6 STR	1	182.135	101.868			-5.817	1.00	0.00
3 C5 STR	1	181.233	102.064			-4.571	1.00	0.00
4 C4 STR	1	181.064	103.569			-4.235	1.00	0.00
5 C3 STR	1	180.090	103.720			-3.041	1.00	0.00
6 C2 STR	1	178.754	103.009			-3.372	1.00	0.00
7 C1 STR	1	179.035	101.535			-3.758	1.00	0.00
8 O1 STR	1	179.549	100.858			-2.596	1.00	0.00
9 O5 STR	1	179.954	101.471			-4.865	1.00	0.00
10 O4 STR	1	182.345	104.131			-3.903	1.00	0.00
11 O3 STR	1	179.869	105.119			-2.798	1.00	0.00
12 N2 STR	1	177.862	103.107			-2.194	1.00	0.00
13 C7 STR	1	176.422	102.861			-2.420	1.00	0.00
14 C2 STR	2	179.057	99.508			-2.784	1.00	0.00
15 C3 STR	2	178.920	98.738			-1.444	1.00	0.00
16 C4 STR	2	179.572	97.374			-1.770	1.00	0.00
17 O4 STR	2	180.688	97.818			-2.547	1.00	0.00
18 C1 STR	2	180.177	98.730			-3.529	1.00	0.00
19 C5 STR	2	180.013	96.567			-0.524	1.00	0.00
20 O3 STR	2	179.667	99.415			-0.416	1.00	0.00
21 C6 STR	2	177.490	98.576			-0.995	1.00	0.00
22 O6 STR	2	176.568	98.465			-1.780	1.00	0.00
23 O1 STR	3	179.565	97.948			-4.617	1.00	0.00
24 C4 STR	3	180.248	97.013			-5.541	1.00	0.00
25 C3 STR	3	179.927	95.686			-4.982	1.00	0.00
26 C2 STR	3	180.560	94.533			-5.902	1.00	0.00
27 C1 STR	3	180.072	94.699			-7.365	1.00	0.00
28 C6 STR	3	180.388	96.128			-7.886	1.00	0.00
29 C5 STR	3	179.756	97.221			-6.976	1.00	0.00
30 N5 STR	3	180.082	98.589			-7.443	1.00	0.00
31 C8 STR	3	179.257	99.084			-8.371	1.00	0.00
32 N7A STR	3	179.361	98.821			-9.614	1.00	0.00
33 N7B STR	3	178.300	99.898			-7.923	1.00	0.00
34 O6 STR	3	179.869	96.259			-9.221	1.00	0.00
35 N1 STR	3	180.704	93.733			-8.297	1.00	0.00
36 C7 STR	3	179.971	92.717			-8.821	1.00	0.00
37 N6A STR	3	179.867	91.466			-8.185	1.00	0.00
38 N6B STR	3	178.921	92.624			-10.014	1.00	0.00
39 O2 STR	3	180.173	93.240			-5.406	1.00	0.00
40 O3 STR	3	180.345	95.466			-3.638	1.00	0.00
ATOM								8
END								

END

Table 6.

(a) Data collection

Data set	Beamline	Resolution limit (Å)	No. of observations	No. of unique reflections	Completeness(%)			<I>/<σ>			R _{int}	
					Overall	Outer shell	Overall	Overall	Outer shell	Overall	Outer shell	Overall
Native	ID14-4+SBC ID-19	3.05	840101	254607	94.0	81.7	12.0	1.8	10.8	49.0		
Os1	SBC ID-19	3.35	1355593	199999	98.4	90.3	16.4	2.4	13.9	59.2		
Os2	ID14-4	4.00	362452	118494	97.4	97.1	8.5	2.3	10.9	38.9		
Os3	ID14-4	4.30	259175	93894	96.4	99.0	6.4	1.7	18.7	53.2		
Os4	X25	4.50	301216	79267	93.9	65.9	11.6	3.3	9.8	22.9		
Lu1	SBC ID-19	3.35	981691	180035	97.5	83.5	16.9	3.4	10.9	37.3		
Lu2	SBC ID-19	3.20	929154	230296	98.1	97.6	10.0	2.1	14.7	60.5		

Os1 = Osmium hexamine chloride; Os2 = Pentaamine(dinitrogen)osmium(II)chloride; Os3 =

Pentaamine(trifluorosulfonato)osmium(III)trifluoromethanesulfonate; Os4 = Osmium bipyridine; Lu1, Lu2 = lutetium chloride.

Table 6.
(b) Phasing

Derivative	Number of sites	R_{cull}	Phasing power
Os1	56	0.69	0.84
Os2	6	0.87	0.20
Os3	49	0.70	0.61
Os4	4	0.94	0.10
Lu1	18	0.78	0.33
Lu2	14	0.77	0.39

Mean figure of merit to 3.35 Å: 0.48 ; figure of merit in outer shell: 0.24

Map correlation with final refined model: before density modification: after density modification:

Table 6.

(c) Refinement

Resolution Range:	99, -3.05 Å
Reflections excluded for crossvalidation:	5%
Number of non-hydrogen atoms:	
Proteins	19198
RNA	32470
Metals	180
R-factor (conventional)	0.213
R-factor (free)	0.256
Cross-validated coordinate error	0.45 Å
Deviations from ideality:	
R.m.s. deviations in bond lengths	0.007 Å
R.m.s. deviations in bond angles	1.27 degs

Table 7. Summary of crystallographic data

(a) Data collection

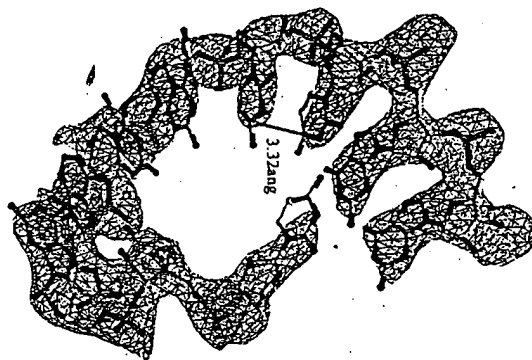
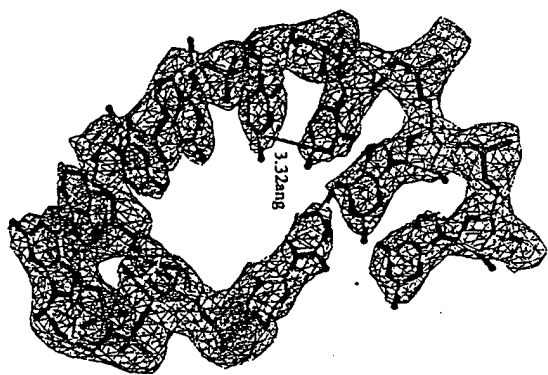
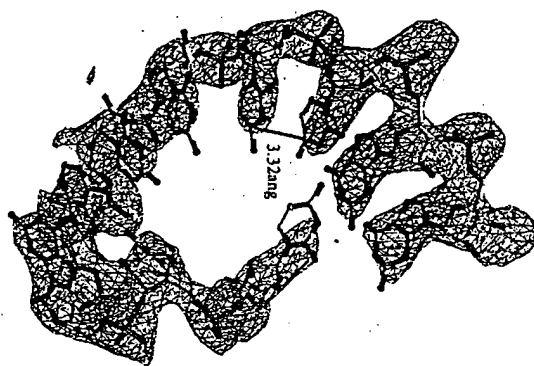
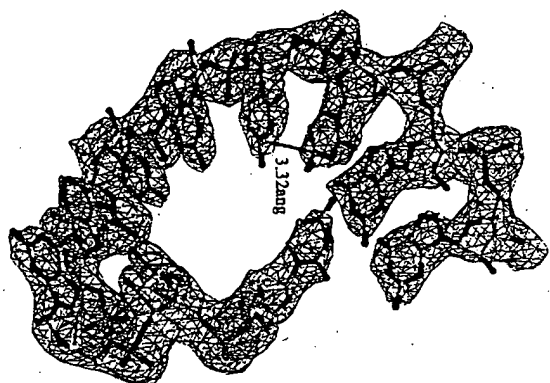
Beamline	Resolution limit (Å)	No. of observations	No. of unique reflections	Completeness(%)		$\langle I \rangle / \langle \sigma \rangle$		$R_{sym}(\%)$	
				Overall	Outer shell	Overall	Outer shell	Overall	Outer shell
ID14-4	3.0	1169437	259920	91.1	50.9*	13.7	2.3*	9.6	37.2*

*Completeness = 94.8%, $\langle I \rangle / \langle \sigma \rangle = 4.9$ and $R_{sym} = 30\%$ in the penultimate shell (3.1-3.2 Å).

(b) Refinement

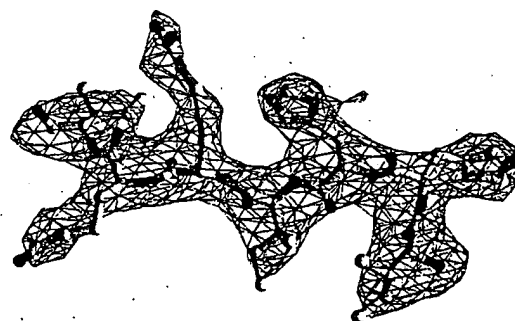
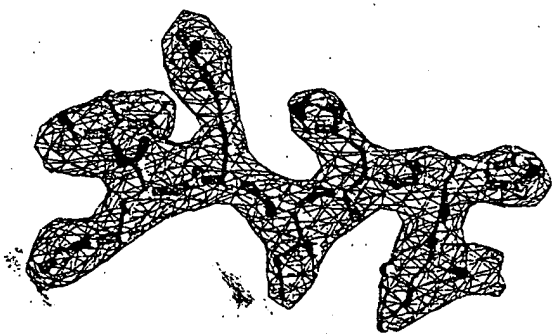
Resolution Range:	99. – 3.0 Å
Reflections excluded for crossvalidation:	5%
Number of non-hydrogen atoms:	
Proteins	19198
RNA	32470
Metals	2
R-factor (conventional)	0.24
R-factor (free)	0.28
Cross-validated coordinate error	0.47Å
Deviations from ideality:	
R.m.s. deviations in bond lengths	0.007Å
R.m.s. deviations in bond angles	1.36 degs.

Figure 1/19



a

b

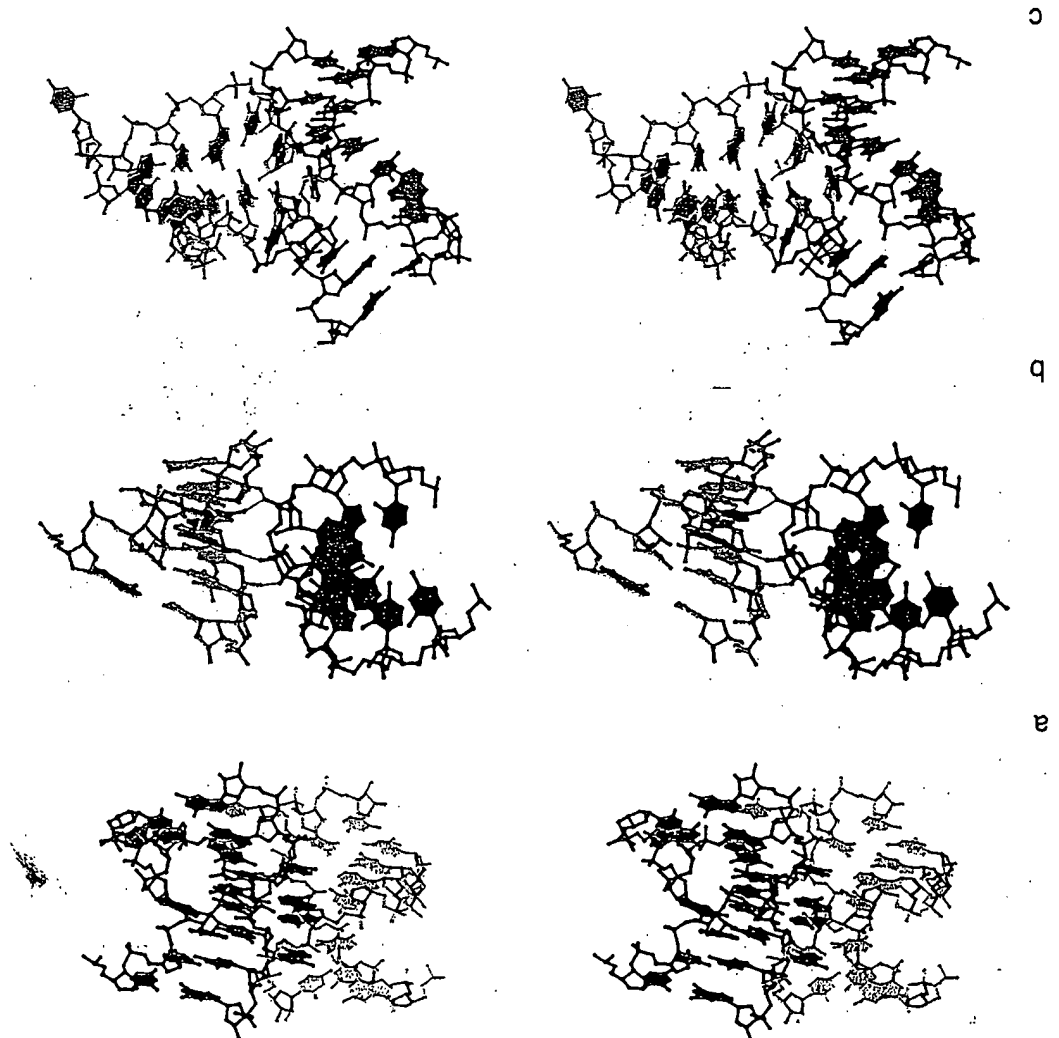


c

d

Figure 2/19





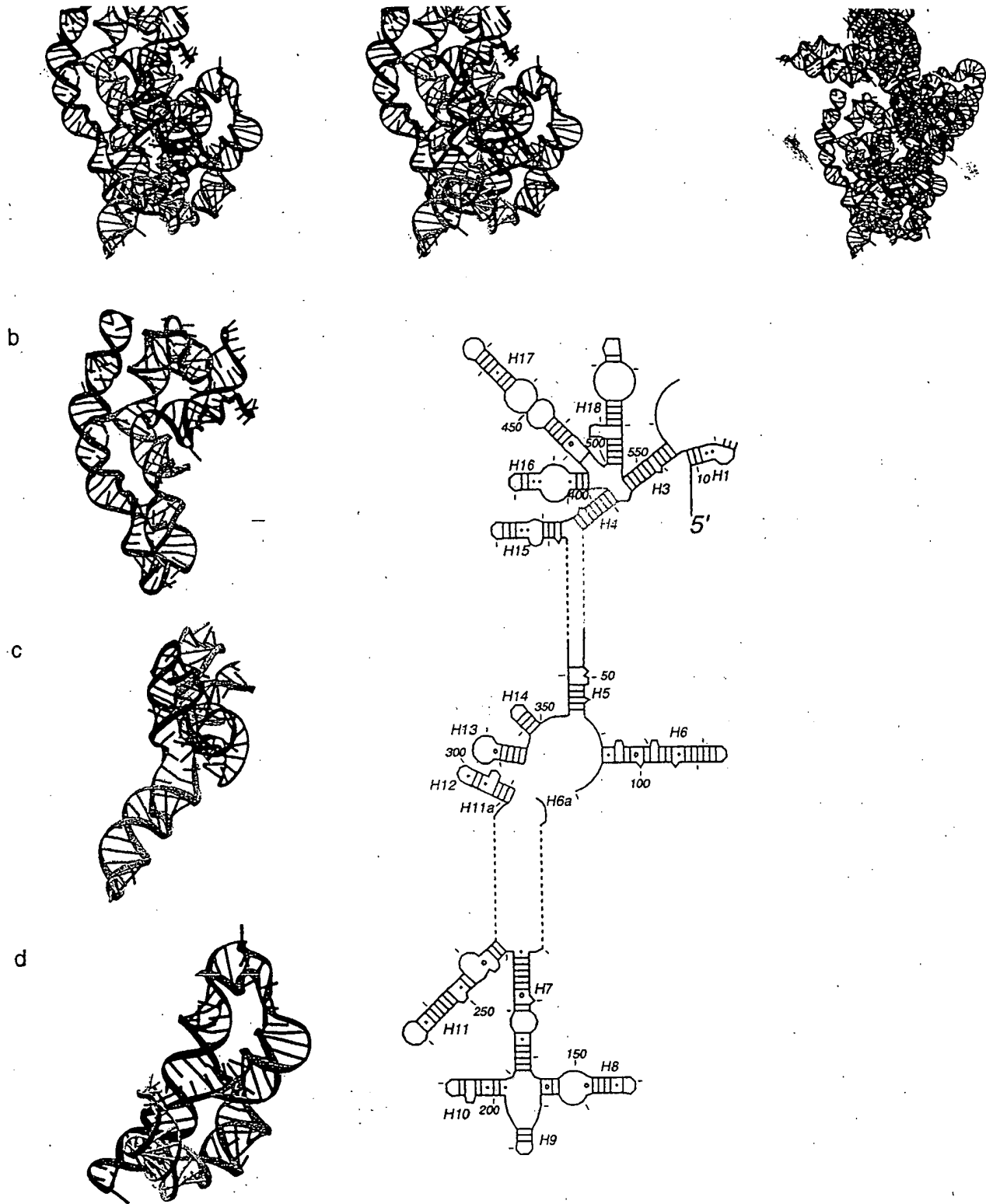


Figure 4/19

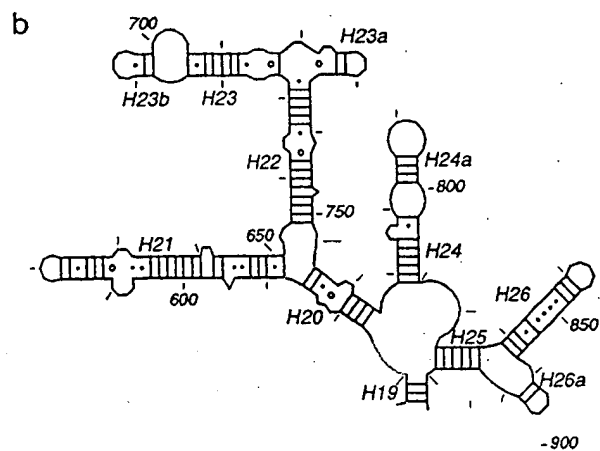
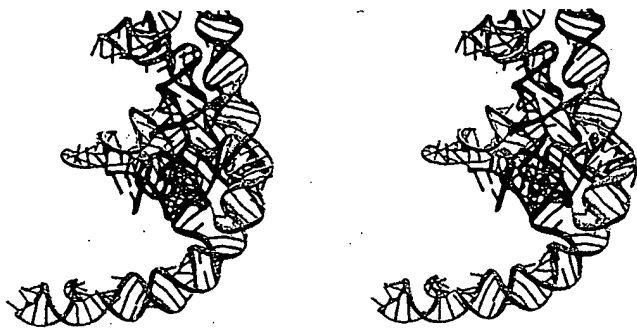


Figure 5/19

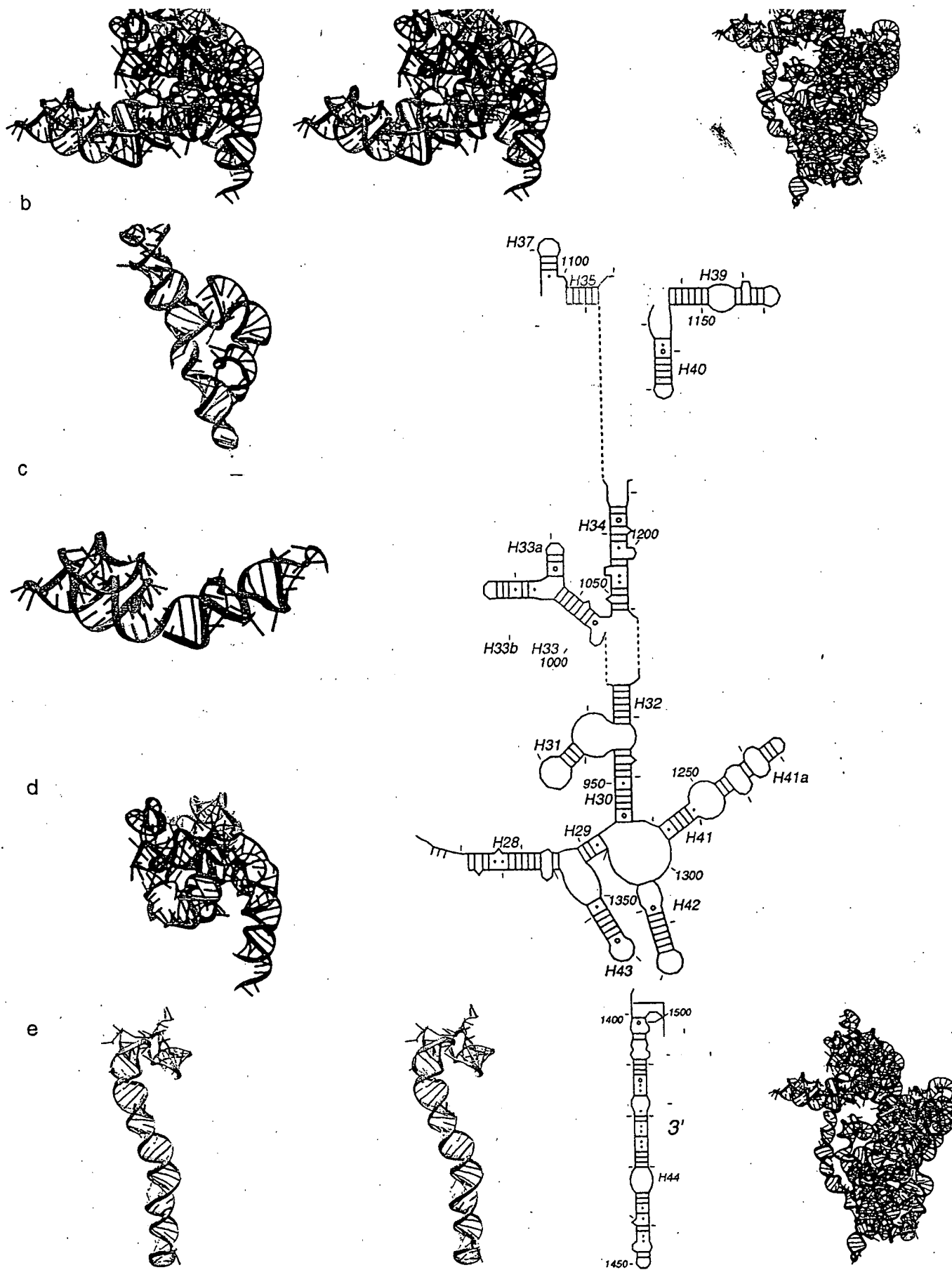


Figure 6/19

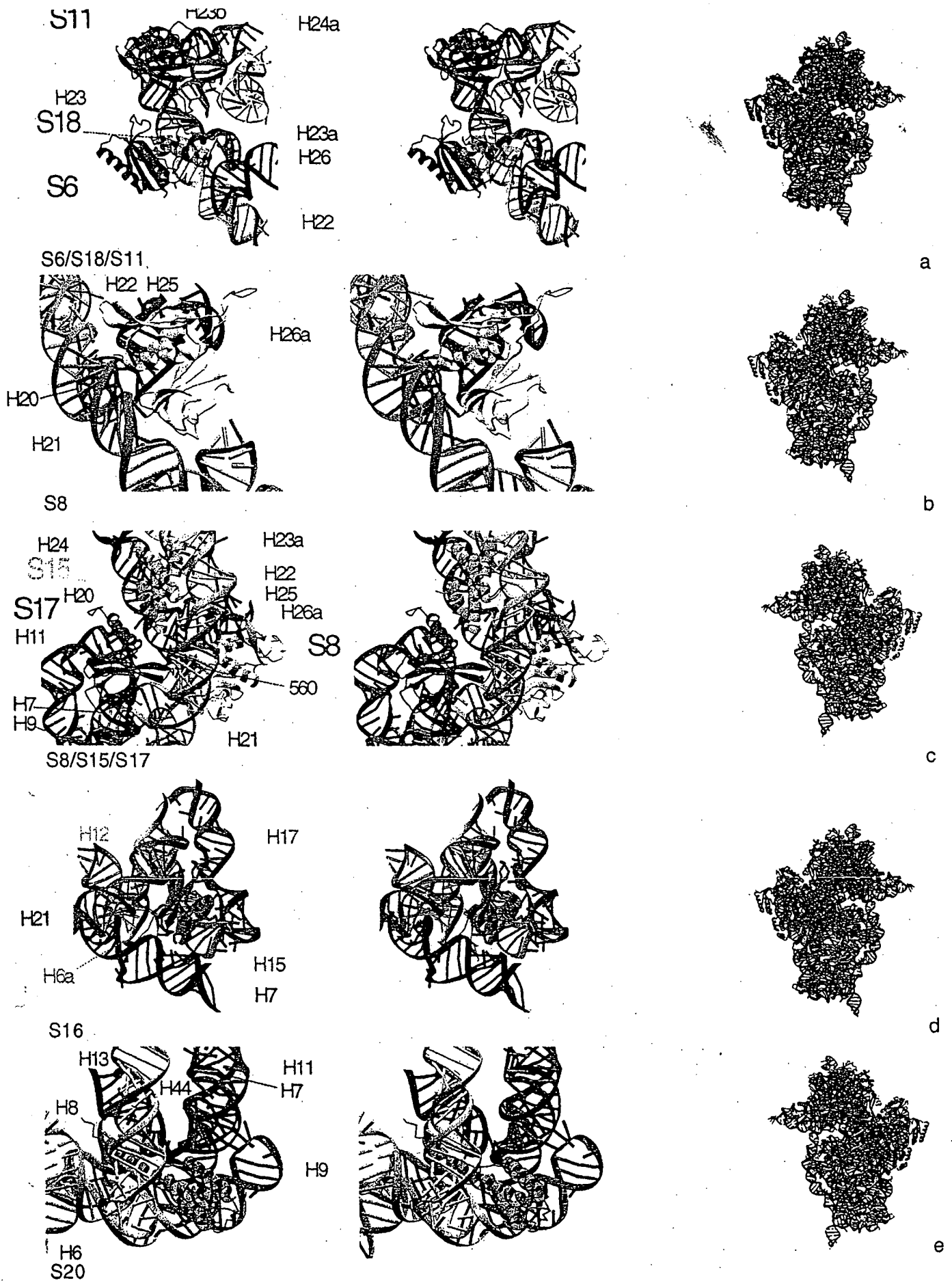


Figure 7/19

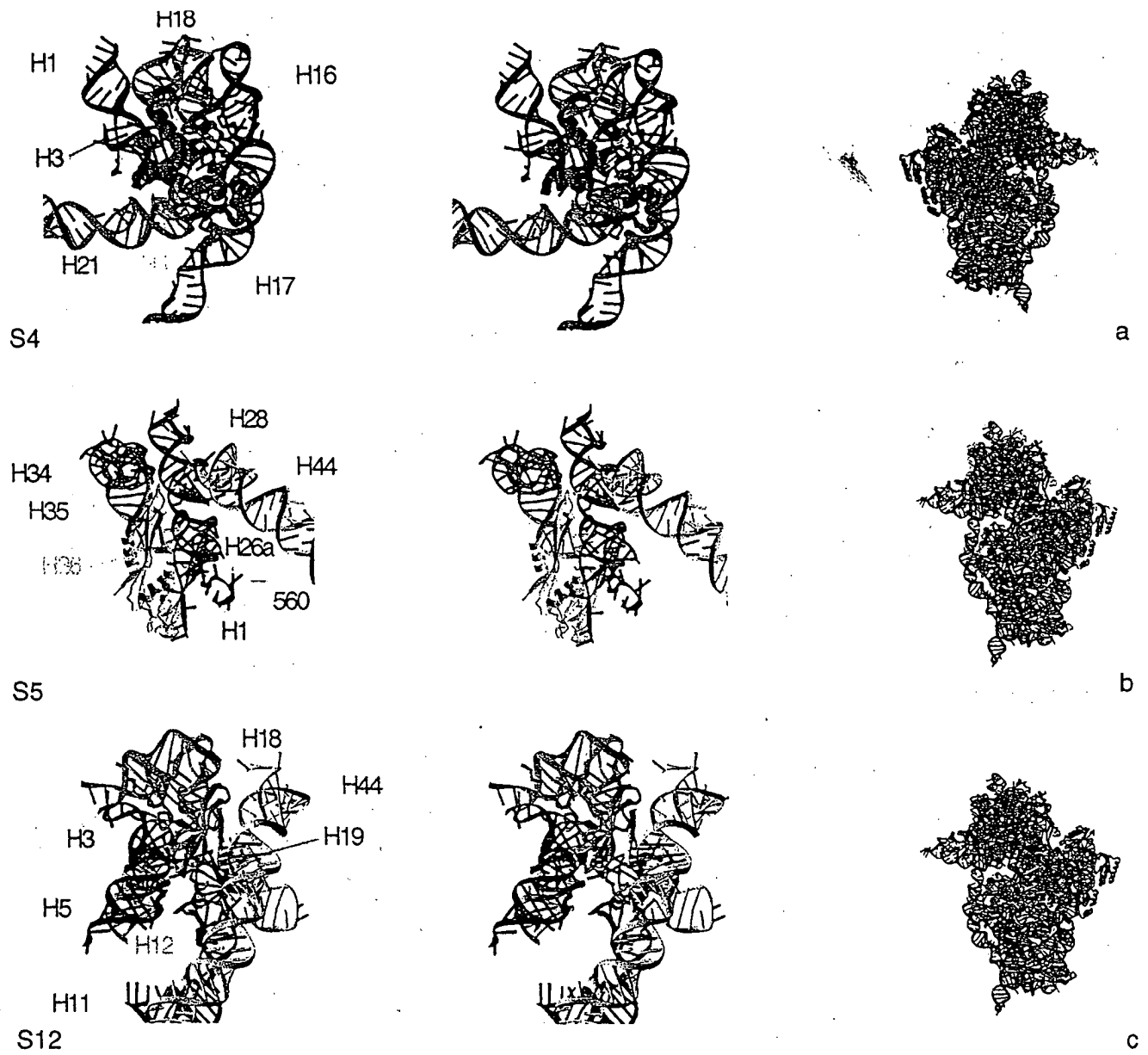


Figure 8/19

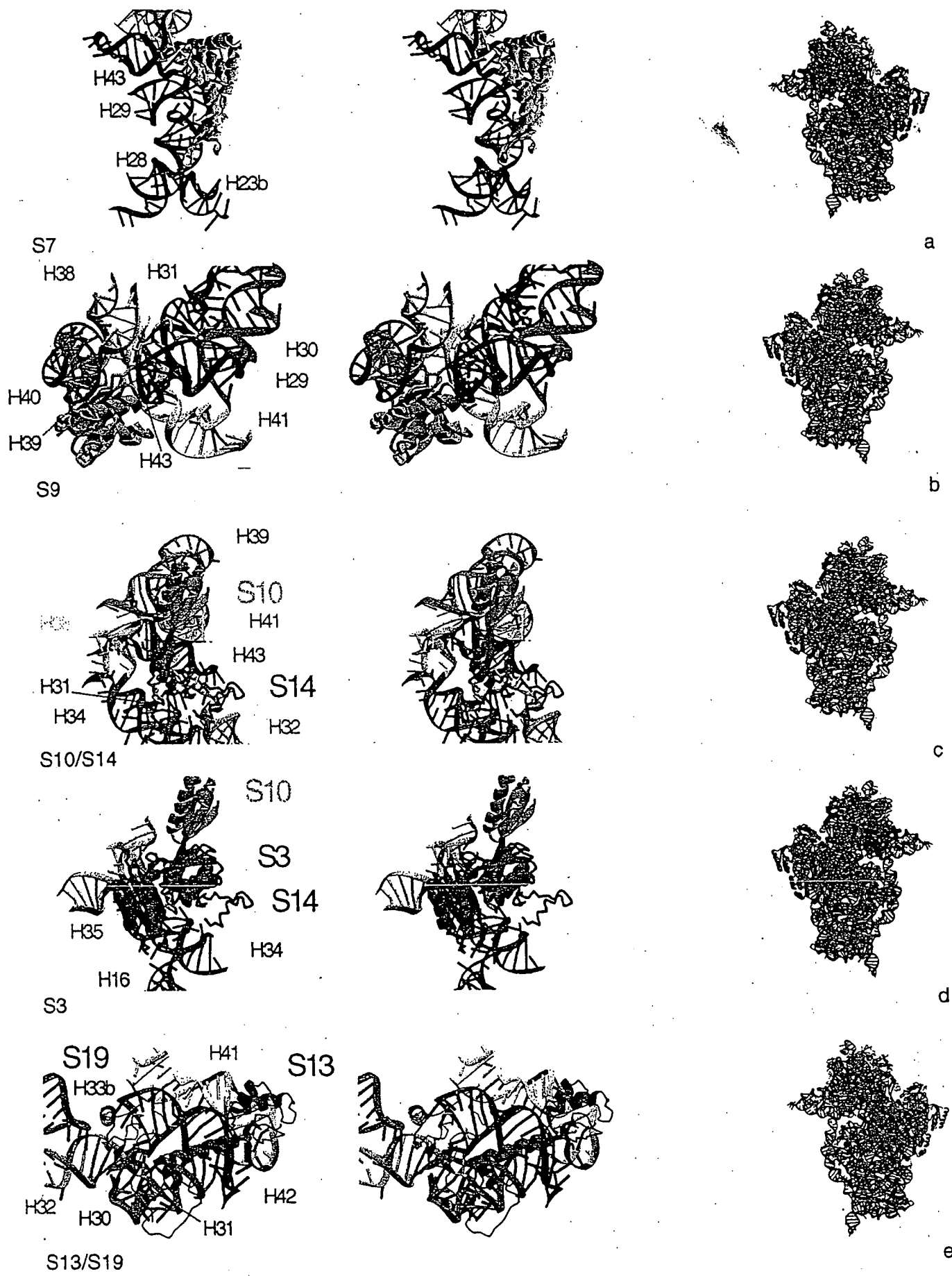
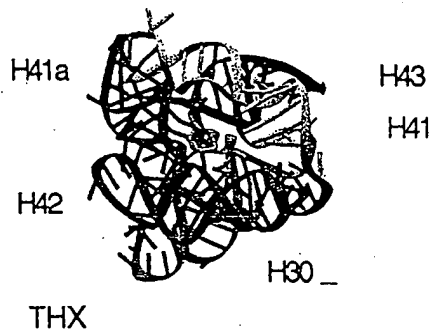


Figure 9/19

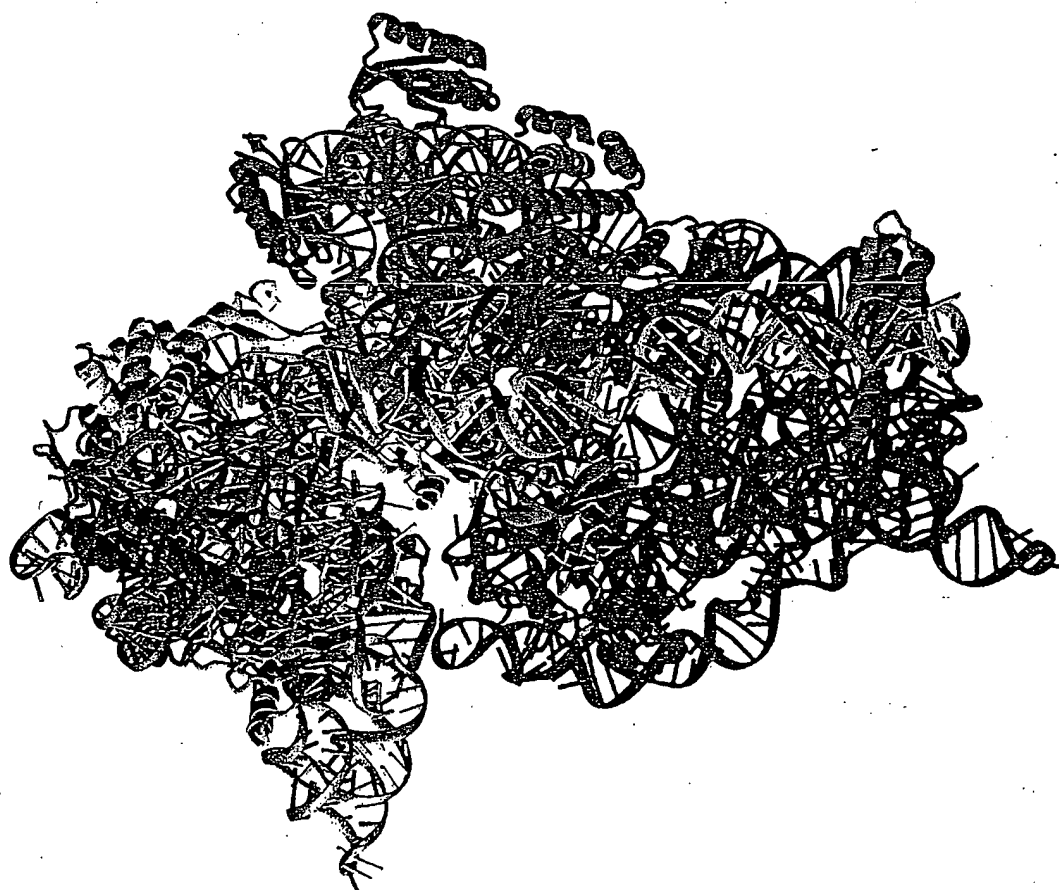


S2



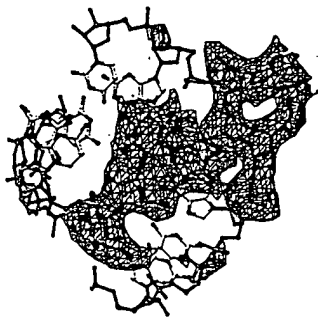
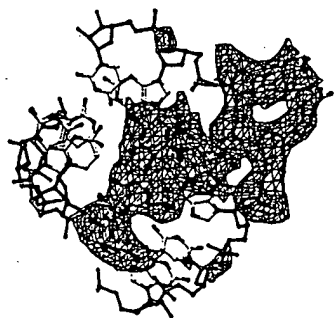


b

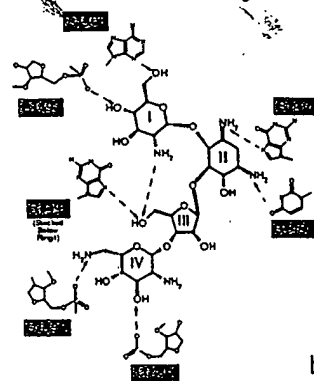


a

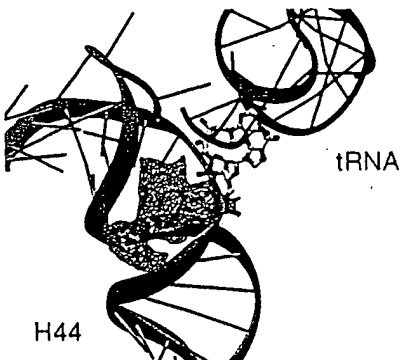
Figure 11/19



a

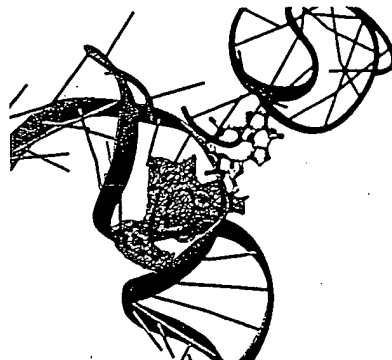


b



tRNA

H44

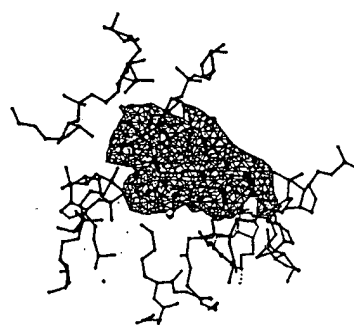
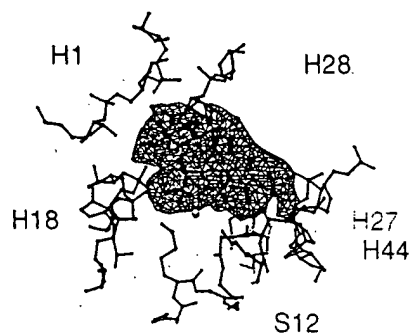


c

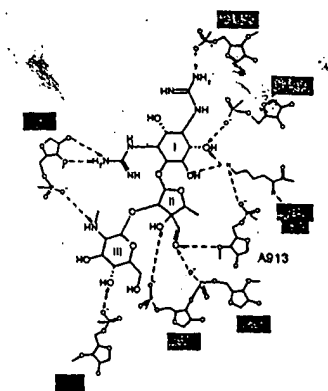


d

Figure 12/19



a



b



c



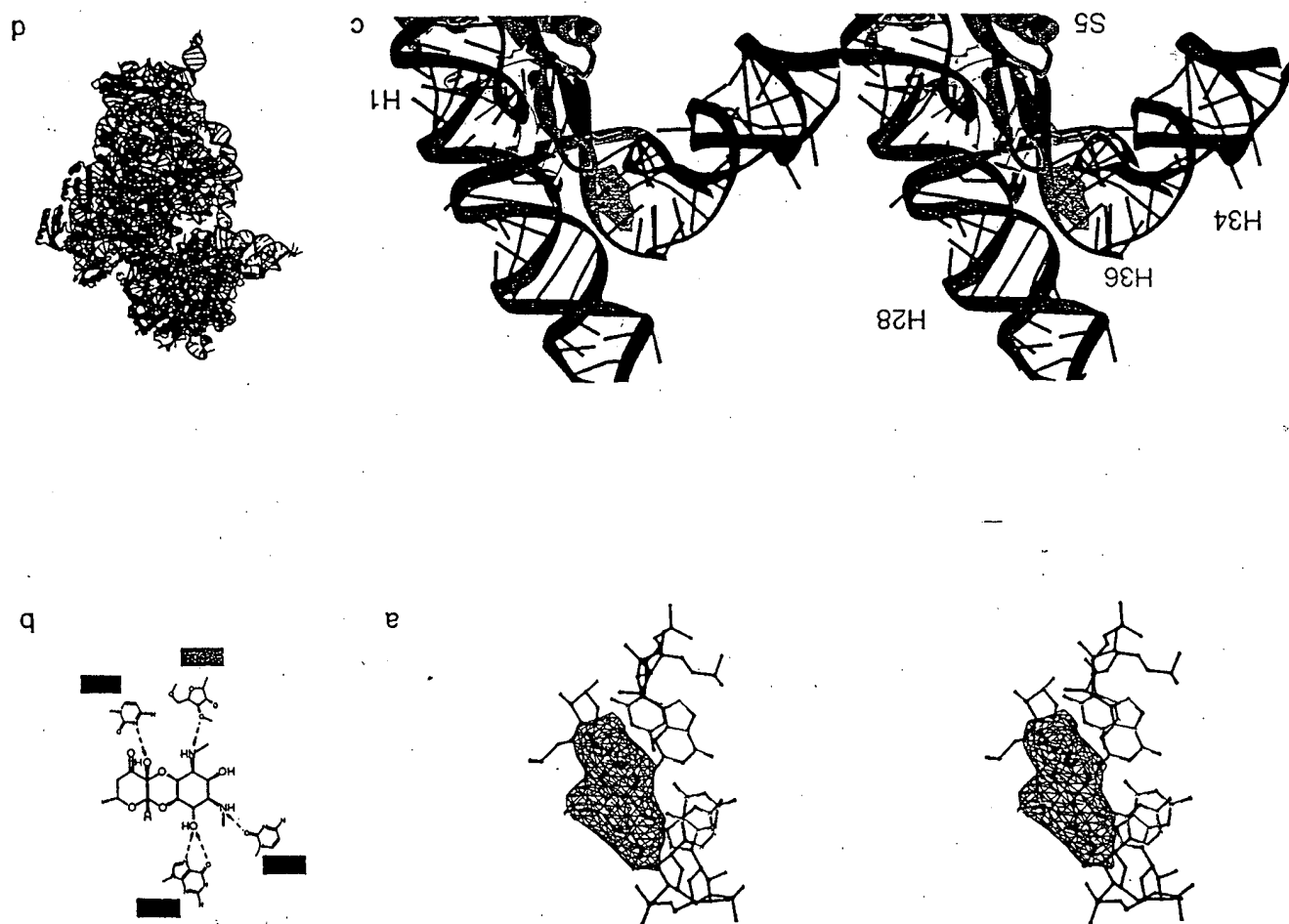
d

Figure 13/19



Figure 14/19

Figure 15/19



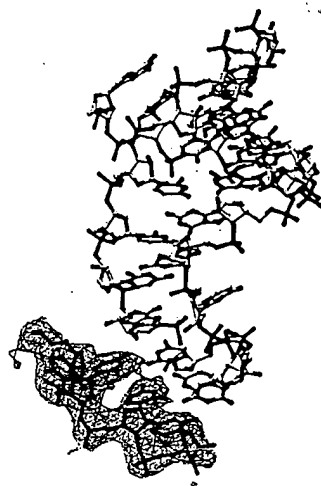
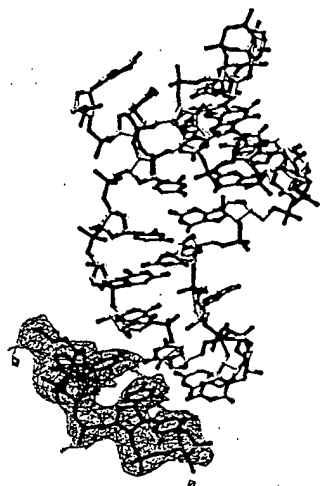


a

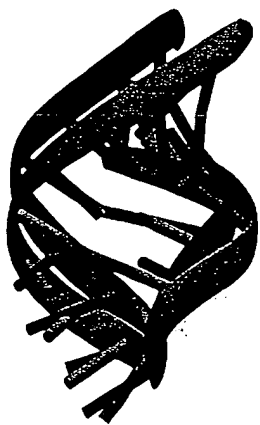


b

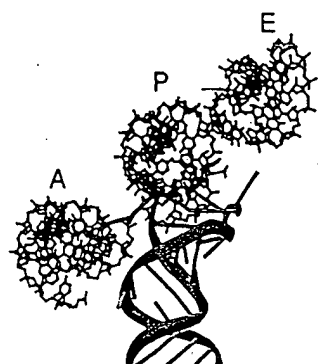
Figure 16/19



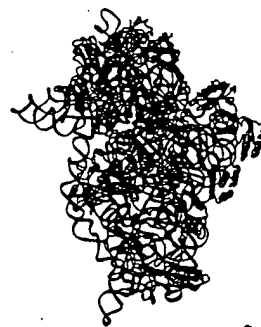
a



b

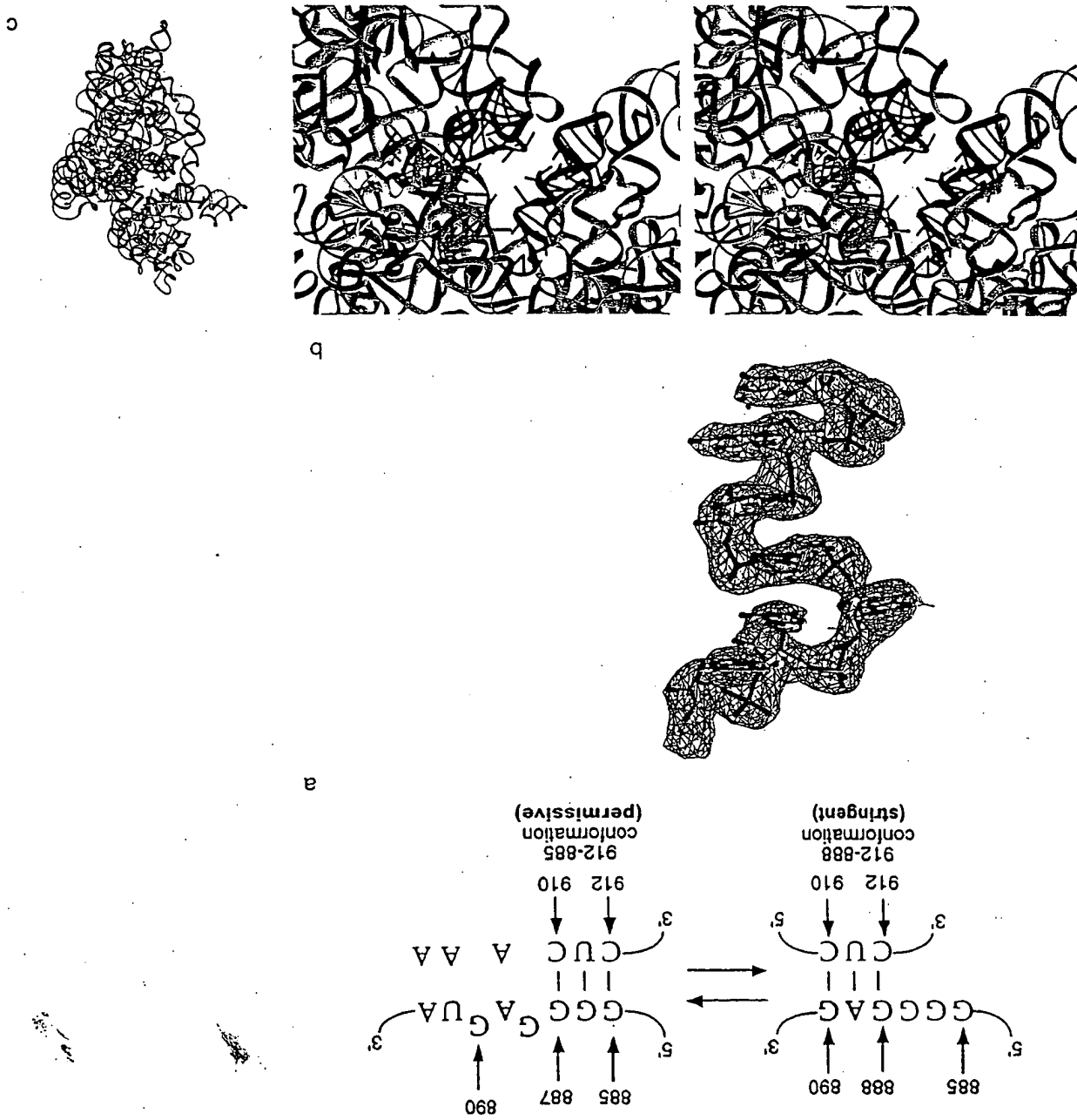


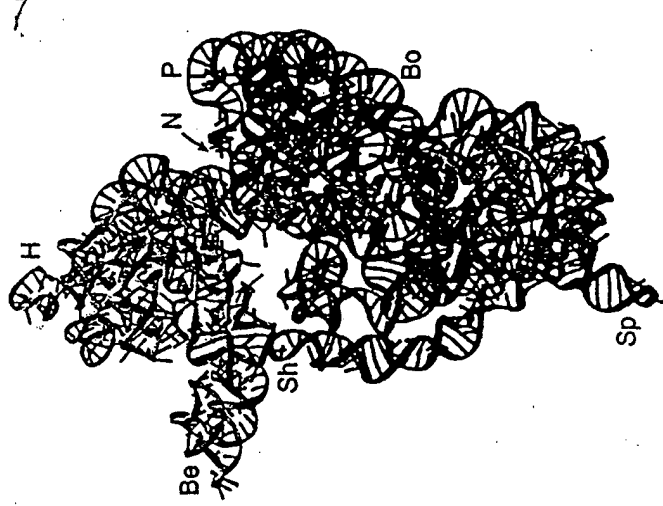
b



c

Figure 19/19

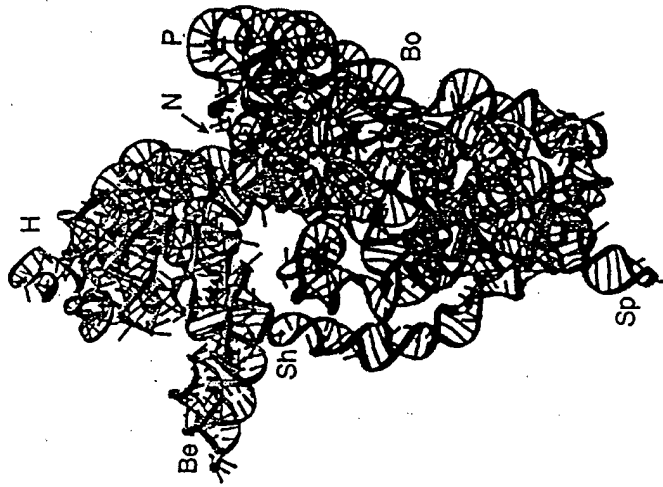




d

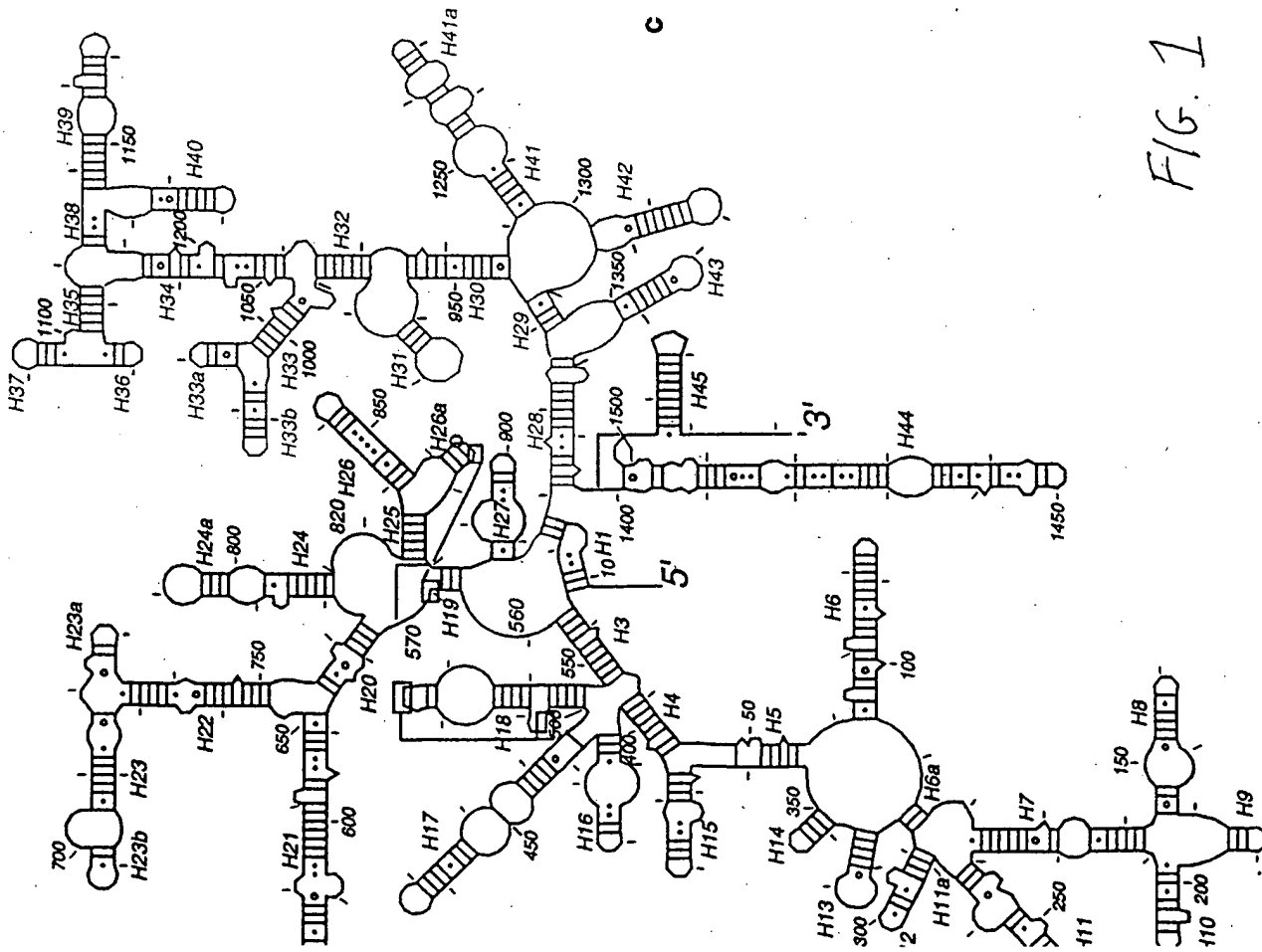


Back



Front

b



c

FIG. 1

1/5

ATOM	33038	C2' GUA	644	154.030	126.811	-66.021	1.00	73.41	Al6S	ATOM	33091	C5' GUA	647	166.621	120.999	-61.127	1.00	50.90	Al6E
ATOM	33039	C2' GUA	644	154.242	128.184	-65.764	1.00	73.41	Al6S	ATOM	33092	C4' GUA	647	166.410	119.736	-60.349	1.00	50.90	Al6E
ATOM	33040	C3' GUA	644	154.246	126.385	-67.465	1.00	73.41	Al6S	ATOM	33093	O4' GUA	647	165.002	119.479	-60.156	1.00	50.90	Al6E
ATOM	33041	O3' GUA	644	155.338	126.888	-66.186	1.00	73.41	Al6S	ATOM	33094	C1' GUA	647	164.791	118.085	-60.071	1.00	50.90	Al6E
ATOM	33042	P GUA	645	156.451	125.856	-68.706	1.00	82.65	Al6S	ATOM	33095	N9 GUA	647	163.786	117.697	-61.051	1.00	48.01	Al6E
ATOM	33043	OLP GUA	645	157.436	126.701	-69.441	1.00	45.66	Al6S	ATOM	33096	C4 GUA	647	162.944	116.611	-60.964	1.00	48.01	Al6E
ATOM	33044	OLP GUA	645	155.809	124.692	-63.397	1.00	45.66	Al6S	ATOM	33097	N3 GUA	647	162.864	115.747	-59.928	1.00	48.01	Al6E
ATOM	33045	O2' GUA	645	157.092	125.370	-67.333	1.00	82.65	Al6S	ATOM	33098	C2 GUA	647	162.001	114.774	-60.161	1.00	48.01	Al6E
ATOM	33046	C5' GUA	645	157.387	126.365	-66.342	1.00	82.65	Al6S	ATOM	33099	N2 GUA	647	161.810	113.814	-59.245	1.00	48.01	Al6E
ATOM	33047	C4' GUA	645	157.830	125.767	-65.035	1.00	82.65	Al6S	ATOM	33100	N1 GUA	647	161.268	114.666	-61.310	1.00	48.01	Al6E
ATOM	33048	O4' GUA	645	156.754	125.109	-64.332	1.00	82.65	Al6S	ATOM	33101	C6 GUA	647	161.328	115.547	-62.383	1.00	48.01	Al6E
ATOM	33049	C1' GUA	645	157.316	124.300	-63.322	1.00	82.65	Al6S	ATOM	33102	O6 GUA	647	160.624	115.352	-63.379	1.00	48.01	Al6E
ATOM	33050	N9 GUA	645	156.742	122.963	-63.381	1.00	45.66	Al6S	ATOM	33103	C5 GUA	647	162.251	116.592	-62.149	1.00	48.01	Al6E
ATOM	33051	C4 GUA	645	156.770	122.046	-62.359	1.00	45.66	Al6S	ATOM	33104	N7 GUA	647	162.611	117.667	-62.946	1.00	48.01	Al6E
ATOM	33052	N3 GUA	645	157.306	122.245	-61.130	1.00	45.66	Al6S	ATOM	33105	C8 GUA	647	163.516	118.299	-62.249	1.00	48.01	Al6E
ATOM	33053	C2 GUA	645	157.183	121.177	-60.360	1.00	45.66	Al6S	ATOM	33106	C2' GUA	647	166.134	117.392	-60.309	1.00	50.90	Al6E
ATOM	33054	N2 GUA	645	157.666	121.195	-59.114	1.00	45.66	Al6S	ATOM	33107	O2' GUA	647	166.698	117.049	-59.062	1.00	50.90	Al6E
ATOM	33055	N1 GUA	645	156.577	120.011	-60.756	1.00	45.66	Al6S	ATOM	33108	C3' GUA	647	166.928	118.483	-61.014	1.00	50.90	Al6E
ATOM	33056	O6 GUA	645	156.011	119.783	-62.008	1.00	45.66	Al6S	ATOM	33109	O3' GUA	647	168.324	118.375	-60.789	1.00	50.90	Al6E
ATOM	33057	C6 GUA	645	155.470	118.690	-62.252	1.00	45.66	Al6S	ATOM	33110	P ADE	648	169.282	117.811	-61.950	1.00	39.27	Al6E
ATOM	33058	O5 GUA	645	156.147	120.923	-62.857	1.00	45.66	Al6S	ATOM	33111	OLP ADE	648	170.194	118.914	-62.340	1.00	39.27	Al6E
ATOM	33059	N7 GUA	645	155.732	121.130	-64.166	1.00	45.66	Al6S	ATOM	33112	O2P ADE	648	168.438	117.152	-62.993	1.00	39.27	Al6E
ATOM	33060	C8 GUA	645	156.099	122.355	-64.432	1.00	45.66	Al6S	ATOM	33113	O5' ADE	648	170.139	116.703	-61.186	1.00	58.52	Al6E
ATOM	33061	O2' GUA	645	158.828	124.263	-63.553	1.00	82.65	Al6S	ATOM	33114	C5' ADE	648	170.692	115.604	-61.905	1.00	58.52	Al6E
ATOM	33062	C2' GUA	645	159.406	125.167	-62.636	1.00	82.65	Al6S	ATOM	33115	C4' ADE	648	170.900	114.416	-61.001	1.00	58.52	Al6E
ATOM	33063	C3' GUA	645	158.941	124.746	-64.996	1.00	82.65	Al6S	ATOM	33116	O4' ADE	648	172.039	114.550	-60.216	1.00	58.52	Al6E
ATOM	33064	O3' GUA	645	160.202	125.339	-65.234	1.00	55.58	Al6S	ATOM	33117	C1' ADE	648	172.512	114.283	-57.927	1.00	39.27	Al6E
ATOM	33065	P ADE	646	161.402	124.443	-65.816	1.00	48.65	Al6S	ATOM	33118	N9 ADE	648	173.137	113.633	-56.890	1.00	39.27	Al6E
ATOM	33066	OLP ADE	646	162.339	125.383	-66.474	1.00	48.65	Al6S	ATOM	33119	C4 ADE	648	173.439	112.325	-56.812	1.00	39.27	Al6E
ATOM	33067	O2P ADE	646	160.856	123.295	-66.576	1.00	48.65	Al6S	ATOM	33120	N3 ADE	648	174.053	112.048	-55.663	1.00	39.27	Al6E
ATOM	33068	O5' ADE	646	162.122	123.886	-64.513	1.00	55.58	Al6S	ATOM	33121	C2 ADE	648	174.366	112.863	-54.655	1.00	39.27	Al6E
ATOM	33069	C5' ADE	646	162.621	124.801	-63.517	1.00	55.58	Al6S	ATOM	33122	N1 ADE	648	174.038	114.171	-54.757	1.00	39.27	Al6E
ATOM	33070	O4' ADE	646	162.921	124.077	-62.224	1.00	55.58	Al6S	ATOM	33123	C6 ADE	648	174.331	114.981	-53.738	1.00	39.27	Al6E
ATOM	33071	C1' ADE	646	161.699	123.664	-61.561	1.00	55.58	Al6S	ATOM	33124	N6 ADE	648	172.948	115.843	-56.372	1.00	39.27	Al6E
ATOM	33072	C1' ADE	646	161.891	122.406	-60.943	1.00	55.58	Al6S	ATOM	33125	C5 ADE	648	172.435	115.600	-57.553	1.00	39.27	Al6E
ATOM	33073	C4 ADE	646	161.033	121.431	-61.618	1.00	48.65	Al6S	ATOM	33126	N7 ADE	648	170.599	113.143	-59.036	1.00	58.52	Al6E
ATOM	33074	C4 ADE	646	160.561	120.251	-61.095	1.00	48.65	Al6S	ATOM	33127	C8 ADE	648	170.583	111.813	-59.500	1.00	58.52	Al6E
ATOM	33075	N3 ADE	646	160.765	119.764	-59.861	1.00	48.65	Al6S	ATOM	33128	C2' ADE	648	169.847	114.104	-59.959	1.00	58.52	Al6E
ATOM	33076	C2 ADE	646	160.163	118.586	-59.719	1.00	48.65	Al6S	ATOM	33129	O2' ADE	648	168.705	113.473	-60.531	1.00	58.52	Al6E
ATOM	33077	N1 ADE	646	159.444	117.892	-60.603	1.00	48.65	Al6S	ATOM	33130	C3' ADE	648	167.233	113.833	-59.984	1.00	44.38	Al6E
ATOM	33078	C6 ADE	646	158.557	117.710	-62.716	1.00	48.65	Al6S	ATOM	33131	O3' ADE	649	166.461	114.302	-61.159	1.00	49.04	Al6E
ATOM	33079	N6 ADE	646	159.834	119.655	-62.107	1.00	48.65	Al6S	ATOM	33132	P GUA	649	166.344	114.698	-58.786	1.00	44.38	Al6E
ATOM	33080	C5 ADE	646	160.550	121.489	-62.901	1.00	48.65	Al6S	ATOM	33133	OLP GUA	649	166.639	112.429	-59.527	1.00	44.38	Al6E
ATOM	33081	N7 ADE	646	163.368	122.052	-61.097	1.00	55.58	Al6S	ATOM	33134	O2P GUA	649	165.923	111.898	-58.231	1.00	44.38	Al6E
ATOM	33082	C8 ADE	646	164.059	122.548	-59.967	1.00	55.58	Al6S	ATOM	33135	O5' GUA	649	163.629	111.110	-58.171	1.00	44.38	Al6E
ATOM	33083	C2' ADE	646	163.720	122.802	-62.373	1.00	55.58	Al6S	ATOM	33136	C5' GUA	649	163.465	110.437	-60.051	1.00	49.04	Al6E
ATOM	33084	O2' ADE	646	165.096	123.084	-62.522	1.00	55.58	Al6S	ATOM	33137	C4' GUA	649	162.803	109.616	-60.933	1.00	49.04	Al6E
ATOM	33085	C3' ADE	646	166.002	122.108	-63.410	1.00	50.90	Al6S	ATOM	33138	O4' GUA	649	162.354	108.369	-60.675	1.00	49.04	Al6E
ATOM	33086	C3' ADE	647	167.311	122.789	-63.549	1.00	48.01	Al6S	ATOM	33139	C1' GUA	649	161.775	107.827	-61.727	1.00	49.04	Al6E
ATOM	33087	P GUA	647	165.261	121.682	-64.618	1.00	48.01	Al6S	ATOM	33140	N9 GUA	649						
ATOM	33088	OLP GUA	647	166.174	120.835	-62.477	1.00	50.90	Al6S	ATOM	33141	C4 GUA	649						
ATOM	33089	O2P GUA	647							ATOM	33142	N3 GUA	649						
ATOM	33090	O5' GUA	647							ATOM	33143	C2 GUA	649						

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ATOM	32932	O2P	GUA	640	144.774	114.049	-57.431	1.00	51.42	Al6S	ATOM	32985	C6	URI	642	144.256	120.635	-66.259	1.00	68.99	Al6
ATOM	32933	O5P	GUA	640	143.378	113.100	-59.226	1.00	55.47	Al6S	ATOM	32986	C2	URI	642	144.149	122.922	-65.521	1.00	68.99	Al6
ATOM	32934	C5'	GUA	640	142.715	112.051	-59.949	1.00	55.47	Al6S	ATOM	32987	O2	URI	642	143.850	124.101	-65.668	1.00	68.99	Al6
ATOM	32935	C4'	GUA	640	141.613	112.621	-60.806	1.00	55.47	Al6S	ATOM	32988	N3	URI	642	144.758	122.466	-64.381	1.00	68.99	Al6
ATOM	32936	O4'	GUA	640	140.638	113.282	-59.954	1.00	55.47	Al6S	ATOM	32989	O4	URI	642	145.139	121.173	-64.101	1.00	68.99	Al6
ATOM	32937	C1'	GUA	640	140.079	114.385	-60.645	1.00	55.47	Al6S	ATOM	32990	C4	URI	642	145.706	120.927	-63.035	1.00	68.99	Al6
ATOM	32938	N9	GUA	640	140.408	115.619	-59.941	1.00	51.42	Al6S	ATOM	32991	C5	URI	642	144.849	120.227	-65.136	1.00	68.99	Al6
ATOM	32939	C4	GUA	640	140.005	116.873	-60.320	1.00	51.42	Al6S	ATOM	32992	C2'	URI	642	144.266	122.556	-68.876	1.00	58.57	Al6
ATOM	32940	N3	GUA	640	139.212	117.156	-61.369	1.00	51.42	Al6S	ATOM	32993	O2'	URI	642	143.886	123.637	-69.579	1.00	58.57	Al6
ATOM	32941	C3	GUA	640	138.225	118.449	-61.503	1.00	51.42	Al6S	ATOM	32994	C3'	URI	642	144.193	121.207	-69.703	1.00	58.57	Al6
ATOM	32942	N2	GUA	640	139.547	119.403	-60.672	1.00	51.42	Al6S	ATOM	32995	O3'	URI	642	144.641	121.232	-70.915	1.00	58.57	Al6
ATOM	32943	N1	GUA	640	140.377	119.137	-59.584	1.00	51.42	Al6S	ATOM	32996	P	GUA	643	146.191	120.952	-71.227	1.00	63.00	Al6
ATOM	32944	C6	GUA	640	140.833	120.078	-58.902	1.00	51.42	Al6S	ATOM	32997	O1P	GUA	643	146.332	120.957	-72.709	1.00	58.92	Al6
ATOM	32945	O6	GUA	640	140.592	117.735	-59.425	1.00	51.42	Al6S	ATOM	32998	O2P	GUA	643	146.625	119.757	-70.457	1.00	58.92	Al6
ATOM	32946	C5	GUA	640	141.329	117.034	-58.480	1.00	51.42	Al6S	ATOM	32999	O5'	GUA	643	146.910	122.233	-70.614	1.00	63.00	Al6
ATOM	32947	N7	GUA	640	141.187	115.782	-58.823	1.00	55.47	Al6S	ATOM	33000	C5'	GUA	643	146.502	123.539	-71.027	1.00	63.00	Al6
ATOM	32948	C8	GUA	640	140.704	114.426	-62.036	1.00	55.47	Al6S	ATOM	33001	C4'	GUA	643	147.055	124.594	-70.107	1.00	63.00	Al6
ATOM	32949	O2'	GUA	640	139.852	113.777	-62.952	1.00	55.47	Al6S	ATOM	33002	O4'	GUA	643	147.355	124.987	-67.814	1.00	63.00	Al6
ATOM	32950	C2'	GUA	640	142.017	113.697	-61.803	1.00	55.47	Al6S	ATOM	33003	C1'	GUA	643	147.633	123.945	-66.825	1.00	58.92	Al6
ATOM	32951	C3'	GUA	640	142.569	113.192	-63.013	1.00	55.47	Al6S	ATOM	33004	N9	GUA	643	148.251	125.343	-65.132	1.00	58.92	Al6
ATOM	32952	P	GUA	641	143.553	114.127	-63.885	1.00	57.68	Al6S	ATOM	33005	C4	GUA	643	148.651	125.343	-65.132	1.00	58.92	Al6
ATOM	32953	O1P	GUA	641	144.153	113.293	-64.965	1.00	53.24	Al6S	ATOM	33006	N3	GUA	643	149.245	125.226	-63.958	1.00	58.92	Al6
ATOM	32954	O2P	GUA	641	144.445	114.860	-62.955	1.00	53.24	Al6S	ATOM	33007	C2	GUA	643	149.689	126.323	-63.327	1.00	58.92	Al6
ATOM	32955	O5'	GUA	641	141.581	115.220	-64.520	1.00	57.68	Al6S	ATOM	33008	N2	GUA	643	149.444	124.026	-63.303	1.00	58.92	Al6
ATOM	32956	O5'	GUA	641	141.463	114.845	-65.357	1.00	57.68	Al6S	ATOM	33009	N1	GUA	643	149.047	122.782	-63.803	1.00	58.92	Al6
ATOM	32957	C5'	GUA	641	140.809	116.082	-65.930	1.00	57.68	Al6S	ATOM	33010	C6	GUA	643	149.296	121.757	-63.153	1.00	58.92	Al6
ATOM	32958	C4'	GUA	641	140.221	116.856	-64.856	1.00	57.68	Al6S	ATOM	33011	O6	GUA	643	148.389	122.899	-65.058	1.00	58.92	Al6
ATOM	32959	O4'	GUA	641	140.429	118.239	-65.090	1.00	57.68	Al6S	ATOM	33012	C5	GUA	643	147.336	121.926	-65.880	1.00	58.92	Al6
ATOM	32960	C1'	GUA	641	141.230	118.777	-63.994	1.00	53.24	Al6S	ATOM	33013	N7	GUA	643	147.391	122.593	-66.962	1.00	58.92	Al6
ATOM	32961	N9	GUA	641	141.379	120.104	-63.669	1.00	53.24	Al6S	ATOM	33014	C8	GUA	643	148.644	125.378	-68.533	1.00	63.00	Al6
ATOM	32962	C4	GUA	641	140.835	121.148	-64.328	1.00	53.24	Al6S	ATOM	33015	C2'	GUA	643	148.660	126.783	-68.711	1.00	63.00	Al6
ATOM	32963	N3	GUA	641	141.144	122.301	-63.764	1.00	53.24	Al6S	ATOM	33016	O2'	GUA	643	148.543	124.557	-69.819	1.00	63.00	Al6
ATOM	32964	C2	GUA	641	140.685	123.439	-64.283	1.00	53.24	Al6S	ATOM	33017	C3'	GUA	643	149.323	125.087	-70.882	1.00	63.00	Al6
ATOM	32965	N2	GUA	641	141.925	122.424	-62.642	1.00	53.24	Al6S	ATOM	33018	O3'	GUA	644	150.915	124.855	-70.883	1.00	73.41	Al6
ATOM	32966	C6	GUA	641	142.491	121.363	-61.942	1.00	53.24	Al6S	ATOM	33019	P	GUA	644	151.480	125.318	-72.176	1.00	53.98	Al6
ATOM	32967	C6	GUA	641	143.166	121.581	-60.926	1.00	53.24	Al6S	ATOM	33020	O1P	GUA	644	151.201	123.479	-70.413	1.00	53.98	Al6
ATOM	32968	O6	GUA	641	142.172	120.116	-62.540	1.00	53.24	Al6S	ATOM	33021	O2P	GUA	644	152.703	125.724	-69.227	1.00	73.41	Al6
ATOM	32969	C5	GUA	641	141.533	118.827	-62.144	1.00	53.24	Al6S	ATOM	33022	O5'	GUA	644	152.940	126.729	-68.141	1.00	73.41	Al6
ATOM	32970	N7	GUA	641	141.962	118.068	-63.069	1.00	53.24	Al6S	ATOM	33023	C5'	GUA	644	151.934	126.611	-67.105	1.00	73.41	Al6
ATOM	32971	C8	GUA	641	141.103	118.392	-66.449	1.00	57.68	Al6S	ATOM	33024	C4'	GUA	644	152.560	126.428	-65.838	1.00	73.41	Al6
ATOM	32972	C2'	GUA	641	140.114	118.643	-67.423	1.00	57.68	Al6S	ATOM	33025	O4'	GUA	644	152.741	124.414	-64.277	1.00	53.98	Al6
ATOM	32973	O2'	GUA	641	142.025	116.683	-67.950	1.00	57.68	Al6S	ATOM	33026	C1'	GUA	644	153.290	125.023	-63.206	1.00	53.98	Al6
ATOM	32974	C3'	GUA	641	143.417	117.095	-68.621	1.00	58.57	Al6S	ATOM	33027	N9	GUA	644	153.480	124.177	-62.202	1.00	53.98	Al6
ATOM	32975	O3'	GUA	642	143.399	116.597	-70.022	1.00	68.99	Al6S	ATOM	33028	C4	GUA	644	152.597	122.196	-63.342	1.00	53.98	Al6
ATOM	32976	P	URI	642	144.531	116.720	-67.720	1.00	68.99	Al6S	ATOM	33029	N3	GUA	644	152.341	120.989	-63.279	1.00	53.98	Al6
ATOM	32977	O1P	URI	642	142.458	119.370	-69.485	1.00	58.57	Al6S	ATOM	33030	C2	GUA	644	152.391	123.086	-64.425	1.00	53.98	Al6
ATOM	32978	O2P	URI	642	142.730	120.841	-69.436	1.00	58.57	Al6S	ATOM	33031	N2	GUA	644	151.862	122.852	-65.686	1.00	53.98	Al6
ATOM	32979	O5'	URI	642	143.263	121.350	-68.135	1.00	58.57	Al6S	ATOM	33032	C6	GUA	644	151.889	124.017	-66.272	1.00	53.98	Al6
ATOM	32980	C5'	URI	642	143.901	122.364	-67.738	1.00	68.99	Al6S	ATOM	33033	O6	GUA	644						
ATOM	32981	C4'	URI	642							ATOM	33034	O6	GUA	644						
ATOM	32982	O4'	URI	642							ATOM	33035	C5	GUA	644						
ATOM	32983	C1'	URI	642							ATOM	33036	N7	GUA	644						
ATOM	32984	N1	URI	642							ATOM	33037	C8	GUA	644						

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ATOM	32826	05' URI	635	128.703	123.065	-51.637	1.00	51.44	Al6S	ATOM	32879	C6	GUA	637	135.785	115.624	-49.981	1.00	40.87	Al6
ATOM	32827	05' URI	635	129.959	123.530	-52.095	1.00	51.44	Al6S	ATOM	32880	O6	GUA	637	135.057	115.925	-50.930	1.00	40.87	Al6
ATOM	32828	C4' URI	635	130.943	123.338	-50.989	1.00	51.44	Al6S	ATOM	32881	C5	GUA	637	136.502	116.476	-49.122	1.00	40.87	Al6
ATOM	32829	O4' URI	635	130.657	122.120	-50.249	1.00	51.44	Al6S	ATOM	32882	N7	GUA	637	136.589	117.858	-49.099	1.00	40.87	Al6
ATOM	32830	C1' URI	635	131.796	121.295	-50.271	1.00	51.44	Al6S	ATOM	32883	C8	GUA	637	137.393	118.113	-48.107	1.00	40.87	Al6
ATOM	32831	N1 URI	635	131.391	119.883	-50.279	1.00	46.49	Al6S	ATOM	32884	C2' GUA	637	140.164	116.485	-46.803	1.00	54.52	Al6	
ATOM	32832	C6 URI	635	130.421	119.398	-51.126	1.00	46.49	Al6S	ATOM	32885	O2' GUA	637	140.772	115.765	-45.751	1.00	54.52	Al6	
ATOM	32833	C2 URI	635	132.055	119.041	-49.409	1.00	46.49	Al6S	ATOM	32886	C3' GUA	637	140.835	117.827	-47.032	1.00	54.52	Al6	
ATOM	32834	O2 URI	635	132.895	119.437	-48.618	1.00	46.49	Al6S	ATOM	32887	O3' GUA	637	142.240	117.736	-46.947	1.00	54.52	Al6	
ATOM	32835	N2 URI	635	131.704	117.720	-49.499	1.00	46.49	Al6S	ATOM	32888	P ADE	638	143.110	117.714	-48.298	1.00	40.42	Al6	
ATOM	32836	C4 URI	635	130.771	117.168	-50.343	1.00	46.49	Al6S	ATOM	32889	O1P ADE	638	144.531	117.578	-47.872	1.00	40.50	Al6	
ATOM	32837	O4 URI	635	130.623	115.953	-50.353	1.00	46.49	Al6S	ATOM	32890	O2P ADE	638	142.708	118.879	-49.142	1.00	40.50	Al6	
ATOM	32838	C5 URI	635	130.099	118.102	-51.187	1.00	46.49	Al6S	ATOM	32891	O5' ADE	638	142.660	116.368	-49.032	1.00	40.42	Al6	
ATOM	32839	C2' URI	635	132.588	121.706	-51.510	1.00	51.44	Al6S	ATOM	32892	C5' ADE	638	142.937	115.083	-48.451	1.00	40.42	Al6	
ATOM	32840	O2' URI	635	133.938	121.320	-51.395	1.00	51.44	Al6S	ATOM	32893	C4' ADE	638	142.233	113.998	-49.221	1.00	40.42	Al6	
ATOM	32841	C3' URI	635	132.355	123.210	-51.525	1.00	51.44	Al6S	ATOM	32894	O4' ADE	638	140.800	114.164	-49.078	1.00	40.42	Al6	
ATOM	32842	O3' URI	635	133.209	123.855	-50.624	1.00	51.44	Al6S	ATOM	32895	C1' ADE	638	140.149	113.808	-50.286	1.00	40.42	Al6	
ATOM	32843	P ADE	636	134.313	124.856	-51.175	1.00	54.30	Al6S	ATOM	32896	N9 ADE	638	139.533	115.011	-50.850	1.00	40.50	Al6	
ATOM	32844	O1P ADE	636	133.747	126.217	-51.049	1.00	51.29	Al6S	ATOM	32897	C4 ADE	638	137.961	113.989	-52.417	1.00	40.50	Al6	
ATOM	32845	O2P ADE	636	134.759	124.362	-52.505	1.00	51.29	Al6S	ATOM	32898	N3 ADE	638	137.083	114.396	-53.321	1.00	40.50	Al6	
ATOM	32846	O5' ADE	636	135.474	124.705	-50.098	1.00	54.30	Al6S	ATOM	32899	C2 ADE	638	137.083	114.396	-53.321	1.00	40.50	Al6	
ATOM	32847	C5' ADE	636	135.782	123.420	-49.530	1.00	54.30	Al6S	ATOM	32900	N1 ADE	638	137.384	116.668	-53.085	1.00	40.50	Al6	
ATOM	32848	O4' ADE	636	135.531	123.585	-48.234	1.00	54.30	Al6S	ATOM	32901	C6 ADE	638	137.078	117.902	-53.475	1.00	40.50	Al6	
ATOM	32849	O4' ADE	636	135.697	124.260	-47.248	1.00	54.30	Al6S	ATOM	32902	N6 ADE	638	137.078	117.902	-53.475	1.00	40.50	Al6	
ATOM	32850	C1' ADE	636	135.648	123.486	-46.063	1.00	54.30	Al6S	ATOM	32903	C5 ADE	638	138.332	116.374	-52.091	1.00	40.50	Al6	
ATOM	32851	N9 ADE	636	134.340	123.655	-45.416	1.00	51.29	Al6S	ATOM	32904	N7 ADE	638	139.131	117.181	-51.287	1.00	40.50	Al6	
ATOM	32852	C4 ADE	636	133.119	123.193	-45.846	1.00	51.29	Al6S	ATOM	32905	C8 ADE	638	139.815	116.328	-50.565	1.00	40.50	Al6	
ATOM	32853	N3 ADE	636	133.856	122.504	-46.972	1.00	51.29	Al6S	ATOM	32906	C2' ADE	638	141.217	113.275	-51.238	1.00	40.42	Al6	
ATOM	32854	C2 ADE	636	131.557	122.214	-47.051	1.00	51.29	Al6S	ATOM	32907	O2' ADE	638	141.271	111.857	-51.171	1.00	40.42	Al6	
ATOM	32855	N1 ADE	636	130.565	122.507	-46.192	1.00	51.29	Al6S	ATOM	32908	C3' ADE	638	142.459	113.994	-50.722	1.00	40.42	Al6	
ATOM	32856	C6 ADE	636	130.870	123.196	-45.068	1.00	51.29	Al6S	ATOM	32909	O3' ADE	638	143.667	113.355	-51.092	1.00	40.42	Al6	
ATOM	32857	N6 ADE	636	129.891	123.476	-44.206	1.00	51.29	Al6S	ATOM	32910	P	639	144.523	113.924	-52.327	1.00	55.77	Al6	
ATOM	32858	C5 ADE	636	132.209	123.572	-44.874	1.00	51.29	Al6S	ATOM	32911	O1P CYT	639	145.831	113.235	-52.245	1.00	46.65	Al6	
ATOM	32859	N7 ADE	636	132.837	124.274	-43.860	1.00	51.29	Al6S	ATOM	32912	O2P CYT	639	144.479	115.405	-52.330	1.00	46.65	Al6	
ATOM	32860	C8 ADE	636	134.094	124.299	-44.227	1.00	51.29	Al6S	ATOM	32913	O5' CYT	639	143.746	113.385	-53.608	1.00	55.77	Al6	
ATOM	32861	C2' ADE	636	135.972	122.050	-46.482	1.00	54.30	Al6S	ATOM	32914	C5' CYT	639	143.549	111.973	-53.796	1.00	55.77	Al6	
ATOM	32862	O2' ADE	636	136.477	121.302	-45.392	1.00	54.30	Al6S	ATOM	32915	C4' CYT	639	142.495	111.715	-54.845	1.00	55.77	Al6	
ATOM	32863	C3' ADE	636	136.989	122.277	-47.598	1.00	54.30	Al6S	ATOM	32916	O4' CYT	639	141.199	112.658	-55.464	1.00	55.77	Al6	
ATOM	32864	O3' ADE	636	138.299	122.472	-47.072	1.00	54.30	Al6S	ATOM	32917	C1' CYT	639	140.434	112.658	-55.464	1.00	55.77	Al6	
ATOM	32865	P	637	139.575	121.973	-47.914	1.00	54.52	Al6S	ATOM	32918	N1 CYT	639	140.241	114.105	-55.307	1.00	46.65	Al6	
ATOM	32866	O1P GUA	637	140.738	122.747	-47.422	1.00	40.87	Al6S	ATOM	32919	C6 CYT	639	141.105	114.852	-54.560	1.00	46.65	Al6	
ATOM	32867	O2P GUA	637	139.258	121.965	-49.391	1.00	40.87	Al6S	ATOM	32920	C2 CYT	639	139.180	114.723	-55.989	1.00	46.65	Al6	
ATOM	32868	O5' GUA	637	139.758	120.462	-47.446	1.00	54.52	Al6S	ATOM	32921	O2 CYT	639	138.366	114.016	-56.607	1.00	46.65	Al6	
ATOM	32869	C5' GUA	637	140.273	120.155	-46.145	1.00	54.52	Al6S	ATOM	32922	N3 CYT	639	139.067	116.072	-55.954	1.00	46.65	Al6	
ATOM	32870	C4' GUA	637	140.255	118.669	-45.916	1.00	54.52	Al6S	ATOM	32923	C4 CYT	639	139.947	116.791	-55.261	1.00	46.65	Al6	
ATOM	32871	O4' GUA	637	138.890	118.206	-45.795	1.00	54.52	Al6S	ATOM	32924	N4 CYT	639	139.824	118.108	-55.282	1.00	46.65	Al6	
ATOM	32872	C1' GUA	637	138.771	116.914	-46.355	1.00	54.52	Al6S	ATOM	32925	C5 CYT	639	141.001	116.184	-54.516	1.00	46.65	Al6	
ATOM	32873	N9 GUA	637	137.844	116.984	-47.479	1.00	40.87	Al6S	ATOM	32926	C2' CYT	639	141.254	112.440	-56.731	1.00	55.77	Al6	
ATOM	32874	C4 GUA	637	137.262	115.923	-48.127	1.00	40.87	Al6S	ATOM	32927	O2' CYT	639	140.900	111.216	-57.336	1.00	55.77	Al6	
ATOM	32875	N3 GUA	637	137.436	114.625	-47.831	1.00	40.87	Al6S	ATOM	32928	C3' CYT	639	142.671	112.441	-56.171	1.00	55.77	Al6	
ATOM	32876	C2 GUA	637	136.765	113.843	-48.647	1.00	40.87	Al6S	ATOM	32929	O3' CYT	639	143.609	111.836	-57.050	1.00	55.77	Al6	
ATOM	32877	N2 GUA	637	136.837	112.526	-48.511	1.00	40.87	Al6S	ATOM	32930	P	640	144.426	112.760	-58.080	1.00	55.47	Al6	
ATOM	32878	N1 GUA	637	135.979	114.293	-49.658	1.00	40.87	Al6S	ATOM	32931	O1P GUA	640	145.490	111.892	-58.638	1.00	51.42	Al6	

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ATOM	32720	C4' CYT	630	119.981	102.380	-43.376	1.00	63.93	Al6s	ATOM	32773	C5	GUA	632	121.571	112.906	-46.052	1.00	62.70	Al6
ATOM	32721	Q4' CYT	630	119.604	103.160	-42.212	1.00	63.93	Al6s	ATOM	32774	N7	GUA	632	121.679	111.600	-46.505	1.00	62.70	Al6
ATOM	32722	C1' CYT	630	119.017	104.383	-42.627	1.00	63.93	Al6s	ATOM	32775	C8	GUA	632	120.652	111.452	-47.300	1.00	62.70	Al6
ATOM	32723	N1 CYT	630	119.833	105.500	-42.120	1.00	47.79	Al6s	ATOM	32776	C2' GUA	632	119.087	113.574	-49.493	1.00	73.70	Al6	
ATOM	32724	C6 CYT	630	121.190	105.392	-42.026	1.00	47.79	Al6s	ATOM	32777	O2' GUA	632	118.106	114.547	-49.777	1.00	73.70	Al6	
ATOM	32725	C2 CYT	630	119.192	106.685	-41.746	1.00	47.79	Al6s	ATOM	32778	C3' GUA	632	119.087	112.457	-50.522	1.00	73.70	Al6	
ATOM	32726	C2 CYT	630	117.955	106.760	-41.846	1.00	47.79	Al6s	ATOM	32779	C3' GUA	632	118.905	112.991	-51.819	1.00	73.70	Al6	
ATOM	32727	N3 CYT	630	119.935	107.720	-41.292	1.00	47.79	Al6s	ATOM	32780	P	GUA	633	120.201	113.304	-52.721	1.00	69.88	Al6
ATOM	32728	C4 CYT	630	121.258	107.601	-41.211	1.00	47.79	Al6s	ATOM	32781	O1P GUA	633	119.709	113.596	-54.093	1.00	58.02	Al6	
ATOM	32729	N4' CYT	630	121.954	108.643	-40.759	1.00	47.79	Al6s	ATOM	32782	O2P GUA	633	121.191	112.210	-52.515	1.00	58.02	Al6	
ATOM	32730	C5 CYT	630	121.931	106.408	-41.587	1.00	47.79	Al6s	ATOM	32783	O5' GUA	633	120.830	114.620	-52.075	1.00	69.88	Al6	
ATOM	32731	C2' CYT	630	118.982	104.386	-44.154	1.00	63.93	Al6s	ATOM	32784	C5' GUA	633	120.068	115.821	-52.018	1.00	69.88	Al6	
ATOM	32732	O2' CYT	630	117.728	103.946	-44.631	1.00	63.93	Al6s	ATOM	32785	C4' GUA	633	120.681	116.813	-51.058	1.00	69.88	Al6	
ATOM	32733	C3' CYT	630	120.093	103.407	-44.482	1.00	63.93	Al6s	ATOM	32786	O4' GUA	633	120.765	116.266	-49.714	1.00	69.88	Al6	
ATOM	32734	C3' CYT	630	119.930	102.865	-45.766	1.00	63.93	Al6s	ATOM	32787	C1' GUA	633	121.754	116.973	-48.986	1.00	69.88	Al6	
ATOM	32735	P	631	120.564	103.637	-47.015	1.00	72.46	Al6s	ATOM	32788	N9	GUA	633	122.739	116.049	-48.430	1.00	58.02	Al6
ATOM	32736	O1P ADE	631	120.444	102.729	-48.193	1.00	60.73	Al6s	ATOM	32789	C4	GUA	633	123.734	116.402	-47.554	1.00	58.02	Al6
ATOM	32737	O2P ADE	631	121.901	104.123	-46.591	1.00	60.73	Al6s	ATOM	32790	N3	GUA	633	123.940	117.637	-47.061	1.00	58.02	Al6
ATOM	32738	O5' ADE	631	119.640	104.927	-47.195	1.00	72.46	Al6s	ATOM	32791	C2	GUA	633	124.976	117.683	-46.251	1.00	58.02	Al6
ATOM	32739	C5' ADE	631	118.265	104.810	-47.610	1.00	72.46	Al6s	ATOM	32792	N2	GUA	633	125.303	118.844	-45.675	1.00	58.02	Al6
ATOM	32740	C4' ADE	631	117.589	106.157	-47.569	1.00	72.46	Al6s	ATOM	32793	N1	GUA	633	125.758	116.598	-45.944	1.00	58.02	Al6
ATOM	32741	O4' ADE	631	117.517	106.632	-46.199	1.00	72.46	Al6s	ATOM	32794	C6	GUA	633	125.565	115.309	-46.433	1.00	58.02	Al6
ATOM	32742	C1' ADE	631	117.609	108.050	-46.174	1.00	72.46	Al6s	ATOM	32795	O6	GUA	633	126.323	114.397	-46.083	1.00	58.02	Al6
ATOM	32743	N9	631	118.705	108.448	-45.283	1.00	60.73	Al6s	ATOM	32796	C5	GUA	633	124.445	115.247	-47.315	1.00	58.02	Al6
ATOM	32744	C4	631	118.931	109.715	-44.794	1.00	60.73	Al6s	ATOM	32797	N7	GUA	633	123.902	114.178	-48.022	1.00	58.02	Al6
ATOM	32745	N3	631	118.201	110.817	-45.016	1.00	60.73	Al6s	ATOM	32798	C8	GUA	633	122.890	114.700	-48.667	1.00	58.02	Al6
ATOM	32746	C2	631	118.728	111.867	-44.386	1.00	60.73	Al6s	ATOM	32799	C2' GUA	633	122.428	117.932	-49.958	1.00	69.88	Al6	
ATOM	32747	N1	631	119.822	111.938	-43.624	1.00	60.73	Al6s	ATOM	32800	O2' GUA	633	121.816	119.187	-49.779	1.00	69.88	Al6	
ATOM	32748	C6	631	120.537	110.814	-43.425	1.00	60.73	Al6s	ATOM	32801	C3' GUA	633	122.089	117.308	-51.307	1.00	69.88	Al6	
ATOM	32749	N6	631	121.636	110.888	-42.677	1.00	60.73	Al6s	ATOM	32802	O3' GUA	633	122.158	118.270	-52.345	1.00	69.88	Al6	
ATOM	32750	C5	631	120.078	109.627	-44.029	1.00	60.73	Al6s	ATOM	32803	P	CYT	634	123.563	118.516	-53.094	1.00	55.14	Al6
ATOM	32751	N7	631	120.563	108.327	-44.022	1.00	60.73	Al6s	ATOM	32804	O1P CYT	634	123.358	119.541	-54.156	1.00	58.17	Al6	
ATOM	32752	C8	631	119.715	107.669	-44.775	1.00	60.73	Al6s	ATOM	32805	O2P CYT	634	124.136	117.183	-53.451	1.00	58.17	Al6	
ATOM	32753	C2' ADE	631	117.795	108.530	-47.613	1.00	72.46	Al6s	ATOM	32806	O5' CYT	634	124.474	119.181	-51.971	1.00	55.14	Al6	
ATOM	32754	O2' ADE	631	116.557	108.972	-48.125	1.00	72.46	Al6s	ATOM	32807	C5' CYT	634	124.001	120.332	-51.263	1.00	55.14	Al6	
ATOM	32755	C3' ADE	631	118.310	107.269	-48.299	1.00	72.46	Al6s	ATOM	32808	C4' CYT	634	125.077	120.894	-50.384	1.00	55.14	Al6	
ATOM	32756	O3' ADE	631	118.039	107.258	-49.685	1.00	72.46	Al6s	ATOM	32809	O4' CYT	634	125.286	120.078	-49.215	1.00	55.14	Al6	
ATOM	32757	P	632	119.105	107.908	-50.696	1.00	73.70	Al6s	ATOM	32810	C1' CYT	634	126.637	120.141	-48.829	1.00	55.14	Al6	
ATOM	32758	O1P GUA	632	118.567	107.674	-52.061	1.00	62.70	Al6s	ATOM	32811	N1	CYT	634	127.162	118.773	-48.762	1.00	58.17	Al6
ATOM	32759	O2P GUA	632	120.476	107.435	-50.355	1.00	62.70	Al6s	ATOM	32812	C6	CYT	634	126.612	117.767	-49.506	1.00	58.17	Al6
ATOM	32760	O5' GUA	632	119.043	109.464	-50.353	1.00	73.70	Al6s	ATOM	32813	C2	CYT	634	128.243	118.512	-47.914	1.00	58.17	Al6
ATOM	32761	C5' GUA	632	117.828	110.186	-50.557	1.00	73.70	Al6s	ATOM	32814	O2	CYT	634	128.733	119.450	-47.259	1.00	58.17	Al6
ATOM	32762	C4' GUA	632	117.939	111.596	-50.040	1.00	73.70	Al6s	ATOM	32815	N3	CYT	634	128.732	117.251	-47.833	1.00	58.17	Al6
ATOM	32763	O4' GUA	632	118.119	111.598	-48.604	1.00	73.70	Al6s	ATOM	32816	C4	CYT	634	128.189	116.277	-48.565	1.00	58.17	Al6
ATOM	32764	C1' GUA	632	118.702	112.827	-48.219	1.00	73.70	Al6s	ATOM	32817	N4	CYT	634	128.707	115.055	-48.462	1.00	58.17	Al6
ATOM	32765	N9	632	119.886	112.589	-47.402	1.00	62.70	Al6s	ATOM	32818	C5	CYT	634	127.091	116.517	-49.441	1.00	58.17	Al6
ATOM	32766	C4	632	120.469	113.521	-46.593	1.00	62.70	Al6s	ATOM	32819	C2' CYT	634	127.364	121.040	-49.826	1.00	55.14	Al6	
ATOM	32767	N3	632	120.025	114.772	-46.405	1.00	62.70	Al6s	ATOM	32820	O2' CYT	634	127.449	122.315	-49.246	1.00	55.14	Al6	
ATOM	32768	C2	632	120.789	115.444	-45.581	1.00	62.70	Al6s	ATOM	32821	C3' CYT	634	126.430	120.997	-51.030	1.00	55.14	Al6	
ATOM	32769	N2	632	120.473	116.707	-45.277	1.00	62.70	Al6s	ATOM	32822	O3' CYT	634	126.441	122.155	-51.844	1.00	55.14	Al6	
ATOM	32770	N1	632	121.911	114.931	-44.990	1.00	62.70	Al6s	ATOM	32823	P	URI	635	127.710	122.458	-52.767	1.00	51.44	Al6
ATOM	32771	C6	632	122.389	113.642	-45.169	1.00	62.70	Al6s	ATOM	32824	O1P URI	635	127.397	123.542	-53.741	1.00	46.49	Al6	
ATOM	32772	O6	632	123.413	113.281	-44.586	1.00	62.70	Al6s	ATOM	32825	O2P URI	635	128.243	121.165	-53.268	1.00	46.49	Al6	

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ATOM	32614	C5' ADE	625	120.249	117.409	-29.672	1.00	48.56	Al6S	ATOM	32667	O6	GUA	627	122.159	106.941	-31.199	1.00	64.42	Al6
ATOM	32615	O4' ADE	625	121.248	117.248	-28.835	1.00	48.56	Al6S	ATOM	32668	C5	GUA	627	124.490	107.417	-30.879	1.00	64.42	Al6
ATOM	32616	O4' ADE	625	121.139	116.680	-27.552	1.00	48.56	Al6S	ATOM	32669	N7	GUA	627	124.643	108.798	-30.939	1.00	64.42	Al6
ATOM	32617	C1' ADE	625	122.204	115.869	-27.085	1.00	48.56	Al6S	ATOM	32670	C8	GUA	627	125.930	108.984	-30.807	1.00	64.42	Al6
ATOM	32618	N9 ADE	625	121.704	114.500	-26.963	1.00	44.94	Al6S	ATOM	32671	C2'	GUA	627	128.522	106.998	-31.961	1.00	42.61	Al6
ATOM	32619	C4 ADE	625	122.277	113.480	-26.246	1.00	44.94	Al6S	ATOM	32672	O2'	GUA	627	129.547	106.055	-31.753	1.00	42.61	Al6
ATOM	32620	N3 ADE	625	123.404	113.530	-25.518	1.00	44.94	Al6S	ATOM	32673	C3'	GUA	627	128.968	108.241	-32.712	1.00	42.61	Al6
ATOM	32621	C2 ADE	625	123.642	112.350	-24.953	1.00	44.94	Al6S	ATOM	32674	O3'	GUA	627	129.860	107.937	-33.765	1.00	42.61	Al6
ATOM	32622	N1 ADE	625	122.937	111.206	-25.033	1.00	44.94	Al6S	ATOM	32675	P	CYT	628	129.289	107.785	-35.256	1.00	43.26	Al6
ATOM	32623	O1 ADE	625	121.818	111.192	-25.791	1.00	44.94	Al6S	ATOM	32676	O1P	CYT	628	130.429	107.465	-36.151	1.00	62.65	Al6
ATOM	32624	N6 ADE	625	121.133	110.057	-25.904	1.00	44.94	Al6S	ATOM	32677	O2P	CYT	628	128.437	108.969	-35.538	1.00	62.65	Al6
ATOM	32625	C5 ADE	625	121.451	112.383	-26.429	1.00	44.94	Al6S	ATOM	32678	O5'	CYT	628	128.352	106.501	-35.170	1.00	43.26	Al6
ATOM	32626	N7 ADE	625	120.578	113.964	-27.540	1.00	44.94	Al6S	ATOM	32679	C5'	CYT	628	128.863	105.239	-34.636	1.00	43.26	Al6
ATOM	32627	C8 ADE	625	120.578	113.964	-27.540	1.00	44.94	Al6S	ATOM	32680	C4'	CYT	628	127.803	104.156	-34.801	1.00	43.26	Al6
ATOM	32628	C2' ADE	625	123.334	115.964	-28.111	1.00	48.56	Al6S	ATOM	32681	O4'	CYT	628	126.778	104.338	-33.788	1.00	43.26	Al6
ATOM	32629	O2' ADE	625	124.233	117.001	-27.759	1.00	48.56	Al6S	ATOM	32682	C1'	CYT	628	125.523	103.913	-34.301	1.00	43.26	Al6
ATOM	32630	C3' ADE	625	122.560	116.315	-29.369	1.00	48.56	Al6S	ATOM	32683	N1	CYT	628	124.597	105.062	-34.303	1.00	62.65	Al6
ATOM	32631	O3' ADE	625	123.390	116.907	-30.345	1.00	48.56	Al6S	ATOM	32684	C6	CYT	628	125.031	106.317	-33.984	1.00	62.65	Al6
ATOM	32632	P	626	123.862	116.028	-31.598	1.00	45.43	Al6S	ATOM	32685	C2	CYT	628	123.260	104.850	-34.635	1.00	62.65	Al6
ATOM	32633	O1P	626	122.705	115.205	-32.063	1.00	50.84	Al6S	ATOM	32686	O2	CYT	628	122.884	103.698	-34.940	1.00	62.65	Al6
ATOM	32634	O2P	626	124.546	116.927	-32.548	1.00	50.84	Al6S	ATOM	32687	N3	CYT	628	122.412	105.900	-34.682	1.00	62.65	Al6
ATOM	32635	O5'	626	124.964	115.063	-30.974	1.00	45.43	Al6S	ATOM	32688	C4	CYT	628	122.852	107.119	-34.381	1.00	62.65	Al6
ATOM	32636	C5'	626	126.152	115.599	-30.351	1.00	45.43	Al6S	ATOM	32689	N4	CYT	628	121.983	108.112	-34.432	1.00	62.65	Al6
ATOM	32637	C4'	626	126.936	114.402	-29.677	1.00	45.43	Al6S	ATOM	32690	C5	CYT	628	124.201	107.362	-34.016	1.00	62.65	Al6
ATOM	32638	O4'	626	126.219	114.007	-28.511	1.00	45.43	Al6S	ATOM	32691	C2'	CYT	628	125.753	103.380	-35.718	1.00	43.26	Al6
ATOM	32639	C1'	626	126.417	112.605	-28.373	1.00	45.43	Al6S	ATOM	32692	O2'	CYT	628	125.876	101.974	-35.693	1.00	43.26	Al6
ATOM	32640	N1	626	125.112	111.924	-28.497	1.00	50.84	Al6S	ATOM	32693	C3'	CYT	628	127.043	104.081	-36.115	1.00	43.26	Al6
ATOM	32641	C6	626	124.108	112.472	-29.247	1.00	50.84	Al6S	ATOM	32694	O3'	CYT	628	127.743	103.337	-37.085	1.00	43.26	Al6
ATOM	32642	C2	626	124.919	110.695	-27.853	1.00	50.84	Al6S	ATOM	32695	P	URI	629	127.481	103.622	-38.638	1.00	60.88	Al6
ATOM	32643	O2	626	125.835	110.224	-27.153	1.00	50.84	Al6S	ATOM	32696	O1P	URI	629	128.377	102.718	-39.403	1.00	63.34	Al6
ATOM	32644	N3	626	123.737	110.053	-28.007	1.00	50.84	Al6S	ATOM	32697	O2P	URI	629	127.519	105.082	-38.896	1.00	63.34	Al6
ATOM	32645	C4	626	122.772	110.598	-28.752	1.00	50.84	Al6S	ATOM	32698	O5'	URI	629	125.988	103.129	-38.854	1.00	60.88	Al6
ATOM	32646	N4	626	121.621	109.937	-28.872	1.00	50.84	Al6S	ATOM	32699	C5'	URI	629	125.627	101.758	-38.638	1.00	60.88	Al6
ATOM	32647	C5	626	122.939	111.847	-29.402	1.00	50.84	Al6S	ATOM	32700	C4'	URI	629	124.148	101.578	-38.856	1.00	60.88	Al6
ATOM	32648	C2'	626	127.372	112.164	-29.480	1.00	45.43	Al6S	ATOM	32701	O4'	URI	629	123.418	102.254	-37.800	1.00	60.88	Al6
ATOM	32649	O2'	626	128.690	112.160	-28.985	1.00	45.43	Al6S	ATOM	32702	C1'	URI	629	122.253	102.853	-38.340	1.00	60.88	Al6
ATOM	32650	C3'	626	127.152	113.248	-30.519	1.00	45.43	Al6S	ATOM	32703	N1	URI	629	122.354	104.310	-38.163	1.00	63.34	Al6
ATOM	32651	O3'	626	128.251	113.366	-31.383	1.00	45.43	Al6S	ATOM	32704	C6	URI	629	123.568	104.938	-38.047	1.00	63.34	Al6
ATOM	32652	P	627	128.227	112.578	-32.764	1.00	42.61	Al6S	ATOM	32705	C2	URI	629	121.185	105.029	-38.123	1.00	63.34	Al6
ATOM	32653	O1P	627	129.419	113.006	-33.541	1.00	64.42	Al6S	ATOM	32706	O2	URI	629	120.090	104.518	-38.218	1.00	63.34	Al6
ATOM	32654	O2P	627	126.870	112.730	-33.349	1.00	64.42	Al6S	ATOM	32707	N3	URI	629	121.340	106.376	-37.968	1.00	63.34	Al6
ATOM	32655	O5'	627	128.388	111.060	-33.313	1.00	42.61	Al6S	ATOM	32708	C4	URI	629	122.519	107.065	-37.849	1.00	63.34	Al6
ATOM	32656	C5'	627	129.657	110.563	-31.871	1.00	42.61	Al6S	ATOM	32709	O4	URI	629	122.491	108.283	-37.702	1.00	63.34	Al6
ATOM	32657	C4'	627	129.586	109.083	-31.611	1.00	42.61	Al6S	ATOM	32710	C5	URI	629	123.687	106.254	-37.895	1.00	63.34	Al6
ATOM	32658	O4'	627	128.741	108.832	-30.458	1.00	42.61	Al6S	ATOM	32711	C2'	URI	629	122.160	102.457	-39.815	1.00	60.88	Al6
ATOM	32659	C1'	627	128.074	107.591	-30.625	1.00	42.61	Al6S	ATOM	32712	O2'	URI	629	121.344	101.308	-39.950	1.00	60.88	Al6
ATOM	32660	N9	627	126.630	107.805	-30.685	1.00	64.42	Al6S	ATOM	32713	C3'	URI	629	123.620	102.184	-40.149	1.00	60.88	Al6
ATOM	32661	C4	627	125.704	106.802	-30.692	1.00	64.42	Al6S	ATOM	32714	O3'	URI	629	123.782	101.313	-41.265	1.00	60.88	Al6
ATOM	32662	N3	627	125.978	105.490	-30.575	1.00	64.42	Al6S	ATOM	32715	P	CYT	630	123.835	101.927	-42.749	1.00	63.93	Al6
ATOM	32663	C2	627	124.895	104.749	-30.659	1.00	64.42	Al6S	ATOM	32716	O1P	CYT	630	124.038	100.787	-43.686	1.00	47.79	Al6
ATOM	32664	N2	627	125.000	103.420	-30.543	1.00	64.42	Al6S	ATOM	32717	O2P	CYT	630	124.779	103.070	-42.766	1.00	47.79	Al6
ATOM	32665	N1	627	123.634	105.252	-30.859	1.00	64.42	Al6S	ATOM	32718	O5'	CYT	630	122.366	102.494	-42.983	1.00	63.93	Al6
ATOM	32666	C6	627	123.325	106.600	-30.993	1.00	64.42	Al6S	ATOM	32719	C5'	CYT	630	121.242	101.602	-43.093	1.00	63.93	Al6

ATOM	32508	C4	620	109.537	99.005	-18.203	1.00	60.00	Al6s	ATOM	32561	C5	622	113.103	105.385	-22.311	1.00	56.51	Al6
ATOM	32509	N3	620	108.891	99.957	-17.500	1.00	60.00	Al6s	ATOM	32562	N7	622	112.111	104.513	-22.736	1.00	56.51	Al6
ATOM	32510	C2	620	109.726	100.842	-16.990	1.00	60.00	Al6s	ATOM	32563	C8	622	110.998	105.144	-22.489	1.00	56.51	Al6
ATOM	32511	N2	620	109.257	101.850	-16.249	1.00	60.00	Al6s	ATOM	32564	C2	622	110.224	108.542	-22.541	1.00	62.22	Al6
ATOM	32512	N1	620	111.079	100.801	-17.165	1.00	60.00	Al6s	ATOM	32565	O2	622	109.927	109.729	-21.837	1.00	62.22	Al6
ATOM	32513	C6	620	111.773	99.834	-17.893	1.00	60.00	Al6s	ATOM	32566	C3	622	109.123	108.155	-23.517	1.00	62.22	Al6
ATOM	32514	O6	620	113.005	99.895	-18.001	1.00	60.00	Al6s	ATOM	32567	O3	622	108.636	109.307	-24.177	1.00	62.22	Al6
ATOM	32515	C5	620	110.889	98.873	-18.434	1.00	60.00	Al6s	ATOM	32568	P	623	109.394	109.850	-25.484	1.00	53.34	Al6
ATOM	32516	N7	620	111.151	97.750	-19.202	1.00	60.00	Al6s	ATOM	32569	O1P	623	108.598	111.018	-25.915	1.00	53.79	Al6
ATOM	32517	C8	620	109.976	97.230	-19.425	1.00	60.00	Al6s	ATOM	32570	O2P	623	109.643	108.711	-26.417	1.00	53.79	Al6
ATOM	32518	O2	620	106.867	98.467	-20.082	1.00	53.57	Al6s	ATOM	32571	O5	623	110.788	110.378	-24.926	1.00	53.34	Al6
ATOM	32519	O2	620	105.561	98.792	-19.733	1.00	53.57	Al6s	ATOM	32572	C5	623	110.841	111.485	-24.015	1.00	53.34	Al6
ATOM	32520	C3	620	106.995	97.481	-21.239	1.00	53.57	Al6s	ATOM	32573	C4	623	112.267	111.953	-23.836	1.00	53.34	Al6
ATOM	32521	O3	620	106.079	97.734	-22.287	1.00	53.57	Al6s	ATOM	32574	O4	623	113.036	110.966	-23.107	1.00	53.34	Al6
ATOM	32522	P	621	106.516	98.692	-23.497	1.00	52.05	Al6s	ATOM	32575	O4	623	114.354	110.933	-23.596	1.00	53.34	Al6
ATOM	32523	O1P	621	107.851	98.236	-23.959	1.00	61.12	Al6s	ATOM	32576	N9	623	114.638	109.584	-24.106	1.00	53.79	Al6
ATOM	32524	O2P	621	105.379	98.724	-24.462	1.00	61.12	Al6s	ATOM	32577	N3	623	117.070	109.481	-23.886	1.00	53.79	Al6
ATOM	32525	O5	621	105.664	100.118	-22.787	1.00	52.05	Al6s	ATOM	32578	N3	623	118.022	108.583	-24.204	1.00	53.79	Al6
ATOM	32526	C5	621	105.883	102.005	-21.438	1.00	52.05	Al6s	ATOM	32579	C2	623	117.919	107.330	-24.518	1.00	53.79	Al6
ATOM	32527	C4	621	106.703	101.748	-20.271	1.00	52.05	Al6s	ATOM	32580	N1	623	116.696	106.847	-24.829	1.00	53.79	Al6
ATOM	32528	O4	621	107.539	102.877	-20.020	1.00	52.05	Al6s	ATOM	32581	C6	623	115.612	107.695	-24.672	1.00	53.79	Al6
ATOM	32529	C1	621	108.945	102.486	-20.159	1.00	61.12	Al6s	ATOM	32582	N6	623	114.259	107.511	-24.898	1.00	53.79	Al6
ATOM	32530	N9	621	110.040	103.203	-19.719	1.00	61.12	Al6s	ATOM	32583	C5	623	113.727	108.658	-24.556	1.00	53.79	Al6
ATOM	32531	C4	621	111.218	104.823	-18.787	1.00	61.12	Al6s	ATOM	32584	N7	623	114.491	112.036	-24.644	1.00	53.34	Al6
ATOM	32532	N3	621	112.368	104.210	-19.195	1.00	61.12	Al6s	ATOM	32585	C8	623	113.051	112.185	-25.115	1.00	53.34	Al6
ATOM	32533	C2	621	112.526	102.560	-20.245	1.00	61.12	Al6s	ATOM	32586	C2	623	112.789	113.480	-25.632	1.00	53.34	Al6
ATOM	32534	N1	621	113.526	102.560	-20.245	1.00	61.12	Al6s	ATOM	32587	O2	623	112.493	113.719	-27.409	1.00	48.80	Al6
ATOM	32535	O6	621	109.447	101.378	-20.804	1.00	61.12	Al6s	ATOM	32588	C3	624	111.976	112.676	-27.910	1.00	65.23	Al6
ATOM	32536	C6	621	107.208	103.925	-21.082	1.00	52.05	Al6s	ATOM	32589	O3	624	114.314	113.497	-27.609	1.00	48.80	Al6
ATOM	32537	O6	621	106.246	104.834	-20.598	1.00	52.05	Al6s	ATOM	32590	O1P	624	115.343	114.200	-26.902	1.00	48.80	Al6
ATOM	32538	C5	621	106.663	103.059	-22.203	1.00	52.05	Al6s	ATOM	32591	O2P	624	116.681	113.833	-27.457	1.00	48.80	Al6
ATOM	32539	N7	621	105.884	103.829	-23.089	1.00	52.05	Al6s	ATOM	32592	O2P	624	116.939	112.440	-27.147	1.00	48.80	Al6
ATOM	32540	C8	621	106.561	104.392	-24.430	1.00	56.51	Al6s	ATOM	32593	O5	624	117.227	111.742	-28.333	1.00	48.80	Al6
ATOM	32541	C2	621	107.401	103.320	-25.0b1	1.00	56.51	Al6s	ATOM	32594	C4	624	115.702	110.370	-28.215	1.00	65.23	Al6
ATOM	32542	O2	621	107.531	105.547	-23.904	1.00	62.22	Al6s	ATOM	32595	C5	624	115.390	110.069	-28.496	1.00	65.23	Al6
ATOM	32543	C3	621	105.460	104.986	-25.227	1.00	56.51	Al6s	ATOM	32596	O4	624	117.586	109.376	-27.830	1.00	65.23	Al6
ATOM	32544	O3	621	106.561	104.392	-24.430	1.00	56.51	Al6s	ATOM	32597	C1	624	118.745	109.599	-27.536	1.00	65.23	Al6
ATOM	32545	P	622	107.401	103.320	-25.0b1	1.00	56.51	Al6s	ATOM	32598	N1	624	115.060	108.109	-27.802	1.00	65.23	Al6
ATOM	32546	O1P	622	107.531	105.547	-23.904	1.00	62.22	Al6s	ATOM	32599	C6	624	115.765	107.741	-28.107	1.00	65.23	Al6
ATOM	32547	O2P	622	106.995	106.654	-23.160	1.00	62.22	Al6s	ATOM	32600	C2	624	114.908	108.825	-28.458	1.00	65.23	Al6
ATOM	32548	O5	622	108.094	107.529	-22.589	1.00	62.22	Al6s	ATOM	32601	O2	624	116.639	112.576	-29.494	1.00	48.80	Al6
ATOM	32549	C5	622	108.896	106.796	-21.631	1.00	62.22	Al6s	ATOM	32602	N3	624	117.402	112.376	-30.650	1.00	48.80	Al6
ATOM	32550	O4	622	110.189	107.376	-21.559	1.00	62.22	Al6s	ATOM	32603	O4	624	116.792	113.989	-28.967	1.00	48.80	Al6
ATOM	32551	O4	622	110.189	107.376	-21.559	1.00	62.22	Al6s	ATOM	32604	O4	624	118.076	114.472	-29.311	1.00	48.80	Al6
ATOM	32552	C1	622	111.195	106.383	-21.929	1.00	56.51	Al6s	ATOM	32605	C5	624	118.220	115.818	-30.177	1.00	48.56	Al6
ATOM	32553	N9	622	112.556	106.538	-21.801	1.00	56.51	Al6s	ATOM	32606	C2	624	117.496	116.894	-29.445	1.00	44.94	Al6
ATOM	32554	C4	622	113.187	107.615	-21.286	1.00	56.51	Al6s	ATOM	32607	O2	624	119.778	116.133	-30.103	1.00	48.56	Al6
ATOM	32555	N3	622	114.497	107.471	-21.301	1.00	56.51	Al6s	ATOM	32608	C3	624						Al6
ATOM	32556	C2	622	115.282	108.432	-20.811	1.00	56.51	Al6s	ATOM	32609	O3	624						Al6
ATOM	32557	N2	622	115.136	106.369	-21.793	1.00	56.51	Al6s	ATOM	32610	P	625						Al6
ATOM	32558	N1	622	114.509	105.253	-22.332	1.00	56.51	Al6s	ATOM	32611	O1P	625						Al6
ATOM	32559	C6	622	115.186	104.313	-22.755	1.00	56.51	Al6s	ATOM	32612	O2P	625						Al6
ATOM	32560	O6	622						Al6s	ATOM	32613	O5	625						Al6

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ATOM	32402	C2	ADE	615	126.887	92.466	-8.946	1.00	92.41	Al6s	ATOM	32455	O3	CYT	617	120.727	91.429	-18.919	1.00	42.52	Al6s
ATOM	32403	N4	ADE	615	125.734	91.972	-8.480	1.00	92.41	Al6s	ATOM	32456	P	GUA	618	119.471	92.073	-19.702	1.00	49.66	Al6s
ATOM	32404	C6	ADE	615	124.769	92.837	-8.099	1.00	92.41	Al6s	ATOM	32457	O1P	GUA	618	119.477	91.571	-21.112	1.00	51.45	Al6s
ATOM	32405	N6	ADE	615	123.622	92.344	-7.630	1.00	92.41	Al6s	ATOM	32458	O2P	GUA	618	119.462	93.531	-19.437	1.00	51.45	Al6s
ATOM	32406	C5	ADE	615	125.037	94.213	-8.222	1.00	92.41	Al6s	ATOM	32459	O5	GUA	618	118.197	91.461	-18.969	1.00	49.66	Al6s
ATOM	32407	N7	ADE	615	124.282	95.339	-7.931	1.00	92.41	Al6s	ATOM	32460	C5	GUA	618	117.882	90.064	-19.084	1.00	49.66	Al6s
ATOM	32408	C8	ADE	615	125.067	96.336	-8.256	1.00	92.41	Al6s	ATOM	32461	C4	GUA	618	116.517	89.777	-18.502	1.00	49.66	Al6s
ATOM	32409	C2	ADE	615	127.352	96.913	-10.773	1.00	67.36	Al6s	ATOM	32462	O4	GUA	618	116.542	89.952	-17.065	1.00	49.66	Al6s
ATOM	32410	O2	ADE	615	128.664	97.040	-11.269	1.00	67.36	Al6s	ATOM	32463	C1	GUA	618	115.282	90.418	-16.623	1.00	49.66	Al6s
ATOM	32411	O3	ADE	615	126.534	98.179	-10.978	1.00	67.36	Al6s	ATOM	32464	N9	GUA	618	115.468	91.716	-15.990	1.00	51.45	Al6s
ATOM	32412	O3	ADE	615	126.790	98.784	-13.419	1.00	67.36	Al6s	ATOM	32465	C4	GUA	618	114.534	92.394	-15.253	1.00	51.45	Al6s
ATOM	32413	P	GUA	616	125.711	98.631	-13.419	1.00	55.69	Al6s	ATOM	32466	N3	GUA	618	113.300	91.955	-14.948	1.00	51.45	Al6s
ATOM	32414	O1P	GUA	616	126.246	99.274	-14.650	1.00	71.23	Al6s	ATOM	32467	C2	GUA	618	112.634	92.831	-14.232	1.00	51.45	Al6s
ATOM	32415	O2P	GUA	616	124.391	99.048	-12.888	1.00	71.23	Al6s	ATOM	32468	N2	GUA	618	111.400	92.547	-13.813	1.00	51.45	Al6s
ATOM	32416	O5	GUA	616	125.637	97.063	-13.689	1.00	55.69	Al6s	ATOM	32469	N1	GUA	618	113.126	94.050	-13.863	1.00	51.45	Al6s
ATOM	32417	C5	GUA	616	126.831	96.283	-13.912	1.00	55.69	Al6s	ATOM	32470	C6	GUA	618	114.388	94.531	-14.178	1.00	51.45	Al6s
ATOM	32418	C4	GUA	616	126.502	94.807	-13.880	1.00	55.69	Al6s	ATOM	32471	O6	GUA	618	114.726	95.665	-13.815	1.00	51.45	Al6s
ATOM	32419	O4	GUA	616	126.232	94.370	-12.524	1.00	55.69	Al6s	ATOM	32472	C5	GUA	618	115.126	93.589	-14.922	1.00	51.45	Al6s
ATOM	32420	C1	GUA	616	125.178	93.423	-12.529	1.00	55.69	Al6s	ATOM	32473	N7	GUA	618	116.421	93.649	-15.414	1.00	51.45	Al6s
ATOM	32421	N9	GUA	616	124.050	93.998	-11.800	1.00	71.23	Al6s	ATOM	32474	C8	GUA	618	116.581	92.513	-16.036	1.00	51.45	Al6s
ATOM	32422	C4	GUA	616	123.000	93.305	-11.240	1.00	71.23	Al6s	ATOM	32475	C2	GUA	618	114.369	90.531	-17.843	1.00	49.66	Al6s
ATOM	32423	N3	GUA	616	122.846	91.960	-11.230	1.00	71.23	Al6s	ATOM	32476	O2	GUA	618	113.600	89.356	-17.933	1.00	49.66	Al6s
ATOM	32424	C2	GUA	616	121.731	91.598	-10.624	1.00	71.23	Al6s	ATOM	32477	C3	GUA	618	115.379	90.666	-18.972	1.00	49.66	Al6s
ATOM	32425	N2	GUA	616	121.425	90.303	-10.503	1.00	71.23	Al6s	ATOM	32478	O3	GUA	618	114.856	90.223	-20.215	1.00	49.66	Al6s
ATOM	32426	N1	GUA	616	120.835	92.482	-10.086	1.00	71.23	Al6s	ATOM	32479	P	URI	619	114.283	91.299	-21.256	1.00	49.36	Al6s
ATOM	32427	C6	GUA	616	120.967	93.866	-10.093	1.00	71.23	Al6s	ATOM	32480	O1P	URI	619	113.873	90.574	-22.340	1.00	52.59	Al6s
ATOM	32428	O6	GUA	616	120.086	94.570	-9.594	1.00	71.23	Al6s	ATOM	32481	O2P	URI	619	115.239	92.423	-21.391	1.00	52.59	Al6s
ATOM	32429	C5	GUA	616	122.165	94.270	-10.720	1.00	71.23	Al6s	ATOM	32482	O5	URI	619	112.988	91.850	-20.522	1.00	49.36	Al6s
ATOM	32430	N7	GUA	616	122.685	95.538	-10.927	1.00	71.23	Al6s	ATOM	32483	C5	URI	619	111.914	90.961	-20.181	1.00	49.36	Al6s
ATOM	32431	C8	GUA	616	123.803	95.329	-11.565	1.00	71.23	Al6s	ATOM	32484	C4	URI	619	110.820	91.710	-19.475	1.00	49.36	Al6s
ATOM	32432	C2	GUA	616	124.795	93.164	-13.988	1.00	55.69	Al6s	ATOM	32485	O4	URI	619	111.227	92.055	-18.128	1.00	49.36	Al6s
ATOM	32433	O2	GUA	616	125.249	92.029	-14.509	1.00	55.69	Al6s	ATOM	32486	C1	URI	619	110.637	93.284	-17.758	1.00	52.59	Al6s
ATOM	32434	C3	GUA	616	125.451	94.448	-14.646	1.00	55.69	Al6s	ATOM	32487	N1	URI	619	111.709	94.241	-17.447	1.00	52.59	Al6s
ATOM	32435	O3	GUA	616	125.486	94.308	-16.018	1.00	55.69	Al6s	ATOM	32488	C6	URI	619	112.945	94.138	-18.031	1.00	52.59	Al6s
ATOM	32436	P	CYT	617	124.430	94.921	-17.039	1.00	50.57	Al6s	ATOM	32489	C2	URI	619	111.430	95.269	-16.557	1.00	52.59	Al6s
ATOM	32437	O1P	CYT	617	125.024	94.948	-18.405	1.00	50.57	Al6s	ATOM	32490	O2	URI	619	110.359	95.395	-16.000	1.00	52.59	Al6s
ATOM	32438	O2P	CYT	617	123.934	96.183	-16.408	1.00	50.57	Al6s	ATOM	32491	N3	URI	619	112.457	96.152	-16.347	1.00	52.59	Al6s
ATOM	32439	O5	CYT	617	123.269	93.837	-17.072	1.00	42.52	Al6s	ATOM	32492	C4	URI	619	113.702	96.119	-16.920	1.00	52.59	Al6s
ATOM	32440	C5	CYT	617	123.506	92.556	-17.673	1.00	42.52	Al6s	ATOM	32493	O4	URI	619	114.488	97.038	-16.703	1.00	52.59	Al6s
ATOM	32441	C4	CYT	617	122.477	91.555	-17.217	1.00	42.52	Al6s	ATOM	32494	C5	URI	619	113.924	95.018	-17.806	1.00	52.59	Al6s
ATOM	32442	O4	CYT	617	122.488	91.481	-15.768	1.00	42.52	Al6s	ATOM	32495	C2	URI	619	109.760	93.736	-18.927	1.00	49.36	Al6s
ATOM	32443	C1	CYT	617	121.172	91.261	-15.299	1.00	42.52	Al6s	ATOM	32496	O2	URI	619	108.450	93.231	-18.739	1.00	49.36	Al6s
ATOM	32444	N1	CYT	617	120.752	92.424	-14.488	1.00	50.57	Al6s	ATOM	32497	C3	URI	619	110.425	93.033	-20.094	1.00	49.36	Al6s
ATOM	32445	C6	CYT	617	121.379	93.634	-14.598	1.00	50.57	Al6s	ATOM	32498	O3	URI	619	109.557	92.857	-21.201	1.00	49.36	Al6s
ATOM	32446	C2	CYT	617	119.671	92.278	-13.621	1.00	50.57	Al6s	ATOM	32499	P	GUA	620	109.501	93.990	-22.339	1.00	53.57	Al6s
ATOM	32447	O2	CYT	617	119.157	91.161	-13.494	1.00	50.57	Al6s	ATOM	32500	O1P	GUA	620	108.712	93.466	-23.488	1.00	60.00	Al6s
ATOM	32448	N3	CYT	617	119.214	93.351	-12.936	1.00	50.57	Al6s	ATOM	32501	O2P	GUA	620	110.889	94.479	-22.566	1.00	60.00	Al6s
ATOM	32449	C4	CYT	617	119.308	94.530	-13.077	1.00	50.57	Al6s	ATOM	32502	O5	GUA	620	108.665	95.152	-21.637	1.00	53.57	Al6s
ATOM	32450	N4	CYT	617	119.803	95.562	-12.407	1.00	50.57	Al6s	ATOM	32503	C5	GUA	620	107.293	94.940	-21.265	1.00	53.57	Al6s
ATOM	32451	C5	CYT	617	120.943	94.704	-13.916	1.00	50.57	Al6s	ATOM	32504	C4	GUA	620	106.742	96.151	-20.559	1.00	53.57	Al6s
ATOM	32452	C2	CYT	617	120.268	91.077	-16.522	1.00	42.52	Al6s	ATOM	32505	O4	GUA	620	107.362	96.292	-19.258	1.00	53.57	Al6s
ATOM	32453	O2	CYT	617	120.152	89.697	-16.820	1.00	42.52	Al6s	ATOM	32506	C1	GUA	620	107.522	97.666	-18.947	1.00	53.57	Al6s
ATOM	32454	C3	CYT	617	121.033	91.855	-17.588	1.00	42.52	Al6s	ATOM	32507	N9	GUA	620	108.951	97.949	-18.855	1.00	60.00	Al6s

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ATOM	32296	O2' GUA	610	114.142	97.809	11.731	1.00	65.64	Al6S	ATOM	32349	C5' GUA	613	120.251	103.141	0.248	1.00	100110.58	Al6
ATOM	32297	C3' GUA	610	114.179	95.408	11.345	1.00	65.64	Al6S	ATOM	32350	C4' GUA	613	121.688	102.708	0.038	1.00	100110.58	Al6
ATOM	32298	O3' GUA	610	113.103	95.676	10.469	1.00	65.64	Al6S	ATOM	32351	O4' GUA	613	122.121	101.853	1.132	1.00	100110.58	Al6
ATOM	32299	P GUA	611	113.351	95.634	8.882	1.00	79.29	Al6S	ATOM	32352	C1' GUA	613	123.043	100.888	0.650	1.00	100110.58	Al6
ATOM	32300	O1P GUA	611	112.026	95.686	8.195	1.00	79.91	Al6S	ATOM	32353	N9 GUA	613	122.482	99.554	0.866	1.00	98.80	Al6
ATOM	32301	O2P GUA	611	114.273	94.497	8.617	1.00	79.91	Al6S	ATOM	32354	C4 GUA	613	123.185	98.371	0.918	1.00	98.80	Al6
ATOM	32302	O5' GUA	611	114.137	96.986	8.576	1.00	79.29	Al6S	ATOM	32355	N3 GUA	613	124.526	98.239	0.811	1.00	98.80	Al6
ATOM	32303	C5' GUA	611	113.590	98.260	8.944	1.00	79.29	Al6S	ATOM	32356	C2' GUA	613	124.906	96.975	0.886	1.00	98.80	Al6
ATOM	32304	C4' GUA	611	114.627	99.337	8.767	1.00	79.29	Al6S	ATOM	32357	N2 GUA	613	126.212	96.664	0.811	1.00	98.80	Al6
ATOM	32305	O4' GUA	611	115.742	99.096	9.666	1.00	79.29	Al6S	ATOM	32358	N1 GUA	613	124.037	95.924	1.045	1.00	98.80	Al6
ATOM	32306	C1' GUA	611	116.949	99.546	9.062	1.00	79.29	Al6S	ATOM	32359	C6 GUA	613	122.656	96.038	1.158	1.00	98.80	Al6
ATOM	32307	N9 GUA	611	117.905	98.437	8.992	1.00	79.91	Al6S	ATOM	32360	O6 GUA	613	121.969	95.029	1.298	1.00	98.80	Al6
ATOM	32308	C4 GUA	611	119.256	98.536	8.710	1.00	79.91	Al6S	ATOM	32361	C5 GUA	613	122.235	97.387	1.086	1.00	98.80	Al6
ATOM	32309	N3 GUA	611	119.944	99.679	8.484	1.00	79.91	Al6S	ATOM	32362	N7 GUA	613	120.963	97.936	1.154	1.00	98.80	Al6
ATOM	32310	C2 GUA	611	121.219	99.446	8.202	1.00	79.91	Al6S	ATOM	32363	C8 GUA	613	121.156	99.220	1.026	1.00	98.80	Al6
ATOM	32311	N2 GUA	611	122.043	100.468	7.946	1.00	79.91	Al6S	ATOM	32364	C2' GUA	613	123.265	101.168	-0.838	1.00	100110.58	Al6
ATOM	32312	N1 GUA	611	121.779	98.196	8.149	1.00	79.91	Al6S	ATOM	32365	C3' GUA	613	124.423	101.963	-1.015	1.00	100110.58	Al6
ATOM	32313	C6 GUA	611	121.099	97.007	8.376	1.00	79.91	Al6S	ATOM	32366	C3' GUA	613	121.978	101.894	-1.211	1.00	100110.58	Al6
ATOM	32314	O6 GUA	611	121.702	95.934	8.285	1.00	79.91	Al6S	ATOM	32367	O3' GUA	614	122.109	102.693	-2.378	1.00	100110.58	Al6
ATOM	32315	C5 GUA	611	119.721	97.238	8.687	1.00	79.91	Al6S	ATOM	32368	P GUA	614	121.586	102.118	-3.785	1.00	100103.88	Al6
ATOM	32316	N7 GUA	611	118.699	96.344	8.980	1.00	79.91	Al6S	ATOM	32369	O1P GUA	614	120.219	101.580	-3.558	1.00	100126.80	Al6
ATOM	32317	C8 GUA	611	117.646	97.097	9.157	1.00	79.91	Al6S	ATOM	32370	O2P GUA	614	122.797	103.158	-4.823	1.00	100126.80	Al6
ATOM	32318	C2' GUA	611	116.595	100.104	7.681	1.00	79.29	Al6S	ATOM	32371	O5' GUA	614	122.559	100.884	-4.078	1.00	100103.88	Al6
ATOM	32319	O2' GUA	611	116.482	101.512	7.752	1.00	79.29	Al6S	ATOM	32372	C5' GUA	614	124.001	101.058	-4.096	1.00	100103.88	Al6
ATOM	32320	C3' GUA	611	115.268	99.411	7.393	1.00	79.29	Al6S	ATOM	32373	C4' GUA	614	124.712	99.726	-4.281	1.00	100103.88	Al6
ATOM	32321	O3' GUA	611	114.468	100.124	6.464	1.00	79.52	Al6S	ATOM	32374	O4' GUA	614	124.601	98.914	-3.083	1.00	100103.88	Al6
ATOM	32322	P GUA	612	114.663	99.865	4.889	1.00	81.52	Al6S	ATOM	32375	C1' GUA	614	124.476	97.545	-3.438	1.00	100103.88	Al6
ATOM	32323	O1P GUA	612	113.598	100.610	4.173	1.00	96.16	Al6S	ATOM	32376	N9 GUA	614	123.197	97.061	-2.915	1.00	100126.80	Al6
ATOM	32324	O2P GUA	612	114.821	98.408	4.650	1.00	96.16	Al6S	ATOM	32377	C4 GUA	614	122.800	95.747	-2.760	1.00	100126.80	Al6
ATOM	32325	O5' GUA	612	116.053	100.568	4.571	1.00	81.52	Al6S	ATOM	32378	N3 GUA	614	123.525	94.651	-3.073	1.00	100126.80	Al6
ATOM	32326	C5' GUA	612	116.215	101.981	4.777	1.00	81.52	Al6S	ATOM	32379	C2' GUA	614	122.868	93.531	-2.808	1.00	100126.80	Al6
ATOM	32327	C4' GUA	612	117.640	102.393	4.508	1.00	81.52	Al6S	ATOM	32380	N2 GUA	614	123.439	92.348	-3.055	1.00	100126.80	Al6
ATOM	32328	O4' GUA	612	118.513	101.804	5.508	1.00	81.52	Al6S	ATOM	32381	N1 GUA	614	121.602	93.489	-2.281	1.00	100126.80	Al6
ATOM	32329	C1' GUA	612	119.754	101.454	4.914	1.00	81.52	Al6S	ATOM	32382	C6 GUA	614	120.835	94.602	-1.951	1.00	100126.80	Al6
ATOM	32330	N9 GUA	612	119.912	100.000	4.977	1.00	96.16	Al6S	ATOM	32383	O6 GUA	614	119.698	94.453	-1.481	1.00	100126.80	Al6
ATOM	32331	C4 GUA	612	121.069	99.289	4.738	1.00	96.16	Al6S	ATOM	32384	C5 GUA	614	121.526	95.812	-2.227	1.00	100126.80	Al6
ATOM	32332	N3 GUA	612	122.269	99.813	4.416	1.00	96.16	Al6S	ATOM	32385	N7 GUA	614	121.130	97.131	-2.052	1.00	100126.80	Al6
ATOM	32333	C2 GUA	612	123.182	98.876	4.225	1.00	96.16	Al6S	ATOM	32386	C8 GUA	614	122.146	97.834	-2.473	1.00	100126.80	Al6
ATOM	32334	N2 GUA	612	124.430	99.224	3.888	1.00	96.16	Al6S	ATOM	32387	C2' GUA	614	124.611	97.444	-4.962	1.00	100103.88	Al6
ATOM	32335	N1 GUA	612	122.941	97.529	4.349	1.00	96.16	Al6S	ATOM	32388	O2' GUA	614	125.946	97.106	-5.296	1.00	100103.88	Al6
ATOM	32336	C6 GUA	612	121.717	96.964	4.684	1.00	96.16	Al6S	ATOM	32389	C3' GUA	614	124.200	98.849	-5.410	1.00	100103.88	Al6
ATOM	32337	O6 GUA	612	121.610	95.734	4.775	1.00	96.16	Al6S	ATOM	32390	O3' GUA	614	124.786	99.228	-6.651	1.00	100103.88	Al6
ATOM	32338	C5 GUA	612	120.721	97.962	4.884	1.00	96.16	Al6S	ATOM	32391	P ADE	615	123.859	99.832	-7.824	1.00	97.36	Al6
ATOM	32339	N7 GUA	612	119.377	97.838	5.215	1.00	96.16	Al6S	ATOM	32392	O1P ADE	615	123.805	101.310	-7.659	1.00	92.41	Al6
ATOM	32340	C8 GUA	612	118.940	99.068	5.263	1.00	96.16	Al6S	ATOM	32393	O2P ADE	615	122.585	99.065	-7.893	1.00	92.41	Al6
ATOM	32341	C2' GUA	612	119.715	101.945	3.466	1.00	81.52	Al6S	ATOM	32394	O5' ADE	615	124.693	99.515	-9.146	1.00	67.36	Al6
ATOM	32342	C3' GUA	612	120.267	103.247	3.400	1.00	81.52	Al6S	ATOM	32395	C5' ADE	615	125.984	100.099	-9.366	1.00	67.36	Al6
ATOM	32343	O2' GUA	612	118.220	101.935	3.181	1.00	81.52	Al6S	ATOM	32396	C4' ADE	615	126.969	99.043	-9.808	1.00	67.36	Al6
ATOM	32344	O3' GUA	612	117.864	102.780	2.095	1.00	81.52	Al6S	ATOM	32397	O4' ADE	615	127.192	98.105	-8.723	1.00	67.36	Al6
ATOM	32345	P GUA	613	117.821	102.176	0.600	1.00	100110.58	Al6S	ATOM	32398	C1' ADE	615	127.375	96.799	-9.248	1.00	67.36	Al6
ATOM	32346	O1P GUA	613	117.226	103.222	-0.275	1.00	98.80	Al6S	ATOM	32399	N9 ADE	615	126.288	95.945	-8.754	1.00	92.41	Al6
ATOM	32347	O2P GUA	613	117.213	100.818	0.639	1.00	98.80	Al6S	ATOM	32400	C4 ADE	615	126.277	94.570	-8.723	1.00	92.41	Al6
ATOM	32348	O5' GUA	613	119.357	102.009	0.206	1.00	100110.58	Al6S	ATOM	32401	N3 ADE	615	127.258	93.735	-9.107	1.00	92.41	Al6

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ATOM	32190	02' ADE	605	136.664	89.084	20.340	1.00	54.42	Al6s	ATOM	32243	N3	GUA	608	119.933	92.104	18.950	1.00	71.29	Al6
ATOM	32191	03' ADE	605	134.793	90.552	19.891	1.00	54.42	Al6s	ATOM	32244	C2	GUA	608	120.061	93.417	18.897	1.00	71.29	Al6
ATOM	32192	03' ADE	605	135.093	90.351	18.526	1.00	54.42	Al6s	ATOM	32245	N2	GUA	608	119.921	94.199	19.200	1.00	71.29	Al6
ATOM	32193	P	606	133.894	90.245	17.477	1.00	53.74	Al6s	ATOM	32246	N1	GUA	608	121.213	94.059	18.538	1.00	71.29	Al6
ATOM	32194	01P	606	134.442	89.743	16.204	1.00	54.21	Al6s	ATOM	32247	C6	GUA	608	122.394	93.434	18.165	1.00	71.29	Al6
ATOM	32195	02P	606	133.175	91.539	17.497	1.00	54.21	Al6s	ATOM	32248	O6	GUA	608	123.376	94.114	17.863	1.00	71.29	Al6
ATOM	32196	05' CYT	606	132.941	89.128	18.100	1.00	53.74	Al6s	ATOM	32249	C5	GUA	608	122.271	92.024	18.200	1.00	71.29	Al6
ATOM	32197	C5' CYT	606	133.363	87.745	18.177	1.00	53.74	Al6s	ATOM	32250	N7	GUA	608	123.197	91.032	17.900	1.00	71.29	Al6
ATOM	32198	C4' CYT	606	132.305	86.889	18.851	1.00	53.74	Al6s	ATOM	32251	C8	GUA	608	122.559	89.914	18.118	1.00	71.29	Al6
ATOM	32199	C4' CYT	606	132.198	87.254	20.251	1.00	53.74	Al6s	ATOM	32252	C2'	GUA	608	119.145	88.938	17.873	1.00	45.44	Al6
ATOM	32200	C1' CYT	606	130.839	87.217	20.654	1.00	53.74	Al6s	ATOM	32253	O2'	GUA	608	117.921	88.694	18.544	1.00	45.44	Al6
ATOM	32201	N1	606	130.425	88.594	20.972	1.00	54.21	Al6s	ATOM	32254	C3'	GUA	608	119.610	87.759	17.020	1.00	45.44	Al6
ATOM	32202	C6	606	131.196	89.658	20.595	1.00	54.21	Al6s	ATOM	32255	O3'	GUA	608	118.520	87.070	16.399	1.00	45.44	Al6
ATOM	32203	C2	606	129.229	88.801	21.662	1.00	54.21	Al6s	ATOM	32256	P	URI	609	117.987	87.558	14.966	1.00	64.04	Al6
ATOM	32204	O2	606	128.534	87.826	21.975	1.00	54.21	Al6s	ATOM	32257	01P	URI	609	116.924	86.642	14.505	1.00	64.95	Al6
ATOM	32205	N3	606	128.857	90.059	21.963	1.00	54.21	Al6s	ATOM	32258	O2P	URI	609	119.170	87.788	14.106	1.00	64.95	Al6
ATOM	32206	C4	606	129.620	91.088	21.593	1.00	54.21	Al6s	ATOM	32259	O5'	URI	609	117.318	88.964	15.293	1.00	64.04	Al6
ATOM	32207	N4	606	129.213	92.314	21.916	1.00	54.21	Al6s	ATOM	32260	C5'	URI	609	116.157	89.050	16.142	1.00	64.04	Al6
ATOM	32208	C5'	606	130.832	90.906	20.878	1.00	54.21	Al6s	ATOM	32261	C4'	URI	609	116.608	91.264	17.022	1.00	64.04	Al6
ATOM	32209	C2'	606	130.028	86.650	19.492	1.00	53.74	Al6s	ATOM	32262	O4'	URI	609	116.712	92.571	16.484	1.00	64.04	Al6
ATOM	32210	O2'	606	129.887	85.258	19.655	1.00	53.74	Al6s	ATOM	32263	C1'	URI	609	118.114	92.807	16.100	1.00	64.95	Al6
ATOM	32211	C3'	606	130.896	87.027	18.301	1.00	53.74	Al6s	ATOM	32264	N1	URI	609	118.990	91.764	15.904	1.00	64.95	Al6
ATOM	32212	O3'	606	130.663	86.185	17.188	1.00	53.74	Al6s	ATOM	32265	C6	URI	609	118.530	94.118	15.935	1.00	64.95	Al6
ATOM	32213	P	607	129.526	86.584	16.126	1.00	66.18	Al6s	ATOM	32266	C2	URI	609	117.790	95.076	16.087	1.00	64.95	Al6
ATOM	32214	01P	607	129.451	85.527	15.072	1.00	66.18	Al6s	ATOM	32267	O2	URI	609	119.845	94.268	15.574	1.00	64.95	Al6
ATOM	32215	02P	607	129.765	87.996	15.727	1.00	66.18	Al6s	ATOM	32268	N3	URI	609	120.764	93.272	15.356	1.00	64.95	Al6
ATOM	32216	C5'	607	128.189	86.552	16.990	1.00	46.52	Al6s	ATOM	32269	C4	URI	609	121.897	93.569	14.987	1.00	64.95	Al6
ATOM	32217	C5'	607	127.713	85.327	17.567	1.00	46.52	Al6s	ATOM	32270	O4	URI	609	120.264	91.947	15.546	1.00	64.95	Al6
ATOM	32218	C4'	607	126.442	85.574	18.337	1.00	46.52	Al6s	ATOM	32271	C5	URI	609	115.738	92.674	15.306	1.00	64.04	Al6
ATOM	32219	O4'	607	126.741	86.380	19.498	1.00	46.52	Al6s	ATOM	32272	C2'	URI	609	114.525	93.255	15.730	1.00	64.04	Al6
ATOM	32220	C1'	607	125.651	87.243	19.763	1.00	46.52	Al6s	ATOM	32273	O2'	URI	609	115.577	91.215	14.909	1.00	64.04	Al6
ATOM	32221	N1	607	126.119	88.632	19.711	1.00	66.18	Al6s	ATOM	32274	C3'	URI	609	114.341	90.971	14.267	1.00	64.04	Al6
ATOM	32222	C6	607	127.202	88.978	18.956	1.00	66.18	Al6s	ATOM	32275	O3'	URI	609	114.239	91.136	12.675	1.00	65.64	Al6
ATOM	32223	C2	607	125.428	89.602	20.443	1.00	66.18	Al6s	ATOM	32276	P	GUA	610	112.876	90.688	12.255	1.00	72.08	Al6
ATOM	32224	O2	607	124.448	89.260	21.129	1.00	66.18	Al6s	ATOM	32277	01P	GUA	610	115.438	90.504	12.073	1.00	72.08	Al6
ATOM	32225	N3	607	125.842	90.884	20.385	1.00	66.18	Al6s	ATOM	32278	O2P	GUA	610	114.349	92.708	12.454	1.00	65.64	Al6
ATOM	32226	C4	607	126.900	91.210	19.638	1.00	66.18	Al6s	ATOM	32279	O5'	GUA	610	113.309	93.577	12.915	1.00	65.64	Al6
ATOM	32227	N4	607	127.275	92.491	19.606	1.00	66.18	Al6s	ATOM	32280	C5'	GUA	610	113.702	95.014	12.727	1.00	65.64	Al6
ATOM	32228	C5	607	127.622	90.240	18.892	1.00	66.18	Al6s	ATOM	32281	O4'	GUA	610	114.815	95.341	13.590	1.00	65.64	Al6
ATOM	32229	C2'	607	124.557	86.970	18.731	1.00	46.52	Al6s	ATOM	32282	O4'	GUA	610	115.596	96.351	12.980	1.00	65.64	Al6
ATOM	32230	O2'	607	123.611	86.094	19.305	1.00	46.52	Al6s	ATOM	32283	C1'	GUA	610	116.966	95.875	12.821	1.00	72.08	Al6
ATOM	32231	C3'	607	125.347	86.331	17.598	1.00	46.52	Al6s	ATOM	32284	N9	GUA	610	118.060	96.662	12.543	1.00	72.08	Al6
ATOM	32232	O3'	607	124.532	85.451	16.838	1.00	46.52	Al6s	ATOM	32285	C3	GUA	610	118.058	98.008	12.411	1.00	72.08	Al6
ATOM	32233	P	608	123.476	86.052	15.792	1.00	45.44	Al6s	ATOM	32286	N3	GUA	610	119.257	98.479	12.124	1.00	72.08	Al6
ATOM	32234	01P	608	122.781	84.945	15.085	1.00	71.29	Al6s	ATOM	32287	C2	GUA	610	119.439	99.796	11.960	1.00	72.08	Al6
ATOM	32235	02P	608	124.186	87.095	15.005	1.00	71.29	Al6s	ATOM	32288	N2	GUA	610	120.365	97.692	11.976	1.00	72.08	Al6
ATOM	32236	O5'	608	122.379	86.756	16.704	1.00	45.44	Al6s	ATOM	32289	N1	GUA	610	120.388	96.307	12.103	1.00	72.08	Al6
ATOM	32237	C5'	608	121.416	85.982	17.443	1.00	45.44	Al6s	ATOM	32290	C6	GUA	610	121.442	95.694	11.937	1.00	72.08	Al6
ATOM	32238	C4'	608	120.352	86.886	18.025	1.00	45.44	Al6s	ATOM	32291	O6	GUA	610	119.113	95.790	12.417	1.00	72.08	Al6
ATOM	32239	O4'	608	120.957	87.820	18.960	1.00	45.44	Al6s	ATOM	32292	C5	GUA	610	118.701	94.483	12.636	1.00	72.08	Al6
ATOM	32240	C1'	608	120.287	89.068	18.888	1.00	45.44	Al6s	ATOM	32293	N7	GUA	610	117.423	94.583	12.878	1.00	72.08	Al6
ATOM	32241	N9	608	121.264	90.103	18.544	1.00	71.29	Al6s	ATOM	32294	C8	GUA	610	114.973	96.671	11.623	1.00	65.64	Al6
ATOM	32242	C4	608	121.071	91.471	18.591	1.00	71.29	Al6s	ATOM	32295	C2'	GUA	610						Al6

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ATOM	32084	C8	GUA	600	122.792	92.795	24.799	1.00	67.06	Al6S	ATOM	32137	N1	CYT	603	132.990	94.233	29.648	1.00	46.00	Al6
ATOM	32085	C2' GUA	600	121.981	90.144	26.915	1.00	60.58	Al6S	ATOM	32138	C6	CYT	603	132.270	93.088	29.848	1.00	46.00	Al6	
ATOM	32086	O2' GUA	600	121.460	88.838	27.080	1.00	60.58	Al6S	ATOM	32139	C2	CYT	603	134.388	94.201	29.684	1.00	46.00	Al6	
ATOM	32087	C3' GUA	600	121.225	91.192	27.723	1.00	60.58	Al6S	ATOM	32140	O2	CYT	603	135.023	95.242	29.459	1.00	46.00	Al6	
ATOM	32088	O3' GUA	600	120.932	90.697	28.985	1.00	60.58	Al6S	ATOM	32141	N3	CYT	603	135.014	93.041	29.962	1.00	46.00	Al6	
ATOM	32089	P	CYT	601	121.686	91.088	30.287	1.00	66.06	Al6S	ATOM	32142	C4	CYT	603	134.305	91.937	30.186	1.00	46.00	Al6
ATOM	32090	O1P	CYT	601	121.000	90.432	31.435	1.00	69.35	Al6S	ATOM	32143	N4	CYT	603	134.973	90.827	30.478	1.00	46.00	Al6
ATOM	32091	O2P	CYT	601	121.877	92.562	30.283	1.00	69.35	Al6S	ATOM	32144	C5	CYT	603	132.882	91.928	30.123	1.00	46.00	Al6
ATOM	32092	O5' CYT	601	123.112	90.394	30.077	1.00	66.06	Al6S	ATOM	32145	C2' CYT	603	132.004	95.872	27.965	1.00	53.98	Al6		
ATOM	32093	C5' CYT	601	123.260	88.991	30.322	1.00	66.06	Al6S	ATOM	32146	O2' CYT	603	132.337	97.233	27.769	1.00	53.98	Al6		
ATOM	32094	O4' CYT	601	124.661	88.496	30.013	1.00	66.06	Al6S	ATOM	32147	C3' CYT	603	130.500	95.653	27.918	1.00	53.98	Al6		
ATOM	32095	O4' CYT	601	125.015	88.708	28.626	1.00	66.06	Al6S	ATOM	32148	O3' CYT	603	129.897	96.480	26.947	1.00	53.98	Al6		
ATOM	32096	C1' CYT	601	126.384	88.413	28.490	1.00	66.06	Al6S	ATOM	32149	P	604	129.456	95.855	25.542	1.00	50.64	Al6		
ATOM	32097	N1	CYT	601	127.052	89.347	27.580	1.00	69.35	Al6S	ATOM	32150	O1P	604	128.914	96.960	24.721	1.00	75.62	Al6	
ATOM	32098	C6	CYT	601	126.904	90.699	27.694	1.00	69.35	Al6S	ATOM	32151	O2P	604	128.607	94.679	25.812	1.00	75.62	Al6	
ATOM	32099	C2	CYT	601	127.892	88.812	26.609	1.00	69.35	Al6S	ATOM	32152	O5' ADE	604	130.841	95.393	24.904	1.00	50.64	Al6	
ATOM	32100	O2	CYT	601	127.961	87.580	26.491	1.00	69.35	Al6S	ATOM	32153	C5' ADE	604	131.867	96.369	24.623	1.00	50.64	Al6	
ATOM	32101	N3	CYT	601	128.603	89.640	25.820	1.00	69.35	Al6S	ATOM	32154	C4' ADE	604	133.204	95.701	24.406	1.00	50.64	Al6	
ATOM	32102	C4	CYT	601	128.485	90.954	25.960	1.00	69.35	Al6S	ATOM	32155	O4' ADE	604	133.629	95.039	25.622	1.00	50.64	Al6	
ATOM	32103	N4	CYT	601	129.224	91.723	25.170	1.00	69.35	Al6S	ATOM	32156	C1' ADE	604	134.314	93.841	25.303	1.00	50.64	Al6	
ATOM	32104	C5	CYT	601	127.603	91.532	26.915	1.00	69.35	Al6S	ATOM	32157	N9	604	133.605	92.720	25.933	1.00	75.62	Al6	
ATOM	32105	C2' CYT	601	127.012	88.430	29.881	1.00	66.06	Al6S	ATOM	32158	N4	604	134.134	91.494	26.267	1.00	75.62	Al6		
ATOM	32106	O2' CYT	601	127.312	87.085	30.192	1.00	66.06	Al6S	ATOM	32159	N3	604	135.396	91.073	26.089	1.00	75.62	Al6		
ATOM	32107	C3' CYT	601	125.893	89.003	30.752	1.00	66.06	Al6S	ATOM	32160	C2	604	135.546	89.831	26.540	1.00	75.62	Al6		
ATOM	32108	O3' CYT	601	125.998	88.442	32.066	1.00	66.06	Al6S	ATOM	32161	N1	604	134.648	89.023	27.112	1.00	75.62	Al6		
ATOM	32109	P	URI	602	127.346	88.651	32.948	1.00	59.94	Al6S	ATOM	32162	C6	604	133.391	88.477	27.282	1.00	75.62	Al6	
ATOM	32110	O1P	URI	602	128.532	88.097	32.236	1.00	57.15	Al6S	ATOM	32163	N6	604	132.501	88.673	27.860	1.00	75.62	Al6	
ATOM	32111	O2P	URI	602	127.072	88.211	34.348	1.00	57.15	Al6S	ATOM	32164	C5	604	133.099	90.778	26.838	1.00	75.62	Al6	
ATOM	32112	O5' URI	602	127.567	90.225	32.974	1.00	59.94	Al6S	ATOM	32165	N7	604	131.936	91.531	26.861	1.00	75.62	Al6		
ATOM	32113	C5' URI	602	126.544	91.116	33.422	1.00	59.94	Al6S	ATOM	32166	C8	604	132.286	92.669	26.315	1.00	75.62	Al6		
ATOM	32114	C4' URI	602	127.152	92.450	33.740	1.00	59.94	Al6S	ATOM	32167	C2' ADE	604	134.403	93.753	23.776	1.00	50.64	Al6		
ATOM	32115	O4' URI	602	128.031	92.321	34.882	1.00	59.94	Al6S	ATOM	32168	O2' ADE	604	135.644	94.274	23.345	1.00	50.64	Al6		
ATOM	32116	C1' URI	602	129.123	93.201	34.737	1.00	59.94	Al6S	ATOM	32169	C3' ADE	604	133.232	94.623	23.342	1.00	50.64	Al6		
ATOM	32117	N1	URI	602	130.368	92.435	34.859	1.00	57.15	Al6S	ATOM	32170	O3' ADE	604	133.420	95.177	22.050	1.00	50.64	Al6	
ATOM	32118	C6	URI	602	130.536	91.228	34.225	1.00	57.15	Al6S	ATOM	32171	P	605	132.666	94.519	20.805	1.00	54.42	Al6	
ATOM	32119	C2	URI	602	131.385	92.983	35.621	1.00	57.15	Al6S	ATOM	32172	O1P	605	132.901	95.376	19.622	1.00	59.68	Al6	
ATOM	32120	O2	URI	602	131.276	94.041	36.224	1.00	57.15	Al6S	ATOM	32173	O2P	605	131.274	94.234	21.231	1.00	59.68	Al6	
ATOM	32121	N3	URI	602	132.542	92.251	35.653	1.00	57.15	Al6S	ATOM	32174	O5' ADE	605	134.445	93.139	20.610	1.00	54.42	Al6	
ATOM	32122	C4	URI	602	132.784	91.059	35.046	1.00	57.15	Al6S	ATOM	32175	C5' ADE	605	134.844	93.135	20.232	1.00	54.42	Al6	
ATOM	32123	O4	URI	602	133.904	90.558	35.105	1.00	57.15	Al6S	ATOM	32176	C4' ADE	605	135.485	91.775	20.468	1.00	54.42	Al6	
ATOM	32124	C5	URI	602	131.679	90.541	34.279	1.00	57.15	Al6S	ATOM	32177	O4' ADE	605	135.593	91.498	21.887	1.00	54.42	Al6	
ATOM	32125	C2' URI	602	128.987	93.920	33.393	1.00	59.94	Al6S	ATOM	32178	C1' ADE	605	135.428	89.109	22.116	1.00	54.42	Al6		
ATOM	32126	O2' URI	602	128.468	95.216	33.599	1.00	59.94	Al6S	ATOM	32179	N9	605	134.161	90.913	22.823	1.00	59.68	Al6		
ATOM	32127	C3' URI	602	128.037	93.000	32.641	1.00	59.94	Al6S	ATOM	32180	C4	605	133.737	88.756	23.426	1.00	59.68	Al6		
ATOM	32128	O3' URI	602	127.259	93.668	31.664	1.00	59.94	Al6S	ATOM	32181	N3	605	134.413	87.603	23.540	1.00	59.68	Al6		
ATOM	32129	P	CYT	603	127.472	93.317	30.113	1.00	53.98	Al6S	ATOM	32182	C2	605	133.675	86.693	24.162	1.00	59.68	Al6	
ATOM	32130	O1P	CYT	603	126.323	93.842	29.293	1.00	46.00	Al6S	ATOM	32183	N1	605	132.429	86.795	24.636	1.00	59.68	Al6	
ATOM	32131	O2P	CYT	603	127.829	91.878	29.044	1.00	46.00	Al6S	ATOM	32184	C6	605	131.781	87.968	24.493	1.00	59.68	Al6	
ATOM	32132	O5' CYT	603	128.777	94.134	29.737	1.00	53.98	Al6S	ATOM	32185	N6	605	130.535	88.070	24.941	1.00	59.68	Al6		
ATOM	32133	C5' CYT	603	128.768	95.543	29.794	1.00	53.98	Al6S	ATOM	32186	C5	605	132.457	89.013	23.871	1.00	59.68	Al6		
ATOM	32134	C4' CYT	603	130.074	96.074	29.311	1.00	53.98	Al6S	ATOM	32187	N7	605	132.090	90.316	23.593	1.00	59.68	Al6		
ATOM	32135	O4' CYT	603	131.127	95.575	30.160	1.00	53.98	Al6S	ATOM	32188	C8	605	133.135	90.810	22.982	1.00	59.68	Al6		
ATOM	32136	C1' CYT	603	132.327	95.527	29.418	1.00	53.98	Al6S	ATOM	32189	C2' ADE	605	135.360	89.435	20.747	1.00	54.42	Al6		

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ATOM	31978	O2' CYT	595	127.804	102.144	7.806	1.00	61.82	Al6S	ATOM	32031	N1	CYT	598	120.077	99.051	19.057	1.00	82.89	Al6
ATOM	31979	C3' CYT	595	129.049	100.535	9.122	1.00	61.82	Al6S	ATOM	32032	C6	CYT	598	121.175	99.846	18.871	1.00	82.89	Al6
ATOM	31980	O3' CYT	595	129.616	101.662	9.769	1.00	61.82	Al6S	ATOM	32033	C2	CYT	598	120.159	97.669	18.805	1.00	82.89	Al6
ATOM	31981	P	596	129.482	101.812	11.361	1.00	56.20	Al6S	ATOM	32034	O2	CYT	598	119.146	96.962	18.951	1.00	82.89	Al6
ATOM	31982	01P CYT	596	130.396	102.914	11.784	1.00	66.69	Al6S	ATOM	32035	N3	CYT	598	121.343	97.141	18.409	1.00	82.89	Al6
ATOM	31983	02P CYT	596	129.633	100.465	11.971	1.00	66.69	Al6S	ATOM	32036	C4	CYT	598	122.408	97.928	18.250	1.00	82.89	Al6
ATOM	31984	O5' CYT	596	127.967	102.280	11.543	1.00	56.20	Al6S	ATOM	32037	N4	CYT	598	123.555	97.362	17.873	1.00	82.89	Al6
ATOM	31985	C5' CYT	596	127.520	103.537	11.008	1.00	56.20	Al6S	ATOM	32038	C5	CYT	598	122.346	99.331	18.474	1.00	82.89	Al6
ATOM	31986	C4' CYT	596	126.039	103.728	11.248	1.00	56.20	Al6S	ATOM	32039	C2' CYT	598	118.733	99.516	21.075	1.00	62.93	Al6	
ATOM	31987	C4' CYT	596	125.265	102.919	10.327	1.00	56.20	Al6S	ATOM	32040	O2' CYT	598	117.383	99.452	21.491	1.00	62.93	Al6	
ATOM	31988	C1' CYT	596	124.056	102.512	10.954	1.00	56.20	Al6S	ATOM	32041	C3' CYT	598	119.369	100.826	21.494	1.00	62.93	Al6	
ATOM	31989	N1 CYT	596	124.047	101.036	11.065	1.00	66.69	Al6S	ATOM	32042	O3' CYT	598	119.007	101.146	22.822	1.00	62.93	Al6	
ATOM	31990	C6 CYT	596	125.212	100.343	11.244	1.00	66.69	Al6S	ATOM	32043	P	GUA	599	119.898	100.576	24.038	1.00	73.91	Al6
ATOM	31991	C2 CYT	596	122.822	100.351	11.010	1.00	66.69	Al6S	ATOM	32044	01P GUA	599	119.312	101.111	25.297	1.00	89.58	Al6	
ATOM	31992	O2 CYT	596	121.775	100.993	10.827	1.00	66.69	Al6S	ATOM	32045	02P GUA	599	121.333	100.827	23.735	1.00	89.58	Al6	
ATOM	31993	N3 CYT	596	122.814	99.009	11.160	1.00	66.69	Al6S	ATOM	32046	O5' GUA	599	119.673	98.992	23.995	1.00	73.91	Al6	
ATOM	31994	C4 CYT	596	123.959	98.351	11.352	1.00	66.69	Al6S	ATOM	32047	C5' GUA	599	118.374	98.415	24.256	1.00	73.91	Al6	
ATOM	31995	N4 CYT	596	123.905	97.028	11.511	1.00	66.69	Al6S	ATOM	32048	C4' GUA	599	118.389	96.912	24.042	1.00	73.91	Al6	
ATOM	31996	C5 CYT	596	125.212	99.017	11.394	1.00	66.69	Al6S	ATOM	32049	O4' GUA	599	119.507	95.389	22.641	1.00	73.91	Al6	
ATOM	31997	C2' CYT	596	124.018	103.167	12.337	1.00	56.20	Al6S	ATOM	32050	C1' GUA	599	120.875	95.653	22.195	1.00	89.58	Al6	
ATOM	31998	O2' CYT	596	123.348	104.404	12.255	1.00	56.20	Al6S	ATOM	32051	N9	GUA	599	121.799	94.711	21.797	1.00	89.58	Al6
ATOM	31999	C3' CYT	596	125.494	103.374	12.625	1.00	56.20	Al6S	ATOM	32052	C3	GUA	599	121.591	93.380	21.715	1.00	89.58	Al6
ATOM	32000	O3' CYT	596	125.677	104.412	13.577	1.00	56.20	Al6S	ATOM	32053	N3	GUA	599	122.678	92.736	21.341	1.00	89.58	Al6
ATOM	32001	P	597	125.717	104.060	15.146	1.00	76.54	Al6S	ATOM	32054	C2	GUA	599	122.657	91.406	21.233	1.00	89.58	Al6
ATOM	32002	01P ADE	597	126.078	105.322	15.847	1.00	71.28	Al6S	ATOM	32055	N2	GUA	599	124.107	94.714	21.128	1.00	89.58	Al6
ATOM	32003	02P ADE	597	126.546	102.840	15.362	1.00	76.54	Al6S	ATOM	32056	N1	GUA	599	125.229	95.166	20.855	1.00	89.58	Al6
ATOM	32004	O5' ADE	597	124.196	103.720	15.482	1.00	76.54	Al6S	ATOM	32057	O6	GUA	599	124.107	94.714	21.128	1.00	89.58	Al6
ATOM	32005	C5' ADE	597	121.800	104.060	15.350	1.00	76.54	Al6S	ATOM	32058	C5	GUA	599	122.952	95.418	21.537	1.00	89.58	Al6
ATOM	32006	C4' ADE	597	121.568	103.093	14.294	1.00	76.54	Al6S	ATOM	32059	C5	GUA	599	122.756	96.876	22.124	1.00	89.58	Al6
ATOM	32007	O4' ADE	597	121.568	103.093	14.294	1.00	76.54	Al6S	ATOM	32060	N7	GUA	599	121.512	96.876	22.124	1.00	89.58	Al6
ATOM	32008	C1' ADE	597	120.743	102.048	14.779	1.00	76.54	Al6S	ATOM	32061	C8	GUA	599	119.517	94.822	24.060	1.00	73.91	Al6
ATOM	32009	N9	597	121.509	100.800	14.758	1.00	71.28	Al6S	ATOM	32062	O2' GUA	599	119.338	96.083	26.894	1.00	73.91	Al6	
ATOM	32010	C4	597	120.983	99.543	14.929	1.00	71.28	Al6S	ATOM	32063	O2' GUA	599	118.467	93.890	24.204	1.00	73.91	Al6	
ATOM	32011	N3	597	119.693	99.219	15.111	1.00	71.28	Al6S	ATOM	32064	C3' GUA	599	119.815	95.773	26.172	1.00	73.91	Al6	
ATOM	32012	C2	597	119.558	97.911	15.267	1.00	71.28	Al6S	ATOM	32065	O3' GUA	599	119.030	95.392	28.624	1.00	67.06	Al6	
ATOM	32013	N1	597	120.488	96.961	15.261	1.00	71.28	Al6S	ATOM	32066	P	GUA	599	120.018	91.478	26.856	1.00	60.58	Al6
ATOM	32014	C6	597	121.775	97.318	15.079	1.00	71.28	Al6S	ATOM	32067	01P GUA	600	119.030	95.392	28.624	1.00	67.06	Al6	
ATOM	32015	N6	597	122.705	96.366	15.083	1.00	71.28	Al6S	ATOM	32068	02P GUA	600	121.002	96.305	27.257	1.00	67.06	Al6	
ATOM	32016	C5	597	122.056	98.678	14.900	1.00	71.28	Al6S	ATOM	32069	O5' GUA	600	120.279	93.906	27.061	1.00	60.58	Al6	
ATOM	32017	N7	597	123.242	99.370	14.696	1.00	71.28	Al6S	ATOM	32070	C5' GUA	600	120.018	91.478	26.856	1.00	60.58	Al6	
ATOM	32018	C8	597	122.863	100.621	14.610	1.00	71.28	Al6S	ATOM	32071	C4' GUA	600	120.018	91.478	26.856	1.00	60.58	Al6	
ATOM	32019	C2' ADE	597	120.368	102.399	16.219	1.00	76.54	Al6S	ATOM	32072	O4' GUA	600	120.515	91.364	25.496	1.00	60.58	Al6	
ATOM	32020	O2' ADE	597	119.124	103.072	16.241	1.00	76.54	Al6S	ATOM	32073	C1' GUA	600	121.715	90.601	25.482	1.00	60.58	Al6	
ATOM	32021	C3' ADE	597	121.531	103.289	16.626	1.00	76.54	Al6S	ATOM	32074	N9	GUA	600	122.797	91.428	24.948	1.00	67.06	Al6
ATOM	32022	O3' ADE	597	121.217	104.132	17.715	1.00	76.54	Al6S	ATOM	32075	C4	GUA	600	124.031	90.998	24.503	1.00	67.06	Al6
ATOM	32023	P	598	121.897	103.853	19.140	1.00	62.93	Al6S	ATOM	32076	N3	GUA	600	124.467	89.721	24.468	1.00	67.06	Al6
ATOM	32024	01P CYT	598	121.729	105.094	19.935	1.00	82.89	Al6S	ATOM	32077	C2	GUA	600	125.997	89.633	23.987	1.00	67.06	Al6
ATOM	32025	02P CYT	598	123.265	103.301	18.923	1.00	82.89	Al6S	ATOM	32078	N2	GUA	600	126.288	88.439	23.868	1.00	67.06	Al6
ATOM	32026	O5' CYT	598	120.968	102.732	19.788	1.00	62.93	Al6S	ATOM	32079	N1	GUA	600	126.440	90.707	23.584	1.00	67.06	Al6
ATOM	32027	C5' CYT	598	119.619	103.048	20.194	1.00	62.93	Al6S	ATOM	32080	C6	GUA	600	126.018	92.028	23.616	1.00	67.06	Al6
ATOM	32028	C4' CYT	598	118.821	101.789	20.452	1.00	62.93	Al6S	ATOM	32081	O6	GUA	600	126.777	92.927	23.234	1.00	67.06	Al6
ATOM	32029	O4' CYT	598	118.763	101.002	19.231	1.00	62.93	Al6S	ATOM	32082	C5	GUA	600	124.698	92.141	24.118	1.00	67.06	Al6
ATOM	32030	C1' CYT	598	118.802	99.620	19.552	1.00	62.93	Al6S	ATOM	32083	N7	GUA	600	123.906	93.265	24.308	1.00	67.06	Al6

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ATOM	31872	P	ADE	591	119.608	88.138	2.473	1.00	47.81	Al6S	ATOM	31925	C4	GUA	593	128.376	90.652	4.754	1.00	66.66	Al6
ATOM	31873	O2P	ADE	591	118.595	89.020	3.095	1.00	45.56	Al6S	ATOM	31926	N3	GUA	593	129.434	91.201	4.116	1.00	66.66	Al6
ATOM	31874	O2P	ADE	591	120.833	88.730	1.865	1.00	45.56	Al6S	ATOM	31927	C2	GUA	593	129.059	92.020	3.142	1.00	66.66	Al6
ATOM	31875	O5	ADE	591	120.057	87.050	3.549	1.00	47.81	Al6S	ATOM	31928	N2	GUA	593	129.980	92.668	2.423	1.00	66.66	Al6
ATOM	31876	C5	ADE	591	119.102	86.388	4.381	1.00	47.81	Al6S	ATOM	31929	N1	GUA	593	127.752	92.266	2.805	1.00	66.66	Al6
ATOM	31877	C4	ADE	591	119.755	85.256	5.131	1.00	47.81	Al6S	ATOM	31930	C6	GUA	593	126.644	91.703	3.435	1.00	66.66	Al6
ATOM	31878	O4	ADE	591	120.236	84.267	4.187	1.00	47.81	Al6S	ATOM	31931	O6	GUA	593	125.500	91.970	3.028	1.00	66.66	Al6
ATOM	31879	C1	ADE	591	121.420	83.662	4.693	1.00	47.81	Al6S	ATOM	31932	C5	GUA	593	127.033	90.838	4.509	1.00	66.66	Al6
ATOM	31880	N9	ADE	591	122.533	83.933	3.777	1.00	45.56	Al6S	ATOM	31933	N7	GUA	593	126.262	90.102	5.402	1.00	66.66	Al6
ATOM	31881	O3	ADE	591	123.814	83.462	3.934	1.00	45.56	Al6S	ATOM	31934	C8	GUA	593	127.134	89.483	6.151	1.00	66.66	Al6
ATOM	31882	N3	ADE	591	124.270	82.661	4.908	1.00	45.56	Al6S	ATOM	31935	C2	GUA	593	130.442	90.262	7.188	1.00	60.12	Al6
ATOM	31883	C2	ADE	591	125.570	82.432	4.754	1.00	45.56	Al6S	ATOM	31936	O2	GUA	593	131.825	90.002	7.081	1.00	60.12	Al6
ATOM	31884	N1	ADE	591	126.403	82.885	3.815	1.00	45.56	Al6S	ATOM	31937	C3	GUA	593	129.948	90.024	8.605	1.00	60.12	Al6
ATOM	31885	C6	ADE	591	125.915	83.698	2.858	1.00	45.56	Al6S	ATOM	31938	O3	GUA	593	130.878	90.493	9.561	1.00	60.12	Al6
ATOM	31886	N6	ADE	591	126.755	84.173	1.940	1.00	45.56	Al6S	ATOM	31939	P	ADE	594	130.708	91.970	10.154	1.00	55.34	Al6
ATOM	31887	C5	ADE	591	124.546	84.005	2.838	1.00	45.56	Al6S	ATOM	31940	O1P	ADE	594	131.875	92.197	11.040	1.00	63.53	Al6
ATOM	31888	N7	ADE	591	123.738	84.784	2.086	1.00	45.56	Al6S	ATOM	31941	O2P	ADE	594	129.335	92.107	10.700	1.00	63.53	Al6
ATOM	31889	C8	ADE	591	122.557	84.704	2.646	1.00	45.56	Al6S	ATOM	31942	O5	ADE	594	130.828	92.913	8.875	1.00	55.34	Al6
ATOM	31890	C2	ADE	591	121.705	84.279	6.061	1.00	47.81	Al6S	ATOM	31943	C5	ADE	594	132.110	93.185	8.278	1.00	55.34	Al6
ATOM	31891	O2	ADE	591	121.192	83.461	7.094	1.00	47.81	Al6S	ATOM	31944	C4	ADE	594	131.981	94.235	7.200	1.00	55.34	Al6
ATOM	31892	C3	ADE	591	120.985	85.610	5.946	1.00	47.81	Al6S	ATOM	31945	O4	ADE	594	131.158	93.718	6.124	1.00	55.34	Al6
ATOM	31893	O3	ADE	591	120.680	86.116	7.221	1.00	47.81	Al6S	ATOM	31946	C1	ADE	594	130.315	94.739	5.626	1.00	55.34	Al6
ATOM	31894	P	ADE	592	121.534	87.346	7.806	1.00	45.14	Al6S	ATOM	31947	N9	ADE	594	127.803	94.861	5.342	1.00	63.53	Al6
ATOM	31895	O1P	ADE	592	121.065	87.596	9.190	1.00	54.54	Al6S	ATOM	31948	C4	ADE	594	127.731	95.773	4.362	1.00	63.53	Al6
ATOM	31896	O2P	ADE	592	121.464	88.436	6.793	1.00	54.54	Al6S	ATOM	31949	N3	ADE	594	126.464	96.047	4.067	1.00	63.53	Al6
ATOM	31897	O5	ADE	592	123.024	86.795	7.919	1.00	45.14	Al6S	ATOM	31950	C2	ADE	594	125.347	95.552	4.602	1.00	63.53	Al6
ATOM	31898	C5	ADE	592	123.328	85.742	8.831	1.00	45.14	Al6S	ATOM	31951	N1	ADE	594	125.457	94.632	5.586	1.00	63.53	Al6
ATOM	31899	C4	ADE	592	124.744	85.277	8.646	1.00	45.14	Al6S	ATOM	31952	C6	ADE	594	124.343	94.135	6.130	1.00	63.53	Al6
ATOM	31900	O4	ADE	592	124.914	84.695	7.330	1.00	45.14	Al6S	ATOM	31953	N6	ADE	594	126.746	94.252	5.984	1.00	63.53	Al6
ATOM	31901	C1	ADE	592	126.225	84.960	6.858	1.00	45.14	Al6S	ATOM	31954	C5	ADE	594	127.200	93.355	6.939	1.00	63.53	Al6
ATOM	31902	N9	ADE	592	126.121	85.769	5.635	1.00	54.54	Al6S	ATOM	31955	N7	ADE	594	130.705	96.039	6.330	1.00	55.34	Al6
ATOM	31903	C4	ADE	592	127.159	86.155	4.830	1.00	54.54	Al6S	ATOM	31956	C8	ADE	594	131.643	96.742	5.545	1.00	55.34	Al6
ATOM	31904	N3	ADE	592	128.457	85.836	4.953	1.00	54.54	Al6S	ATOM	31957	C2	ADE	594	131.290	96.513	7.633	1.00	55.34	Al6
ATOM	31905	C2	ADE	592	129.174	86.411	3.992	1.00	54.54	Al6S	ATOM	31958	O2	ADE	594	132.192	96.408	8.267	1.00	55.34	Al6
ATOM	31906	N1	ADE	592	127.470	87.523	2.912	1.00	54.54	Al6S	ATOM	31959	C3	ADE	594	131.780	97.071	9.676	1.00	61.82	Al6
ATOM	31907	C6	ADE	592	127.073	88.350	1.939	1.00	54.54	Al6S	ATOM	31960	O3	ADE	594	132.982	97.740	10.247	1.00	70.58	Al6
ATOM	31908	N6	ADE	592	126.598	86.964	3.864	1.00	54.54	Al6S	ATOM	31961	P	CYT	595	130.058	96.045	10.477	1.00	70.58	Al6
ATOM	31909	C5	ADE	592	125.225	87.066	4.047	1.00	54.54	Al6S	ATOM	31962	O1P	CYT	595	131.729	98.186	9.252	1.00	61.82	Al6
ATOM	31910	N7	ADE	592	124.995	86.334	5.107	1.00	54.54	Al6S	ATOM	31963	O2P	CYT	595	131.111	99.214	8.343	1.00	61.82	Al6
ATOM	31911	C8	ADE	592	126.958	85.724	7.962	1.00	45.14	Al6S	ATOM	31964	O5	CYT	595	129.925	100.065	7.980	1.00	61.82	Al6
ATOM	31912	C2	ADE	592	127.700	84.825	8.760	1.00	45.14	Al6S	ATOM	31965	C5	CYT	595	129.028	99.346	7.103	1.00	61.82	Al6
ATOM	31913	O2	ADE	592	125.800	86.357	8.715	1.00	45.14	Al6S	ATOM	31966	C4	CYT	595	127.704	99.799	7.314	1.00	61.82	Al6
ATOM	31914	C3	ADE	592	126.130	86.671	10.048	1.00	45.14	Al6S	ATOM	31967	O4	CYT	595	126.860	98.642	7.669	1.00	70.58	Al6
ATOM	31915	O3	ADE	593	126.266	88.210	10.479	1.00	60.12	Al6S	ATOM	31968	C1	CYT	595	125.033	99.656	6.752	1.00	70.58	Al6
ATOM	31916	P	GUA	593	128.803	87.981	9.692	1.00	60.12	Al6S	ATOM	31969	N1	CYT	595	125.238	96.598	8.369	1.00	70.58	Al6
ATOM	31917	O1P	GUA	593	126.609	88.221	11.934	1.00	66.66	Al6S	ATOM	31970	C6	CYT	595	124.424	95.608	8.734	1.00	70.58	Al6
ATOM	31918	O2P	GUA	593	125.113	88.975	9.972	1.00	66.66	Al6S	ATOM	31971	C2	CYT	595	127.626	96.527	8.678	1.00	70.58	Al6
ATOM	31919	O5	GUA	593	127.555	88.702	9.651	1.00	60.12	Al6S	ATOM	31972	O2	CYT	595	126.626	96.527	8.678	1.00	70.58	Al6
ATOM	31920	C5	GUA	593	128.803	87.981	9.692	1.00	60.12	Al6S	ATOM	31973	N3	CYT	595	127.748	100.870	8.409	1.00	61.82	Al6
ATOM	31921	C4	GUA	593	129.755	88.515	8.643	1.00	60.12	Al6S	ATOM	31974	C4	CYT	595						
ATOM	31922	O4	GUA	593	129.270	88.192	7.313	1.00	60.12	Al6S	ATOM	31975	N4	CYT	595						
ATOM	31923	C1	GUA	593	129.646	89.214	6.404	1.00	60.12	Al6S	ATOM	31976	C5	CYT	595						
ATOM	31924	N9	GUA	593	128.435	89.761	5.808	1.00	66.66	Al6S	ATOM	31977	C2	CYT	595						

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ATOM	31766	O2P' URI	586	110.422	101.164	-7.455	1.00	63.72	Al6s	ATOM	31819	N3	URI	588	117.604	93.292	-8.573	1.00	65.68	Al6s	
ATOM	31767	O5' URI	586	109.001	99.328	-8.391	1.00	53.91	Al6s	ATOM	31820	C4	URI	588	116.581	93.982	-7.973	1.00	65.68	Al6s	
ATOM	31768	C5' URI	586	107.760	98.729	-8.793	1.00	53.91	Al6s	ATOM	31821	O4	URI	588	116.711	95.185	-7.743	1.00	65.68	Al6s	
ATOM	31769	C4' URI	586	108.004	97.507	-9.648	1.00	53.91	Al6s	ATOM	31822	C5	URI	588	115.430	93.193	-7.677	1.00	65.68	Al6s	
ATOM	31770	O4' URI	586	108.644	97.898	-10.891	1.00	53.91	Al6s	ATOM	31823	C2' URI	588	117.198	89.044	-7.759	1.00	58.00	Al6s		
ATOM	31771	C1' URI	586	109.500	96.855	-11.339	1.00	53.91	Al6s	ATOM	31824	O2' URI	588	117.844	87.924	-8.317	1.00	58.00	Al6s		
ATOM	31772	N1	URI	586	110.887	97.346	-11.395	1.00	63.72	Al6s	ATOM	31825	C3' URI	588	116.054	88.640	-6.842	1.00	58.00	Al6s	
ATOM	31773	C6	URI	586	111.359	98.313	-10.539	1.00	63.72	Al6s	ATOM	31826	O3' URI	588	116.381	87.493	-6.083	1.00	58.00	Al6s	
ATOM	31774	C2	URI	586	111.717	96.765	-12.321	1.00	63.72	Al6s	ATOM	31827	P	GUA	589	117.080	87.671	-4.651	1.00	58.66	Al6s
ATOM	31775	O2P' URI	586	111.324	95.939	-13.119	1.00	63.72	Al6s	ATOM	31828	O1P	GUA	589	117.439	86.309	-4.170	1.00	70.83	Al6s	
ATOM	31776	N3	URI	586	113.026	97.180	-12.280	1.00	63.72	Al6s	ATOM	31829	O2P	GUA	589	116.211	88.543	-3.819	1.00	58.66	Al6s
ATOM	31777	C4	URI	586	113.579	98.103	-11.422	1.00	63.72	Al6s	ATOM	31830	O5' GUA	589	118.436	88.437	-4.974	1.00	58.66	Al6s	
ATOM	31778	O4	URI	586	114.809	98.242	-11.386	1.00	63.72	Al6s	ATOM	31831	C5' GUA	589	119.493	87.778	-5.705	1.00	58.66	Al6s	
ATOM	31779	C5	URI	586	112.640	98.699	-10.520	1.00	63.72	Al6s	ATOM	31832	C4' GUA	589	120.701	88.678	-5.825	1.00	58.66	Al6s	
ATOM	31780	C2' URI	586	109.394	95.711	-10.335	1.00	53.91	Al6s	ATOM	31833	O4' GUA	589	120.371	89.809	-6.669	1.00	58.66	Al6s		
ATOM	31781	O2' URI	586	108.471	94.749	-10.797	1.00	53.91	Al6s	ATOM	31834	C1' GUA	589	120.967	90.983	-6.149	1.00	58.66	Al6s		
ATOM	31782	C3' URI	586	108.935	96.448	-9.085	1.00	53.91	Al6s	ATOM	31835	N9	GUA	589	119.894	91.904	-5.782	1.00	70.83	Al6s	
ATOM	31783	O3' URI	586	108.336	95.596	-8.132	1.00	53.91	Al6s	ATOM	31836	C4	GUA	589	119.951	93.277	-5.761	1.00	70.83	Al6s	
ATOM	31784	P	GUA	587	109.228	95.041	-6.916	1.00	55.69	Al6s	ATOM	31837	N3	GUA	589	121.021	94.033	-6.077	1.00	70.83	Al6s
ATOM	31785	O1P	GUA	587	108.325	94.524	-5.863	1.00	59.65	Al6s	ATOM	31838	C2	GUA	589	120.764	95.325	-5.963	1.00	70.83	Al6s
ATOM	31786	O2P	GUA	587	110.251	96.060	-6.561	1.00	59.65	Al6s	ATOM	31839	N2	GUA	589	121.717	96.217	-6.235	1.00	70.83	Al6s
ATOM	31787	O5' GUA	587	109.950	93.785	-7.569	1.00	55.69	Al6s	ATOM	31840	N1	GUA	589	119.552	95.836	-5.575	1.00	70.83	Al6s	
ATOM	31788	C5' GUA	587	109.170	92.758	-8.186	1.00	55.69	Al6s	ATOM	31841	C6	GUA	589	118.434	95.078	-5.247	1.00	70.83	Al6s	
ATOM	31789	O4' GUA	587	110.052	91.812	-8.952	1.00	55.69	Al6s	ATOM	31842	O6	GUA	589	117.377	95.640	-4.915	1.00	70.83	Al6s	
ATOM	31790	C1' GUA	587	110.550	92.438	-10.164	1.00	55.69	Al6s	ATOM	31843	C5	GUA	589	118.699	93.688	-5.359	1.00	70.83	Al6s	
ATOM	31791	N9	GUA	587	111.818	91.888	-10.487	1.00	55.69	Al6s	ATOM	31844	N7	GUA	589	117.874	92.568	-5.126	1.00	70.83	Al6s
ATOM	31792	C4	GUA	587	112.822	92.945	-10.517	1.00	59.65	Al6s	ATOM	31845	C8	GUA	589	118.621	91.565	-5.390	1.00	70.83	Al6s
ATOM	31793	N3	GUA	587	114.056	92.860	-11.114	1.00	59.65	Al6s	ATOM	31846	C2' GUA	589	121.854	90.571	-4.969	1.00	58.66	Al6s	
ATOM	31794	C4	GUA	587	114.524	91.806	-11.809	1.00	59.65	Al6s	ATOM	31847	O2' GUA	589	123.170	90.377	-5.446	1.00	58.66	Al6s	
ATOM	31795	C2	GUA	587	115.750	92.005	-12.239	1.00	59.65	Al6s	ATOM	31848	C3' GUA	589	121.193	89.273	-4.519	1.00	58.66	Al6s	
ATOM	31796	N2	GUA	587	116.348	91.062	-12.968	1.00	59.65	Al6s	ATOM	31849	O3' GUA	589	122.107	88.392	-3.881	1.00	58.66	Al6s	
ATOM	31797	N1	GUA	587	116.472	93.145	-11.996	1.00	59.65	Al6s	ATOM	31850	P	ADE	590	122.209	88.366	-2.275	1.00	69.96	Al6s
ATOM	31798	C6	GUA	587	116.011	94.246	-11.288	1.00	59.65	Al6s	ATOM	31851	O1P	ADE	590	121.704	89.656	-1.721	1.00	75.41	Al6s
ATOM	31799	O6	GUA	587	116.744	95.232	-11.131	1.00	59.65	Al6s	ATOM	31852	O2P	ADE	590	123.578	87.907	-1.920	1.00	75.41	Al6s
ATOM	31800	C5	GUA	587	114.684	94.047	-10.828	1.00	59.65	Al6s	ATOM	31853	O5' ADE	590	121.198	87.213	-1.850	1.00	69.96	Al6s	
ATOM	31801	N7	GUA	587	113.854	94.876	-10.089	1.00	59.65	Al6s	ATOM	31854	C5' ADE	590	119.781	87.436	-1.818	1.00	69.96	Al6s	
ATOM	31802	C8	GUA	587	112.758	94.184	-9.935	1.00	59.65	Al6s	ATOM	31855	C4' ADE	590	119.123	86.422	-0.914	1.00	69.96	Al6s	
ATOM	31803	C2' GUA	587	112.173	90.865	-9.406	1.00	55.69	Al6s	ATOM	31856	C4' ADE	590	119.429	85.090	-1.399	1.00	69.96	Al6s		
ATOM	31804	O2' GUA	587	111.869	89.566	-9.883	1.00	55.69	Al6s	ATOM	31857	C1' ADE	590	119.586	84.208	-0.300	1.00	69.96	Al6s		
ATOM	31805	C3' GUA	587	111.301	91.324	-8.242	1.00	55.69	Al6s	ATOM	31858	N9	ADE	590	120.928	83.626	-0.362	1.00	75.41	Al6s	
ATOM	31806	O3' GUA	587	111.031	90.275	-7.334	1.00	55.69	Al6s	ATOM	31859	C4	ADE	590	121.430	82.686	0.505	1.00	75.41	Al6s	
ATOM	31807	P	URI	588	111.915	90.143	-6.004	1.00	58.00	Al6s	ATOM	31860	N3	ADE	590	121.594	81.266	1.161	1.00	75.41	Al6s
ATOM	31808	O1P	URI	588	111.365	89.005	-5.231	1.00	65.68	Al6s	ATOM	31861	C2	ADE	590	122.842	80.894	0.794	1.00	75.41	Al6s
ATOM	31809	O2P	URI	588	112.043	91.481	-5.357	1.00	65.68	Al6s	ATOM	31862	N1	ADE	590	123.441	81.455	0.794	1.00	75.41	Al6s
ATOM	31810	O5' URI	588	113.351	89.716	-6.543	1.00	58.00	Al6s	ATOM	31863	C6	ADE	590	124.682	81.070	0.485	1.00	75.41	Al6s	
ATOM	31811	C5' URI	588	113.529	88.479	-7.261	1.00	58.00	Al6s	ATOM	31864	N6	ADE	590	122.712	82.411	0.066	1.00	75.41	Al6s	
ATOM	31812	C4' URI	588	114.926	88.381	-7.823	1.00	58.00	Al6s	ATOM	31865	C5	ADE	590	123.022	83.173	-1.054	1.00	75.41	Al6s	
ATOM	31813	O4' URI	588	115.119	89.368	-8.870	1.00	58.00	Al6s	ATOM	31866	N7	ADE	590	121.934	83.875	-1.268	1.00	75.41	Al6s	
ATOM	31814	C1' URI	588	116.463	89.818	-8.854	1.00	58.00	Al6s	ATOM	31867	C8	ADE	590	119.331	84.998	0.985	1.00	69.96	Al6s	
ATOM	31815	N1	URI	588	116.480	91.261	-8.569	1.00	65.68	Al6s	ATOM	31868	C2' ADE	590	117.995	84.842	1.410	1.00	69.96	Al6s	
ATOM	31816	C6	URI	588	115.418	91.895	-7.979	1.00	65.68	Al6s	ATOM	31869	O2' ADE	590	119.603	86.420	0.529	1.00	69.96	Al6s	
ATOM	31817	C2	URI	588	117.622	91.960	-8.900	1.00	65.68	Al6s	ATOM	31870	C3' ADE	590	119.603	86.420	0.529	1.00	69.96	Al6s	
ATOM	31818	O2	URI	588	118.577	91.438	-9.440	1.00	65.68	Al6s	ATOM	31871	O3' ADE	590	118.865	87.315	1.324	1.00	69.96	Al6s	

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ATOM	31660	C3 ⁺ GUA	580	124.890	101.189	-25.342	1.00	47.33	Al6S	ATOM	31713	O2	CYT	583	113.864	107.478	-18.097	1.00	42.54	Al
ATOM	31661	O3 ⁺ GUA	580	125.629	100.698	-24.255	1.00	47.33	Al6S	ATOM	31714	N3	CYT	583	114.915	105.613	-18.818	1.00	42.54	Al
ATOM	31662	P ⁺ URI	581	125.279	101.213	-22.782	1.00	48.26	Al6S	ATOM	31715	C4	CYT	583	116.031	104.888	-18.843	1.00	42.54	Al
ATOM	31663	O1P URI	581	123.918	100.697	-22.461	1.00	47.81	Al6S	ATOM	31716	N4	CYT	583	116.015	103.744	-19.529	1.00	42.54	Al
ATOM	31664	O2P URI	581	126.424	100.926	-21.863	1.00	47.81	Al6S	ATOM	31717	C5	CYT	583	117.216	105.306	-18.166	1.00	42.54	Al
ATOM	31665	O5 ⁺ URI	581	125.105	102.785	-22.949	1.00	48.26	Al6S	ATOM	31718	C2 ⁺ CYT	583	115.533	108.332	-15.288	1.00	49.17	Al	
ATOM	31666	C5 ⁺ URI	581	126.237	103.655	-23.000	1.00	48.26	Al6S	ATOM	31719	O2 ⁺ CYT	583	114.675	109.405	-14.960	1.00	49.17	Al	
ATOM	31667	C4 ⁺ URI	581	125.781	105.082	-22.912	1.00	48.26	Al6S	ATOM	31720	C3 ⁺ CYT	583	116.858	108.393	-14.545	1.00	49.17	Al	
ATOM	31668	O4 ⁺ URI	581	125.079	105.454	-24.125	1.00	48.26	Al6S	ATOM	31721	O3 ⁺ CYT	583	116.698	108.842	-13.208	1.00	49.17	Al	
ATOM	31669	C4 ⁺ URI	581	124.018	106.332	-23.817	1.00	48.26	Al6S	ATOM	31722	P ⁺ CYT	584	116.427	107.765	-12.046	1.00	50.44	Al	
ATOM	31670	C4 ⁺ URI	581	122.752	105.705	-24.231	1.00	47.81	Al6S	ATOM	31723	O1P CYT	584	116.481	108.498	-10.755	1.00	56.04	Al	
ATOM	31671	C6 URI	581	122.676	104.362	-24.506	1.00	47.81	Al6S	ATOM	31724	O2P CYT	584	117.312	106.592	-12.250	1.00	56.04	Al	
ATOM	31672	C2 URI	581	121.623	106.509	-24.312	1.00	47.81	Al6S	ATOM	31725	O5 ⁺ CYT	584	114.928	107.298	-12.328	1.00	50.44	Al	
ATOM	31673	O2 URI	581	121.645	107.715	-24.098	1.00	47.81	Al6S	ATOM	31726	C5 ⁺ CYT	584	113.851	108.251	-12.261	1.00	50.44	Al	
ATOM	31674	N3 URI	581	120.466	105.850	-24.651	1.00	47.81	Al6S	ATOM	31727	C4 ⁺ CYT	584	112.526	107.603	-12.582	1.00	50.44	Al	
ATOM	31675	C4 URI	581	120.322	104.508	-24.915	1.00	47.81	Al6S	ATOM	31728	O4 ⁺ CYT	584	112.454	107.257	-13.989	1.00	50.44	Al	
ATOM	31676	O4 URI	581	119.208	104.054	-25.164	1.00	47.81	Al6S	ATOM	31729	C1 ⁺ CYT	584	112.477	105.061	-14.150	1.00	50.44	Al	
ATOM	31677	C5 URI	581	121.530	103.755	-24.833	1.00	47.81	Al6S	ATOM	31730	N1 CYT	584	112.477	105.061	-14.150	1.00	50.44	Al	
ATOM	31678	C2 ⁺ URI	581	124.066	106.586	-22.311	1.00	48.26	Al6S	ATOM	31731	C6 CYT	584	113.835	105.041	-14.648	1.00	56.04	Al	
ATOM	31679	O2 ⁺ URI	581	124.815	107.756	-22.075	1.00	48.26	Al6S	ATOM	31732	C2 CYT	584	111.842	104.087	-15.591	1.00	56.04	Al	
ATOM	31680	C3 ⁺ URI	581	124.781	105.344	-21.810	1.00	48.26	Al6S	ATOM	31733	O2 CYT	584	110.610	104.119	-15.709	1.00	56.04	Al	
ATOM	31681	O3 ⁺ URI	581	125.420	105.529	-20.564	1.00	48.26	Al6S	ATOM	31734	N3 CYT	584	112.589	103.135	-16.198	1.00	56.04	Al	
ATOM	31682	P ⁺ CYT	582	124.631	105.169	-19.213	1.00	59.78	Al6S	ATOM	31735	C4 CYT	584	113.915	103.124	-16.034	1.00	56.04	Al	
ATOM	31683	O1P CYT	582	123.886	103.895	-19.448	1.00	46.42	Al6S	ATOM	31736	N4 CYT	584	114.616	102.158	-16.638	1.00	56.04	Al	
ATOM	31684	O2P CYT	582	125.557	105.275	-18.045	1.00	46.42	Al6S	ATOM	31737	C5 CYT	584	114.585	104.102	-15.238	1.00	56.04	Al	
ATOM	31685	O5 ⁺ CYT	582	123.552	106.337	-19.115	1.00	59.78	Al6S	ATOM	31738	C2 ⁺ CYT	584	111.163	105.672	-12.764	1.00	50.44	Al	
ATOM	31686	C5 ⁺ CYT	582	123.943	107.692	-18.846	1.00	59.78	Al6S	ATOM	31739	O2 ⁺ CYT	584	109.859	106.170	-12.542	1.00	50.44	Al	
ATOM	31687	C4 ⁺ CYT	582	122.722	108.571	-18.775	1.00	59.78	Al6S	ATOM	31740	C3 ⁺ CYT	584	112.200	106.315	-11.854	1.00	50.44	Al	
ATOM	31688	O4 ⁺ CYT	582	122.080	108.609	-20.076	1.00	59.78	Al6S	ATOM	31741	O3 ⁺ CYT	584	111.710	106.547	-10.547	1.00	50.44	Al	
ATOM	31689	C1 ⁺ CYT	582	120.673	108.698	-19.917	1.00	59.78	Al6S	ATOM	31742	P ⁺ ADE	585	111.948	105.432	-9.413	1.00	58.32	Al	
ATOM	31690	N1 CYT	582	120.053	107.509	-20.525	1.00	46.42	Al6S	ATOM	31743	O1P ADE	585	111.552	106.030	-8.113	1.00	64.04	Al	
ATOM	31691	C6 CYT	582	120.786	106.379	-20.759	1.00	46.42	Al6S	ATOM	31744	O2P ADE	585	113.311	104.875	-9.568	1.00	64.04	Al	
ATOM	31692	C2 CYT	582	118.692	107.545	-20.847	1.00	46.42	Al6S	ATOM	31745	O5 ⁺ ADE	585	110.926	104.278	-9.822	1.00	58.32	Al	
ATOM	31693	O2 CYT	582	118.056	108.597	-20.659	1.00	46.42	Al6S	ATOM	31746	C5 ⁺ ADE	585	109.517	104.544	-9.896	1.00	58.32	Al	
ATOM	31694	N3 CYT	582	118.108	106.437	-21.360	1.00	46.42	Al6S	ATOM	31747	C4 ⁺ ADE	585	108.783	103.376	-10.513	1.00	58.32	Al	
ATOM	31695	C4 CYT	582	118.835	105.335	-21.572	1.00	46.42	Al6S	ATOM	31748	O4 ⁺ ADE	585	109.125	103.264	-11.917	1.00	58.32	Al	
ATOM	31696	N4 CYT	582	118.226	104.262	-22.078	1.00	46.42	Al6S	ATOM	31749	C1 ⁺ ADE	585	109.069	101.906	-12.316	1.00	58.32	Al	
ATOM	31697	C5 CYT	582	120.222	105.282	-21.276	1.00	46.42	Al6S	ATOM	31750	N9 ADE	585	110.394	101.501	-12.785	1.00	64.04	Al	
ATOM	31698	C2 ⁺ CYT	582	120.385	108.758	-18.421	1.00	59.78	Al6S	ATOM	31751	C4 ADE	585	110.670	100.442	-13.619	1.00	64.04	Al	
ATOM	31699	O2 ⁺ CYT	582	120.257	110.109	-18.028	1.00	59.78	Al6S	ATOM	31752	N3 ADE	585	109.791	99.606	-14.196	1.00	64.04	Al	
ATOM	31700	C3 ⁺ CYT	582	121.622	108.092	-17.850	1.00	59.78	Al6S	ATOM	31753	C2 ADE	585	110.425	98.678	-14.910	1.00	64.04	Al	
ATOM	31701	O3 ⁺ CYT	582	121.841	108.445	-16.510	1.00	59.78	Al6S	ATOM	31754	N1 ADE	585	111.738	98.503	-15.097	1.00	64.04	Al	
ATOM	31702	P ⁺ CYT	583	121.150	107.571	-15.362	1.00	49.17	Al6S	ATOM	31755	C6 ADE	585	112.594	99.358	-14.465	1.00	64.04	Al	
ATOM	31703	O1P CYT	583	121.287	106.145	-15.755	1.00	42.54	Al6S	ATOM	31756	N6 ADE	585	113.903	99.171	-14.665	1.00	64.04	Al	
ATOM	31704	O2P CYT	583	121.648	108.018	-14.027	1.00	42.54	Al6S	ATOM	31757	C5 ADE	585	112.048	100.393	-13.721	1.00	64.04	Al	
ATOM	31705	O5 ⁺ CYT	583	119.611	107.939	-15.517	1.00	49.17	Al6S	ATOM	31758	N7 ADE	585	112.631	101.419	-12.992	1.00	64.04	Al	
ATOM	31706	C5 ⁺ CYT	583	119.164	109.277	-15.280	1.00	49.17	Al6S	ATOM	31759	C8 ADE	585	111.611	102.051	-12.465	1.00	64.04	Al	
ATOM	31707	C4 ⁺ CYT	583	117.663	109.363	-15.389	1.00	49.17	Al6S	ATOM	31760	C2 ⁺ ADE	585	108.643	101.086	-11.098	1.00	58.32	Al	
ATOM	31708	O4 ⁺ CYT	583	117.263	109.069	-16.745	1.00	49.17	Al6S	ATOM	31761	O2 ⁺ ADE	585	107.253	100.873	-11.157	1.00	58.32	Al	
ATOM	31709	C1 ⁺ CYT	583	115.981	108.485	-16.741	1.00	49.17	Al6S	ATOM	31762	C3 ⁺ ADE	585	109.062	101.994	-9.949	1.00	58.32	Al	
ATOM	31710	N1 CYT	583	116.035	107.214	-17.470	1.00	42.54	Al6S	ATOM	31763	O3 ⁺ ADE	585	108.354	101.721	-8.745	1.00	58.32	Al	
ATOM	31711	C6 CYT	583	117.174	106.464	-17.498	1.00	42.54	Al6S	ATOM	31764	P ⁺ URI	586	109.013	100.739	-7.651	1.00	53.91	Al	
ATOM	31712	C2 CYT	583	114.887	106.779	-18.141	1.00	42.54	Al6S	ATOM	31765	O1P URI	586	108.117	100.638	-6.471	1.00	63.72	Al	

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ATOM	31554	C5	GUA	576	111.256	110.896	-38.863	1.00	54.38	Al6S	ATOM	31607	C2	GUA	578	118.366	108.064	-30.993	1.00	59.35	Al
ATOM	31555	C4	GUA	576	111.561	109.460	-39.212	1.00	54.38	Al6S	ATOM	31608	N2	GUA	578	119.635	108.353	-30.687	1.00	59.35	Al
ATOM	31556	C1	GUA	576	112.752	109.380	-40.078	1.00	54.38	Al6S	ATOM	31609	N1	GUA	578	117.603	109.100	-31.471	1.00	59.35	Al
ATOM	31557	C1	GUA	576	113.430	108.175	-39.821	1.00	54.38	Al6S	ATOM	31610	C6	GUA	578	116.268	109.004	-31.842	1.00	59.35	Al
ATOM	31558	N9	GUA	576	114.779	108.499	-39.354	1.00	53.78	Al6S	ATOM	31611	O6	GUA	578	115.668	110.000	-32.262	1.00	59.35	Al
ATOM	31559	C4	GUA	576	115.810	107.605	-39.189	1.00	53.78	Al6S	ATOM	31612	C5	GUA	578	115.780	107.701	-31.671	1.00	59.35	Al
ATOM	31560	N3	GUA	576	115.778	106.294	-39.501	1.00	53.78	Al6S	ATOM	31613	N7	GUA	578	114.526	107.184	-31.928	1.00	59.35	Al
ATOM	31561	C2	GUA	576	116.908	105.686	-39.195	1.00	53.78	Al6S	ATOM	31614	C8	GUA	578	114.621	105.929	-31.594	1.00	59.35	Al
ATOM	31562	N2	GUA	576	117.061	104.380	-39.463	1.00	53.78	Al6S	ATOM	31615	C2	GUA	578	115.402	103.702	-29.572	1.00	55.50	Al
ATOM	31563	C6	GUA	576	117.976	106.312	-38.609	1.00	53.78	Al6S	ATOM	31616	O2	GUA	578	115.917	104.040	-28.301	1.00	55.50	Al
ATOM	31564	C6	GUA	576	118.031	107.656	-38.272	1.00	53.78	Al6S	ATOM	31617	C3	GUA	578	115.466	102.204	-29.841	1.00	55.50	Al
ATOM	31565	O6	GUA	576	119.042	108.110	-37.731	1.00	53.78	Al6S	ATOM	31618	O3	GUA	578	116.625	101.680	-29.216	1.00	55.50	Al
ATOM	31566	C5	GUA	576	116.834	108.329	-38.617	1.00	53.78	Al6S	ATOM	31619	P	CYT	579	116.709	100.119	-28.858	1.00	56.70	Al
ATOM	31567	N7	GUA	576	115.257	109.721	-38.933	1.00	53.78	Al6S	ATOM	31620	O1P	CYT	579	115.500	99.440	-29.400	1.00	55.97	Al
ATOM	31568	C8	GUA	576	112.656	107.416	-38.737	1.00	54.38	Al6S	ATOM	31621	O2P	CYT	579	117.038	99.992	-27.416	1.00	55.97	Al
ATOM	31569	C2	GUA	576	111.808	106.460	-39.338	1.00	54.38	Al6S	ATOM	31622	O5	CYT	579	117.969	99.626	-29.701	1.00	56.70	Al
ATOM	31570	O2	GUA	576	111.887	108.540	-38.053	1.00	54.38	Al6S	ATOM	31623	C5	CYT	579	119.962	98.257	-29.731	1.00	56.70	Al
ATOM	31571	O3	GUA	576	110.719	108.075	-37.395	1.00	54.38	Al6S	ATOM	31624	C4	CYT	579	120.350	98.731	-31.049	1.00	56.70	Al
ATOM	31572	P	GUA	577	110.784	107.718	-35.829	1.00	56.68	Al6S	ATOM	31625	O4	CYT	579	121.491	99.572	-30.946	1.00	56.70	Al
ATOM	31573	O1P	GUA	577	109.436	107.233	-35.455	1.00	58.39	Al6S	ATOM	31626	C1	CYT	579	121.099	100.941	-31.355	1.00	55.97	Al
ATOM	31575	O2P	GUA	577	111.408	108.826	-35.052	1.00	58.39	Al6S	ATOM	31627	N1	CYT	579	119.831	101.213	-31.794	1.00	55.97	Al
ATOM	31576	O5	GUA	577	111.775	106.419	-35.775	1.00	56.68	Al6S	ATOM	31628	C6	CYT	579	122.037	101.970	-31.246	1.00	55.97	Al
ATOM	31577	C5	GUA	577	111.457	105.253	-36.452	1.00	56.68	Al6S	ATOM	31630	O2	CYT	579	123.193	101.689	-30.910	1.00	55.97	Al
ATOM	31578	C4	GUA	577	112.578	104.250	-36.284	1.00	56.68	Al6S	ATOM	31631	N3	CYT	579	121.657	103.241	-31.509	1.00	55.97	Al
ATOM	31579	O1	GUA	577	113.765	104.711	-36.984	1.00	56.68	Al6S	ATOM	31632	C4	CYT	579	120.403	103.499	-31.884	1.00	55.97	Al
ATOM	31580	C1	GUA	577	115.923	104.274	-36.291	1.00	56.68	Al6S	ATOM	31633	N4	CYT	579	120.058	104.770	-32.075	1.00	55.97	Al
ATOM	31581	N9	GUA	577	114.923	105.446	-35.872	1.00	58.39	Al6S	ATOM	31634	C5	CYT	579	119.445	102.466	-32.062	1.00	55.97	Al
ATOM	31582	C4	GUA	577	117.025	105.470	-35.536	1.00	58.39	Al6S	ATOM	31635	C2	CYT	579	121.952	99.534	-29.484	1.00	56.70	Al
ATOM	31583	N3	GUA	577	117.874	104.425	-35.595	1.00	58.39	Al6S	ATOM	31636	O2	CYT	579	122.956	98.561	-29.312	1.00	56.70	Al
ATOM	31584	C2	GUA	577	119.088	104.755	-35.195	1.00	58.39	Al6S	ATOM	31637	C3	CYT	579	120.662	99.191	-28.761	1.00	56.70	Al
ATOM	31585	N2	GUA	577	120.069	103.845	-35.224	1.00	58.39	Al6S	ATOM	31638	O3	CYT	579	120.880	98.574	-27.512	1.00	56.70	Al
ATOM	31586	N1	GUA	577	119.436	106.004	-34.742	1.00	58.39	Al6S	ATOM	31639	P	GUA	580	120.800	99.459	-26.176	1.00	47.33	Al
ATOM	31587	C6	GUA	577	118.577	107.090	-34.651	1.00	58.39	Al6S	ATOM	31640	O1P	GUA	580	119.802	100.534	-26.425	1.00	55.11	Al
ATOM	31588	O6	GUA	577	118.986	108.159	-34.186	1.00	58.39	Al6S	ATOM	31641	O2P	GUA	580	122.257	100.103	-26.067	1.00	47.33	Al
ATOM	31589	C5	GUA	577	116.135	107.549	-35.235	1.00	58.39	Al6S	ATOM	31642	O5	GUA	580	123.435	99.279	-26.163	1.00	47.33	Al
ATOM	31590	N7	GUA	577	115.224	106.731	-35.690	1.00	58.39	Al6S	ATOM	31643	C5	GUA	580	124.654	100.875	-26.394	1.00	47.33	Al
ATOM	31591	C8	GUA	577	114.456	103.438	-35.095	1.00	56.68	Al6S	ATOM	31644	C4	GUA	580	124.490	100.875	-27.627	1.00	47.33	Al
ATOM	31592	C2	GUA	577	114.041	102.076	-35.465	1.00	56.68	Al6S	ATOM	31645	O4	GUA	580	125.042	102.179	-27.482	1.00	47.33	Al
ATOM	31593	C3	GUA	577	113.054	103.979	-34.864	1.00	56.68	Al6S	ATOM	31646	C1	GUA	580	123.971	103.170	-27.642	1.00	55.11	Al
ATOM	31594	O3	GUA	577	112.242	103.032	-34.194	1.00	56.68	Al6S	ATOM	31647	N9	GUA	580	124.109	104.547	-27.604	1.00	55.11	Al
ATOM	31595	P	GUA	578	111.374	101.902	-32.601	1.00	55.50	Al6S	ATOM	31648	C4	GUA	580	125.268	105.232	-27.483	1.00	55.11	Al
ATOM	31596	O1P	GUA	578	111.048	104.462	-32.129	1.00	59.35	Al6S	ATOM	31649	N3	GUA	580	125.074	106.538	-27.453	1.00	55.11	Al
ATOM	31597	O2P	GUA	578	111.468	104.462	-32.280	1.00	59.35	Al6S	ATOM	31650	C2	GUA	580	126.121	107.365	-27.363	1.00	55.11	Al
ATOM	31598	O5	GUA	578	113.526	103.099	-32.008	1.00	55.50	Al6S	ATOM	31651	N2	GUA	580	123.843	107.129	-27.514	1.00	55.11	Al
ATOM	31599	O5	GUA	578	114.355	101.918	-32.123	1.00	55.50	Al6S	ATOM	31652	N1	GUA	580	122.637	106.456	-27.633	1.00	55.11	Al
ATOM	31600	C5	GUA	578	115.631	102.121	-31.352	1.00	55.50	Al6S	ATOM	31653	C6	GUA	580	121.582	107.094	-27.657	1.00	55.11	Al
ATOM	31601	O4	GUA	578	116.180	103.392	-31.776	1.00	55.50	Al6S	ATOM	31654	O6	GUA	580	122.829	105.045	-27.698	1.00	55.11	Al
ATOM	31602	C1	GUA	578	116.287	104.268	-30.678	1.00	55.50	Al6S	ATOM	31655	C5	GUA	580	121.908	104.013	-27.845	1.00	55.11	Al
ATOM	31603	C1	GUA	578	115.862	105.587	-31.131	1.00	59.35	Al6S	ATOM	31656	N7	GUA	580	122.629	102.925	-27.815	1.00	55.11	Al
ATOM	31604	N9	GUA	578	116.621	106.727	-31.183	1.00	59.35	Al6S	ATOM	31657	C8	GUA	580	127.044	101.911	-26.157	1.00	47.33	Al
ATOM	31605	C4	GUA	578	117.915	106.836	-30.826	1.00	59.35	Al6S	ATOM	31658	C2	GUA	580						
ATOM	31606	N3	GUA	578						Al6S	ATOM	31659	O2	GUA	580						

ATOM	31448	C5' GUA	571	134.657	115.267	-38.704	1.00	48.09	Al65	ATOM	31501	N4	CYT	573	124.887	114.863	-42.749	1.00	54.90	Al1
ATOM	31449	C4' GUA	571	134.449	116.406	-39.685	1.00	48.09	Al65	ATOM	31502	C5	CYT	573	125.104	117.077	-41.855	1.00	54.90	Al1
ATOM	31450	O4' GUA	571	134.605	115.931	-41.041	1.00	48.09	Al65	ATOM	31503	C2' CYT	573	121.927	120.210	-41.820	1.00	46.04	Al1	
ATOM	31451	C1' GUA	571	133.949	116.817	-41.927	1.00	48.09	Al65	ATOM	31504	O2' CYT	573	120.970	121.071	-42.404	1.00	46.04	Al1	
ATOM	31452	N9 GUA	571	133.086	116.047	-42.815	1.00	51.37	Al65	ATOM	31505	C3' CYT	573	122.574	120.778	-40.561	1.00	46.04	Al1	
ATOM	31453	C4 GUA	571	132.264	116.554	-43.795	1.00	51.37	Al65	ATOM	31506	O3' CYT	573	121.645	121.481	-39.754	1.00	46.04	Al1	
ATOM	31454	N3 GUA	571	132.063	117.863	-44.081	1.00	51.37	Al65	ATOM	31507	P	URI	574	120.789	120.682	-38.655	1.00	51.74	Al1
ATOM	31455	C2 GUA	571	131.223	118.038	-45.070	1.00	51.37	Al65	ATOM	31508	O1P URI	574	120.047	121.717	-37.883	1.00	63.34	Al1	
ATOM	31456	N2 GUA	571	130.908	119.279	-45.462	1.00	51.37	Al65	ATOM	31509	O2P URI	574	121.678	119.741	-37.941	1.00	63.34	Al1	
ATOM	31457	N1 GUA	571	130.607	117.007	-45.740	1.00	51.37	Al65	ATOM	31510	O5' URI	574	119.747	119.827	-39.513	1.00	51.74	Al1	
ATOM	31458	N6 GUA	571	130.785	115.652	-45.465	1.00	51.37	Al65	ATOM	31511	C5' URI	574	118.727	120.490	-40.286	1.00	51.74	Al1	
ATOM	31459	O6 GUA	571	130.186	114.798	-46.134	1.00	51.37	Al65	ATOM	31512	C4' URI	574	117.921	119.505	-41.112	1.00	51.74	Al1	
ATOM	31460	C5 GUA	571	131.687	115.454	-44.392	1.00	51.37	Al65	ATOM	31513	O4' URI	574	118.745	118.893	-42.137	1.00	51.74	Al1	
ATOM	31461	N7 GUA	571	132.121	114.282	-43.789	1.00	51.37	Al65	ATOM	31514	C1' URI	574	118.227	117.611	-42.458	1.00	51.74	Al1	
ATOM	31462	C8 GUA	571	132.944	114.682	-42.859	1.00	51.37	Al65	ATOM	31515	N1 URI	574	119.246	116.585	-42.191	1.00	63.34	Al1	
ATOM	31463	C2' GUA	571	133.217	117.857	-41.083	1.00	48.09	Al65	ATOM	31516	C6 URI	574	120.283	116.798	-41.303	1.00	63.34	Al1	
ATOM	31464	O2' GUA	571	134.016	119.025	-41.017	1.00	48.09	Al65	ATOM	31517	C2 URI	574	119.109	115.366	-42.847	1.00	63.34	Al1	
ATOM	31465	C3' GUA	571	133.128	117.161	-39.731	1.00	48.09	Al65	ATOM	31518	O2 URI	574	118.227	115.143	-43.665	1.00	63.34	Al1	
ATOM	31466	O3' GUA	571	133.000	118.130	-38.694	1.00	48.09	Al65	ATOM	31519	N3 URI	574	120.041	114.421	-42.510	1.00	63.34	Al1	
ATOM	31467	P	572	131.589	118.295	-37.942	1.00	51.74	Al65	ATOM	31520	C4 URI	574	121.080	114.563	-41.618	1.00	63.34	Al1	
ATOM	31468	O1P CYT	572	131.858	119.163	-36.754	1.00	39.63	Al65	ATOM	31521	O4 URI	574	121.825	113.609	-41.412	1.00	63.34	Al1	
ATOM	31469	O2P CYT	572	130.990	116.945	-37.756	1.00	39.63	Al65	ATOM	31522	C5 URI	574	121.175	115.854	-41.002	1.00	63.34	Al1	
ATOM	31470	O5' CYT	572	130.664	119.049	-38.999	1.00	51.74	Al65	ATOM	31523	C2' URI	574	117.011	117.372	-41.569	1.00	51.74	Al1	
ATOM	31471	C5' CYT	572	130.788	120.469	-39.218	1.00	51.74	Al65	ATOM	31524	O2' URI	574	115.853	117.711	-42.287	1.00	51.74	Al1	
ATOM	31472	C4' CYT	572	129.821	120.926	-40.285	1.00	51.74	Al65	ATOM	31525	C3' URI	574	117.278	118.322	-40.412	1.00	51.74	Al1	
ATOM	31473	O4' CYT	572	130.154	120.301	-41.551	1.00	51.74	Al65	ATOM	31526	O3' URI	574	116.074	118.648	-39.746	1.00	61.54	Al1	
ATOM	31474	C1' CYT	572	128.980	120.135	-42.320	1.00	51.74	Al65	ATOM	31527	P	575	115.615	117.772	-38.476	1.00	61.54	Al1	
ATOM	31475	N1 CYT	572	128.811	118.719	-42.647	1.00	39.63	Al65	ATOM	31528	O1P GUA	575	114.535	118.558	-37.807	1.00	56.55	Al1	
ATOM	31476	C6 CYT	572	129.376	117.740	-41.888	1.00	39.63	Al65	ATOM	31529	O2P GUA	575	116.832	117.368	-37.696	1.00	56.55	Al1	
ATOM	31477	C2 CYT	572	128.025	118.388	-43.752	1.00	39.63	Al65	ATOM	31530	O5' GUA	575	114.964	116.446	-39.114	1.00	61.54	Al1	
ATOM	31478	O2 CYT	572	127.565	119.308	-44.455	1.00	39.63	Al65	ATOM	31531	C5' GUA	575	113.726	116.538	-39.829	1.00	61.54	Al1	
ATOM	31479	N3 CYT	572	127.786	117.090	-44.034	1.00	39.63	Al65	ATOM	31532	C4' GUA	575	113.436	115.232	-40.517	1.00	61.54	Al1	
ATOM	31480	C4 CYT	572	128.314	116.143	-43.271	1.00	39.63	Al65	ATOM	31533	O4' GUA	575	114.500	114.940	-41.461	1.00	61.54	Al1	
ATOM	31481	N4 CYT	572	128.030	114.876	-43.564	1.00	39.63	Al65	ATOM	31534	C1' GUA	575	114.701	113.534	-41.541	1.00	61.54	Al1	
ATOM	31482	C5 CYT	572	129.156	116.450	-42.162	1.00	39.63	Al65	ATOM	31535	N9 GUA	575	116.682	112.007	-41.231	1.00	56.55	Al1	
ATOM	31483	C2' CYT	572	127.796	120.630	-41.497	1.00	51.74	Al65	ATOM	31536	C4 GUA	575	116.197	110.947	-41.904	1.00	56.55	Al1	
ATOM	31484	O2' CYT	572	127.445	121.924	-41.939	1.00	51.74	Al65	ATOM	31537	N3 GUA	575	117.027	109.923	-41.883	1.00	56.55	Al1	
ATOM	31485	C3' CYT	572	128.360	120.566	-40.084	1.00	51.74	Al65	ATOM	31538	C2 GUA	575	116.703	108.798	-42.531	1.00	56.55	Al1	
ATOM	31486	O3' CYT	572	127.701	121.456	-39.403	1.00	51.74	Al65	ATOM	31539	N2 GUA	575	118.233	109.927	-41.232	1.00	56.55	Al1	
ATOM	31487	P	573	126.399	120.955	-38.412	1.00	46.04	Al65	ATOM	31540	N1 GUA	575	118.752	111.003	-40.518	1.00	56.55	Al1	
ATOM	31488	O1P CYT	573	126.043	122.040	-37.462	1.00	54.90	Al65	ATOM	31541	C6 GUA	575	119.849	110.893	-39.945	1.00	56.55	Al1	
ATOM	31489	O2P CYT	573	126.300	119.583	-37.898	1.00	46.04	Al65	ATOM	31542	O6 GUA	575	117.874	112.126	-40.557	1.00	56.55	Al1	
ATOM	31490	O5' CYT	573	125.812	120.844	-39.560	1.00	46.04	Al65	ATOM	31543	C5 GUA	575	118.005	113.395	-40.006	1.00	56.55	Al1	
ATOM	31491	C5' CYT	573	124.812	122.020	-40.217	1.00	46.04	Al65	ATOM	31544	N7 GUA	575	116.903	114.006	-40.342	1.00	56.55	Al1	
ATOM	31492	C4' CYT	573	123.655	121.684	-41.129	1.00	46.04	Al65	ATOM	31545	C8 GUA	575	113.677	112.880	-40.617	1.00	61.54	Al1	
ATOM	31493	O4' CYT	573	123.129	120.990	-42.311	1.00	46.04	Al65	ATOM	31546	C2' GUA	575	113.530	112.490	-41.342	1.00	61.54	Al1	
ATOM	31494	C1' CYT	573	123.663	118.716	-42.749	1.00	54.90	Al65	ATOM	31547	O2' GUA	575	112.530	112.490	-41.342	1.00	61.54	Al1	
ATOM	31495	N1 CYT	573	124.659	118.342	-41.888	1.00	54.90	Al65	ATOM	31548	C3' GUA	575	113.408	114.004	-39.631	1.00	61.54	Al1	
ATOM	31496	C6 CYT	573	123.109	117.784	-43.632	1.00	54.90	Al65	ATOM	31549	O3' GUA	575	112.201	113.815	-38.938	1.00	61.54	Al1	
ATOM	31497	C2 CYT	573	123.109	117.784	-43.632	1.00	54.90	Al65	ATOM	31550	P	576	112.216	113.915	-37.569	1.00	54.38	Al1	
ATOM	31498	O2 CYT	573	122.235	118.160	-44.421	1.00	54.90	Al65	ATOM	31551	O1P GUA	576	113.905	113.215	-36.916	1.00	53.78	Al1	
ATOM	31499	N3 CYT	573	123.542	116.504	-43.606	1.00	54.90	Al65	ATOM	31552	O2P GUA	576	113.470	113.301	-36.845	1.00	53.78	Al1	
ATOM	31500	C4 CYT	573	124.500	116.142	-42.751	1.00	54.90	Al65	ATOM	31553	O5' GUA	576	112.284	111.450	-38.028	1.00	54.38	Al1	

ATOM	31342	C4 ADE	566	143.321	94.565	-39.930	1.00	39.62	Al6S	ATOM	31395	N7 GUA	568	139.556	100.619	-38.021	1.00	32.79	Al6
ATOM	31343	N8 ADE	566	143.569	94.009	-38.730	1.00	39.62	Al6S	ATOM	31396	C8 GUA	568	139.623	100.281	-36.765	1.00	32.79	Al6
ATOM	31344	C2 ADE	566	144.385	94.784	-38.020	1.00	39.62	Al6S	ATOM	31397	C2' GUA	568	139.766	102.037	-33.829	1.00	39.15	Al6
ATOM	31345	N1 ADE	566	144.938	95.960	-38.352	1.00	39.62	Al6S	ATOM	31398	O2' GUA	568	140.390	102.445	-32.628	1.00	39.15	Al6
ATOM	31346	C6 ADE	566	144.663	96.482	-39.571	1.00	39.62	Al6S	ATOM	31399	C3' GUA	568	138.531	101.193	-33.575	1.00	39.15	Al6
ATOM	31347	N6 ADE	566	145.209	97.642	-39.914	1.00	39.62	Al6S	ATOM	31400	O3' GUA	568	137.768	101.705	-32.502	1.00	39.15	Al6
ATOM	31348	C5 ADE	566	143.816	95.766	-40.408	1.00	39.62	Al6S	ATOM	31401	P	569	136.377	102.445	-32.813	1.00	37.09	Al6
ATOM	31349	N7 ADE	566	143.316	96.020	-41.686	1.00	39.62	Al6S	ATOM	31402	O1P CYT	569	135.738	102.718	-31.483	1.00	33.99	Al6
ATOM	31350	C8 ADE	566	142.586	94.986	-41.953	1.00	39.62	Al6S	ATOM	31403	O2P CYT	569	135.662	101.626	-33.842	1.00	33.99	Al6
ATOM	31351	N8 ADE	566	140.444	93.014	-40.134	1.00	43.40	Al6S	ATOM	31404	O5' CYT	569	136.808	103.817	-33.494	1.00	37.09	Al6
ATOM	31352	C2' ADE	566	140.139	91.817	-39.448	1.00	43.40	Al6S	ATOM	31405	C5' CYT	569	137.553	104.764	-32.744	1.00	37.09	Al6
ATOM	31353	O3' ADE	566	139.485	93.336	-41.269	1.00	43.40	Al6S	ATOM	31406	C4' CYT	569	138.156	105.808	-33.636	1.00	37.09	Al6
ATOM	31354	C3' ADE	566	138.147	93.015	-40.973	1.00	43.40	Al6S	ATOM	31407	O4' CYT	569	139.044	105.190	-34.600	1.00	37.09	Al6
ATOM	31355	P	567	137.130	94.181	-40.557	1.00	44.62	Al6S	ATOM	31408	C1' CYT	569	139.158	106.036	-35.731	1.00	37.09	Al6
ATOM	31356	O1P GUA	567	135.911	93.461	-40.089	1.00	40.57	Al6S	ATOM	31409	N1 CYT	569	138.747	105.314	-36.931	1.00	33.99	Al6
ATOM	31357	O2P GUA	567	137.020	95.203	-41.652	1.00	40.57	Al6S	ATOM	31410	C6 CYT	569	138.119	104.106	-36.860	1.00	33.99	Al6
ATOM	31358	O5' GUA	567	137.814	94.854	-39.287	1.00	44.62	Al6S	ATOM	31411	C2 CYT	569	138.973	105.922	-38.169	1.00	33.99	Al6
ATOM	31359	C5' GUA	567	137.965	94.119	-38.073	1.00	44.62	Al6S	ATOM	31412	O2 CYT	569	139.593	106.998	-38.201	1.00	33.99	Al6
ATOM	31360	C4' GUA	567	138.907	94.832	-37.139	1.00	44.62	Al6S	ATOM	31413	N3 CYT	569	138.511	105.331	-39.293	1.00	33.99	Al6
ATOM	31361	O4' GUA	567	140.185	95.011	-37.800	1.00	44.62	Al6S	ATOM	31414	C4 CYT	569	137.854	104.172	-39.209	1.00	33.99	Al6
ATOM	31362	C1' GUA	567	140.809	96.185	-37.318	1.00	44.62	Al6S	ATOM	31415	N4 CYT	569	137.370	103.645	-40.336	1.00	33.99	Al6
ATOM	31363	N9 GUA	567	141.030	97.107	-38.428	1.00	40.57	Al6S	ATOM	31416	C5 CYT	569	137.655	103.508	-35.962	1.00	33.99	Al6
ATOM	31364	C4 GUA	567	141.854	98.204	-38.402	1.00	40.57	Al6S	ATOM	31417	C2' CYT	569	138.198	107.208	-35.532	1.00	37.09	Al6
ATOM	31365	N3 GUA	567	142.607	98.595	-37.357	1.00	40.57	Al6S	ATOM	31418	O2' CYT	569	138.927	108.346	-35.108	1.00	37.09	Al6
ATOM	31366	C2 GUA	567	143.281	99.681	-37.621	1.00	40.57	Al6S	ATOM	31419	C3' CYT	569	137.229	106.638	-34.500	1.00	37.09	Al6
ATOM	31367	N2 GUA	567	144.094	100.191	-36.683	1.00	40.57	Al6S	ATOM	31420	O3' CYT	569	136.535	107.650	-33.790	1.00	37.09	Al6
ATOM	31368	N1 GUA	567	143.228	100.347	-38.920	1.00	40.57	Al6S	ATOM	31421	P	570	135.075	108.094	-34.289	1.00	51.20	Al6
ATOM	31369	C6 GUA	567	142.445	99.966	-39.909	1.00	40.57	Al6S	ATOM	31422	O1P GUA	570	134.530	109.047	-33.303	1.00	34.42	Al6
ATOM	31370	O6 GUA	567	142.435	100.654	-40.939	1.00	40.57	Al6S	ATOM	31423	O2P GUA	570	134.291	106.898	-34.652	1.00	34.42	Al6
ATOM	31371	C5 GUA	567	141.728	98.787	-39.639	1.00	40.57	Al6S	ATOM	31424	O5' GUA	570	135.372	108.888	-35.631	1.00	51.20	Al6
ATOM	31372	N7 GUA	567	140.853	98.066	-40.437	1.00	40.57	Al6S	ATOM	31425	C5' GUA	570	136.158	110.096	-35.621	1.00	51.20	Al6
ATOM	31373	C2' GUA	567	139.464	97.078	-39.678	1.00	40.57	Al6S	ATOM	31426	C4' GUA	570	136.160	110.693	-36.995	1.00	51.20	Al6
ATOM	31374	O2' GUA	567	139.808	96.808	-36.286	1.00	44.62	Al6S	ATOM	31427	O4' GUA	570	136.560	109.632	-37.880	1.00	51.20	Al6
ATOM	31375	C3' GUA	567	140.275	96.368	-35.008	1.00	44.62	Al6S	ATOM	31428	C1' GUA	570	135.895	109.773	-39.107	1.00	51.20	Al6
ATOM	31376	O3' GUA	567	137.599	96.238	-36.702	1.00	44.62	Al6S	ATOM	31429	N9 GUA	570	135.532	108.453	-39.590	1.00	34.42	Al6
ATOM	31377	P	567	136.690	97.605	-35.457	1.00	44.62	Al6S	ATOM	31430	C4 GUA	570	135.348	108.110	-40.895	1.00	34.42	Al6
ATOM	31378	O1P GUA	568	135.703	97.335	-34.394	1.00	32.79	Al6S	ATOM	31431	N3 GUA	570	135.435	108.946	-41.939	1.00	34.42	Al6
ATOM	31379	O2P GUA	568	136.216	98.027	-36.797	1.00	32.79	Al6S	ATOM	31432	C2 GUA	570	135.213	108.332	-43.078	1.00	34.42	Al6
ATOM	31380	O2P GUA	568	137.709	98.709	-34.919	1.00	39.15	Al6S	ATOM	31433	N2 GUA	570	135.244	109.030	-44.225	1.00	34.42	Al6
ATOM	31381	O5' GUA	568	138.226	98.638	-33.519	1.00	39.15	Al6S	ATOM	31434	N1 GUA	570	134.944	106.993	-43.180	1.00	34.42	Al6
ATOM	31382	C5' GUA	568	139.121	99.819	-33.297	1.00	39.15	Al6S	ATOM	31435	C6 GUA	570	134.851	106.112	-42.109	1.00	34.42	Al6
ATOM	31383	C4' GUA	568	140.271	99.745	-34.168	1.00	39.15	Al6S	ATOM	31436	O6 GUA	570	134.603	104.915	-42.310	1.00	34.42	Al6
ATOM	31384	O4' GUA	568	140.646	101.046	-35.886	1.00	39.15	Al6S	ATOM	31437	C5 GUA	570	135.073	106.765	-40.887	1.00	34.42	Al6
ATOM	31385	C1' GUA	568	140.397	101.131	-36.019	1.00	32.79	Al6S	ATOM	31438	N7 GUA	570	135.068	106.270	-39.593	1.00	34.42	Al6
ATOM	31386	C4 GUA	568	140.870	102.090	-36.887	1.00	32.79	Al6S	ATOM	31439	C8 GUA	570	135.338	107.313	-38.854	1.00	34.42	Al6
ATOM	31387	N9 GUA	568	141.680	103.123	-36.571	1.00	32.79	Al6S	ATOM	31440	C2' GUA	570	134.757	110.789	-38.973	1.00	51.20	Al6
ATOM	31388	N3 GUA	568	141.959	103.874	-37.625	1.00	32.79	Al6S	ATOM	31441	O2' GUA	570	134.948	111.135	-39.862	1.00	51.20	Al6
ATOM	31389	C2 GUA	568	142.748	104.961	-37.490	1.00	32.79	Al6S	ATOM	31442	C3' GUA	570	134.779	111.875	-37.477	1.00	51.20	Al6
ATOM	31390	N1 GUA	568	141.488	103.621	-38.889	1.00	32.79	Al6S	ATOM	31443	O3' GUA	571	134.646	112.550	-37.243	1.00	51.20	Al6
ATOM	31391	C6 GUA	568	140.668	102.561	-39.236	1.00	32.79	Al6S	ATOM	31444	P	571	133.282	113.310	-37.625	1.00	48.09	Al6
ATOM	31392	O6 GUA	568	140.331	102.413	-40.402	1.00	32.79	Al6S	ATOM	31445	O1P GUA	571	132.961	114.200	-36.479	1.00	51.37	Al6
ATOM	31393	O6 GUA	568	140.344	101.760	-38.114	1.00	32.79	Al6S	ATOM	31446	O2P GUA	571	132.288	112.290	-38.085	1.00	51.37	Al6
ATOM	31394	C5 GUA	568						Al6S	ATOM	31447	O5' GUA	571	133.656	114.255	-38.854	1.00	48.09	Al6

ATOM	31236	C6	CYT	561	160.919	100.490	-44.157	1.00	23.15	Al6S	ATOM	31289	C3	URI	563	149.503	101.352	-51.647	1.00	37.91	Al
ATOM	31237	C2	CYT	561	160.332	100.000	-46.434	1.00	23.15	Al6S	ATOM	31290	P	GUA	564	148.202	102.037	-51.011	1.00	46.29	Al
ATOM	31238	C2	CYT	561	160.242	100.383	-47.608	1.00	23.15	Al6S	ATOM	31291	O1P	GUA	564	147.290	102.394	-52.132	1.00	35.25	Al
ATOM	31239	N3	CYT	561	159.940	98.768	-46.071	1.00	23.15	Al6S	ATOM	31292	O2P	GUA	564	148.683	103.099	-50.083	1.00	35.25	Al
ATOM	31240	C4	CYT	561	160.030	98.396	-44.800	1.00	23.15	Al6S	ATOM	31293	O5	GUA	564	147.532	100.883	-50.140	1.00	46.29	Al
ATOM	31241	N4	CYT	561	159.644	97.164	-44.484	1.00	23.15	Al6S	ATOM	31294	C5	GUA	564	146.707	99.886	-50.763	1.00	46.29	Al
ATOM	31242	C5	CYT	561	160.526	99.269	-43.788	1.00	23.15	Al6S	ATOM	31295	C4	GUA	564	146.817	98.577	-50.023	1.00	46.29	Al
ATOM	31243	C2	CYT	561	160.132	103.155	-47.069	1.00	38.16	Al6S	ATOM	31296	C1	GUA	564	148.176	98.470	-49.535	1.00	46.29	Al
ATOM	31244	O2	CYT	561	160.452	104.078	-47.090	1.00	38.16	Al6S	ATOM	31297	C1	GUA	564	148.195	97.778	-48.304	1.00	46.29	Al
ATOM	31245	C3	CYT	561	160.065	103.826	-44.709	1.00	38.16	Al6S	ATOM	31298	N9	GUA	564	148.745	98.668	-47.284	1.00	35.25	Al
ATOM	31246	C3	CYT	561	159.377	105.053	-44.791	1.00	38.16	Al6S	ATOM	31299	C4	GUA	564	149.155	98.300	-46.032	1.00	35.25	Al
ATOM	31247	P	GUA	562	157.795	105.080	-44.540	1.00	38.84	Al6S	ATOM	31300	N3	GUA	564	149.132	97.055	-45.533	1.00	35.25	Al
ATOM	31248	O1P	GUA	562	157.389	106.511	-44.601	1.00	38.53	Al6S	ATOM	31301	C2	GUA	564	149.547	97.020	-44.280	1.00	35.25	Al
ATOM	31249	O2P	GUA	562	157.510	104.274	-43.312	1.00	38.53	Al6S	ATOM	31302	N2	GUA	564	149.575	95.853	-43.617	1.00	35.25	Al
ATOM	31250	O5	GUA	562	157.162	104.318	-45.794	1.00	39.84	Al6S	ATOM	31303	N1	GUA	564	149.960	98.118	-43.579	1.00	35.25	Al
ATOM	31251	C5	GUA	562	157.003	104.989	-47.049	1.00	39.84	Al6S	ATOM	31304	C6	GUA	564	150.004	99.405	-44.075	1.00	35.25	Al
ATOM	31252	C4	GUA	562	156.819	103.991	-48.167	1.00	39.84	Al6S	ATOM	31305	O6	GUA	564	150.400	100.314	-43.357	1.00	35.25	Al
ATOM	31253	C4	GUA	562	157.543	102.778	-47.848	1.00	39.84	Al6S	ATOM	31306	C5	GUA	564	149.552	99.465	-45.416	1.00	35.25	Al
ATOM	31254	C1	GUA	562	156.944	101.684	-48.505	1.00	39.84	Al6S	ATOM	31307	N7	GUA	564	149.410	100.549	-46.272	1.00	35.25	Al
ATOM	31255	N9	GUA	562	156.718	100.614	-47.542	1.00	38.53	Al6S	ATOM	31308	C8	GUA	564	148.935	100.029	-47.371	1.00	35.25	Al
ATOM	31256	C3	GUA	562	156.269	99.355	-47.830	1.00	38.53	Al6S	ATOM	31309	C2	GUA	564	146.764	97.346	-48.006	1.00	46.29	Al
ATOM	31257	N3	GUA	562	155.939	98.897	-49.049	1.00	38.53	Al6S	ATOM	31310	O2	GUA	564	146.592	96.046	-48.530	1.00	46.29	Al
ATOM	31258	C2	GUA	562	155.531	97.640	-49.013	1.00	38.53	Al6S	ATOM	31311	C3	GUA	564	145.962	98.384	-48.780	1.00	46.29	Al
ATOM	31259	N2	GUA	562	155.149	97.030	-50.146	1.00	38.53	Al6S	ATOM	31312	C3	GUA	564	144.652	97.915	-49.102	1.00	46.29	Al
ATOM	31260	N1	GUA	562	155.462	96.887	-47.869	1.00	38.53	Al6S	ATOM	31313	P	URI	565	143.445	98.083	-48.034	1.00	45.31	Al
ATOM	31261	C6	GUA	562	155.805	97.337	-46.601	1.00	38.53	Al6S	ATOM	31314	O1P	URI	565	142.184	98.266	-48.798	1.00	43.35	Al
ATOM	31262	O6	GUA	562	155.719	96.572	-45.634	1.00	38.53	Al6S	ATOM	31315	O2P	URI	565	143.831	99.098	-47.020	1.00	43.35	Al
ATOM	31263	C5	GUA	562	156.234	98.626	-45.626	1.00	38.53	Al6S	ATOM	31316	O5	URI	565	143.380	96.656	-47.328	1.00	45.31	Al
ATOM	31264	N7	GUA	562	156.645	99.524	-45.597	1.00	38.53	Al6S	ATOM	31317	C5	URI	565	143.282	95.463	-48.117	1.00	45.31	Al
ATOM	31265	C8	GUA	562	156.920	100.653	-46.188	1.00	38.53	Al6S	ATOM	31318	C4	URI	565	143.184	94.248	-47.232	1.00	45.31	Al
ATOM	31266	C2	GUA	562	155.682	102.186	-49.202	1.00	39.84	Al6S	ATOM	31319	O4	URI	565	144.492	93.839	-46.766	1.00	45.31	Al
ATOM	31267	O2	GUA	562	155.980	102.398	-50.570	1.00	39.84	Al6S	ATOM	31320	C1	URI	565	144.380	93.274	-45.469	1.00	45.31	Al
ATOM	31268	C3	GUA	562	155.416	103.494	-48.466	1.00	39.84	Al6S	ATOM	31321	N1	URI	565	145.161	94.089	-44.520	1.00	43.35	Al
ATOM	31269	O3	GUA	562	154.719	104.403	-49.313	1.00	39.84	Al6S	ATOM	31322	C6	URI	565	145.544	95.377	-44.816	1.00	43.35	Al
ATOM	31270	P	URI	563	153.108	104.484	-49.247	1.00	37.91	Al6S	ATOM	31323	C2	URI	565	145.482	93.516	-43.294	1.00	43.35	Al
ATOM	31271	O1P	URI	563	152.721	105.561	-50.200	1.00	49.47	Al6S	ATOM	31324	O2	URI	565	145.197	92.373	-43.000	1.00	43.35	Al
ATOM	31272	O2P	URI	563	152.687	104.577	-47.819	1.00	49.47	Al6S	ATOM	31325	N3	URI	565	146.154	94.333	-42.429	1.00	43.35	Al
ATOM	31273	O5	URI	563	152.593	103.072	-49.792	1.00	37.91	Al6S	ATOM	31326	C4	URI	565	146.548	95.629	-42.652	1.00	43.35	Al
ATOM	31274	C5	URI	563	152.413	102.823	-51.196	1.00	37.91	Al6S	ATOM	31327	O4	URI	565	147.145	96.240	-41.759	1.00	43.35	Al
ATOM	31275	C4	URI	563	151.941	101.404	-51.408	1.00	37.91	Al6S	ATOM	31328	C5	URI	565	146.204	96.144	-43.952	1.00	43.35	Al
ATOM	31276	O1	URI	563	152.870	100.502	-50.754	1.00	37.91	Al6S	ATOM	31329	C2	URI	565	142.896	93.269	-45.104	1.00	45.31	Al
ATOM	31277	C1	URI	563	152.163	99.374	-50.245	1.00	37.91	Al6S	ATOM	31330	O2	URI	565	142.334	92.014	-45.440	1.00	45.31	Al
ATOM	31278	N1	URI	563	152.394	99.304	-48.787	1.00	49.47	Al6S	ATOM	31331	C3	URI	565	142.375	94.406	-45.966	1.00	45.31	Al
ATOM	31279	C6	URI	563	152.848	100.396	-48.074	1.00	49.47	Al6S	ATOM	31332	O3	URI	565	140.995	94.324	-46.196	1.00	45.31	Al
ATOM	31280	C2	URI	563	152.128	98.097	-48.139	1.00	49.47	Al6S	ATOM	31333	P	URI	566	139.999	95.146	-45.249	1.00	43.40	Al
ATOM	31281	O2	URI	563	151.708	97.106	-48.716	1.00	49.47	Al6S	ATOM	31334	O1P	URI	566	138.632	94.948	-45.774	1.00	39.62	Al
ATOM	31282	N3	URI	563	152.372	98.098	-46.786	1.00	49.47	Al6S	ATOM	31335	O2P	URI	566	140.532	96.532	-45.082	1.00	39.62	Al
ATOM	31283	C4	URI	563	152.840	99.147	-46.026	1.00	49.47	Al6S	ATOM	31336	O5	URI	566	140.105	94.374	-43.862	1.00	43.40	Al
ATOM	31284	O4	URI	563	153.080	98.968	-44.834	1.00	49.47	Al6S	ATOM	31337	C5	URI	566	139.676	93.007	-43.759	1.00	43.40	Al
ATOM	31285	C5	URI	563	153.072	100.356	-46.754	1.00	49.47	Al6S	ATOM	31338	C4	URI	566	139.999	92.471	-42.399	1.00	43.40	Al
ATOM	31286	C2	URI	563	150.718	99.525	-50.635	1.00	37.91	Al6S	ATOM	31339	O4	URI	566	141.431	92.471	-42.222	1.00	43.40	Al
ATOM	31287	O2	URI	563	150.480	98.829	-51.843	1.00	37.91	Al6S	ATOM	31340	C1	URI	566	141.754	92.829	-40.892	1.00	43.40	Al
ATOM	31288	C3	URI	563	150.597	101.031	-50.805	1.00	37.91	Al6S	ATOM	31341	N9	URI	566	142.521	94.069	-40.932	1.00	39.62	Al

ATOM	31130	N7	ADP	556	165.126	104.871	-19.932	1.00	40.32	Al6S	ATOM	31183	O2P	GUA	559	162.738	103.674	-36.508	1.00	40.70	Al1
ATOM	31131	C8	ADP	556	165.705	103.900	-20.590	1.00	40.32	Al6S	ATOM	31184	O5'	GUA	559	161.870	101.942	-34.886	1.00	38.49	Al1
ATOM	31132	C2'	ADP	556	165.207	101.404	-22.975	1.00	36.68	Al6S	ATOM	31185	C5'	GUA	559	162.092	100.615	-34.384	1.00	38.49	Al1
ATOM	31133	O2'	ADP	556	164.778	100.090	-23.278	1.00	36.68	Al6S	ATOM	31186	C4'	GUA	559	161.625	99.572	-35.381	1.00	38.49	Al1
ATOM	31134	C3'	ADP	556	166.664	101.631	-23.369	1.00	36.68	Al6S	ATOM	31187	O4'	GUA	559	160.200	99.328	-35.301	1.00	38.49	Al1
ATOM	31135	O3'	ADP	556	167.054	100.971	-24.573	1.00	36.68	Al6S	ATOM	31188	C1'	GUA	559	159.658	99.249	-36.603	1.00	38.49	Al1
ATOM	31136	P	ADP	557	167.104	101.790	-25.958	1.00	34.61	Al6S	ATOM	31189	N9	GUA	559	158.317	99.823	-36.576	1.00	40.70	Al1
ATOM	31137	O1P	ADP	557	167.817	100.960	-26.964	1.00	42.02	Al6S	ATOM	31190	C4	GUA	559	157.137	99.248	-37.017	1.00	40.70	Al1
ATOM	31138	O2P	ADP	557	167.557	103.184	-25.698	1.00	42.02	Al6S	ATOM	31191	N3	GUA	559	156.986	98.008	-37.526	1.00	40.70	Al1
ATOM	31139	C8	ADP	557	165.583	101.841	-26.399	1.00	34.61	Al6S	ATOM	31192	C2	GUA	559	155.722	97.762	-37.863	1.00	40.70	Al1
ATOM	31140	C5'	ADP	557	164.823	100.635	-26.509	1.00	34.61	Al6S	ATOM	31193	N2	GUA	559	155.371	96.573	-38.352	1.00	40.70	Al1
ATOM	31141	C4'	ADP	557	163.375	100.966	-26.623	1.00	34.61	Al6S	ATOM	31194	N1	GUA	559	154.704	98.664	-37.737	1.00	40.70	Al1
ATOM	31142	O4'	ADP	557	162.915	101.526	-25.375	1.00	34.61	Al6S	ATOM	31195	C6	GUA	559	153.859	100.692	-37.126	1.00	40.70	Al1
ATOM	31143	C1'	ADP	557	162.003	102.573	-25.636	1.00	34.61	Al6S	ATOM	31196	O6	GUA	559	156.176	100.214	-36.832	1.00	40.70	Al1
ATOM	31144	N9	ADP	557	162.479	103.762	-24.929	1.00	42.02	Al6S	ATOM	31197	C5	GUA	559	156.724	101.353	-36.262	1.00	40.70	Al1
ATOM	31145	C4	ADP	557	161.851	104.348	-23.861	1.00	42.02	Al6S	ATOM	31198	N7	GUA	559	157.987	101.074	-36.122	1.00	40.70	Al1
ATOM	31146	N3	ADP	557	160.674	103.999	-23.315	1.00	42.02	Al6S	ATOM	31199	C8	GUA	559	157.987	101.074	-36.122	1.00	40.70	Al1
ATOM	31147	C2	ADP	557	160.402	104.765	-22.273	1.00	42.02	Al6S	ATOM	31200	C2'	GUA	559	160.611	100.046	-37.493	1.00	38.49	Al1
ATOM	31148	N1	ADP	557	161.119	105.758	-21.752	1.00	42.02	Al6S	ATOM	31201	O2'	GUA	559	160.551	99.539	-38.813	1.00	38.49	Al1
ATOM	31149	C6	ADP	557	162.292	106.081	-22.325	1.00	42.02	Al6S	ATOM	31202	C3'	GUA	559	161.961	99.758	-36.851	1.00	38.49	Al1
ATOM	31150	N6	ADP	557	163.006	107.064	-21.800	1.00	42.02	Al6S	ATOM	31203	O3'	GUA	559	162.362	98.510	-37.372	1.00	38.49	Al1
ATOM	31151	C5	ADP	557	162.690	105.357	-23.439	1.00	42.02	Al6S	ATOM	31204	P	GUA	560	163.891	98.252	-37.722	1.00	40.56	Al1
ATOM	31152	N7	ADP	557	163.808	105.440	-24.251	1.00	42.02	Al6S	ATOM	31205	O1P	GUA	560	163.903	96.844	-38.206	1.00	28.96	Al1
ATOM	31153	C8	ADP	557	163.628	104.482	-25.126	1.00	42.02	Al6S	ATOM	31206	O2P	GUA	560	164.712	98.640	-36.556	1.00	28.96	Al1
ATOM	31154	O2'	ADP	557	161.837	102.697	-27.153	1.00	34.61	Al6S	ATOM	31207	O5'	GUA	560	164.180	99.221	-38.944	1.00	40.56	Al1
ATOM	31155	O2'	ADP	557	160.689	101.977	-27.550	1.00	34.61	Al6S	ATOM	31208	C5'	GUA	560	164.929	100.427	-38.772	1.00	40.56	Al1
ATOM	31156	C3'	ADP	557	163.105	102.028	-27.665	1.00	34.61	Al6S	ATOM	31209	C4'	GUA	560	165.162	101.065	-40.115	1.00	40.56	Al1
ATOM	31157	O3'	ADP	557	162.927	101.404	-28.931	1.00	34.61	Al6S	ATOM	31210	O4'	GUA	560	165.781	100.069	-40.963	1.00	40.56	Al1
ATOM	31158	P	GUA	558	163.826	101.867	-30.173	1.00	39.07	Al6S	ATOM	31211	C1'	GUA	560	165.281	100.181	-42.275	1.00	40.56	Al1
ATOM	31159	O1P	GUA	558	163.468	101.021	-31.339	1.00	38.64	Al6S	ATOM	31212	N9	GUA	560	164.647	98.923	-42.652	1.00	28.96	Al1
ATOM	31160	O2P	GUA	558	165.241	101.947	-29.725	1.00	38.64	Al6S	ATOM	31213	C4	GUA	560	164.138	98.647	-43.891	1.00	28.96	Al1
ATOM	31161	O5'	GUA	558	163.322	103.345	-30.474	1.00	39.07	Al6S	ATOM	31214	N3	GUA	560	164.125	99.494	-44.932	1.00	28.96	Al1
ATOM	31162	C5'	GUA	558	161.943	103.593	-30.800	1.00	39.07	Al6S	ATOM	31215	C2	GUA	560	163.583	98.961	-45.991	1.00	28.96	Al1
ATOM	31163	C4'	GUA	558	161.717	103.381	-32.272	1.00	39.07	Al6S	ATOM	31216	N2	GUA	560	163.470	99.687	-47.108	1.00	28.96	Al1
ATOM	31164	O4'	GUA	558	160.308	103.443	-32.563	1.00	39.07	Al6S	ATOM	31217	N1	GUA	560	163.108	97.689	-46.038	1.00	28.96	Al1
ATOM	31165	C1'	GUA	558	160.005	104.545	-33.398	1.00	39.07	Al6S	ATOM	31218	C6	GUA	560	163.122	96.791	-44.984	1.00	28.96	Al1
ATOM	31166	N9	GUA	558	158.882	105.224	-32.752	1.00	38.64	Al6S	ATOM	31219	O6	GUA	560	162.690	95.641	-45.150	1.00	28.96	Al1
ATOM	31167	C4	GUA	558	157.550	105.033	-33.928	1.00	38.64	Al6S	ATOM	31220	C5	GUA	560	163.680	97.364	-43.824	1.00	28.96	Al1
ATOM	31168	N3	GUA	558	157.051	104.274	-34.020	1.00	38.64	Al6S	ATOM	31221	N7	GUA	560	163.876	96.834	-42.552	1.00	28.96	Al1
ATOM	31169	C2	GUA	558	155.732	104.241	-34.901	1.00	38.64	Al6S	ATOM	31222	C8	GUA	560	164.452	97.800	-41.889	1.00	28.96	Al1
ATOM	31170	N2	GUA	558	155.071	103.547	-34.930	1.00	38.64	Al6S	ATOM	31223	C2'	GUA	560	164.301	101.344	-42.316	1.00	40.56	Al1
ATOM	31171	N1	GUA	558	154.960	104.884	-33.075	1.00	38.64	Al6S	ATOM	31224	O2'	GUA	560	164.966	102.488	-42.783	1.00	40.56	Al1
ATOM	31172	C6	GUA	558	155.440	105.663	-32.039	1.00	38.64	Al6S	ATOM	31225	C3'	GUA	560	163.891	101.439	-40.859	1.00	40.56	Al1
ATOM	31173	O6	GUA	558	156.638	106.183	-31.246	1.00	38.64	Al6S	ATOM	31226	O3'	GUA	560	163.413	102.730	-40.517	1.00	40.56	Al1
ATOM	31174	C5	GUA	558	156.869	105.730	-32.057	1.00	38.64	Al6S	ATOM	31227	P	CYT	561	161.832	103.031	-40.588	1.00	38.16	Al1
ATOM	31175	N7	GUA	558	157.753	106.403	-31.227	1.00	38.64	Al6S	ATOM	31228	O1P	CYT	561	161.732	104.415	-40.059	1.00	23.15	Al1
ATOM	31176	C8	GUA	558	158.931	106.091	-31.690	1.00	38.64	Al6S	ATOM	31229	O2P	CYT	561	161.054	101.922	-39.961	1.00	23.15	Al1
ATOM	31177	C2'	GUA	558	161.279	105.367	-33.586	1.00	39.07	Al6S	ATOM	31230	O5'	CYT	561	161.486	103.077	-42.142	1.00	38.16	Al1
ATOM	31178	O2'	GUA	558	161.388	105.829	-34.913	1.00	39.07	Al6S	ATOM	31231	C5'	CYT	561	161.883	104.203	-42.926	1.00	38.16	Al1
ATOM	31179	C3'	GUA	558	162.380	104.388	-33.174	1.00	39.07	Al6S	ATOM	31232	C4'	CYT	561	161.532	103.991	-44.373	1.00	38.16	Al1
ATOM	31180	O3'	GUA	558	163.415	103.836	-34.026	1.00	39.07	Al6S	ATOM	31233	O4'	CYT	561	162.129	102.761	-44.862	1.00	38.16	Al1
ATOM	31181	P	GUA	559	163.091	102.879	-35.290	1.00	38.49	Al6S	ATOM	31234	C1'	CYT	561	161.309	102.212	-45.877	1.00	38.16	Al1
ATOM	31182	O1P	GUA	559	164.286	102.015	-35.304	1.00	40.70	Al6S	ATOM	31235	N1	CYT	561	160.848	100.880	-45.458	1.00	23.15	Al1

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ATOM	31024	C8' GUA	551	154.460	106.378	-21.855	1.00	38.72	Al6S	ATOM	31077	C4' URI	554	170.854	110.147	-27.229	1.00	29.73	Al
ATOM	31025	C2' GUA	551	157.975	107.505	-21.776	1.00	39.12	Al6S	ATOM	31078	O4' URI	554	170.359	111.510	-27.273	1.00	29.73	Al
ATOM	31026	O2' GUA	551	159.137	107.428	-20.982	1.00	39.12	Al6S	ATOM	31079	C1' URI	554	170.604	112.142	-26.024	1.00	29.73	Al
ATOM	31027	C3' GUA	551	157.531	108.956	-21.852	1.00	39.12	Al6S	ATOM	31080	N1 URI	554	169.316	112.541	-25.436	1.00	41.94	Al
ATOM	31028	O3' GUA	551	158.641	109.847	-21.941	1.00	39.12	Al6S	ATOM	31081	C6 URI	554	168.121	112.046	-25.910	1.00	41.94	Al
ATOM	31029	P	552	158.953	110.588	-23.336	1.00	38.14	Al6S	ATOM	31082	C2 URI	554	169.345	113.442	-24.393	1.00	41.94	Al
ATOM	31030	O1P CYT	552	159.999	111.620	-23.121	1.00	35.00	Al6S	ATOM	31083	O2 URI	554	170.384	113.893	-23.934	1.00	41.94	Al
ATOM	31031	O2P CYT	552	157.656	110.977	-23.958	1.00	35.00	Al6S	ATOM	31084	N3 URI	554	168.113	113.800	-23.906	1.00	41.94	Al
ATOM	31032	O5' CYT	552	159.567	109.425	-24.231	1.00	38.14	Al6S	ATOM	31085	C4 URI	554	166.886	113.360	-24.347	1.00	41.94	Al
ATOM	31033	C5' CYT	552	160.908	108.957	-24.037	1.00	38.14	Al6S	ATOM	31086	O4 URI	554	165.863	113.843	-23.865	1.00	41.94	Al
ATOM	31034	C4' CYT	552	161.254	107.980	-25.120	1.00	38.14	Al6S	ATOM	31087	C5 URI	554	166.942	112.414	-25.416	1.00	41.94	Al
ATOM	31035	O4' CYT	552	160.382	106.832	-25.014	1.00	38.14	Al6S	ATOM	31088	C2' URI	554	171.355	111.150	-25.136	1.00	29.73	Al
ATOM	31036	C1' CYT	552	160.104	106.324	-26.300	1.00	38.14	Al6S	ATOM	31089	O2' URI	554	172.744	111.386	-25.231	1.00	29.73	Al
ATOM	31037	N1 CYT	552	158.648	106.185	-26.464	1.00	35.00	Al6S	ATOM	31090	C3' URI	554	170.936	109.820	-25.744	1.00	29.73	Al
ATOM	31038	C6 CYT	552	157.781	106.970	-25.764	1.00	35.00	Al6S	ATOM	31091	O3' URI	554	171.836	108.771	-25.455	1.00	29.73	Al
ATOM	31039	C2 CYT	552	158.160	105.222	-27.361	1.00	35.00	Al6S	ATOM	31092	P	555	171.252	107.307	-25.161	1.00	42.91	Al
ATOM	31040	O2 CYT	552	158.965	104.521	-27.998	1.00	35.00	Al6S	ATOM	31093	O1P ADE	555	172.343	106.333	-25.413	1.00	52.18	Al
ATOM	31041	N3 CYT	552	155.994	105.080	-27.517	1.00	35.00	Al6S	ATOM	31094	O2P ADE	555	169.949	107.160	-23.598	1.00	52.18	Al
ATOM	31042	C4 CYT	552	154.696	105.670	-27.010	1.00	35.00	Al6S	ATOM	31095	O5' ADE	555	169.930	108.021	-22.994	1.00	42.91	Al
ATOM	31043	N4 CYT	552	156.769	107.236	-27.329	1.00	38.14	Al6S	ATOM	31096	C5' ADE	555	169.761	107.574	-22.569	1.00	42.91	Al
ATOM	31044	C5 CYT	552	161.939	106.598	-27.793	1.00	38.14	Al6S	ATOM	31097	C4' ADE	555	168.481	107.969	-19.687	1.00	42.91	Al
ATOM	31045	O2' CYT	552	161.026	108.504	-26.522	1.00	38.14	Al6S	ATOM	31098	O4' ADE	555	167.196	108.622	-19.459	1.00	52.18	Al
ATOM	31046	C2' CYT	552	162.191	109.167	-26.966	1.00	38.14	Al6S	ATOM	31100	N9 ADE	555	167.015	109.762	-18.707	1.00	52.18	Al
ATOM	31047	C3' CYT	552	162.105	110.686	-27.457	1.00	35.37	Al6S	ATOM	31101	C4 ADE	555	167.940	110.439	-18.012	1.00	52.18	Al
ATOM	31048	O3' CYT	553	161.959	111.517	-26.233	1.00	40.10	Al6S	ATOM	31102	N3 ADE	555	166.161	111.954	-17.504	1.00	52.18	Al
ATOM	31049	P	553	163.541	110.979	-28.098	1.00	40.10	Al6S	ATOM	31103	C2 ADE	555	165.259	111.253	-18.203	1.00	52.18	Al
ATOM	31050	O1P GUA	553	163.901	110.474	-29.414	1.00	35.37	Al6S	ATOM	31104	N1 ADE	555	165.689	110.092	-18.841	1.00	52.18	Al
ATOM	31051	O2P GUA	553	164.880	112.564	-30.023	1.00	35.37	Al6S	ATOM	31105	C6 ADE	555	165.028	109.159	-19.626	1.00	52.18	Al
ATOM	31052	O5' GUA	553	165.982	113.315	-29.562	1.00	35.37	Al6S	ATOM	31106	N6 ADE	555	165.964	108.304	-19.958	1.00	52.18	Al
ATOM	31053	C4' GUA	553	165.513	114.170	-28.470	1.00	40.10	Al6S	ATOM	31107	C5 ADE	555	169.382	105.883	-18.940	1.00	42.91	Al
ATOM	31054	O4' GUA	553	166.255	114.895	-27.569	1.00	40.10	Al6S	ATOM	31108	N7 ADE	555	168.501	106.449	-19.887	1.00	42.91	Al
ATOM	31055	C5' GUA	553	167.608	114.929	-27.494	1.00	40.10	Al6S	ATOM	31109	C8 ADE	555	169.382	105.883	-18.940	1.00	42.91	Al
ATOM	31056	C1' GUA	553	168.030	115.752	-26.547	1.00	40.10	Al6S	ATOM	31110	C2' ADE	555	168.975	106.306	-21.338	1.00	42.91	Al
ATOM	31057	N9 GUA	553	169.324	115.924	-26.338	1.00	40.10	Al6S	ATOM	31111	O2' ADE	555	169.860	105.204	-21.472	1.00	36.68	Al
ATOM	31058	C4 GUA	553	167.204	116.470	-25.738	1.00	40.10	Al6S	ATOM	31112	C3' ADE	555	169.639	104.131	-22.640	1.00	36.68	Al
ATOM	31059	N3 GUA	553	165.823	116.449	-25.793	1.00	40.10	Al6S	ATOM	31113	O3' ADE	555	169.930	103.404	-22.758	1.00	40.32	Al
ATOM	31060	C2 GUA	553	165.174	117.143	-25.016	1.00	40.10	Al6S	ATOM	31114	P	556	169.079	104.814	-23.831	1.00	40.32	Al
ATOM	31061	N1 GUA	553	165.332	115.582	-26.799	1.00	40.10	Al6S	ATOM	31115	O1P ADE	556	168.554	103.155	-22.013	1.00	36.68	Al
ATOM	31062	C6 GUA	553	164.054	115.286	-27.188	1.00	40.10	Al6S	ATOM	31116	O2P ADE	556	168.732	101.738	-21.983	1.00	36.68	Al
ATOM	31063	O6 GUA	553	164.197	114.440	-28.169	1.00	40.10	Al6S	ATOM	31117	O5' ADE	556	166.594	101.251	-21.035	1.00	36.68	Al
ATOM	31064	C7 GUA	553	167.122	112.341	-29.266	1.00	35.37	Al6S	ATOM	31118	C4' ADE	556	166.447	101.545	-21.447	1.00	36.68	Al
ATOM	31065	N7 GUA	553	166.373	111.040	-29.006	1.00	35.37	Al6S	ATOM	31119	O4' ADE	556	163.641	103.207	-20.377	1.00	40.32	Al
ATOM	31066	C8 GUA	553	167.164	109.901	-29.364	1.00	35.37	Al6S	ATOM	31120	C1' ADE	556	162.496	102.513	-20.433	1.00	40.32	Al
ATOM	31067	O3' GUA	553	167.392	108.714	-28.301	1.00	29.73	Al6S	ATOM	31121	N9 ADE	556	161.518	103.163	-19.813	1.00	40.32	Al
ATOM	31068	C2' GUA	553	166.230	108.669	-27.377	1.00	41.94	Al6S	ATOM	31122	C2 ADE	556	162.714	105.003	-19.134	1.00	40.32	Al
ATOM	31069	O1P URI	554	168.655	109.186	-27.456	1.00	29.73	Al6S	ATOM	31123	N1 ADE	556	162.759	106.158	-18.470	1.00	40.32	Al
ATOM	31070	C3' GUA	554	169.954	109.272	-28.055	1.00	29.73	Al6S	ATOM	31124	C6 ADE	556	163.822	104.436	-19.776	1.00	40.32	Al
ATOM	31071	O3' GUA	554							ATOM	31125	N6 ADE	556						Al
ATOM	31072	P	554							ATOM	31126	C5 ADE	556						Al
ATOM	31073	O1P URI	554							ATOM	31127	C6 ADE	556						Al
ATOM	31074	O2P URI	554							ATOM	31128	N6 ADE	556						Al
ATOM	31075	O5' URI	554							ATOM	31129	C5 ADE	556						Al
ATOM	31076	C5' URI	554							ATOM	31129	C5 ADE	556						Al

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ATOM	33144	N2	649	161.268	106.589	-61.642	1.00	49.04	Al6S	ATOM	33197	C2'	GUA	651	165.887	100.569	-66.537	1.00	46.26	Al6
ATOM	33145	N2	649	161.654	108.459	-62.937	1.00	49.04	Al6S	ATOM	33198	O2'	GUA	651	165.105	99.423	-66.786	1.00	46.26	Al6
ATOM	33146	C6	649	162.128	109.737	-63.225	1.00	49.04	Al6S	ATOM	33199	C3'	GUA	651	166.884	100.326	-65.413	1.00	46.26	Al6
ATOM	33147	O6	649	162.006	110.207	-64.366	1.00	49.04	Al6S	ATOM	33200	O3'	GUA	651	167.526	99.051	-65.534	1.00	46.26	Al6
ATOM	33148	C5	649	162.730	110.328	-62.105	1.00	49.04	Al6S	ATOM	33201	P	URI	652	168.999	98.959	-66.195	1.00	65.97	Al6
ATOM	33149	N7	649	163.305	111.578	-61.959	1.00	49.04	Al6S	ATOM	33202	O1P	URI	652	169.522	97.586	-65.920	1.00	49.17	Al6
ATOM	33150	C8	649	163.720	111.602	-60.726	1.00	49.04	Al6S	ATOM	33203	O2P	URI	652	169.774	100.144	-65.747	1.00	49.17	Al6
ATOM	33151	C2'	649	164.748	108.880	-58.667	1.00	44.38	Al6S	ATOM	33204	O5'	URI	652	168.742	99.146	-67.764	1.00	65.97	Al6
ATOM	33152	O2'	649	164.535	108.211	-57.442	1.00	44.38	Al6S	ATOM	33205	C5'	URI	652	167.877	98.247	-68.498	1.00	65.97	Al6
ATOM	33153	O3'	649	166.124	109.516	-58.798	1.00	44.38	Al6S	ATOM	33206	C4'	URI	652	167.756	98.670	-69.935	1.00	65.97	Al6
ATOM	33154	O3'	649	167.178	108.665	-58.395	1.00	44.38	Al6S	ATOM	33207	O4'	URI	652	166.943	99.866	-70.081	1.00	65.97	Al6
ATOM	33155	P	650	168.082	107.951	-59.520	1.00	46.39	Al6S	ATOM	33208	C1'	URI	652	167.390	100.633	-71.189	1.00	65.97	Al6
ATOM	33156	O1P	650	169.277	107.404	-58.822	1.00	41.64	Al6S	ATOM	33209	N1	URI	652	167.839	101.944	-70.705	1.00	49.17	Al6
ATOM	33157	O2P	650	168.270	108.888	-60.661	1.00	41.64	Al6S	ATOM	33210	C6	URI	652	168.283	102.110	-69.413	1.00	49.17	Al6
ATOM	33158	O5'	650	167.171	106.743	-60.014	1.00	46.39	Al6S	ATOM	33211	C2	URI	652	167.824	103.013	-71.599	1.00	49.17	Al6
ATOM	33159	C3'	650	166.674	105.788	-59.075	1.00	46.39	Al6S	ATOM	33212	O2	URI	652	167.433	102.921	-72.752	1.00	49.17	Al6
ATOM	33160	C4'	650	165.735	104.835	-59.753	1.00	46.39	Al6S	ATOM	33213	N3	URI	652	168.289	104.201	-71.088	1.00	49.17	Al6
ATOM	33161	O4'	650	164.589	105.577	-60.231	1.00	46.39	Al6S	ATOM	33214	C4	URI	652	168.757	104.427	-69.806	1.00	49.17	Al6
ATOM	33162	C1'	650	164.157	105.043	-61.467	1.00	46.39	Al6S	ATOM	33215	O4	URI	652	169.123	105.555	-69.489	1.00	49.17	Al6
ATOM	33163	N9	650	164.365	106.060	-62.492	1.00	41.64	Al6S	ATOM	33216	C5	URI	652	168.734	103.280	-68.947	1.00	49.17	Al6
ATOM	33164	C4	650	163.951	105.979	-63.793	1.00	41.64	Al6S	ATOM	33217	C2'	URI	652	168.550	99.885	-71.842	1.00	65.97	Al6
ATOM	33165	N3	650	163.285	104.944	-64.341	1.00	41.64	Al6S	ATOM	33218	O2'	URI	652	168.086	99.157	-72.963	1.00	65.97	Al6
ATOM	33166	C2	650	162.997	105.156	-65.605	1.00	41.64	Al6S	ATOM	33219	C3'	URI	652	169.044	97.011	-70.692	1.00	65.97	Al6
ATOM	33167	N2	650	162.312	104.224	-66.289	1.00	41.64	Al6S	ATOM	33220	O3'	URI	652	169.753	97.869	-71.159	1.00	65.97	Al6
ATOM	33168	N1	650	163.350	106.295	-66.287	1.00	41.64	Al6S	ATOM	33221	P	GUA	653	171.347	97.954	-71.350	1.00	58.86	Al6
ATOM	33169	C6	650	164.044	107.371	-65.743	1.00	41.64	Al6S	ATOM	33222	O1P	GUA	653	171.807	96.678	-71.651	1.00	52.48	Al6
ATOM	33170	O6	650	164.319	108.348	-66.447	1.00	41.64	Al6S	ATOM	33223	O2P	GUA	653	171.913	98.678	-70.192	1.00	52.48	Al6
ATOM	33171	C5	650	165.007	107.965	-63.466	1.00	41.64	Al6S	ATOM	33224	O5'	GUA	653	171.536	98.868	-72.644	1.00	58.86	Al6
ATOM	33172	N7	650	164.998	107.272	-62.362	1.00	41.64	Al6S	ATOM	33225	C5'	GUA	653	171.120	98.390	-73.938	1.00	58.86	Al6
ATOM	33173	C8	650	165.000	100.445	-64.175	1.00	46.39	Al6S	ATOM	33226	C4'	GUA	653	170.034	99.522	-74.939	1.00	58.86	Al6
ATOM	33174	C2'	650	164.373	102.660	-61.195	1.00	46.39	Al6S	ATOM	33227	O4'	GUA	653	170.182	100.566	-74.398	1.00	58.86	Al6
ATOM	33175	O2'	650	166.273	104.149	-60.995	1.00	46.39	Al6S	ATOM	33228	C1'	GUA	653	170.579	101.821	-74.931	1.00	58.86	Al6
ATOM	33176	C3'	650	167.048	103.005	-60.708	1.00	46.39	Al6S	ATOM	33229	N9	GUA	653	170.988	102.715	-73.851	1.00	52.48	Al6
ATOM	33177	O3'	650	168.219	102.583	-61.715	1.00	43.08	Al6S	ATOM	33230	C4	GUA	653	171.209	104.059	-73.999	1.00	52.48	Al6
ATOM	33178	P	651	168.946	101.468	-61.044	1.00	43.08	Al6S	ATOM	33231	N3	GUA	653	171.051	104.759	-75.144	1.00	52.48	Al6
ATOM	33179	O1P	651	168.945	103.826	-62.085	1.00	43.08	Al6S	ATOM	33232	C2	GUA	653	171.242	106.039	-74.992	1.00	52.48	Al6
ATOM	33180	O2P	651	167.434	102.012	-62.983	1.00	46.26	Al6S	ATOM	33233	N2	GUA	653	171.786	106.587	-73.803	1.00	52.48	Al6
ATOM	33181	O5'	651	166.675	100.789	-62.871	1.00	46.26	Al6S	ATOM	33234	N1	GUA	653	171.965	105.883	-72.616	1.00	52.48	Al6
ATOM	33182	C5'	651	166.000	100.445	-64.178	1.00	46.26	Al6S	ATOM	33235	C6	GUA	653	172.377	106.473	-71.613	1.00	52.48	Al6
ATOM	33183	O4'	651	165.044	101.481	-64.519	1.00	46.26	Al6S	ATOM	33236	O6	GUA	653	171.631	104.503	-72.766	1.00	52.48	Al6
ATOM	33184	C4'	651	164.996	101.644	-65.926	1.00	46.26	Al6S	ATOM	33237	C5	GUA	653	171.659	103.458	-72.766	1.00	52.48	Al6
ATOM	33185	C1'	651	165.511	102.912	-67.454	1.00	43.08	Al6S	ATOM	33238	N7	GUA	653	171.772	101.497	-77.211	1.00	58.86	Al6
ATOM	33186	N9	651	164.929	103.132	-68.585	1.00	43.08	Al6S	ATOM	33239	C8	GUA	653	172.311	100.270	-75.307	1.00	58.86	Al6
ATOM	33187	C4	651	165.028	103.991	-69.584	1.00	43.08	Al6S	ATOM	33240	O2'	GUA	653	173.149	99.639	-76.262	1.00	58.86	Al6
ATOM	33188	N3	651	164.528	103.676	-70.781	1.00	43.08	Al6S	ATOM	33241	O2'	GUA	654	175.336	98.926	-77.166	1.00	59.15	Al6
ATOM	33189	C2	651	166.192	105.730	-68.326	1.00	43.08	Al6S	ATOM	33242	C3'	GUA	654	175.117	99.612	-74.704	1.00	59.15	Al6
ATOM	33190	N2	651	166.706	106.854	-68.338	1.00	43.08	Al6S	ATOM	33243	O3'	GUA	654	175.036	101.333	-76.516	1.00	67.63	Al6
ATOM	33191	N1	651	166.087	104.825	-67.249	1.00	43.08	Al6S	ATOM	33244	O2P	GUA	654	174.937	101.752	-77.884	1.00	67.63	Al6
ATOM	33192	C6	651	166.511	104.946	-65.934	1.00	43.08	Al6S	ATOM	33245	O5'	GUA	654	174.799	103.251	-77.992	1.00	67.63	Al6
ATOM	33193	O6	651	166.146	103.827	-65.372	1.00	43.08	Al6S	ATOM	33246	C4'	GUA	654						Al6
ATOM	33194	C5	651							ATOM	33247	O5'	GUA							Al6
ATOM	33195	N7	651							ATOM	33248	C5'	GUA							Al6
ATOM	33196	C8	651							ATOM	33249	C4'	GUA							Al6

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ATOM	33250	O4' GUA	654	173.961	103.746	-76.919	1.00	67.63	AL6S	ATOM	33303	C5' GUA	656	182.456	109.741	-71.976	1.00	46.11	AL6
ATOM	33251	C6' GUA	654	174.314	105.087	-76.626	1.00	67.63	AL6S	ATOM	33304	N7 GUA	656	182.283	109.036	-73.156	1.00	46.11	AL6
ATOM	33252	N9 GUA	654	174.677	105.194	-75.218	1.00	59.15	AL6S	ATOM	33305	C8 GUA	656	182.355	109.946	-74.087	1.00	46.11	AL6
ATOM	33253	C4 GUA	654	174.992	106.360	-74.562	1.00	59.15	AL6S	ATOM	33306	C2' GUA	656	184.097	112.799	-74.755	1.00	77.50	AL6
ATOM	33254	N3 GUA	654	175.023	107.595	-75.112	1.00	59.15	AL6S	ATOM	33307	O2' GUA	656	184.231	114.200	-74.700	1.00	77.50	AL6
ATOM	33255	C2 GUA	654	175.353	108.521	-74.225	1.00	59.15	AL6S	ATOM	33308	C3' GUA	656	184.154	112.274	-76.182	1.00	77.50	AL6
ATOM	33256	N2 GUA	654	175.442	109.798	-74.604	1.00	59.15	AL6S	ATOM	33309	O3' GUA	656	185.068	113.011	-76.978	1.00	77.50	AL6
ATOM	33257	N1 GUA	654	175.621	108.260	-72.903	1.00	59.15	AL6S	ATOM	33310	P GUA	657	186.527	112.415	-77.299	1.00	57.92	AL6
ATOM	33258	C6 GUA	654	175.591	107.001	-72.316	1.00	59.15	AL6S	ATOM	33311	O1P GUA	657	186.956	113.125	-78.532	1.00	41.02	AL6
ATOM	33259	C5' GUA	654	175.839	106.880	-71.112	1.00	59.15	AL6S	ATOM	33312	O2P GUA	657	186.502	110.921	-77.276	1.00	41.02	AL6
ATOM	33260	N7 GUA	654	175.252	105.991	-73.260	1.00	59.15	AL6S	ATOM	33313	O5' GUA	657	187.423	112.952	-76.097	1.00	57.92	AL6
ATOM	33261	C8 GUA	654	175.117	104.617	-73.104	1.00	59.15	AL6S	ATOM	33314	C5' GUA	657	187.667	114.358	-75.953	1.00	57.92	AL6
ATOM	33262	C8 GUA	654	174.774	104.186	-74.290	1.00	59.15	AL6S	ATOM	33315	C4' GUA	657	187.787	114.733	-74.497	1.00	57.92	AL6
ATOM	33263	C2' GUA	654	175.479	105.471	-77.533	1.00	67.63	AL6S	ATOM	33316	O4' GUA	657	186.609	114.285	-73.777	1.00	57.92	AL6
ATOM	33264	O2' GUA	654	174.973	106.170	-78.655	1.00	67.63	AL6S	ATOM	33317	C1' GUA	657	186.621	112.521	-72.240	1.00	41.02	AL6
ATOM	33265	C3' GUA	654	176.052	104.105	-77.887	1.00	67.63	AL6S	ATOM	33318	N9 GUA	657	186.398	111.906	-71.028	1.00	41.02	AL6
ATOM	33266	O3' GUA	654	176.760	104.168	-79.113	1.00	67.63	AL6S	ATOM	33319	C4' GUA	657	186.421	112.499	-69.818	1.00	41.02	AL6
ATOM	33267	P URI	655	178.361	104.036	-79.113	1.00	59.86	AL6S	ATOM	33320	N3 GUA	657	186.209	111.635	-68.846	1.00	41.02	AL6
ATOM	33268	O1P URI	655	178.755	103.869	-80.530	1.00	51.16	AL6S	ATOM	33321	C2' GUA	657	186.196	112.043	-67.576	1.00	41.02	AL6
ATOM	33269	O2P URI	655	178.755	103.008	-78.112	1.00	51.16	AL6S	ATOM	33322	N2 GUA	657	185.994	110.301	-69.040	1.00	41.02	AL6
ATOM	33270	O5' URI	655	178.888	105.448	-78.602	1.00	59.86	AL6S	ATOM	33323	N1 GUA	657	185.966	109.667	-70.271	1.00	41.02	AL6
ATOM	33271	C5' URI	655	178.608	106.632	-79.338	1.00	59.86	AL6S	ATOM	33324	C6 GUA	657	185.782	108.447	-70.331	1.00	41.02	AL6
ATOM	33272	C4' URI	655	178.636	107.823	-78.426	1.00	59.86	AL6S	ATOM	33325	O6 GUA	657	186.181	110.579	-71.327	1.00	41.02	AL6
ATOM	33273	O4' URI	655	177.807	107.549	-77.273	1.00	59.86	AL6S	ATOM	33326	C5 GUA	657	186.225	110.369	-72.696	1.00	41.02	AL6
ATOM	33274	C1' URI	655	178.309	108.250	-76.151	1.00	59.86	AL6S	ATOM	33327	N7 GUA	657	186.488	111.546	-73.195	1.00	41.02	AL6
ATOM	33275	N1 URI	655	178.463	107.322	-75.023	1.00	51.16	AL6S	ATOM	33328	C8 GUA	657	188.456	114.179	-72.794	1.00	57.92	AL6
ATOM	33276	C6 URI	655	178.361	105.957	-75.184	1.00	51.16	AL6S	ATOM	33329	C2' GUA	657	188.641	115.464	-71.736	1.00	57.92	AL6
ATOM	33277	C2 URI	655	178.715	107.877	-73.785	1.00	51.16	AL6S	ATOM	33330	O2' GUA	657	188.936	114.104	-73.739	1.00	57.92	AL6
ATOM	33278	O2 URI	655	178.797	109.082	-73.605	1.00	51.16	AL6S	ATOM	33331	C3' GUA	657	190.151	114.806	-73.940	1.00	57.92	AL6
ATOM	33279	N3 URI	655	178.860	106.971	-72.766	1.00	51.16	AL6S	ATOM	33332	O3' GUA	657	191.548	114.072	-73.616	1.00	57.68	AL6
ATOM	33280	C4 URI	655	178.917	104.906	-71.841	1.00	51.16	AL6S	ATOM	33333	O1P GUA	658	192.635	114.913	-74.199	1.00	49.21	AL6
ATOM	33281	O4 URI	655	178.495	105.098	-74.171	1.00	51.16	AL6S	ATOM	33334	O2P GUA	658	191.443	112.622	-73.987	1.00	49.21	AL6
ATOM	33282	C5 URI	655	179.611	108.935	-76.557	1.00	59.86	AL6S	ATOM	33335	O5' ADE	658	191.660	114.119	-72.026	1.00	57.68	AL6
ATOM	33283	C2' URI	655	179.354	110.315	-76.736	1.00	59.86	AL6S	ATOM	33336	O5' ADE	658	191.743	115.117	-69.832	1.00	57.68	AL6
ATOM	33284	O2' URI	655	179.982	108.181	-77.833	1.00	59.86	AL6S	ATOM	33337	C5' ADE	658	190.475	114.583	-69.361	1.00	57.68	AL6
ATOM	33285	C3' URI	655	180.699	109.008	-78.728	1.00	59.86	AL6S	ATOM	33338	C4' ADE	658	190.707	113.723	-68.254	1.00	57.68	AL6
ATOM	33286	O3' URI	655	182.287	109.146	-78.572	1.00	77.50	AL6S	ATOM	33339	O4' ADE	658	189.858	111.414	-67.624	1.00	49.21	AL6
ATOM	33287	P GUA	656	182.783	109.721	-79.858	1.00	46.11	AL6S	ATOM	33340	C1' ADE	658	189.603	110.331	-65.718	1.00	49.21	AL6
ATOM	33288	O1P GUA	656	182.829	107.840	-78.066	1.00	46.11	AL6S	ATOM	33341	N9 ADE	658	189.985	111.476	-66.283	1.00	49.21	AL6
ATOM	33289	O2P GUA	656	182.475	110.269	-77.462	1.00	77.50	AL6S	ATOM	33342	C4 ADE	658	189.603	110.331	-65.718	1.00	49.21	AL6
ATOM	33290	O5' GUA	656	182.277	111.646	-77.799	1.00	77.50	AL6S	ATOM	33343	N3 ADE	658	189.150	109.209	-66.296	1.00	49.21	AL6
ATOM	33291	C5' GUA	656	182.743	112.525	-76.675	1.00	77.50	AL6S	ATOM	33344	C2 ADE	658	189.044	109.172	-67.642	1.00	49.21	AL6
ATOM	33292	C4' GUA	656	181.901	112.314	-75.522	1.00	77.50	AL6S	ATOM	33345	N1 ADE	658	188.614	108.046	-68.219	1.00	49.21	AL6
ATOM	33293	O4' GUA	656	182.668	112.449	-74.347	1.00	77.50	AL6S	ATOM	33346	C6 ADE	658	189.405	110.333	-68.359	1.00	49.21	AL6
ATOM	33294	C1' GUA	656	182.560	111.209	-73.591	1.00	46.11	AL6S	ATOM	33347	N6 ADE	658	189.396	110.632	-69.762	1.00	49.21	AL6
ATOM	33295	N9 GUA	656	182.635	111.084	-72.230	1.00	46.11	AL6S	ATOM	33348	C5 ADE	658	189.843	111.864	-69.718	1.00	49.21	AL6
ATOM	33296	C4 GUA	656	182.832	112.092	-71.351	1.00	46.11	AL6S	ATOM	33349	N7 ADE	658	192.218	113.673	-68.015	1.00	57.68	AL6
ATOM	33297	N3 GUA	656	182.835	111.662	-70.101	1.00	46.11	AL6S	ATOM	33350	C8 ADE	658	192.605	114.597	-67.020	1.00	57.68	AL6
ATOM	33298	C2 GUA	656	182.662	110.344	-69.746	1.00	46.11	AL6S	ATOM	33351	C2' ADE	658	192.759	114.088	-69.370	1.00	57.68	AL6
ATOM	33299	N2 GUA	656	182.464	109.292	-70.638	1.00	46.11	AL6S	ATOM	33352	O2' ADE	658	194.079	114.579	-69.263	1.00	57.68	AL6
ATOM	33300	N1 GUA	656	182.323	108.141	-70.215	1.00	46.11	AL6S	ATOM	33353	C3' ADE	659	195.307	113.559	-69.466	1.00	45.74	AL6
ATOM	33301	C6 GUA	656							ATOM	33354	O3' ADE							
ATOM	33302	O6 GUA	656							ATOM	33355	P ADE							

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ATOM	33356	O1E ADE	659	196.591	114.321	-69.407	1.00	46.04	Al6s	ATOM	33409	N3	URI	661	196.795	101.842	-69.299	1.00	35.96	Al6
ATOM	33357	O2E ADE	659	194.999	112.722	-70.659	1.00	46.04	Al6s	ATOM	33410	C4	URI	661	197.132	103.182	-69.301	1.00	35.96	Al6
ATOM	33358	O5' ADE	659	195.225	112.595	-68.199	1.00	45.74	Al6s	ATOM	33411	O4	URI	661	196.745	103.901	-70.221	1.00	35.96	Al6
ATOM	33359	C5' ADE	659	195.512	113.092	-66.882	1.00	45.74	Al6s	ATOM	33412	C5	URI	661	197.816	103.628	-68.126	1.00	35.96	Al6
ATOM	33360	C4' ADE	659	195.246	112.026	-65.849	1.00	45.74	Al6s	ATOM	33413	C2' URI	661	199.110	99.701	-66.272	1.00	55.46	Al6	
ATOM	33361	O4' ADE	659	193.857	111.627	-65.909	1.00	45.74	Al6s	ATOM	33414	O2' URI	661	198.963	98.443	-65.637	1.00	55.46	Al6	
ATOM	33362	C1' ADE	659	193.741	110.257	-65.594	1.00	45.74	Al6s	ATOM	33415	C3' URI	661	200.197	100.562	-65.652	1.00	55.46	Al6	
ATOM	33363	N9 ADE	659	193.176	109.575	-66.753	1.00	46.04	Al6s	ATOM	33416	O3' URI	661	201.357	99.812	-65.359	1.00	55.46	Al6	
ATOM	33364	C4 ADE	659	192.556	108.352	-66.738	1.00	46.04	Al6s	ATOM	33417	P	CYT	662	202.587	99.861	-66.386	1.00	58.28	Al6
ATOM	33365	N2 ADE	659	192.322	107.577	-66.670	1.00	46.04	Al6s	ATOM	33418	O1P	CYT	662	203.752	99.242	-66.716	1.00	32.03	Al6
ATOM	33366	C2 ADE	659	191.721	106.453	-66.034	1.00	46.04	Al6s	ATOM	33419	O2P	CYT	662	202.670	101.269	-66.866	1.00	32.03	Al6
ATOM	33367	N1 ADE	659	191.365	106.042	-67.251	1.00	46.04	Al6s	ATOM	33420	O5' CYT	662	202.117	98.926	-67.586	1.00	58.28	Al6	
ATOM	33368	C6 ADE	659	191.622	106.844	-68.305	1.00	46.04	Al6s	ATOM	33421	C5' CYT	662	201.774	97.552	-67.346	1.00	58.28	Al6	
ATOM	33369	N6 ADE	659	191.290	106.415	-69.527	1.00	46.04	Al6s	ATOM	33422	C4' CYT	662	201.064	96.974	-68.545	1.00	58.28	Al6	
ATOM	33370	C5 ADE	659	192.237	108.075	-68.049	1.00	46.04	Al6s	ATOM	33423	O4' CYT	662	199.841	97.717	-68.766	1.00	58.28	Al6	
ATOM	33371	N7 ADE	659	192.616	109.119	-68.879	1.00	46.04	Al6s	ATOM	33424	C1' CYT	662	199.571	97.791	-70.153	1.00	58.28	Al6	
ATOM	33372	C8 ADE	659	193.167	109.984	-68.063	1.00	46.04	Al6s	ATOM	33425	N1 CYT	662	199.545	99.202	-70.566	1.00	32.03	Al6	
ATOM	33373	C2' ADE	659	195.136	109.738	-65.265	1.00	45.74	Al6s	ATOM	33426	C6 CYT	662	200.244	100.161	-69.890	1.00	32.03	Al6	
ATOM	33374	O2' ADE	659	195.348	109.813	-63.873	1.00	45.74	Al6s	ATOM	33427	C2 CYT	662	198.786	99.544	-71.683	1.00	32.03	Al6	
ATOM	33375	C3' ADE	659	196.006	110.727	-66.020	1.00	45.74	Al6s	ATOM	33428	O2 CYT	662	198.178	99.640	-72.287	1.00	32.03	Al6	
ATOM	33376	O3' ADE	659	197.319	110.801	-65.496	1.00	45.74	Al6s	ATOM	33429	N3 CYT	662	198.732	100.836	-72.087	1.00	32.03	Al6	
ATOM	33377	P	660	198.428	109.776	-66.031	1.00	54.10	Al6s	ATOM	33430	C4 CYT	662	199.406	101.767	-71.420	1.00	32.03	Al6	
ATOM	33378	O1P	660	199.726	110.176	-66.457	1.00	46.16	Al6s	ATOM	33431	N4 CYT	662	199.313	103.034	-71.844	1.00	32.03	Al6	
ATOM	33379	O2P	660	198.285	109.656	-67.502	1.00	46.16	Al6s	ATOM	33432	C5 CYT	662	200.205	101.445	-70.281	1.00	32.03	Al6	
ATOM	33380	O5' URI	660	197.987	108.397	-65.372	1.00	54.10	Al6s	ATOM	33433	C2' CYT	662	200.659	97.017	-70.888	1.00	58.28	Al6	
ATOM	33381	C5' URI	660	197.960	108.261	-63.949	1.00	54.10	Al6s	ATOM	33434	O2' CYT	662	200.166	97.727	-71.185	1.00	58.28	Al6	
ATOM	33382	C4' URI	660	197.537	106.873	-63.555	1.00	54.10	Al6s	ATOM	33435	C3' CYT	662	201.797	97.068	-69.875	1.00	58.28	Al6	
ATOM	33383	O4' URI	660	196.151	106.669	-63.908	1.00	54.10	Al6s	ATOM	33436	O3' CYT	662	202.773	96.046	-70.053	1.00	58.28	Al6	
ATOM	33384	C1' URI	660	195.942	105.309	-64.242	1.00	54.10	Al6s	ATOM	33437	P	CYT	663	204.126	96.377	-70.861	1.00	71.22	Al6
ATOM	33385	N1 URI	660	195.429	105.220	-65.618	1.00	46.16	Al6s	ATOM	33438	O1P	CYT	663	205.013	95.211	-70.643	1.00	49.66	Al6
ATOM	33386	C6 URI	660	195.572	106.240	-66.521	1.00	46.16	Al6s	ATOM	33439	O2P	CYT	663	204.609	97.745	-70.520	1.00	49.66	Al6
ATOM	33387	C2 URI	660	194.785	104.056	-66.974	1.00	46.16	Al6s	ATOM	33440	O5' CYT	663	203.651	96.418	-72.381	1.00	71.22	Al6	
ATOM	33388	O2 URI	660	194.659	103.122	-65.223	1.00	46.16	Al6s	ATOM	33441	C5' CYT	663	203.066	95.263	-72.998	1.00	71.22	Al6	
ATOM	33389	N3 URI	660	194.308	104.022	-67.249	1.00	46.16	Al6s	ATOM	33442	C4' CYT	663	202.530	95.609	-74.363	1.00	71.22	Al6	
ATOM	33390	C4 URI	660	194.398	105.010	-68.197	1.00	46.16	Al6s	ATOM	33443	O4' CYT	663	201.420	96.528	-74.232	1.00	71.22	Al6	
ATOM	33391	O4 URI	660	193.895	104.827	-69.312	1.00	46.16	Al6s	ATOM	33444	C1' CYT	663	201.376	97.386	-75.361	1.00	71.22	Al6	
ATOM	33392	C5 URI	660	195.094	106.187	-67.764	1.00	46.16	Al6s	ATOM	33445	N1 CYT	663	201.515	98.782	-74.913	1.00	49.66	Al6	
ATOM	33393	C2' URI	660	197.266	104.579	-64.053	1.00	54.10	Al6s	ATOM	33446	C6 CYT	663	201.999	99.087	-73.671	1.00	49.66	Al6	
ATOM	33394	C3' URI	660	197.273	104.030	-62.746	1.00	54.10	Al6s	ATOM	33447	O2 CYT	663	201.145	99.808	-75.799	1.00	49.66	Al6	
ATOM	33395	O2' URI	660	198.263	105.718	-64.221	1.00	54.10	Al6s	ATOM	33448	C2 CYT	663	200.726	99.504	-76.929	1.00	49.66	Al6	
ATOM	33396	O3' URI	660	199.522	105.445	-63.620	1.00	54.10	Al6s	ATOM	33449	N3 CYT	663	201.264	101.098	-75.406	1.00	49.66	Al6	
ATOM	33397	P	661	200.725	104.885	-64.531	1.00	55.46	Al6s	ATOM	33450	C4 CYT	663	201.747	101.382	-74.198	1.00	49.66	Al6	
ATOM	33398	O1P	661	201.907	104.796	-63.649	1.00	35.96	Al6s	ATOM	33451	N4 CYT	663	201.874	102.665	-73.868	1.00	49.66	Al6	
ATOM	33399	O2P	661	200.795	105.720	-65.768	1.00	35.96	Al6s	ATOM	33452	C5 CYT	663	202.131	100.362	-73.277	1.00	49.66	Al6	
ATOM	33400	O5' URI	661	200.255	103.406	-64.903	1.00	55.46	Al6s	ATOM	33453	C2' CYT	663	202.524	96.998	-76.284	1.00	71.22	Al6	
ATOM	33401	C5' URI	661	200.078	102.424	-63.873	1.00	55.46	Al6s	ATOM	33454	O2' CYT	663	202.021	96.126	-77.291	1.00	71.22	Al6	
ATOM	33402	C4' URI	661	199.502	101.148	-64.436	1.00	55.46	Al6s	ATOM	33455	C3' CYT	663	203.476	96.326	-75.308	1.00	71.22	Al6	
ATOM	33403	O4' URI	661	198.142	101.359	-64.884	1.00	55.46	Al6s	ATOM	33456	O3' CYT	663	204.388	95.471	-75.966	1.00	71.22	Al6	
ATOM	33404	C1' URI	661	197.880	100.566	-66.028	1.00	55.46	Al6s	ATOM	33457	P	CYT	664	205.803	96.064	-76.439	1.00	68.63	Al6
ATOM	33405	N1 URI	661	197.653	101.458	-67.174	1.00	35.96	Al6s	ATOM	33458	O1P	CYT	664	206.598	94.905	-76.914	1.00	62.48	Al6
ATOM	33406	C6 URI	661	198.044	102.776	-67.131	1.00	35.96	Al6s	ATOM	33459	O2P	CYT	664	206.341	96.918	-75.356	1.00	62.48	Al6
ATOM	33407	C2 URI	661	197.024	100.934	-68.295	1.00	35.96	Al6s	ATOM	33460	O5' CYT	664	205.426	97.013	-77.666	1.00	68.63	Al6	
ATOM	33408	O2 URI	661	196.703	99.754	-68.396	1.00	35.96	Al6s	ATOM	33461	C5' CYT	664	204.872	96.465	-78.878	1.00	68.63	Al6	

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ATOM	33462	C4' CYT	664	204.671	97.550	-79.911	1.00	68.63	Al6s	ATOM	33515	O6	666	209.919	106.584	-75.383	1.00	63.08	Al6e
ATOM	33463	O4' CYT	664	203.573	98.418	-79.513	1.00	68.63	Al6s	ATOM	33516	C5	666	210.106	106.797	-77.772	1.00	63.08	Al6e
ATOM	33464	C1' CYT	664	203.843	99.757	-79.910	1.00	68.63	Al6s	ATOM	33517	N7	666	210.167	105.506	-78.288	1.00	63.08	Al6e
ATOM	33465	N1 CYT	664	203.966	100.605	-78.696	1.00	62.48	Al6s	ATOM	33518	C8	666	210.250	105.675	-79.579	1.00	63.08	Al6e
ATOM	33466	C6 CYT	664	204.326	100.061	-77.485	1.00	62.48	Al6s	ATOM	33519	C2'	666	211.681	108.228	-81.551	1.00	68.18	Al6e
ATOM	33467	C2 CYT	664	203.793	101.991	-78.810	1.00	62.48	Al6s	ATOM	33520	O2'	666	211.486	109.352	-82.388	1.00	68.18	Al6e
ATOM	33468	O2 CYT	664	203.459	102.459	-79.903	1.00	62.48	Al6s	ATOM	33521	C3'	666	212.464	107.105	-82.221	1.00	68.18	Al6e
ATOM	33469	N3 CYT	664	203.976	102.783	-77.725	1.00	62.48	Al6s	ATOM	33522	O3'	666	213.546	107.582	-82.992	1.00	68.18	Al6e
ATOM	33470	C4 CYT	664	204.327	102.244	-76.558	1.00	62.48	Al6s	ATOM	33523	P	667	215.041	107.166	-82.583	1.00	62.40	Al6e
ATOM	33471	N4 CYT	664	204.518	103.065	-75.518	1.00	62.48	Al6s	ATOM	33524	O1P	667	215.876	107.334	-83.806	1.00	56.40	Al6e
ATOM	33472	C5 CYT	664	204.506	100.835	-76.402	1.00	62.48	Al6s	ATOM	33525	O2P	667	214.997	105.854	-81.902	1.00	56.40	Al6e
ATOM	33473	C2' CYT	664	205.143	99.726	-80.713	1.00	68.63	Al6s	ATOM	33526	O5' ADE	667	215.480	108.258	-81.504	1.00	62.40	Al6e
ATOM	33474	O2' CYT	664	204.843	99.582	-82.085	1.00	68.63	Al6s	ATOM	33527	C5' ADE	667	215.668	109.636	-81.882	1.00	62.40	Al6e
ATOM	33475	C3' CYT	664	205.834	98.502	-80.126	1.00	68.63	Al6s	ATOM	33528	C4' ADE	667	215.449	110.546	-80.696	1.00	62.40	Al6e
ATOM	33476	O3' CYT	664	206.861	97.987	-80.956	1.00	68.63	Al6s	ATOM	33529	O4' ADE	667	214.124	110.299	-80.162	1.00	62.40	Al6e
ATOM	33477	P	665	208.376	98.509	-80.756	1.00	67.51	Al6s	ATOM	33530	C1' ADE	667	214.140	110.426	-78.754	1.00	62.40	Al6e
ATOM	33478	O1P	665	209.230	97.710	-81.677	1.00	57.82	Al6s	ATOM	33531	N9	667	213.866	109.115	-78.172	1.00	56.40	Al6e
ATOM	33479	O2P	665	208.710	98.553	-79.312	1.00	57.82	Al6s	ATOM	33532	C4	667	213.569	108.864	-76.855	1.00	56.40	Al6e
ATOM	33480	O5' ADE	665	208.332	100.006	-81.295	1.00	87.51	Al6s	ATOM	33533	N3	667	213.436	109.759	-75.863	1.00	56.40	Al6e
ATOM	33481	C5' ADE	665	207.988	100.251	-82.661	1.00	87.51	Al6s	ATOM	33534	C2	667	213.164	109.150	-74.716	1.00	56.40	Al6e
ATOM	33482	C4' ADE	665	208.011	101.722	-82.971	1.00	87.51	Al6s	ATOM	33535	N1	667	213.020	107.850	-74.464	1.00	56.40	Al6e
ATOM	33483	O4' ADE	665	206.855	102.380	-82.398	1.00	87.51	Al6s	ATOM	33536	C6	667	213.154	105.675	-75.226	1.00	56.40	Al6e
ATOM	33484	C1' ADE	665	207.178	103.732	-82.119	1.00	87.51	Al6s	ATOM	33537	N6	667	213.444	107.493	-76.752	1.00	56.40	Al6e
ATOM	33485	N9	665	207.059	103.977	-80.684	1.00	57.82	Al6s	ATOM	33538	C5	667	213.444	107.493	-76.752	1.00	56.40	Al6e
ATOM	33486	C4	665	206.954	105.211	-80.101	1.00	57.82	Al6s	ATOM	33539	N7	667	213.636	106.887	-77.987	1.00	56.40	Al6e
ATOM	33487	N3	665	206.892	106.386	-80.757	1.00	57.82	Al6s	ATOM	33540	C8	667	213.877	110.981	-78.793	1.00	56.40	Al6e
ATOM	33488	C2	665	206.836	107.409	-79.933	1.00	57.82	Al6s	ATOM	33541	O2' ADE	667	215.531	110.908	-78.359	1.00	62.40	Al6e
ATOM	33489	N2	665	206.784	108.649	-80.428	1.00	57.82	Al6s	ATOM	33542	O2' ADE	667	215.508	112.320	-78.312	1.00	62.40	Al6e
ATOM	33490	N1	665	206.834	107.291	-78.568	1.00	57.82	Al6s	ATOM	33543	C3' ADE	667	216.374	110.360	-79.504	1.00	62.40	Al6e
ATOM	33491	C6	665	206.900	106.090	-77.869	1.00	57.82	Al6s	ATOM	33544	P	667	217.603	111.063	-79.647	1.00	62.40	Al6e
ATOM	33492	O6	665	206.907	106.097	-76.633	1.00	57.82	Al6s	ATOM	33545	C3' ADE	668	218.952	110.444	-79.015	1.00	65.77	Al6e
ATOM	33493	C5	665	206.960	104.979	-78.747	1.00	57.82	Al6s	ATOM	33546	O1P	668	220.044	111.427	-79.256	1.00	58.65	Al6e
ATOM	33494	N7	665	207.037	103.620	-78.479	1.00	57.82	Al6s	ATOM	33547	O2P	668	219.107	109.030	-79.473	1.00	58.65	Al6e
ATOM	33495	C8	665	207.083	103.062	-79.657	1.00	57.82	Al6s	ATOM	33548	O5' ADE	668	218.686	111.629	-77.445	1.00	65.77	Al6e
ATOM	33496	C2' ADE	665	208.630	103.952	-82.543	1.00	87.51	Al6s	ATOM	33549	C5' ADE	668	218.642	111.612	-76.681	1.00	65.77	Al6e
ATOM	33497	O2' ADE	665	208.680	104.496	-83.849	1.00	87.51	Al6s	ATOM	33550	C4' ADE	668	218.280	111.331	-75.248	1.00	65.77	Al6e
ATOM	33498	C3' ADE	665	209.185	102.538	-82.464	1.00	87.51	Al6s	ATOM	33551	O4' ADE	668	216.998	110.662	-75.212	1.00	65.77	Al6e
ATOM	33499	O3' ADE	665	210.376	102.385	-83.219	1.00	87.51	Al6s	ATOM	33552	C1' ADE	668	216.970	109.757	-74.128	1.00	65.77	Al6e
ATOM	33500	P	666	211.801	102.596	-82.495	1.00	68.18	Al6s	ATOM	33553	N9	668	216.709	108.419	-74.640	1.00	58.65	Al6e
ATOM	33501	O1P	666	212.845	102.039	-83.427	1.00	63.08	Al6s	ATOM	33554	C4	668	216.243	107.358	-73.905	1.00	58.65	Al6e
ATOM	33502	O2P	666	211.719	102.026	-81.123	1.00	63.08	Al6s	ATOM	33555	N3	668	215.947	107.376	-72.586	1.00	58.65	Al6e
ATOM	33503	O5' ADE	666	211.945	104.181	-82.378	1.00	68.18	Al6s	ATOM	33556	C2	668	215.517	106.022	-72.162	1.00	58.65	Al6e
ATOM	33504	C5' ADE	666	211.676	105.019	-83.509	1.00	68.18	Al6s	ATOM	33557	N2	668	215.184	106.092	-70.876	1.00	58.65	Al6e
ATOM	33505	C4' ADE	666	211.404	106.439	-83.073	1.00	68.18	Al6s	ATOM	33558	N1	668	215.384	105.100	-72.967	1.00	58.65	Al6e
ATOM	33506	O4' ADE	666	210.206	106.504	-82.253	1.00	68.18	Al6s	ATOM	33559	C6	668	215.685	105.059	-74.321	1.00	58.65	Al6e
ATOM	33507	C1' ADE	666	210.333	107.554	-81.305	1.00	68.18	Al6s	ATOM	33560	O5	668	215.531	104.008	-74.948	1.00	58.65	Al6e
ATOM	33508	N9	666	210.249	107.000	-79.952	1.00	63.08	Al6s	ATOM	33561	C5	668	216.150	106.313	-74.742	1.00	58.65	Al6e
ATOM	33509	C4	666	210.158	107.730	-78.784	1.00	63.08	Al6s	ATOM	33562	N7	668	216.549	106.707	-76.061	1.00	58.65	Al6e
ATOM	33510	N3	666	210.124	109.078	-78.690	1.00	63.08	Al6s	ATOM	33563	C8	668	216.873	107.962	-75.923	1.00	58.65	Al6e
ATOM	33511	C2	666	210.028	109.488	-77.438	1.00	63.08	Al6s	ATOM	33564	O2' ADE	668	218.312	109.833	-73.408	1.00	65.77	Al6e
ATOM	33512	N2	666	209.991	110.800	-77.173	1.00	63.08	Al6s	ATOM	33565	C2' ADE	668	218.193	110.686	-72.287	1.00	65.77	Al6e
ATOM	33513	N1	666	209.964	108.644	-76.359	1.00	63.08	Al6s	ATOM	33566	C3' ADE	668	219.211	110.389	-74.500	1.00	65.77	Al6e
ATOM	33514	C6	666	209.994	107.254	-76.426	1.00	63.08	Al6s	ATOM	33567	O3' ADE	668	220.327	111.072	-73.959	1.00	65.77	Al6e

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ATOM	33568	P	URI	669	221.797	110.475	-74.176	1.00	70.19	Al6S	ATOM	33621	C2	GUI	671	216.116	102.596	-61.028	1.00	37.27	Al6
ATOM	33569	OP	URI	669	222.768	111.519	-73.742	1.00	72.58	Al6S	ATOM	33622	N2	GUI	671	215.022	102.222	-61.690	1.00	37.27	Al6
ATOM	33570	O2P	URI	669	221.872	109.917	-75.548	1.00	72.58	Al6S	ATOM	33623	N1	GUI	671	216.504	101.775	-60.008	1.00	37.27	Al6
ATOM	33571	O5	URI	669	221.864	109.246	-73.181	1.00	70.19	Al6S	ATOM	33624	C6	GUI	671	217.639	101.957	-59.228	1.00	37.27	Al6
ATOM	33572	C5	URI	669	222.814	109.220	-72.111	1.00	70.19	Al6S	ATOM	33625	O6	GUI	671	217.930	101.132	-58.352	1.00	37.27	Al6
ATOM	33573	C4	URI	669	222.107	109.425	-70.802	1.00	70.19	Al6S	ATOM	33626	C5	GUI	671	218.343	103.122	-59.598	1.00	37.27	Al6
ATOM	33574	O4	URI	669	220.749	108.994	-70.945	1.00	70.19	Al6S	ATOM	33627	N7	GUI	671	219.517	103.654	-59.087	1.00	37.27	Al6
ATOM	33575	C1	URI	669	220.354	108.308	-69.790	1.00	70.19	Al6S	ATOM	33628	C8	GUI	671	219.729	104.716	-59.812	1.00	37.27	Al6
ATOM	33576	N1	URI	669	219.792	107.020	-70.204	1.00	72.58	Al6S	ATOM	33629	C2	GUI	671	217.706	107.056	-61.367	1.00	50.62	Al6
ATOM	33577	URI	669	220.003	106.559	-71.471	1.00	72.58	Al6S	ATOM	33630	O2	GUI	671	217.293	107.702	-62.555	1.00	50.62	Al6	
ATOM	33578	C2	URI	669	218.986	106.329	-69.321	1.00	72.58	Al6S	ATOM	33631	C3	GUI	671	218.556	107.990	-60.524	1.00	50.62	Al6
ATOM	33579	O2	URI	669	218.876	106.616	-68.146	1.00	72.58	Al6S	ATOM	33632	O3	GUI	671	217.986	109.278	-60.392	1.00	50.62	Al6
ATOM	33580	N3	URI	669	218.324	105.269	-69.871	1.00	72.58	Al6S	ATOM	33633	P	CYT	672	217.088	109.597	-59.103	1.00	52.20	Al6
ATOM	33581	C4	URI	669	218.415	104.825	-71.170	1.00	72.58	Al6S	ATOM	33634	OLP	CYT	672	216.858	111.066	-59.088	1.00	28.96	Al6
ATOM	33582	O4	URI	669	217.515	104.132	-71.609	1.00	72.58	Al6S	ATOM	33635	O2P	CYT	672	217.706	108.933	-57.924	1.00	28.96	Al6
ATOM	33583	C5	URI	669	219.367	105.515	-71.967	1.00	72.58	Al6S	ATOM	33636	O5	CYT	672	215.720	108.845	-59.411	1.00	52.20	Al6
ATOM	33584	C2	URI	669	221.488	108.353	-68.768	1.00	70.19	Al6S	ATOM	33637	C5	CYT	672	214.995	109.120	-60.614	1.00	52.20	Al6
ATOM	33585	O2	URI	669	221.191	109.436	-67.914	1.00	70.19	Al6S	ATOM	33638	C4	CYT	672	213.952	108.059	-60.846	1.00	52.20	Al6
ATOM	33586	C3	URI	669	222.703	108.669	-69.627	1.00	70.19	Al6S	ATOM	33639	O4	CYT	672	214.603	106.768	-60.901	1.00	52.20	Al6
ATOM	33587	O3	URI	669	223.526	109.639	-68.990	1.00	70.19	Al6S	ATOM	33640	C1	CYT	672	213.735	105.773	-60.395	1.00	52.20	Al6
ATOM	33588	P	ADE	670	224.246	109.336	-67.582	1.00	49.78	Al6S	ATOM	33641	N1	CYT	672	214.374	105.116	-59.249	1.00	28.96	Al6
ATOM	33589	OLP	ADE	670	224.593	110.701	-67.061	1.00	55.65	Al6S	ATOM	33642	C6	CYT	672	215.514	105.614	-58.690	1.00	28.96	Al6
ATOM	33590	O2P	ADE	670	225.312	108.308	-67.760	1.00	55.65	Al6S	ATOM	33643	C2	CYT	672	213.793	103.943	-58.740	1.00	28.96	Al6
ATOM	33591	O5	ADE	670	223.141	108.708	-66.624	1.00	49.78	Al6S	ATOM	33644	O2	CYT	672	212.733	103.528	-59.240	1.00	28.96	Al6
ATOM	33592	C5	ADE	670	222.861	109.259	-65.315	1.00	49.78	Al6S	ATOM	33645	N3	CYT	672	214.390	103.299	-57.716	1.00	28.96	Al6
ATOM	33593	C4	ADE	670	222.372	108.165	-64.407	1.00	49.78	Al6S	ATOM	33646	C4	CYT	672	215.511	103.784	-57.191	1.00	28.96	Al6
ATOM	33594	O4	ADE	670	221.407	107.392	-65.141	1.00	49.78	Al6S	ATOM	33647	N4	CYT	672	216.065	103.110	-56.190	1.00	28.96	Al6
ATOM	33595	C1	ADE	670	221.424	106.071	-64.677	1.00	49.78	Al6S	ATOM	33648	C5	CYT	672	216.112	104.985	-57.672	1.00	28.96	Al6
ATOM	33596	N9	ADE	670	220.941	105.215	-65.759	1.00	55.65	Al6S	ATOM	33649	C2	CYT	672	212.432	106.452	-59.999	1.00	52.20	Al6
ATOM	33597	C4	ADE	670	219.951	104.267	-65.657	1.00	55.65	Al6S	ATOM	33650	O2	CYT	672	211.511	106.333	-61.069	1.00	52.20	Al6
ATOM	33598	N3	ADE	670	219.250	103.930	-64.560	1.00	55.65	Al6S	ATOM	33651	C3	CYT	672	212.904	107.877	-59.761	1.00	52.20	Al6
ATOM	33599	C2	ADE	670	218.375	102.968	-64.839	1.00	55.65	Al6S	ATOM	33652	O3	CYT	672	211.843	108.811	-59.836	1.00	47.53	Al6
ATOM	33600	N1	ADE	670	218.142	102.347	-66.000	1.00	55.65	Al6S	ATOM	33653	P	GUI	673	211.273	109.452	-58.482	1.00	47.53	Al6
ATOM	33601	C6	ADE	670	218.870	102.704	-67.079	1.00	55.65	Al6S	ATOM	33654	OLP	GUI	673	210.248	110.440	-58.893	1.00	39.38	Al6
ATOM	33602	N6	ADE	670	218.656	102.068	-68.229	1.00	55.65	Al6S	ATOM	33655	O2P	GUI	673	212.415	109.880	-57.632	1.00	39.38	Al6
ATOM	33603	C5	ADE	670	219.821	103.721	-66.919	1.00	55.65	Al6S	ATOM	33656	O5	GUI	673	210.567	108.244	-57.727	1.00	47.53	Al6
ATOM	33604	N7	ADE	670	220.705	104.316	-67.802	1.00	55.65	Al6S	ATOM	33657	C5	GUI	673	209.533	107.477	-58.352	1.00	47.53	Al6
ATOM	33605	C8	ADE	670	221.346	105.190	-67.066	1.00	55.65	Al6S	ATOM	33658	C4	GUI	673	209.228	106.252	-57.520	1.00	47.53	Al6
ATOM	33606	C2	ADE	670	222.826	105.772	-64.140	1.00	49.78	Al6S	ATOM	33659	O4	GUI	673	210.395	105.395	-57.472	1.00	47.53	Al6
ATOM	33607	O2	ADE	670	222.778	104.998	-62.958	1.00	49.78	Al6S	ATOM	33660	C1	GUI	673	210.555	104.865	-56.166	1.00	47.53	Al6
ATOM	33608	C3	ADE	670	222.445	107.171	-64.002	1.00	49.78	Al6S	ATOM	33661	N9	GUI	673	211.851	105.324	-55.672	1.00	39.38	Al6
ATOM	33609	O3	ADE	670	224.166	107.576	-62.810	1.00	49.78	Al6S	ATOM	33662	C4	GUI	673	212.669	104.694	-54.775	1.00	39.38	Al6
ATOM	33610	P	GUI	671	223.466	107.585	-61.339	1.00	50.62	Al6S	ATOM	33663	N3	GUI	673	212.406	103.537	-54.138	1.00	39.38	Al6
ATOM	33611	OLP	GUI	671	224.049	108.384	-60.521	1.00	37.27	Al6S	ATOM	33664	C2	GUI	673	213.411	103.174	-53.343	1.00	39.38	Al6
ATOM	33612	O2P	GUI	671	223.046	106.232	-60.864	1.00	37.27	Al6S	ATOM	33665	N2	GUI	673	213.336	102.030	-52.626	1.00	39.38	Al6
ATOM	33613	O5	GUI	671	222.179	108.501	-61.489	1.00	50.62	Al6S	ATOM	33666	N1	GUI	673	213.675	106.598	-55.494	1.00	39.38	Al6
ATOM	33614	C5	GUI	671	221.095	108.403	-60.561	1.00	50.62	Al6S	ATOM	33667	C6	GUI	673	214.844	103.901	-53.858	1.00	39.38	Al6
ATOM	33615	O4	GUI	671	219.851	108.006	-61.300	1.00	50.62	Al6S	ATOM	33668	O6	GUI	673	215.919	105.652	-53.677	1.00	39.38	Al6
ATOM	33616	C4	GUI	671	219.988	106.634	-61.746	1.00	50.62	Al6S	ATOM	33669	C5	GUI	673	213.792	105.482	-54.690	1.00	39.38	Al6
ATOM	33617	C1	GUI	671	218.726	105.996	-61.750	1.00	50.62	Al6S	ATOM	33670	N7	GUI	673	213.675	106.598	-55.494	1.00	39.38	Al6
ATOM	33618	N9	GUI	671	218.769	104.915	-60.774	1.00	37.27	Al6S	ATOM	33671	C8	GUI	673	212.508	106.469	-56.052	1.00	39.38	Al6
ATOM	33619	C4	GUI	671	217.865	103.892	-60.633	1.00	37.27	Al6S	ATOM	33672	C2	GUI	673	209.342	105.294	-55.334	1.00	47.53	Al6
ATOM	33620	N3	GUI	671	216.763	103.695	-61.383	1.00	37.27	Al6S	ATOM	33673	O2	GUI	673	208.372	104.265	-55.375	1.00	47.53	Al6

ATOM	33674	C3' GUA	673	208.892	106.557	-56.070	1.00	47.53	Al6s	ATOM	33727	N9	GUA	676	210.959	108.675	-39.757	1.00	42.71	Al6
ATOM	33675	2' GUA	673	207.493	106.819	-55.959	1.00	47.53	Al6s	ATOM	33728	C4	GUA	676	211.876	107.779	-39.266	1.00	42.71	Al6
ATOM	33676	P	674	206.973	107.998	-54.998	1.00	50.90	Al6s	ATOM	33729	N3	GUA	676	213.101	108.076	-38.797	1.00	42.71	Al6
ATOM	33677	01P GUA	674	205.511	107.978	-55.205	1.00	38.94	Al6s	ATOM	33730	C2	GUA	676	213.749	106.993	-38.400	1.00	42.71	Al6
ATOM	33678	02P GUA	674	207.730	109.250	-55.237	1.00	38.94	Al6s	ATOM	33731	N2	GUA	676	214.995	107.088	-37.913	1.00	42.71	Al6
ATOM	33679	05' GUA	674	207.316	107.435	-53.551	1.00	50.90	Al6s	ATOM	33732	N1	GUA	676	213.230	105.732	-38.453	1.00	42.71	Al6
ATOM	33680	C5' GUA	674	206.689	106.240	-53.096	1.00	50.90	Al6s	ATOM	33733	C6	GUA	676	211.972	105.408	-38.938	1.00	42.71	Al6
ATOM	33681	C4' GUA	674	207.447	105.650	-51.952	1.00	50.90	Al6s	ATOM	33734	O6	GUA	676	211.603	104.227	-38.956	1.00	42.71	Al6
ATOM	33682	04' GUA	674	208.727	105.152	-52.405	1.00	50.90	Al6s	ATOM	33735	C5	GUA	676	211.272	106.549	-39.368	1.00	42.71	Al6
ATOM	33683	04' GUA	674	209.670	105.253	-51.349	1.00	50.90	Al6s	ATOM	33736	N7	GUA	676	210.005	106.665	-39.914	1.00	42.71	Al6
ATOM	33684	N9	674	210.776	106.093	-51.766	1.00	38.94	Al6s	ATOM	33737	C8	GUA	676	209.863	107.941	-40.134	1.00	42.71	Al6
ATOM	33685	C4	674	212.085	105.978	-51.395	1.00	38.94	Al6s	ATOM	33738	C2'	GUA	676	212.005	110.589	-40.993	1.00	54.74	Al6
ATOM	33686	N3	674	212.590	105.024	-50.586	1.00	38.94	Al6s	ATOM	33739	02'	GUA	676	212.806	111.661	-40.559	1.00	54.74	Al6
ATOM	33687	C2	674	213.881	105.193	-50.377	1.00	38.94	Al6s	ATOM	33740	C3'	GUA	676	210.981	111.035	-42.026	1.00	54.74	Al6
ATOM	33688	N2	674	214.563	104.320	-49.621	1.00	38.94	Al6s	ATOM	33741	03'	GUA	676	211.489	112.061	-42.846	1.00	54.74	Al6
ATOM	33689	N1	674	214.604	106.224	-50.902	1.00	38.94	Al6s	ATOM	33742	P	ADE	677	212.458	111.680	-44.060	1.00	49.76	Al6
ATOM	33690	C6	674	214.098	107.210	-51.741	1.00	38.94	Al6s	ATOM	33743	01P	ADE	677	212.594	112.887	-44.934	1.00	34.44	Al6
ATOM	33691	06	674	214.842	108.093	-52.175	1.00	38.94	Al6s	ATOM	33744	02P	ADE	677	212.004	110.394	-44.660	1.00	34.44	Al6
ATOM	33692	C5	674	212.733	107.032	-51.987	1.00	38.94	Al6s	ATOM	33745	05'	ADE	677	213.832	111.401	-43.321	1.00	49.76	Al6
ATOM	33693	N7	674	211.862	107.772	-52.773	1.00	38.94	Al6s	ATOM	33746	C5'	ADE	677	215.600	109.821	-43.083	1.00	49.76	Al6
ATOM	33694	C8	674	210.714	107.175	-52.628	1.00	38.94	Al6s	ATOM	33747	C4'	ADE	677	214.780	109.230	-42.050	1.00	49.76	Al6
ATOM	33695	C2'	674	208.966	105.888	-50.149	1.00	50.90	Al6s	ATOM	33748	04'	ADE	677	215.195	107.008	-41.820	1.00	49.76	Al6
ATOM	33696	02' GUA	674	208.577	104.869	-49.250	1.00	50.90	Al6s	ATOM	33749	N1	ADE	677	213.990	105.660	-41.815	1.00	34.44	Al6
ATOM	33697	C3' GUA	674	207.794	106.597	-49.822	1.00	50.90	Al6s	ATOM	33750	C4	ADE	677	214.954	104.880	-41.308	1.00	34.44	Al6
ATOM	33698	03' GUA	674	206.689	106.789	-49.956	1.00	50.90	Al6s	ATOM	33751	N9	ADE	677	214.521	103.626	-41.179	1.00	34.44	Al6
ATOM	33699	P	675	206.501	108.195	-49.210	1.00	54.00	Al6s	ATOM	33752	N3	ADE	677	213.327	103.106	-41.475	1.00	34.44	Al6
ATOM	33700	01P	675	205.007	108.226	-48.742	1.00	55.14	Al6s	ATOM	33753	C2	ADE	677	212.382	103.919	-41.987	1.00	34.44	Al6
ATOM	33701	02P	675	207.009	109.292	-50.077	1.00	55.14	Al6s	ATOM	33754	N1	ADE	677	211.185	103.405	-42.272	1.00	34.44	Al6
ATOM	33702	05' URI	675	207.429	108.033	-47.937	1.00	54.00	Al6s	ATOM	33755	C6	ADE	677	212.715	105.266	-42.179	1.00	34.44	Al6
ATOM	33703	C5' URI	675	207.131	107.016	-46.984	1.00	54.00	Al6s	ATOM	33756	N6	ADE	677	211.993	106.339	-42.676	1.00	34.44	Al6
ATOM	33704	C4' URI	675	208.153	107.012	-45.886	1.00	54.00	Al6s	ATOM	33757	C5	ADE	677	212.831	107.346	-42.593	1.00	34.44	Al6
ATOM	33705	04' URI	675	209.418	106.523	-46.395	1.00	54.00	Al6s	ATOM	33758	N7	ADE	677	216.362	107.604	-42.764	1.00	49.76	Al6
ATOM	33706	C1' URI	675	210.480	107.166	-45.717	1.00	54.00	Al6s	ATOM	33759	C8	ADE	677	217.260	108.655	-46.174	1.00	50.44	Al6
ATOM	33707	N1	675	211.335	107.830	-46.718	1.00	55.14	Al6s	ATOM	33760	C2'	ADE	677	217.586	107.770	-42.087	1.00	49.76	Al6
ATOM	33708	C6	675	212.698	107.946	-46.447	1.00	55.14	Al6s	ATOM	33761	02'	ADE	677	216.127	108.642	-43.847	1.00	49.76	Al6
ATOM	33709	C2	675	213.222	107.551	-45.425	1.00	55.14	Al6s	ATOM	33762	C3'	ADE	677	217.230	109.036	-44.617	1.00	49.76	Al6
ATOM	33711	N3	675	213.429	108.556	-47.424	1.00	55.14	Al6s	ATOM	33763	03'	ADE	678	217.260	108.655	-46.174	1.00	50.44	Al6
ATOM	33712	C4	675	212.972	109.067	-48.609	1.00	55.14	Al6s	ATOM	33764	P	ADE	678	218.261	109.552	-46.820	1.00	40.51	Al6
ATOM	33713	C5	675	213.769	109.633	-49.357	1.00	55.14	Al6s	ATOM	33765	01P	ADE	678	215.878	108.632	-46.703	1.00	50.44	Al6
ATOM	33714	C4	675	211.561	108.921	-48.824	1.00	55.14	Al6s	ATOM	33766	02P	ADE	678	217.096	106.072	-46.681	1.00	50.44	Al6
ATOM	33715	C5	675	209.859	108.097	-44.666	1.00	54.00	Al6s	ATOM	33767	05'	ADE	678	216.112	104.940	-44.811	1.00	50.44	Al6
ATOM	33716	02' URI	675	209.753	107.385	-43.445	1.00	54.00	Al6s	ATOM	33768	C5'	ADE	678	215.481	103.812	-45.170	1.00	40.51	Al6
ATOM	33717	C3' URI	675	208.476	108.353	-45.252	1.00	54.00	Al6s	ATOM	33769	C4'	ADE	678	213.117	102.869	-45.130	1.00	40.51	Al6
ATOM	33718	03' URI	675	207.518	108.690	-44.252	1.00	54.00	Al6s	ATOM	33770	04'	ADE	678	213.183	101.622	-44.625	1.00	40.51	Al6
ATOM	33719	P	676	207.351	110.220	-43.792	1.00	54.74	Al6s	ATOM	33771	C1'	ADE	678	212.019	101.001	-44.773	1.00	40.51	Al6
ATOM	33720	01P	676	205.929	110.451	-43.445	1.00	42.71	Al6s	ATOM	33772	N9	ADE	678	210.882	101.450	-45.324	1.00	40.51	Al6
ATOM	33721	02P	676	207.999	111.095	-44.793	1.00	42.71	Al6s	ATOM	33773	C4	ADE	678	210.855	102.709	-45.815	1.00	40.51	Al6
ATOM	33722	05' GUA	676	208.218	110.298	-42.459	1.00	54.74	Al6s	ATOM	33774	N3	ADE	678	209.728	103.122	-46.350	1.00	40.51	Al6
ATOM	33723	C5' GUA	676	208.485	111.562	-41.839	1.00	54.74	Al6s	ATOM	33775	C2	ADE	678	212.019	103.464	-45.727	1.00	40.51	Al6
ATOM	33724	C4' GUA	676	209.841	111.553	-41.181	1.00	54.74	Al6s	ATOM	33776	N1	ADE	678						
ATOM	33725	04' GUA	676	209.832	110.689	-40.026	1.00	54.74	Al6s	ATOM	33777	C6	ADE	678						
ATOM	33726	C1' GUA	676	211.114	110.121	-39.845	1.00	54.74	Al6s	ATOM	33778	N6	ADE	678						
ATOM	33727									ATOM	33779	C5	ADE	678						

ATOM	33780	N7	ADE	678	212.321	104.753	-46.141	1.00	40.51	Al6S	ATOM	33833	C4'	GUA	681	211.016	94.486	-54.992	1.00	49.46	Al6
ATOM	33781	C8'	ADE	678	213.570	104.909	-45.785	1.00	40.51	Al6S	ATOM	33834	O4'	GUA	681	211.175	95.734	-54.268	1.00	49.46	Al6
ATOM	33782	C2'	ADE	678	216.257	102.669	-45.518	1.00	50.44	Al6S	ATOM	33835	C1'	GUA	681	211.167	96.827	-55.175	1.00	49.46	Al6
ATOM	33783	O2'	ADE	678	216.169	101.958	-44.719	1.00	50.44	Al6S	ATOM	33836	N9	GUA	681	212.447	97.523	-55.066	1.00	38.47	Al6
ATOM	33784	C3'	ADE	678	216.901	103.579	-46.552	1.00	50.44	Al6S	ATOM	33837	C4	GUA	681	212.778	98.738	-55.621	1.00	38.47	Al6
ATOM	33785	O3'	ADE	678	218.120	103.067	-47.070	1.00	50.44	Al6S	ATOM	33838	N3	GUA	681	211.980	99.545	-56.730	1.00	38.47	Al6
ATOM	33786	P	ADE	679	218.212	102.652	-48.615	1.00	42.61	Al6S	ATOM	33839	C2	GUA	681	212.569	100.642	-56.738	1.00	38.47	Al6
ATOM	33787	O1P	ADE	679	218.664	102.687	-48.936	1.00	37.72	Al6S	ATOM	33840	N2	GUA	681	211.909	101.552	-57.465	1.00	38.47	Al6
ATOM	33788	O2P	ADE	679	217.264	103.493	-49.408	1.00	37.72	Al6S	ATOM	33841	N1	GUA	681	213.844	100.980	-56.368	1.00	38.47	Al6
ATOM	33789	O3P	ADE	679	217.669	101.155	-48.608	1.00	42.61	Al6S	ATOM	33842	C6	GUA	681	214.683	100.199	-55.387	1.00	38.47	Al6
ATOM	33790	O4P	ADE	679	218.259	100.178	-47.747	1.00	42.61	Al6S	ATOM	33843	O6	GUA	681	215.816	100.598	-55.313	1.00	38.47	Al6
ATOM	33791	C4'	ADE	679	217.257	99.120	-47.385	1.00	42.61	Al6S	ATOM	33844	C5	GUA	681	214.064	98.993	-55.201	1.00	38.47	Al6
ATOM	33792	O4'	ADE	679	216.150	99.745	-46.698	1.00	42.61	Al6S	ATOM	33845	N7	GUA	681	214.545	97.953	-54.421	1.00	38.47	Al6
ATOM	33793	C1'	ADE	679	214.935	99.105	-47.054	1.00	42.61	Al6S	ATOM	33846	C8	GUA	681	213.557	97.102	-54.372	1.00	38.47	Al6
ATOM	33794	N9	ADE	679	214.111	100.087	-47.763	1.00	37.72	Al6S	ATOM	33847	C2'	GUA	681	210.930	96.261	-56.570	1.00	49.46	Al6
ATOM	33795	C4	ADE	679	212.766	100.023	-48.012	1.00	37.72	Al6S	ATOM	33848	O2'	GUA	681	209.552	96.356	-56.872	1.00	49.46	Al6
ATOM	33796	N3	ADE	679	211.918	99.040	-47.669	1.00	37.72	Al6S	ATOM	33849	C3'	GUA	681	211.431	94.830	-56.405	1.00	49.46	Al6
ATOM	33797	C2	ADE	679	210.685	99.327	-48.075	1.00	37.72	Al6S	ATOM	33850	O3'	GUA	681	210.889	93.916	-57.344	1.00	49.46	Al6
ATOM	33798	N1	ADE	679	210.239	100.406	-48.736	1.00	37.72	Al6S	ATOM	33851	P	CYT	682	211.824	93.355	-58.526	1.00	40.27	Al6
ATOM	33799	C6	ADE	679	211.123	101.375	-49.060	1.00	37.72	Al6S	ATOM	33852	O1P	CYT	682	211.088	92.188	-59.113	1.00	37.82	Al6
ATOM	33800	N6	ADE	679	210.689	102.452	-49.714	1.00	37.72	Al6S	ATOM	33853	O2P	CYT	682	213.190	93.152	-57.963	1.00	37.82	Al6
ATOM	33801	C5	ADE	679	212.454	101.190	-48.688	1.00	37.72	Al6S	ATOM	33854	O5'	CYT	682	211.869	94.569	-59.561	1.00	40.27	Al6
ATOM	33802	N7	ADE	679	213.579	101.973	-48.870	1.00	37.72	Al6S	ATOM	33855	C5'	CYT	682	210.673	94.977	-60.215	1.00	40.27	Al6
ATOM	33803	C8	ADE	679	214.533	101.280	-48.309	1.00	37.72	Al6S	ATOM	33856	C4'	CYT	682	210.828	96.341	-60.827	1.00	40.27	Al6
ATOM	33804	C2'	ADE	679	215.302	97.902	-47.917	1.00	42.61	Al6S	ATOM	33857	O4'	CYT	682	211.067	97.331	-59.802	1.00	40.27	Al6
ATOM	33805	O2'	ADE	679	215.492	96.783	-47.070	1.00	42.61	Al6S	ATOM	33858	C1'	CYT	682	211.847	98.395	-60.327	1.00	40.27	Al6
ATOM	33806	C3'	ADE	679	216.614	98.368	-48.535	1.00	42.61	Al6S	ATOM	33859	N1	CYT	682	213.534	97.359	-58.857	1.00	37.82	Al6
ATOM	33807	O3'	ADE	679	217.420	97.283	-48.977	1.00	42.61	Al6S	ATOM	33860	C6	CYT	682	213.953	99.567	-59.717	1.00	37.82	Al6
ATOM	33808	P	URI	680	217.378	96.838	-50.526	1.00	54.96	Al6S	ATOM	33861	C2	CYT	682	213.549	100.565	-60.364	1.00	37.82	Al6
ATOM	33809	O1P	URI	680	218.487	95.864	-50.689	1.00	36.04	Al6S	ATOM	33862	O2	CYT	682	215.166	99.565	-59.116	1.00	37.82	Al6
ATOM	33810	O2P	URI	680	217.985	98.053	-51.385	1.00	36.04	Al6S	ATOM	33863	N3	CYT	682	215.563	98.494	-58.423	1.00	37.82	Al6
ATOM	33811	O5'	URI	680	215.965	96.071	-50.686	1.00	54.96	Al6S	ATOM	33864	C4	CYT	682	216.780	98.507	-57.890	1.00	37.82	Al6
ATOM	33812	C5'	URI	680	215.703	94.895	-49.916	1.00	54.96	Al6S	ATOM	33865	N4	CYT	682	214.730	97.350	-58.256	1.00	37.82	Al6
ATOM	33813	C4'	URI	680	214.233	94.549	-49.980	1.00	54.96	Al6S	ATOM	33866	C5	CYT	682	212.088	98.076	-61.796	1.00	40.27	Al6
ATOM	33814	O4'	URI	680	213.445	95.627	-49.414	1.00	54.96	Al6S	ATOM	33867	C2'	CYT	682	211.911	98.723	-62.595	1.00	40.27	Al6
ATOM	33815	C1'	URI	680	212.166	95.661	-50.024	1.00	54.96	Al6S	ATOM	33868	O2'	CYT	682	211.977	96.559	-61.777	1.00	40.27	Al6
ATOM	33816	N1	URI	680	211.931	96.981	-50.633	1.00	36.04	Al6S	ATOM	33869	C3'	CYT	682	211.782	95.969	-63.044	1.00	40.27	Al6
ATOM	33817	C6	URI	680	212.952	97.811	-51.011	1.00	36.04	Al6S	ATOM	33870	O3'	CYT	682	211.012	94.407	-64.841	1.00	38.12	Al6
ATOM	33818	C2	URI	680	210.616	97.354	-50.827	1.00	36.04	Al6S	ATOM	33871	P	GUA	683	213.012	95.194	-63.732	1.00	53.51	Al6
ATOM	33819	O2	URI	680	209.677	96.648	-50.506	1.00	36.04	Al6S	ATOM	33872	O1P	GUA	683	213.806	94.486	-62.690	1.00	38.12	Al6
ATOM	33820	N3	URI	680	210.432	98.575	-51.418	1.00	36.04	Al6S	ATOM	33873	O2P	GUA	683	213.900	96.394	-64.280	1.00	53.51	Al6
ATOM	33821	C4	URI	680	211.403	99.442	-51.839	1.00	36.04	Al6S	ATOM	33874	O5'	GUA	683	213.300	97.450	-65.027	1.00	53.51	Al6
ATOM	33822	O4	URI	680	211.075	100.476	-52.437	1.00	36.04	Al6S	ATOM	33875	C5'	GUA	683	214.301	98.537	-65.284	1.00	53.51	Al6
ATOM	33823	C5	URI	680	212.742	98.996	-51.595	1.00	36.04	Al6S	ATOM	33876	C4'	GUA	683	214.500	99.333	-64.090	1.00	53.51	Al6
ATOM	33824	C2'	URI	680	212.127	94.555	-51.068	1.00	54.96	Al6S	ATOM	33877	O4'	GUA	683	215.846	99.796	-64.040	1.00	53.51	Al6
ATOM	33825	O2'	URI	680	211.471	93.437	-50.502	1.00	54.96	Al6S	ATOM	33878	C1'	GUA	683	217.508	99.214	-62.873	1.00	38.12	Al6
ATOM	33826	C3'	URI	680	213.615	94.344	-51.350	1.00	54.96	Al6S	ATOM	33879	N9	GUA	683	216.652	99.697	-62.264	1.00	38.12	Al6
ATOM	33827	O3'	URI	680	213.883	93.061	-51.901	1.00	49.46	Al6S	ATOM	33880	C4	GUA	683	218.344	100.802	-62.631	1.00	38.12	Al6
ATOM	33828	P	GUA	681	214.284	92.934	-53.461	1.00	49.46	Al6S	ATOM	33881	N3	GUA	683	219.405	101.009	-61.860	1.00	38.12	Al6
ATOM	33829	O1P	GUA	681	214.071	91.508	-53.816	1.00	38.47	Al6S	ATOM	33882	C2	GUA	683	220.209	102.068	-62.093	1.00	38.12	Al6
ATOM	33830	O2P	GUA	681	215.617	93.559	-53.667	1.00	38.47	Al6S	ATOM	33883	N2	GUA	683	219.753	100.201	-60.809	1.00	38.12	Al6
ATOM	33831	O5'	GUA	681	213.214	93.805	-54.264	1.00	49.46	Al6S	ATOM	33884	N1	GUA	683	219.057	99.066	-60.406	1.00	38.12	Al6
ATOM	33832	C5'	GUA	681	211.836	93.406	-54.336	1.00	49.46	Al6S	ATOM	33885	C6	GUA	683						Al6

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ATOM	33886	06	GUA	683	219.453	98.422	-59.426	1.00	38.12	Al6s	ATOM	33939	05	GUA	686	215.740	97.346	-71.036	1.00	67.31	Al6
ATOM	33887	05	GUA	683	217.919	98.819	-61.237	1.00	38.12	Al6s	ATOM	33940	05	GUA	686	214.957	98.460	-70.556	1.00	67.31	Al6
ATOM	33888	07	GUA	683	216.968	97.800	-61.197	1.00	38.12	Al6s	ATOM	33941	04	GUA	686	215.835	99.660	-70.388	1.00	67.31	Al6
ATOM	33889	08	GUA	683	216.150	98.079	-62.179	1.00	38.12	Al6s	ATOM	33942	04	GUA	686	217.174	99.253	-70.670	1.00	67.31	Al6
ATOM	33890	02	GUA	683	216.531	99.310	-65.313	1.00	53.51	Al6s	ATOM	33943	01	GUA	686	217.923	100.390	-70.958	1.00	67.31	Al6
ATOM	33891	02	GUA	683	216.425	100.297	-66.322	1.00	53.51	Al6s	ATOM	33944	09	GUA	686	219.084	100.017	-71.753	1.00	63.38	Al6
ATOM	33892	03	GUA	683	215.703	98.076	-65.626	1.00	53.51	Al6s	ATOM	33945	04	GUA	686	220.294	100.663	-71.758	1.00	63.38	Al6
ATOM	33893	03	GUA	683	215.855	97.609	-66.940	1.00	53.51	Al6s	ATOM	33946	03	GUA	686	220.586	101.806	-71.098	1.00	63.38	Al6
ATOM	33894	03	GUA	684	216.818	96.358	-67.203	1.00	56.74	Al6s	ATOM	33947	02	GUA	686	221.853	102.163	-71.254	1.00	63.38	Al6
ATOM	33895	01	CYT	684	216.248	95.612	-68.371	1.00	61.58	Al6s	ATOM	33948	02	GUA	686	222.317	103.283	-70.669	1.00	63.38	Al6
ATOM	33896	01	CYT	684	217.042	95.619	-65.927	1.00	61.58	Al6s	ATOM	33949	01	GUA	686	222.764	101.447	-71.997	1.00	63.38	Al6
ATOM	33897	05	CYT	684	218.187	97.060	-67.620	1.00	56.74	Al6s	ATOM	33950	06	GUA	686	222.489	100.264	-72.683	1.00	63.38	Al6
ATOM	33898	05	CYT	684	218.372	97.591	-68.948	1.00	56.74	Al6s	ATOM	33951	06	GUA	686	223.396	99.686	-73.309	1.00	63.38	Al6
ATOM	33899	04	CYT	684	219.843	97.650	-69.302	1.00	56.74	Al6s	ATOM	33952	05	GUA	686	221.123	99.880	-72.533	1.00	63.38	Al6
ATOM	33900	04	CYT	684	220.411	98.792	-69.012	1.00	56.74	Al6s	ATOM	33953	07	GUA	686	220.430	98.791	-73.046	1.00	63.38	Al6
ATOM	33901	01	CYT	684	221.808	98.792	-69.012	1.00	56.74	Al6s	ATOM	33954	08	GUA	686	219.221	98.924	-72.573	1.00	63.38	Al6
ATOM	33902	01	CYT	684	222.431	99.899	-68.261	1.00	61.58	Al6s	ATOM	33955	02	GUA	686	216.977	101.495	-71.418	1.00	67.31	Al6
ATOM	33903	06	CYT	684	221.949	100.301	-67.049	1.00	61.58	Al6s	ATOM	33956	02	GUA	686	217.109	102.471	-70.416	1.00	67.31	Al6
ATOM	33904	02	CYT	684	223.547	100.541	-68.824	1.00	61.58	Al6s	ATOM	33957	03	GUA	686	215.596	100.837	-71.323	1.00	67.31	Al6
ATOM	33905	02	CYT	684	223.969	100.165	-69.929	1.00	61.58	Al6s	ATOM	33958	03	GUA	686	214.783	101.748	-70.587	1.00	67.31	Al6
ATOM	33906	03	CYT	684	224.141	101.553	-68.153	1.00	61.58	Al6s	ATOM	33959	03	GUA	687	213.429	102.343	-71.203	1.00	58.46	Al6
ATOM	33907	04	CYT	684	223.667	101.933	-66.970	1.00	61.58	Al6s	ATOM	33960	01	P	687	212.895	101.353	-72.158	1.00	53.54	Al6
ATOM	33908	04	CYT	684	224.297	102.931	-66.345	1.00	61.58	Al6s	ATOM	33961	02	P	687	213.645	103.748	-71.636	1.00	53.54	Al6
ATOM	33909	05	CYT	684	222.530	101.306	-66.375	1.00	61.58	Al6s	ATOM	33962	05	ADE	687	212.472	102.374	-69.934	1.00	58.46	Al6
ATOM	33910	02	CYT	684	222.124	97.374	-68.519	1.00	56.74	Al6s	ATOM	33963	05	ADE	687	212.005	101.151	-69.346	1.00	58.46	Al6
ATOM	33911	02	CYT	684	223.137	96.788	-69.309	1.00	56.74	Al6s	ATOM	33964	04	ADE	687	212.064	101.227	-67.838	1.00	58.46	Al6
ATOM	33912	03	CYT	684	220.749	96.685	-68.557	1.00	56.74	Al6s	ATOM	33965	04	ADE	687	213.448	101.178	-67.391	1.00	58.46	Al6
ATOM	33913	03	CYT	684	220.650	95.340	-69.077	1.00	56.74	Al6s	ATOM	33966	01	ADE	687	213.588	101.932	-66.198	1.00	58.46	Al6
ATOM	33914	01	ADE	685	221.337	94.929	-70.482	1.00	61.17	Al6s	ATOM	33967	09	ADE	687	214.511	103.041	-66.440	1.00	53.54	Al6
ATOM	33915	01	ADE	685	222.372	93.904	-70.193	1.00	79.01	Al6s	ATOM	33968	04	ADE	687	214.915	103.934	-65.480	1.00	53.54	Al6
ATOM	33916	02	ADE	685	221.687	96.135	-71.280	1.00	79.01	Al6s	ATOM	33969	03	ADE	687	214.572	104.936	-64.183	1.00	53.54	Al6
ATOM	33917	05	ADE	685	220.174	94.182	-71.250	1.00	61.17	Al6s	ATOM	33970	02	ADE	687	215.137	104.953	-63.553	1.00	53.54	Al6
ATOM	33918	05	ADE	685	219.626	94.721	-72.452	1.00	61.17	Al6s	ATOM	33971	01	ADE	687	215.942	105.901	-64.032	1.00	53.54	Al6
ATOM	33919	04	ADE	685	218.262	94.146	-72.665	1.00	61.17	Al6s	ATOM	33972	06	ADE	687	216.265	105.876	-65.338	1.00	53.54	Al6
ATOM	33920	04	ADE	685	218.323	92.765	-72.305	1.00	61.17	Al6s	ATOM	33973	06	ADE	687	217.062	106.831	-65.805	1.00	53.54	Al6
ATOM	33921	01	ADE	685	217.026	92.324	-72.059	1.00	61.17	Al6s	ATOM	33974	05	ADE	687	215.731	104.837	-66.122	1.00	53.54	Al6
ATOM	33922	09	ADE	685	217.133	91.089	-71.282	1.00	79.01	Al6s	ATOM	33975	07	ADE	687	215.855	104.514	-67.466	1.00	53.54	Al6
ATOM	33923	04	ADE	685	216.320	89.991	-71.387	1.00	79.01	Al6s	ATOM	33976	08	ADE	687	215.117	103.440	-67.601	1.00	53.54	Al6
ATOM	33924	03	ADE	685	215.255	89.841	-72.185	1.00	79.01	Al6s	ATOM	33977	02	ADE	687	212.205	102.474	-65.826	1.00	58.46	Al6
ATOM	33925	02	ADE	685	214.712	88.637	-72.031	1.00	79.01	Al6s	ATOM	33978	02	ADE	687	211.620	101.628	-64.846	1.00	58.46	Al6
ATOM	33926	01	ADE	685	215.085	87.640	-71.213	1.00	79.01	Al6s	ATOM	33979	03	ADE	687	211.501	102.482	-67.181	1.00	58.46	Al6
ATOM	33927	06	ADE	685	216.163	87.825	-70.419	1.00	79.01	Al6s	ATOM	33980	03	ADE	687	210.081	102.483	-67.072	1.00	58.46	Al6
ATOM	33928	06	ADE	685	216.536	86.833	-69.607	1.00	79.01	Al6s	ATOM	33981	01	P	688	209.251	103.805	-67.479	1.00	51.06	Al6
ATOM	33929	05	ADE	685	216.828	89.059	-70.499	1.00	79.01	Al6s	ATOM	33982	01	P	688	207.827	103.533	-67.126	1.00	58.44	Al6
ATOM	33930	07	ADE	685	217.941	89.560	-69.846	1.00	79.01	Al6s	ATOM	33983	02	P	688	209.596	104.208	-68.859	1.00	58.44	Al6
ATOM	33931	08	ADE	685	218.074	90.767	-70.335	1.00	79.01	Al6s	ATOM	33984	05	URI	688	209.815	104.934	-66.505	1.00	51.06	Al6
ATOM	33932	02	ADE	685	216.295	93.502	-71.406	1.00	61.17	Al6s	ATOM	33985	05	URI	688	209.578	104.852	-65.092	1.00	51.06	Al6
ATOM	33933	02	ADE	685	214.955	93.534	-71.836	1.00	61.17	Al6s	ATOM	33986	04	URI	688	210.267	105.974	-64.359	1.00	51.06	Al6
ATOM	33934	03	ADE	685	217.134	94.731	-71.823	1.00	61.17	Al6s	ATOM	33987	04	URI	688	211.699	105.830	-64.419	1.00	51.06	Al6
ATOM	33935	03	ADE	685	216.523	95.629	-72.755	1.00	61.17	Al6s	ATOM	33988	01	URI	688	212.305	107.109	-64.419	1.00	51.06	Al6
ATOM	33936	01	GUA	686	215.283	96.558	-72.336	1.00	67.31	Al6s	ATOM	33989	01	URI	688	213.053	107.359	-65.663	1.00	58.44	Al6
ATOM	33937	01	GUA	686	214.139	95.697	-71.965	1.00	63.38	Al6s	ATOM	33990	06	URI	688	212.880	106.591	-66.794	1.00	58.44	Al6
ATOM	33938	02	GUA	686	215.120	97.550	-73.419	1.00	63.38	Al6s	ATOM	33991	02	URI	688	213.927	108.428	-65.668	1.00	58.44	Al6

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ATOM	33992	O2	URI	688	214.149	109.097	-64.681	1.00	58.44	Al6S	ATOM	34045	O2P	CYT	691	204.610	113.528	-72.065	1.00	45.69	Al.
ATOM	33993	N3	URI	688	214.534	108.682	-66.869	1.00	58.44	Al6S	ATOM	34046	O5	CYT	691	205.185	114.465	-74.282	1.00	59.39	Al.
ATOM	33994	O4	URI	688	214.382	107.982	-68.040	1.00	58.44	Al6S	ATOM	34047	C5	CYT	691	205.579	115.496	-75.214	1.00	59.39	Al.
ATOM	33995	O4	URI	688	214.928	108.397	-69.065	1.00	58.44	Al6S	ATOM	34048	C4	CYT	691	205.771	114.914	-76.594	1.00	59.39	Al.
ATOM	33996	C5	URI	688	213.501	106.858	-67.950	1.00	58.44	Al6S	ATOM	34049	O4	CYT	691	206.885	113.988	-76.567	1.00	59.39	Al.
ATOM	33997	C2	URI	688	211.190	108.137	-64.229	1.00	51.06	Al6S	ATOM	34050	C1	CYT	691	206.639	112.918	-77.464	1.00	59.39	Al.
ATOM	33998	O2	URI	688	211.051	108.405	-62.845	1.00	51.06	Al6S	ATOM	34051	N1	CYT	691	206.624	111.651	-76.715	1.00	45.69	Al.
ATOM	33999	C3	URI	688	209.986	107.402	-64.801	1.00	51.06	Al6S	ATOM	34052	C6	CYT	691	206.471	111.626	-75.358	1.00	45.69	Al.
ATOM	34000	O3	URI	688	208.779	107.909	-64.239	1.00	51.06	Al6S	ATOM	34053	C2	CYT	691	206.773	110.455	-77.431	1.00	45.69	Al.
ATOM	34001	P	ADE	689	207.704	108.661	-65.173	1.00	46.95	Al6S	ATOM	34054	O2	CYT	691	206.909	110.508	-78.670	1.00	45.69	Al.
ATOM	34002	O1P	ADE	689	206.614	109.103	-64.271	1.00	63.34	Al6S	ATOM	34055	N3	CYT	691	206.767	109.279	-76.764	1.00	45.69	Al.
ATOM	34003	O2P	ADE	689	207.383	107.806	-66.349	1.00	63.34	Al6S	ATOM	34056	C4	CYT	691	206.614	109.266	-75.444	1.00	45.69	Al.
ATOM	34004	O5	ADE	689	208.447	109.969	-65.684	1.00	46.95	Al6S	ATOM	34057	N4	CYT	691	206.598	108.083	-74.834	1.00	45.69	Al.
ATOM	34005	C5	ADE	689	208.635	111.079	-64.812	1.00	46.95	Al6S	ATOM	34058	C5	CYT	691	206.462	110.468	-74.689	1.00	45.69	Al.
ATOM	34006	C4	ADE	689	209.510	112.115	-65.468	1.00	46.95	Al6S	ATOM	34059	C2	CYT	691	205.302	113.179	-78.143	1.00	59.39	Al.
ATOM	34007	O4	ADE	689	210.839	111.574	-65.688	1.00	46.95	Al6S	ATOM	34060	O2	CYT	691	205.523	113.841	-79.367	1.00	59.39	Al.
ATOM	34008	C1	ADE	689	211.366	112.066	-66.914	1.00	46.95	Al6S	ATOM	34061	C3	CYT	691	204.624	114.074	-77.125	1.00	59.39	Al.
ATOM	34009	N9	ADE	689	211.498	110.939	-67.845	1.00	63.34	Al6S	ATOM	34062	O3	CYT	691	203.570	114.819	-77.691	1.00	59.39	Al.
ATOM	34010	C3	ADE	689	212.258	110.903	-68.987	1.00	63.34	Al6S	ATOM	34063	P	GUA	692	202.070	114.279	-77.519	1.00	53.23	Al.
ATOM	34011	N3	ADE	689	213.061	111.868	-69.463	1.00	63.34	Al6S	ATOM	34064	O1P	GUA	692	201.142	115.396	-77.853	1.00	53.23	Al.
ATOM	34012	C2	ADE	689	213.622	111.488	-70.604	1.00	63.34	Al6S	ATOM	34065	O2P	GUA	692	201.988	113.633	-76.183	1.00	53.23	Al.
ATOM	34013	N1	ADE	689	213.479	110.341	-71.274	1.00	63.34	Al6S	ATOM	34066	O5	GUA	692	201.952	113.118	-78.605	1.00	63.84	Al.
ATOM	34014	C6	ADE	689	212.659	109.395	-70.767	1.00	63.34	Al6S	ATOM	34067	C5	GUA	692	202.154	113.403	-79.993	1.00	63.84	Al.
ATOM	34015	N6	ADE	689	212.501	108.254	-71.436	1.00	63.34	Al6S	ATOM	34068	C4	GUA	692	202.311	112.127	-80.789	1.00	63.84	Al.
ATOM	34016	C5	ADE	689	212.014	109.672	-69.562	1.00	63.34	Al6S	ATOM	34069	O4	GUA	692	203.486	111.393	-80.355	1.00	63.84	Al.
ATOM	34017	N7	ADE	689	211.136	108.931	-68.791	1.00	63.34	Al6S	ATOM	34070	C1	GUA	692	203.301	110.014	-80.615	1.00	63.84	Al.
ATOM	34018	C8	ADE	689	210.866	109.719	-67.783	1.00	63.34	Al6S	ATOM	34071	N9	GUA	692	203.448	109.252	-79.381	1.00	53.23	Al.
ATOM	34019	O2	ADE	689	210.368	113.095	-67.437	1.00	46.95	Al6S	ATOM	34072	C4	GUA	692	203.530	107.886	-79.308	1.00	53.23	Al.
ATOM	34020	C2	ADE	689	210.705	114.356	-66.899	1.00	46.95	Al6S	ATOM	34073	N3	GUA	692	203.538	107.045	-80.359	1.00	53.23	Al.
ATOM	34021	C3	ADE	689	209.071	112.576	-66.843	1.00	46.95	Al6S	ATOM	34074	C2	GUA	692	203.615	105.784	-79.983	1.00	53.23	Al.
ATOM	34022	O3	ADE	689	208.067	113.559	-66.785	1.00	46.95	Al6S	ATOM	34075	N2	GUA	692	203.659	104.820	-80.913	1.00	53.23	Al.
ATOM	34023	P	CYT	690	206.829	113.443	-67.780	1.00	51.45	Al6S	ATOM	34076	N1	GUA	692	203.660	105.375	-78.674	1.00	53.23	Al.
ATOM	34024	O1P	CYT	690	205.896	114.557	-67.498	1.00	51.55	Al6S	ATOM	34077	C6	GUA	692	203.448	106.222	-77.572	1.00	53.23	Al.
ATOM	34025	O2P	CYT	690	206.358	112.040	-67.710	1.00	51.55	Al6S	ATOM	34078	O6	GUA	692	203.686	105.746	-76.431	1.00	53.23	Al.
ATOM	34026	O5	CYT	690	207.481	113.662	-69.210	1.00	51.45	Al6S	ATOM	34079	C5	GUA	692	203.585	107.590	-77.965	1.00	53.23	Al.
ATOM	34027	C5	CYT	690	208.092	114.915	-69.557	1.00	51.45	Al6S	ATOM	34080	N7	GUA	692	203.568	108.751	-77.204	1.00	53.23	Al.
ATOM	34028	C4	CYT	690	208.441	114.930	-71.025	1.00	51.45	Al6S	ATOM	34081	C8	GUA	692	203.494	109.713	-78.087	1.00	53.23	Al.
ATOM	34029	O4	CYT	690	209.588	114.075	-71.288	1.00	51.45	Al6S	ATOM	34082	C2	GUA	692	201.895	109.832	-81.178	1.00	63.84	Al.
ATOM	34030	C1	CYT	690	209.467	113.509	-72.585	1.00	51.45	Al6S	ATOM	34083	O2	GUA	692	201.976	109.743	-82.582	1.00	63.84	Al.
ATOM	34031	N1	CYT	690	209.463	112.041	-72.472	1.00	51.55	Al6S	ATOM	34084	C3	GUA	692	201.200	111.100	-80.699	1.00	63.84	Al.
ATOM	34032	C6	CYT	690	209.555	111.284	-73.647	1.00	51.55	Al6S	ATOM	34085	O3	GUA	693	198.636	110.835	-81.139	1.00	82.94	Al.
ATOM	34033	C2	CYT	690	209.739	111.870	-74.723	1.00	51.55	Al6S	ATOM	34086	P	GUA	693	197.697	111.415	-82.146	1.00	59.16	Al.
ATOM	34034	O2	CYT	690	209.355	111.284	-73.647	1.00	51.55	Al6S	ATOM	34087	O1P	GUA	693	198.375	111.040	-79.685	1.00	59.16	Al.
ATOM	34035	N3	CYT	690	209.456	109.936	-73.578	1.00	51.55	Al6S	ATOM	34088	O2P	GUA	693	198.775	109.268	-81.401	1.00	82.94	Al.
ATOM	34036	C4	CYT	690	209.316	109.339	-72.376	1.00	51.55	Al6S	ATOM	34089	O5	GUA	693	198.860	108.772	-82.742	1.00	82.94	Al.
ATOM	34037	N4	CYT	690	209.221	108.013	-72.376	1.00	51.55	Al6S	ATOM	34090	C5	GUA	693	198.930	107.267	-82.759	1.00	82.94	Al.
ATOM	34038	C5	CYT	690	208.152	114.003	-73.192	1.00	51.45	Al6S	ATOM	34091	C4	GUA	693	199.187	106.824	-82.167	1.00	82.94	Al.
ATOM	34039	C2	CYT	690	208.365	115.095	-74.058	1.00	51.45	Al6S	ATOM	34092	O4	GUA	693	199.987	105.550	-81.576	1.00	82.94	Al.
ATOM	34040	O2	CYT	690	207.367	114.387	-71.949	1.00	51.45	Al6S	ATOM	34093	C1	GUA	693	200.259	105.639	-80.145	1.00	59.16	Al.
ATOM	34041	C3	CYT	690	206.355	115.325	-72.230	1.00	51.45	Al6S	ATOM	34094	N9	GUA	693	200.353	104.572	-79.289	1.00	59.16	Al.
ATOM	34042	O3	CYT	690	204.932	114.805	-72.747	1.00	59.39	Al6S	ATOM	34095	C4	GUA	693	200.242	103.274	-79.634	1.00	59.16	Al.
ATOM	34043	P	CYT	691	204.008	115.963	-72.634	1.00	45.69	Al6S	ATOM	34096	N3	GUA	693	200.370	102.475	-78.594	1.00	59.16	Al.
ATOM	34044	O1P	CYT	691							ATOM	34097	C2	GUA	693						Al.

ATOM	34098	N2	GUA	693	200.298	101.151	-78.763	1.00	59.16	Al6s	ATOM	34151	O2'	ADE	695	193.004	96.404	-75.620	1.00	53.85	Al6
ATOM	34099	N1	GUA	693	200.584	102.915	-77.312	1.00	59.16	Al6s	ATOM	34152	C3'	ADE	695	191.981	98.192	-76.920	1.00	53.85	Al6
ATOM	34100	C6	GUA	693	200.701	104.248	-76.934	1.00	59.16	Al6s	ATOM	34153	O3'	ADE	695	190.860	97.354	-77.091	1.00	53.85	Al6
ATOM	34101	O6	GUA	693	200.898	104.537	-75.748	1.00	59.16	Al6s	ATOM	34154	P	GUA	696	189.424	97.868	-76.593	1.00	63.82	Al6
ATOM	34102	C5	GUA	693	200.568	105.118	-78.044	1.00	59.16	Al6s	ATOM	34155	O1P	GUA	696	188.379	96.979	-77.169	1.00	41.80	Al6
ATOM	34103	N7	GUA	693	200.432	106.503	-78.116	1.00	59.16	Al6s	ATOM	34156	O2P	GUA	696	189.349	99.347	-76.820	1.00	41.80	Al6
ATOM	34104	C8	GUA	693	200.628	106.768	-79.381	1.00	59.16	Al6s	ATOM	34157	O5'	GUA	696	189.474	99.598	-75.028	1.00	63.82	Al6
ATOM	34105	C2'	GUA	693	198.534	105.145	-81.805	1.00	82.94	Al6s	ATOM	34158	C5'	GUA	696	189.737	96.284	-74.516	1.00	63.82	Al6
ATOM	34106	O2'	GUA	693	198.456	104.327	-82.952	1.00	82.94	Al6s	ATOM	34159	C4'	GUA	696	190.085	96.364	-73.050	1.00	63.82	Al6
ATOM	34107	C3'	GUA	693	197.868	106.498	-81.996	1.00	82.94	Al6s	ATOM	34160	O4'	GUA	696	191.301	97.140	-72.887	1.00	63.82	Al6
ATOM	34108	O3'	GUA	693	196.636	106.382	-82.693	1.00	82.94	Al6s	ATOM	34161	C1'	GUA	696	191.253	97.863	-71.671	1.00	63.82	Al6
ATOM	34109	P	GUA	694	195.262	106.275	-81.855	1.00	67.90	Al6s	ATOM	34162	N9	GUA	696	191.342	99.285	-71.984	1.00	41.80	Al6
ATOM	34110	O1P	GUA	694	194.137	106.381	-82.843	1.00	49.39	Al6s	ATOM	34163	C4	GUA	696	191.879	100.279	-71.184	1.00	41.80	Al6
ATOM	34111	O2P	GUA	694	195.338	107.248	-80.723	1.00	49.39	Al6s	ATOM	34164	N3	GUA	696	192.441	100.110	-69.963	1.00	41.80	Al6
ATOM	34112	O5'	GUA	694	195.285	104.791	-81.267	1.00	67.90	Al6s	ATOM	34165	C2	GUA	696	192.877	101.258	-69.459	1.00	41.80	Al6
ATOM	34113	C5'	GUA	694	195.366	103.676	-82.159	1.00	67.90	Al6s	ATOM	34166	N2	GUA	696	193.493	101.275	-68.268	1.00	41.80	Al6
ATOM	34114	C4'	GUA	694	195.705	102.414	-81.415	1.00	67.90	Al6s	ATOM	34167	N1	GUA	696	192.748	102.469	-70.086	1.00	41.80	Al6
ATOM	34115	O4'	GUA	694	196.940	102.589	-80.682	1.00	67.90	Al6s	ATOM	34168	C6	GUA	696	192.158	102.666	-71.328	1.00	41.80	Al6
ATOM	34116	C1'	GUA	694	196.949	101.724	-79.560	1.00	67.90	Al6s	ATOM	34169	O6	GUA	696	192.071	103.803	-71.793	1.00	41.80	Al6
ATOM	34117	N9	GUA	694	197.148	102.501	-78.342	1.00	49.39	Al6s	ATOM	34170	C5	GUA	696	191.714	101.449	-71.896	1.00	41.80	Al6
ATOM	34118	C4	GUA	694	197.382	101.971	-77.103	1.00	49.39	Al6s	ATOM	34171	N7	GUA	696	191.102	101.201	-73.118	1.00	41.80	Al6
ATOM	34119	N3	GUA	694	197.476	100.655	-76.815	1.00	49.39	Al6s	ATOM	34172	C8	GUA	696	190.899	99.909	-73.125	1.00	41.80	Al6
ATOM	34120	C2	GUA	694	197.737	100.445	-75.540	1.00	49.39	Al6s	ATOM	34173	C2'	GUA	696	189.942	97.439	-70.980	1.00	63.82	Al6
ATOM	34121	N2	GUA	694	197.893	99.191	-75.091	1.00	49.39	Al6s	ATOM	34174	O2'	GUA	696	189.180	96.413	-70.108	1.00	63.82	Al6
ATOM	34122	N1	GUA	694	197.870	101.451	-74.618	1.00	49.39	Al6s	ATOM	34175	C3'	GUA	696	189.083	97.079	-72.162	1.00	63.82	Al6
ATOM	34123	C6	GUA	694	197.760	102.814	-74.893	1.00	49.39	Al6s	ATOM	34176	O3'	GUA	696	187.999	96.247	-71.789	1.00	63.82	Al6
ATOM	34124	O5	GUA	694	197.884	103.640	-73.984	1.00	49.39	Al6s	ATOM	34177	P	GUA	697	186.555	96.909	-71.521	1.00	57.64	Al6
ATOM	34125	C6	GUA	694	197.503	103.049	-76.260	1.00	49.39	Al6s	ATOM	34178	O1P	GUA	697	185.535	95.845	-71.688	1.00	40.09	Al6
ATOM	34126	N7	GUA	694	197.346	104.239	-76.954	1.00	49.39	Al6s	ATOM	34179	O2P	GUA	697	186.436	98.174	-72.299	1.00	40.09	Al6
ATOM	34127	C8	GUA	694	197.136	103.866	-78.186	1.00	49.39	Al6s	ATOM	34180	O5'	GUA	697	186.593	97.287	-69.977	1.00	57.64	Al6
ATOM	34128	C2'	GUA	694	195.607	101.005	-79.519	1.00	67.90	Al6s	ATOM	34181	C5'	GUA	697	186.752	96.262	-68.982	1.00	57.64	Al6
ATOM	34129	O2'	GUA	694	195.765	99.710	-80.061	1.00	67.90	Al6s	ATOM	34182	C4'	GUA	697	187.312	96.847	-67.715	1.00	57.64	Al6
ATOM	34130	C3'	GUA	694	194.738	101.939	-80.351	1.00	67.90	Al6s	ATOM	34183	O4'	GUA	697	188.560	97.518	-68.012	1.00	57.64	Al6
ATOM	34131	O3'	GUA	694	193.605	101.283	-80.883	1.00	67.90	Al6s	ATOM	34184	C1'	GUA	697	188.704	98.646	-67.177	1.00	57.64	Al6
ATOM	34132	P	ADE	695	192.210	101.354	-80.085	1.00	53.85	Al6s	ATOM	34185	N9	GUA	697	188.736	99.835	-68.022	1.00	40.09	Al6
ATOM	34133	O1P	ADE	695	191.154	100.860	-81.015	1.00	52.87	Al6s	ATOM	34186	C4	GUA	697	189.418	101.010	-67.764	1.00	40.09	Al6
ATOM	34134	O2P	ADE	695	192.070	102.706	-79.474	1.00	52.87	Al6s	ATOM	34187	N3	GUA	697	190.206	101.262	-66.689	1.00	40.09	Al6
ATOM	34135	O5'	ADE	695	192.389	100.264	-78.937	1.00	53.85	Al6s	ATOM	34188	C2	GUA	697	190.705	102.483	-66.723	1.00	40.09	Al6
ATOM	34136	C5'	ADE	695	192.596	98.896	-79.287	1.00	53.85	Al6s	ATOM	34189	N2	GUA	697	191.508	102.911	-65.743	1.00	40.09	Al6
ATOM	34137	C5'	ADE	695	192.952	98.093	-78.073	1.00	53.85	Al6s	ATOM	34190	N1	GUA	697	190.449	103.377	-67.721	1.00	40.09	Al6
ATOM	34138	O4'	ADE	695	194.200	98.571	-77.519	1.00	53.85	Al6s	ATOM	34191	C6	GUA	697	189.635	103.138	-68.824	1.00	40.09	Al6
ATOM	34139	C1'	ADE	695	194.175	98.442	-76.103	1.00	53.85	Al6s	ATOM	34192	O6	GUA	697	189.450	104.023	-69.655	1.00	40.09	Al6
ATOM	34140	N9	ADE	695	194.326	99.773	-75.509	1.00	52.87	Al6s	ATOM	34193	C5	GUA	697	189.108	101.846	-68.813	1.00	40.09	Al6
ATOM	34141	C4	ADE	695	194.677	100.042	-74.209	1.00	52.87	Al6s	ATOM	34194	N7	GUA	697	188.274	101.212	-69.723	1.00	40.09	Al6
ATOM	34142	N3	ADE	695	194.949	99.156	-73.241	1.00	52.87	Al6s	ATOM	34195	C8	GUA	697	188.080	100.024	-69.215	1.00	40.09	Al6
ATOM	34143	C2	ADE	695	195.269	99.787	-72.112	1.00	52.87	Al6s	ATOM	34196	C2'	GUA	697	187.509	98.660	-66.227	1.00	57.64	Al6
ATOM	34144	N1	ADE	695	195.337	101.099	-71.867	1.00	52.87	Al6s	ATOM	34197	O2'	GUA	697	187.858	97.929	-65.073	1.00	57.64	Al6
ATOM	34145	C6	ADE	695	195.050	101.955	-72.868	1.00	52.87	Al6s	ATOM	34198	C3'	GUA	697	186.470	97.911	-67.038	1.00	57.64	Al6
ATOM	34146	N6	ADE	695	195.113	103.263	-72.631	1.00	52.87	Al6s	ATOM	34199	O3'	GUA	697	185.492	97.314	-66.211	1.00	57.64	Al6
ATOM	34147	C5	ADE	695	194.700	101.418	-74.103	1.00	52.87	Al6s	ATOM	34200	P	ADE	698	184.082	98.048	-65.982	1.00	51.10	Al6
ATOM	34148	N7	ADE	695	194.361	102.012	-75.307	1.00	52.87	Al6s	ATOM	34201	O1P	ADE	698	183.228	97.016	-65.347	1.00	43.16	Al6
ATOM	34149	C8	ADE	695	194.149	100.998	-76.107	1.00	52.87	Al6s	ATOM	34202	O2P	ADE	698	183.634	98.707	-67.230	1.00	43.16	Al6
ATOM	34150	C2'	ADE	695	192.842	97.802	-75.729	1.00	53.85	Al6s	ATOM	34203	O5'	ADE	698	184.402	99.205	-64.928	1.00	51.10	Al6

ATOM	34204	C5' ADE	698	184.796	98.894	-63.570	1.00	51.10	Al6s	ATOM	34257	C4	CYT	700	181.773	108.258	-66.650	1.00	44.87	Al6	
ATOM	34205	C4' ADE	698	185.406	100.106	-62.899	1.00	51.10	Al6s	ATOM	34258	N4	CYT	700	181.423	107.379	-67.582	1.00	44.87	Al6	
ATOM	34206	C4' ADE	698	186.569	100.538	-63.645	1.00	51.10	Al6s	ATOM	34259	C5	CYT	700	181.496	107.994	-65.279	1.00	44.87	Al6	
ATOM	34207	C1' ADE	698	186.686	101.950	-63.583	1.00	51.10	Al6s	ATOM	34260	C2' CYT	700	181.680	111.992	-63.438	1.00	47.17	Al6		
ATOM	34208	N9 ADE	698	186.559	102.474	-64.939	1.00	43.16	Al6s	ATOM	34261	O2' CYT	700	181.656	113.102	-64.311	1.00	47.17	Al6		
ATOM	34209	C4 ADE	698	187.118	103.629	-65.427	1.00	43.16	Al6s	ATOM	34262	C3' CYT	700	182.032	112.422	-62.025	1.00	47.17	Al6		
ATOM	34210	N3 ADE	698	187.890	104.506	-64.765	1.00	43.16	Al6s	ATOM	34263	O3' CYT	700	182.861	113.558	-62.130	1.00	47.17	Al6		
ATOM	34211	C2 ADE	698	188.239	105.516	-65.564	1.00	43.16	Al6s	ATOM	34264	P	GUA	701	182.556	114.859	-61.241	1.00	51.83	Al6	
ATOM	34212	N1 ADE	698	187.926	105.727	-66.849	1.00	43.16	Al6s	ATOM	34265	O1P GUA	701	181.721	114.524	-60.062	1.00	52.62	Al6		
ATOM	34213	C6' ADE	698	187.148	104.818	-67.480	1.00	43.16	Al6s	ATOM	34266	O2P GUA	701	182.107	115.938	-62.159	1.00	52.62	Al6		
ATOM	34214	N6' ADE	698	186.833	105.015	-68.763	1.00	43.16	Al6s	ATOM	34267	O5' GUA	701	183.998	115.178	-60.660	1.00	51.83	Al6		
ATOM	34215	C5 ADE	698	186.713	103.712	-66.746	1.00	43.16	Al6s	ATOM	34268	C5' GUA	701	185.758	116.811	-60.545	1.00	51.83	Al6		
ATOM	34216	N7 ADE	698	185.909	102.635	-67.082	1.00	43.16	Al6s	ATOM	34269	C4' GUA	701	186.197	116.216	-61.789	1.00	51.83	Al6		
ATOM	34217	C8 ADE	698	185.851	101.931	-65.980	1.00	43.16	Al6s	ATOM	34270	O4' GUA	701	186.992	117.145	-62.509	1.00	51.83	Al6		
ATOM	34218	C2' ADE	698	185.554	102.466	-62.702	1.00	51.10	Al6s	ATOM	34271	C1' GUA	701	186.362	117.348	-63.813	1.00	52.62	Al6		
ATOM	34219	O2' ADE	698	185.994	102.606	-61.369	1.00	51.10	Al6s	ATOM	34272	N9	GUA	701	186.694	118.282	-64.773	1.00	52.62	Al6	
ATOM	34220	C3' ADE	698	184.538	101.349	-62.832	1.00	51.10	Al6s	ATOM	34273	C4	GUA	701	187.676	119.206	-64.683	1.00	52.62	Al6	
ATOM	34221	O3' ADE	698	183.682	101.345	-61.717	1.00	51.10	Al6s	ATOM	34274	N3	GUA	701	187.747	119.955	-65.773	1.00	52.62	Al6	
ATOM	34222	P	ADE	182.326	102.194	-61.769	1.00	39.61	Al6s	ATOM	34275	C2	GUA	701	188.677	120.917	-65.865	1.00	52.62	Al6	
ATOM	34223	O1P ADE	699	181.588	101.781	-60.541	1.00	42.63	Al6s	ATOM	34276	N2	GUA	701	186.677	120.917	-65.865	1.00	52.62	Al6	
ATOM	34224	O2P ADE	699	181.690	102.038	-63.116	1.00	42.63	Al6s	ATOM	34277	N1	GUA	701	186.914	119.815	-66.857	1.00	52.62	Al6	
ATOM	34225	O5' ADE	699	182.800	103.707	-61.616	1.00	39.61	Al6s	ATOM	34278	C6	GUA	701	185.899	118.870	-66.970	1.00	52.62	Al6	
ATOM	34226	C5' ADE	699	183.249	104.182	-60.346	1.00	39.61	Al6s	ATOM	34279	O6	GUA	701	185.205	118.822	-67.994	1.00	52.62	Al6	
ATOM	34227	C4' ADE	699	183.924	105.518	-60.476	1.00	39.61	Al6s	ATOM	34280	C5	GUA	701	185.815	118.058	-65.820	1.00	52.62	Al6	
ATOM	34228	O4' ADE	699	184.995	105.416	-61.446	1.00	39.61	Al6s	ATOM	34281	N7	GUA	701	184.956	117.008	-65.529	1.00	52.62	Al6	
ATOM	34229	C1' ADE	699	185.167	106.671	-62.100	1.00	39.61	Al6s	ATOM	34282	C8	GUA	701	185.313	118.621	-64.334	1.00	52.62	Al6	
ATOM	34230	N9	ADE	184.911	106.477	-63.532	1.00	42.63	Al6s	ATOM	34283	C2' GUA	701	187.146	118.402	-61.614	1.00	51.83	Al6		
ATOM	34231	C4	ADE	185.220	107.366	-64.537	1.00	42.63	Al6s	ATOM	34284	O2' GUA	701	188.357	118.330	-60.918	1.00	51.83	Al6		
ATOM	34232	N3	ADE	185.829	108.562	-64.417	1.00	42.63	Al6s	ATOM	34285	C3' GUA	701	185.930	118.301	-60.730	1.00	51.83	Al6		
ATOM	34233	C2	ADE	185.949	109.156	-65.605	1.00	42.63	Al6s	ATOM	34286	O3' GUA	701	186.088	118.871	-59.444	1.00	51.83	Al6		
ATOM	34234	N1	ADE	185.562	108.721	-66.810	1.00	42.63	Al6s	ATOM	34287	P	CYT	702	184.828	119.562	-58.729	1.00	51.24	Al6	
ATOM	34235	C6	ADE	184.957	107.510	-66.899	1.00	42.63	Al6s	ATOM	34288	O1P CYT	702	185.258	119.881	-57.337	1.00	47.86	Al6		
ATOM	34236	N6	ADE	184.570	107.074	-68.099	1.00	42.63	Al6s	ATOM	34289	O2P CYT	702	183.594	118.763	-58.949	1.00	47.86	Al6		
ATOM	34237	C5	ADE	184.770	106.782	-65.708	1.00	42.63	Al6s	ATOM	34290	O5' CYT	702	185.823	121.801	-59.623	1.00	51.24	Al6		
ATOM	34238	N7	ADE	184.199	105.543	-65.451	1.00	42.63	Al6s	ATOM	34291	C5' CYT	702	185.660	122.718	-60.793	1.00	51.24	Al6		
ATOM	34239	C8	ADE	184.309	105.408	-64.152	1.00	42.63	Al6s	ATOM	34292	C4' CYT	702	184.988	122.624	-63.008	1.00	51.24	Al6		
ATOM	34240	C2' ADE	699	184.176	107.635	-61.465	1.00	39.61	Al6s	ATOM	34293	O4' CYT	702	185.741	121.964	-62.016	1.00	51.24	Al6		
ATOM	34241	O2' ADE	699	184.804	108.276	-60.372	1.00	39.61	Al6s	ATOM	34294	C1' CYT	702	184.988	122.624	-63.008	1.00	51.24	Al6		
ATOM	34242	C3' ADE	699	183.095	106.689	-60.969	1.00	39.61	Al6s	ATOM	34295	N1	CYT	702	184.231	121.631	-63.779	1.00	47.86	Al6	
ATOM	34243	O3' ADE	699	182.313	107.297	-59.951	1.00	39.61	Al6s	ATOM	34296	C6	CYT	702	183.816	120.456	-63.218	1.00	47.86	Al6	
ATOM	34244	P	CYT	180.933	108.036	-60.345	1.00	47.17	Al6s	ATOM	34297	C2	CYT	702	183.966	121.905	-65.119	1.00	47.86	Al6	
ATOM	34245	O1P CYT	700	180.290	108.427	-59.054	1.00	44.87	Al6s	ATOM	34298	O2	CYT	702	184.328	122.995	-65.591	1.00	47.86	Al6	
ATOM	34246	O2P CYT	700	180.183	107.193	-61.316	1.00	44.87	Al6s	ATOM	34299	N3	CYT	702	183.327	120.987	-65.869	1.00	47.86	Al6	
ATOM	34247	O5' CYT	700	181.377	109.357	-61.123	1.00	47.17	Al6s	ATOM	34300	C4	CYT	702	182.948	119.835	-65.328	1.00	47.86	Al6	
ATOM	34248	C5' CYT	700	182.190	110.337	-60.469	1.00	47.17	Al6s	ATOM	34301	N4	CYT	702	182.340	118.948	-66.123	1.00	47.86	Al6	
ATOM	34249	C4' CYT	700	182.846	111.257	-61.474	1.00	47.17	Al6s	ATOM	34302	C5	CYT	702	183.180	119.535	-63.950	1.00	47.86	Al6	
ATOM	34250	O4' CYT	700	183.287	110.484	-62.614	1.00	47.17	Al6s	ATOM	34303	C2' CYT	702	184.183	123.748	-62.353	1.00	51.24	Al6		
ATOM	34251	C1' CYT	700	182.862	111.106	-63.803	1.00	47.17	Al6s	ATOM	34304	O2' CYT	702	184.791	124.976	-62.678	1.00	51.24	Al6		
ATOM	34252	N1	CYT	700	182.489	110.069	-64.778	1.00	44.87	Al6s	ATOM	34305	C3' CYT	702	184.320	123.418	-60.871	1.00	51.24	Al6	
ATOM	34253	C6	CYT	700	181.866	108.916	-64.385	1.00	44.87	Al6s	ATOM	34306	O3' CYT	702	184.380	124.590	-60.086	1.00	51.24	Al6	
ATOM	34254	C2	CYT	700	182.769	110.294	-66.130	1.00	44.87	Al6s	ATOM	34307	P	CYT	703	183.321	124.802	-58.910	1.00	49.34	Al6
ATOM	34255	O2	CYT	700	183.372	111.332	-66.454	1.00	44.87	Al6s	ATOM	34308	O1P CYT	703	183.635	126.102	-58.257	1.00	32.80	Al6	
ATOM	34256	N3	CYT	700	182.387	109.374	-67.044	1.00	44.87	Al6s	ATOM	34309	O2P CYT	703	183.337	123.550	-58.104	1.00	32.80	Al6	

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ATOM	34310	OS	CYT	703	181.937	124.917	-59.694	1.00	49.34	Al6S	ATOM	34363	C6	ADE	705	175.432	121.211	-55.977	1.00	44.15	Al
ATOM	34311	OS	CYT	703	181.693	126.004	-60.609	1.00	49.34	Al6S	ATOM	34364	N6	ADE	705	174.872	120.733	-57.094	1.00	44.15	Al
ATOM	34312	C4	CYT	703	180.500	125.698	-61.483	1.00	49.34	Al6S	ATOM	34365	C5	ADE	705	175.221	122.498	-55.512	1.00	44.15	Al
ATOM	34313	O4	CYT	703	180.819	124.610	-62.377	1.00	49.34	Al6S	ATOM	34366	N7	ADE	705	174.450	123.541	-55.998	1.00	44.15	Al
ATOM	34314	C1	CYT	703	179.694	123.767	-62.540	1.00	49.34	Al6S	ATOM	34367	C8	ADE	705	174.659	124.510	-55.137	1.00	44.15	Al
ATOM	34315	N1	CYT	703	180.088	122.439	-62.049	1.00	32.80	Al6S	ATOM	34368	C2	ADE	705	175.712	124.578	-51.611	1.00	80.06	Al
ATOM	34316	C6	CYT	703	180.955	122.329	-60.995	1.00	32.80	Al6S	ATOM	34369	O2	ADE	705	175.275	125.716	-50.895	1.00	80.06	Al
ATOM	34317	C2	CYT	703	179.588	121.283	-62.679	1.00	32.80	Al6S	ATOM	34370	C3	ADE	705	177.062	124.014	-51.149	1.00	80.06	Al
ATOM	34318	O2	CYT	703	178.793	121.398	-63.616	1.00	32.80	Al6S	ATOM	34371	O3	ADE	705	177.309	124.289	-49.771	1.00	80.06	Al
ATOM	34319	N3	CYT	703	179.993	120.068	-62.241	1.00	32.80	Al6S	ATOM	34372	P	URI	706	178.169	123.267	-48.872	1.00	127.78	Al
ATOM	34320	C4	CYT	703	180.858	119.981	-61.221	1.00	32.80	Al6S	ATOM	34373	O1P	URI	706	179.462	123.925	-48.578	1.00	140.23	Al
ATOM	34321	N4	CYT	703	181.251	118.769	-60.831	1.00	32.80	Al6S	ATOM	34374	O2P	URI	706	178.154	121.926	-49.511	1.00	140.23	Al
ATOM	34322	C5	CYT	703	181.363	121.136	-60.557	1.00	32.80	Al6S	ATOM	34375	O5	URI	706	177.343	123.212	-47.511	1.00	127.78	Al
ATOM	34323	C2	CYT	703	178.526	124.395	-61.775	1.00	49.34	Al6S	ATOM	34376	C5	URI	706	175.902	123.201	-47.546	1.00	127.78	Al
ATOM	34324	O2	CYT	703	177.705	125.147	-62.652	1.00	49.34	Al6S	ATOM	34377	C4	URI	706	175.334	124.468	-46.941	1.00	127.78	Al
ATOM	34325	C3	CYT	703	179.255	125.250	-60.742	1.00	49.34	Al6S	ATOM	34378	O4	URI	706	176.273	125.575	-47.048	1.00	127.78	Al
ATOM	34326	O3	CYT	703	178.504	126.378	-60.316	1.00	49.34	Al6S	ATOM	34379	C1	URI	706	175.563	126.791	-47.270	1.00	127.78	Al
ATOM	34327	P	URI	704	177.705	126.330	-58.920	1.00	55.51	Al6S	ATOM	34380	N1	URI	706	176.050	127.406	-48.529	1.00	140.23	Al
ATOM	34328	O1P	URI	704	177.680	127.720	-58.391	1.00	58.88	Al6S	ATOM	34381	C6	URI	706	177.328	127.148	-48.993	1.00	140.23	Al
ATOM	34329	O2P	URI	704	178.598	125.464	-57.930	1.00	55.51	Al6S	ATOM	34382	C2	URI	706	175.195	128.255	-49.258	1.00	140.23	Al
ATOM	34330	O5	URI	704	178.278	125.432	-55.541	1.00	55.51	Al6S	ATOM	34383	O2	URI	706	174.067	128.559	-48.895	1.00	140.23	Al
ATOM	34331	C4	URI	704	178.752	124.153	-55.916	1.00	55.51	Al6S	ATOM	34384	N3	URI	706	175.721	128.781	-49.504	1.00	140.23	Al
ATOM	34332	O4	URI	704	178.020	123.033	-56.475	1.00	55.51	Al6S	ATOM	34385	C4	URI	706	176.973	128.499	-50.948	1.00	140.23	Al
ATOM	34333	O4	URI	704	178.924	122.043	-56.925	1.00	55.51	Al6S	ATOM	34386	O4	URI	706	177.261	128.953	-52.058	1.00	140.23	Al
ATOM	34334	C1	URI	704	178.393	121.501	-58.172	1.00	58.88	Al6S	ATOM	34387	C5	URI	706	177.802	127.653	-50.141	1.00	140.23	Al
ATOM	34335	N9	URI	704	178.400	120.185	-58.603	1.00	58.88	Al6S	ATOM	34388	C2	URI	706	174.067	126.448	-47.243	1.00	127.78	Al
ATOM	34336	C4	URI	704	178.919	119.125	-57.943	1.00	58.88	Al6S	ATOM	34389	O2	URI	706	173.546	126.665	-45.943	1.00	127.78	Al
ATOM	34337	N3	URI	704	178.770	117.998	-58.632	1.00	58.88	Al6S	ATOM	34390	C3	URI	706	174.075	124.975	-47.624	1.00	127.78	Al
ATOM	34338	C2	URI	704	179.239	116.842	-58.152	1.00	58.88	Al6S	ATOM	34391	O3	URI	706	172.902	124.310	-47.192	1.00	127.78	Al
ATOM	34339	N1	URI	704	177.651	117.920	-59.855	1.00	58.88	Al6S	ATOM	34392	P	URI	707	172.232	123.183	-48.126	1.00	52.15	Al
ATOM	34340	C6	URI	704	178.104	118.994	-60.546	1.00	58.88	Al6S	ATOM	34393	O1P	URI	707	170.774	123.213	-47.849	1.00	53.18	Al
ATOM	34341	O6	URI	704	177.052	118.812	-61.647	1.00	58.88	Al6S	ATOM	34394	O2P	URI	707	172.987	121.911	-47.925	1.00	53.18	Al
ATOM	34342	O6	URI	704	177.770	120.204	-59.833	1.00	58.88	Al6S	ATOM	34395	O5	URI	707	172.426	123.678	-49.632	1.00	52.15	Al
ATOM	34343	C5	URI	704	177.385	121.494	-60.169	1.00	58.88	Al6S	ATOM	34396	C5	URI	707	171.703	124.811	-50.143	1.00	52.15	Al
ATOM	34344	N7	URI	704	180.272	122.745	-57.120	1.00	55.51	Al6S	ATOM	34397	C4	URI	707	172.241	124.570	-51.573	1.00	52.15	Al
ATOM	34345	C8	URI	704	180.771	122.225	-59.160	1.00	58.88	Al6S	ATOM	34398	O4	URI	707	172.383	124.214	-52.397	1.00	52.15	Al
ATOM	34346	C2	URI	704	181.340	121.839	-56.909	1.00	55.51	Al6S	ATOM	34399	C1	URI	707	171.979	123.333	-53.440	1.00	52.15	Al
ATOM	34347	O2	URI	704	180.235	123.841	-56.826	1.00	55.51	Al6S	ATOM	34400	N9	URI	707	172.646	122.041	-53.260	1.00	53.18	Al
ATOM	34348	C3	URI	704	180.731	123.342	-54.826	1.00	55.51	Al6S	ATOM	34401	C4	URI	707	172.550	120.937	-54.285	1.00	53.18	Al
ATOM	34349	O3	URI	704	181.426	124.346	-53.794	1.00	80.06	Al6S	ATOM	34402	N3	URI	707	171.862	120.860	-55.246	1.00	53.18	Al
ATOM	34350	P	URI	705	181.998	125.479	-54.541	1.00	44.15	Al6S	ATOM	34403	C2	URI	707	171.955	119.656	-55.798	1.00	53.18	Al
ATOM	34351	O1P	URI	705	182.276	123.556	-52.884	1.00	44.15	Al6S	ATOM	34404	N2	URI	707	171.359	119.402	-56.975	1.00	53.18	Al
ATOM	34352	O2P	URI	705	180.215	124.958	-52.974	1.00	80.06	Al6S	ATOM	34405	N1	URI	707	172.645	118.616	-55.243	1.00	53.18	Al
ATOM	34353	C5	URI	705	179.360	124.124	-52.192	1.00	80.06	Al6S	ATOM	34406	C6	URI	707	173.357	118.677	-54.053	1.00	53.18	Al
ATOM	34354	C5	URI	705	178.062	124.834	-51.931	1.00	80.06	Al6S	ATOM	34407	O6	URI	707	173.947	117.683	-53.641	1.00	53.18	Al
ATOM	34355	C4	URI	705	177.413	125.166	-53.043	1.00	80.06	Al6S	ATOM	34408	C5	URI	707	173.286	119.955	-53.462	1.00	53.18	Al
ATOM	34356	O4	URI	705	176.013	125.035	-53.043	1.00	80.06	Al6S	ATOM	34409	N7	URI	707	173.859	120.432	-52.293	1.00	53.18	Al
ATOM	34357	C1	URI	705	175.528	124.172	-54.121	1.00	44.15	Al6S	ATOM	34410	C8	URI	707	173.459	121.670	-52.327	1.00	53.18	Al
ATOM	34358	N9	URI	705	175.878	122.865	-54.349	1.00	44.15	Al6S	ATOM	34411	C2	URI	707	170.467	123.179	-53.397	1.00	52.15	Al
ATOM	34359	C4	URI	705	176.699	122.106	-53.609	1.00	44.15	Al6S	ATOM	34412	O2	URI	707	169.844	124.122	-54.177	1.00	52.15	Al
ATOM	34360	N3	URI	705	176.814	120.904	-54.145	1.00	44.15	Al6S	ATOM	34413	C3	URI	707	170.241	123.453	-51.844	1.00	52.15	Al
ATOM	34361	C2	URI	705	176.250	120.413	-55.256	1.00	44.15	Al6S	ATOM	34414	O3	URI	707	168.872	123.770	-51.569	1.00	52.15	Al
ATOM	34362	N1	URI	705						Al6S	ATOM	34415	P	URI	708	167.833	122.570	-51.250	1.00	48.26	Al

ATOM	34416	OLP	GUA	708	166.491	123.150	-51.010	1.00	35.96	Al6S	ATOM	34469	C2	GUA	710	166.154	108.856	-50.535	1.00	32.49	Al6
ATOM	34417	OLP	GUA	708	168.437	121.676	-50.227	1.00	35.96	Al6S	ATOM	34470	N2	GUA	710	166.657	107.642	-49.287	1.00	32.49	Al6
ATOM	34418	OLP	GUA	708	167.722	121.760	-52.615	1.00	48.26	Al6S	ATOM	34471	N1	GUA	710	166.510	109.837	-50.650	1.00	32.49	Al6
ATOM	34419	C5	GUA	708	167.144	122.371	-53.778	1.00	48.26	Al6S	ATOM	34472	C6	GUA	710	166.120	111.163	-49.739	1.00	32.49	Al6
ATOM	34420	C4	GUA	708	167.071	121.379	-54.911	1.00	48.26	Al6S	ATOM	34473	C6	GUA	710	166.465	111.963	-48.861	1.00	32.49	Al6
ATOM	34421	C1	GUA	708	168.405	120.886	-55.201	1.00	48.26	Al6S	ATOM	34474	C5	GUA	710	165.311	111.357	-50.890	1.00	32.49	Al6
ATOM	34422	C1	GUA	708	168.336	119.528	-55.594	1.00	48.26	Al6S	ATOM	34475	N7	GUA	710	164.744	112.567	-51.370	1.00	32.49	Al6
ATOM	34423	N9	GUA	708	169.055	118.725	-54.611	1.00	35.96	Al6S	ATOM	34476	C8	GUA	710	164.061	112.192	-52.416	1.00	32.49	Al6
ATOM	34424	C4	GUA	708	169.319	117.380	-54.712	1.00	35.96	Al6S	ATOM	34477	C2	GUA	710	162.141	109.423	-52.992	1.00	42.53	Al6
ATOM	34425	N3	GUA	708	168.984	116.579	-55.752	1.00	35.96	Al6S	ATOM	34478	C2	GUA	710	161.898	108.183	-53.620	1.00	42.53	Al6
ATOM	34426	C2	GUA	708	169.372	115.325	-55.555	1.00	35.96	Al6S	ATOM	34479	C3	GUA	710	161.049	110.443	-53.284	1.00	42.53	Al6
ATOM	34427	N2	GUA	708	169.147	114.396	-56.492	1.00	35.96	Al6S	ATOM	34480	C3	GUA	710	159.743	109.878	-53.270	1.00	42.53	Al6
ATOM	34428	N1	GUA	708	170.013	114.894	-54.427	1.00	35.96	Al6S	ATOM	34481	P	ADE	711	158.697	110.296	-52.104	1.00	44.47	Al6
ATOM	34429	C6	GUA	708	170.361	115.698	-53.350	1.00	35.96	Al6S	ATOM	34482	OLP	ADE	711	157.407	109.579	-52.365	1.00	31.43	Al6
ATOM	34430	C6	GUA	708	170.928	115.204	-52.389	1.00	35.96	Al6S	ATOM	34483	OLP	ADE	711	158.691	111.782	-51.897	1.00	31.43	Al6
ATOM	34431	C5	GUA	708	169.974	117.048	-53.550	1.00	35.96	Al6S	ATOM	34484	C5	ADE	711	159.300	109.643	-50.792	1.00	44.47	Al6
ATOM	34432	N7	GUA	708	170.145	118.165	-52.744	1.00	35.96	Al6S	ATOM	34485	C5	ADE	711	158.644	109.818	-49.544	1.00	44.47	Al6
ATOM	34433	C8	GUA	708	169.584	119.135	-53.411	1.00	35.96	Al6S	ATOM	34486	C4	ADE	711	159.066	108.737	-48.608	1.00	44.47	Al6
ATOM	34434	C2	GUA	708	166.865	119.135	-55.641	1.00	48.26	Al6S	ATOM	34487	OLP	ADE	711	158.512	107.485	-49.054	1.00	44.47	Al6
ATOM	34435	OLP	GUA	708	166.383	119.313	-56.958	1.00	48.26	Al6S	ATOM	34488	C1	ADE	711	159.452	106.450	-48.862	1.00	44.47	Al6
ATOM	34436	C3	GUA	708	166.268	120.119	-54.647	1.00	48.26	Al6S	ATOM	34489	N9	ADE	711	159.728	105.862	-50.171	1.00	31.43	Al6
ATOM	34437	OLP	GUA	708	164.878	120.303	-54.829	1.00	48.26	Al6S	ATOM	34490	C4	ADE	711	160.062	103.555	-50.437	1.00	31.43	Al6
ATOM	34438	P	CYT	709	163.855	119.348	-54.044	1.00	46.55	Al6S	ATOM	34491	N3	ADE	711	160.222	103.552	-49.555	1.00	31.43	Al6
ATOM	34439	OLP	CYT	709	162.468	119.742	-54.423	1.00	45.45	Al6S	ATOM	34492	C2	ADE	711	160.516	102.418	-50.181	1.00	31.43	Al6
ATOM	34440	OLP	CYT	709	164.241	119.306	-52.608	1.00	45.45	Al6S	ATOM	34493	N1	ADE	711	160.660	102.189	-51.490	1.00	31.43	Al6
ATOM	34441	OLP	CYT	709	164.119	117.922	-54.696	1.00	46.55	Al6S	ATOM	34494	C6	ADE	711	160.500	103.227	-52.346	1.00	31.43	Al6
ATOM	34442	C5	CYT	709	163.778	117.701	-56.059	1.00	46.55	Al6S	ATOM	34495	N6	ADE	711	160.646	103.018	-53.649	1.00	31.43	Al6
ATOM	34443	C4	CYT	709	163.927	116.256	-56.410	1.00	46.55	Al6S	ATOM	34496	C5	ADE	711	160.185	104.474	-51.810	1.00	31.43	Al6
ATOM	34444	OLP	CYT	709	165.324	115.895	-56.397	1.00	46.55	Al6S	ATOM	34497	N7	ADE	711	159.947	105.704	-52.405	1.00	31.43	Al6
ATOM	34445	C1	CYT	709	165.462	114.543	-56.000	1.00	46.55	Al6S	ATOM	34498	C8	ADE	711	159.686	106.494	-51.393	1.00	31.43	Al6
ATOM	34446	N1	CYT	709	166.208	114.489	-54.725	1.00	45.45	Al6S	ATOM	34499	C2	ADE	711	160.677	107.060	-48.189	1.00	44.47	Al6
ATOM	34447	C6	CYT	709	166.418	115.612	-53.974	1.00	45.45	Al6S	ATOM	34500	OLP	ADE	711	160.572	106.925	-46.760	1.00	44.47	Al6
ATOM	34448	C2	CYT	709	166.669	113.253	-54.279	1.00	45.45	Al6S	ATOM	34501	C3	ADE	711	160.553	108.509	-48.609	1.00	44.47	Al6
ATOM	34449	OLP	CYT	709	166.504	112.263	-54.994	1.00	45.45	Al6S	ATOM	34502	OLP	ADE	711	161.218	109.403	-47.753	1.00	44.47	Al6
ATOM	34450	N3	CYT	709	167.462	114.261	-52.348	1.00	45.45	Al6S	ATOM	34503	P	ADE	712	162.729	109.994	-48.091	1.00	36.25	Al6
ATOM	34451	C4	CYT	709	168.053	114.120	-51.162	1.00	45.45	Al6S	ATOM	34504	OLP	ADE	712	163.108	110.934	-47.188	1.00	35.92	Al6
ATOM	34452	N4	CYT	709	167.035	115.543	-52.791	1.00	45.45	Al6S	ATOM	34505	OLP	ADE	712	162.827	109.994	-49.566	1.00	35.92	Al6
ATOM	34453	C5	CYT	709	164.054	113.993	-55.820	1.00	46.55	Al6S	ATOM	34506	OLP	ADE	712	163.545	108.501	-47.668	1.00	36.25	Al6
ATOM	34454	C2	CYT	709	163.626	113.489	-57.064	1.00	46.55	Al6S	ATOM	34507	C5	ADE	712	163.731	108.224	-46.285	1.00	36.25	Al6
ATOM	34455	C3	CYT	709	163.226	113.256	-55.469	1.00	46.55	Al6S	ATOM	34508	C4	ADE	712	164.154	106.807	-46.064	1.00	36.25	Al6
ATOM	34456	C3	CYT	709	161.902	115.124	-55.656	1.00	46.55	Al6S	ATOM	34509	OLP	ADE	712	163.202	105.912	-46.672	1.00	36.25	Al6
ATOM	34457	P	GUA	710	160.976	114.817	-54.385	1.00	32.49	Al6S	ATOM	34510	C1	ADE	712	163.854	104.716	-47.059	1.00	36.25	Al6
ATOM	34458	OLP	GUA	710	159.561	114.382	-54.795	1.00	32.49	Al6S	ATOM	34511	N9	ADE	712	163.745	104.570	-48.510	1.00	35.92	Al6
ATOM	34459	OLP	GUA	710	161.260	113.278	-54.093	1.00	42.53	Al6S	ATOM	34512	C4	ADE	712	163.937	103.387	-49.199	1.00	35.92	Al6
ATOM	34460	C5	GUA	710	160.922	112.288	-55.069	1.00	42.53	Al6S	ATOM	34513	N3	ADE	712	163.995	102.156	-48.682	1.00	35.92	Al6
ATOM	34461	C5	GUA	710	161.446	110.977	-54.659	1.00	42.53	Al6S	ATOM	34514	C2	ADE	712	164.066	101.246	-49.651	1.00	35.92	Al6
ATOM	34462	C4	GUA	710	162.896	110.940	-54.620	1.00	42.53	Al6S	ATOM	34515	N1	ADE	712	163.875	102.663	-51.466	1.00	35.92	Al6
ATOM	34463	C4	GUA	710	163.369	110.082	-53.631	1.00	42.53	Al6S	ATOM	34516	C6	ADE	712	163.878	102.825	-52.788	1.00	35.92	Al6
ATOM	34464	C1	GUA	710	164.125	110.841	-52.641	1.00	32.49	Al6S	ATOM	34517	C5	ADE	712	163.752	103.719	-50.535	1.00	35.92	Al6
ATOM	34465	N9	GUA	710	164.984	110.331	-51.697	1.00	32.49	Al6S	ATOM	34519	N7	ADE	712	163.565	105.087	-50.686	1.00	35.92	Al6
ATOM	34466	C4	GUA	710	165.369	109.047	-51.586	1.00	32.49	Al6S	ATOM	34520	C8	ADE	712	163.568	105.543	-49.459	1.00	35.92	Al6
ATOM	34467	N3	GUA	710							ATOM	34521	C2	ADE	712	165.312	104.853	-46.643	1.00	36.25	Al6

ATOM	34522	02' ADE	712	165.421	104.308	-45.353	1.00	36.25	Al6S	ATOM	34575	C5' CYT	715	172.619	106.170	-56.150	1.00	49.19	AlE
ATOM	34523	03' ADE	712	165.474	106.364	-46.639	1.00	36.25	Al6S	ATOM	34576	C4' CYT	715	171.900	107.218	-56.940	1.00	49.19	AlE
ATOM	34524	03' ADE	712	166.570	106.806	-45.869	1.00	36.25	Al6S	ATOM	34577	04' CYT	715	170.945	107.895	-56.091	1.00	49.19	AlE
ATOM	34525	P GUA	713	167.929	107.200	-46.622	1.00	35.52	Al6S	ATOM	34578	C1' CYT	715	170.886	109.268	-56.446	1.00	49.19	AlE
ATOM	34526	01P GUA	713	168.916	107.717	-45.641	1.00	37.35	Al6S	ATOM	34579	N1 CYT	715	171.191	110.087	-55.262	1.00	37.77	AlE
ATOM	34527	02P GUA	713	167.562	108.044	-47.789	1.00	37.35	Al6S	ATOM	34580	C6 CYT	715	171.815	109.554	-55.276	1.00	37.77	AlE
ATOM	34528	05' GUA	713	168.443	105.778	-47.122	1.00	35.52	Al6S	ATOM	34581	C2 CYT	715	170.835	111.435	-55.276	1.00	37.77	AlE
ATOM	34529	C5' GUA	713	168.850	104.785	-46.164	1.00	35.52	Al6S	ATOM	34582	O2 CYT	715	170.227	111.883	-56.252	1.00	37.77	AlE
ATOM	34530	C4' GUA	713	169.142	103.468	-46.846	1.00	35.52	Al6S	ATOM	34583	N3 CYT	715	171.151	112.217	-54.228	1.00	37.77	AlE
ATOM	34531	C4' GUA	713	167.937	103.026	-47.510	1.00	35.52	Al6S	ATOM	34584	C4 CYT	715	171.782	111.695	-53.185	1.00	37.77	AlE
ATOM	34532	C1' GUA	713	168.270	102.393	-48.733	1.00	35.52	Al6S	ATOM	34585	N4 CYT	715	172.100	112.511	-52.188	1.00	37.77	AlE
ATOM	34533	N9 GUA	713	167.797	103.247	-49.814	1.00	37.35	Al6S	ATOM	34586	C5 CYT	715	172.123	110.314	-53.122	1.00	37.77	AlE
ATOM	34534	C4 GUA	713	167.872	102.967	-49.147	1.00	37.35	Al6S	ATOM	34587	C2' CYT	715	171.847	109.497	-57.613	1.00	49.19	AlE
ATOM	34535	N3 GUA	713	168.362	101.838	-51.682	1.00	37.35	Al6S	ATOM	34588	O2' CYT	715	171.104	109.446	-58.812	1.00	49.19	AlE
ATOM	34536	C2 GUA	713	168.346	101.866	-52.995	1.00	37.35	Al6S	ATOM	34589	C3' CYT	715	172.805	108.321	-57.454	1.00	49.19	AlE
ATOM	34537	N2 GUA	713	168.816	100.820	-53.673	1.00	37.35	Al6S	ATOM	34590	O3' CYT	715	173.430	107.908	-58.655	1.00	49.19	AlE
ATOM	34538	N1 GUA	713	167.871	102.917	-53.734	1.00	37.35	Al6S	ATOM	34591	P ADE	716	174.941	108.336	-58.959	1.00	64.05	AlE
ATOM	34539	C6 GUA	713	167.347	104.088	-53.207	1.00	37.35	Al6S	ATOM	34592	01P ADE	716	175.537	107.182	-59.658	1.00	42.46	AlE
ATOM	34540	O6 GUA	713	166.925	104.972	-53.966	1.00	37.35	Al6S	ATOM	34593	02P ADE	716	175.609	108.886	-57.767	1.00	42.46	AlE
ATOM	34541	C5 GUA	713	167.375	104.075	-51.784	1.00	37.35	Al6S	ATOM	34594	O5' ADE	716	174.750	109.524	-59.988	1.00	64.05	AlE
ATOM	34542	N7 GUA	713	166.970	105.031	-50.861	1.00	37.35	Al6S	ATOM	34595	C5' ADE	716	175.865	110.174	-60.583	1.00	64.05	AlE
ATOM	34543	C8 GUA	713	167.230	104.493	-49.706	1.00	37.35	Al6S	ATOM	34596	C4' ADE	716	175.537	111.615	-60.761	1.00	64.05	AlE
ATOM	34544	C2' GUA	713	169.791	102.276	-48.786	1.00	35.52	Al6S	ATOM	34597	O4' ADE	716	175.356	112.208	-59.467	1.00	64.05	AlE
ATOM	34545	O2' GUA	713	170.144	101.042	-48.204	1.00	35.52	Al6S	ATOM	34598	C1' ADE	716	175.443	113.595	-59.619	1.00	64.05	AlE
ATOM	34546	C3' GUA	713	170.212	103.464	-47.933	1.00	35.52	Al6S	ATOM	34599	N9 ADE	716	175.981	114.219	-58.442	1.00	42.46	AlE
ATOM	34547	O3' GUA	713	171.513	103.282	-47.400	1.00	35.52	Al6S	ATOM	34600	C4 ADE	716	175.835	115.559	-58.174	1.00	42.46	AlE
ATOM	34548	P GUA	714	172.656	104.372	-47.701	1.00	43.06	Al6S	ATOM	34601	N3 ADE	716	175.242	116.463	-58.973	1.00	42.46	AlE
ATOM	34549	01P GUA	714	173.938	103.623	-47.694	1.00	41.33	Al6S	ATOM	34602	C2 ADE	716	175.239	117.656	-58.401	1.00	42.46	AlE
ATOM	34550	O2P GUA	714	172.366	104.921	-49.169	1.00	43.06	Al6S	ATOM	34603	N1 ADE	716	175.728	118.024	-57.211	1.00	42.46	AlE
ATOM	34551	O5' GUA	714	172.366	104.921	-49.169	1.00	43.06	Al6S	ATOM	34604	C6 ADE	716	176.324	117.089	-56.435	1.00	42.46	AlE
ATOM	34552	C5' GUA	714	172.680	104.138	-50.316	1.00	43.06	Al6S	ATOM	34605	N6 ADE	716	176.811	117.461	-55.244	1.00	42.46	AlE
ATOM	34553	C4' GUA	714	171.778	104.509	-51.461	1.00	43.06	Al6S	ATOM	34606	C5 ADE	716	176.389	115.577	-56.931	1.00	42.46	AlE
ATOM	34554	O4' GUA	714	170.566	105.106	-50.932	1.00	43.06	Al6S	ATOM	34607	N7 ADE	716	176.904	114.597	-56.408	1.00	42.46	AlE
ATOM	34555	C1' GUA	714	170.079	106.086	-51.838	1.00	43.06	Al6S	ATOM	34608	C8 ADE	716	176.647	113.704	-57.337	1.00	42.46	AlE
ATOM	34556	N9 GUA	714	170.089	107.395	-51.184	1.00	41.33	Al6S	ATOM	34609	C2' ADE	716	176.171	113.900	-60.923	1.00	64.05	AlE
ATOM	34557	C4 GUA	714	169.522	108.541	-51.675	1.00	41.33	Al6S	ATOM	34610	O2' ADE	716	176.200	114.568	-61.719	1.00	64.05	AlE
ATOM	34558	N3 GUA	714	168.869	108.657	-52.843	1.00	41.33	Al6S	ATOM	34611	C3' ADE	716	176.573	112.500	-61.419	1.00	64.05	AlE
ATOM	34559	C2 GUA	714	168.446	109.885	-53.051	1.00	41.33	Al6S	ATOM	34612	O3' ADE	716	176.344	112.442	-62.825	1.00	64.05	AlE
ATOM	34560	N2 GUA	714	167.813	110.179	-54.182	1.00	41.33	Al6S	ATOM	34613	P GUA	717	177.291	111.567	-63.773	1.00	47.78	AlE
ATOM	34561	N1 GUA	714	168.624	110.920	-52.171	1.00	41.33	Al6S	ATOM	34614	01P GUA	717	176.401	110.601	-64.470	1.00	48.68	AlE
ATOM	34562	C6 GUA	714	169.293	110.826	-50.954	1.00	41.33	Al6S	ATOM	34615	O2P GUA	717	178.445	111.072	-64.980	1.00	48.68	AlE
ATOM	34563	O6 GUA	714	169.400	111.831	-50.220	1.00	41.33	Al6S	ATOM	34616	O5' GUA	717	177.783	112.608	-64.869	1.00	47.78	AlE
ATOM	34564	C5 GUA	714	169.776	109.508	-50.732	1.00	41.33	Al6S	ATOM	34617	C5' GUA	717	178.266	113.911	-64.501	1.00	47.78	AlE
ATOM	34565	N7 GUA	714	170.499	108.986	-49.674	1.00	41.33	Al6S	ATOM	34618	C4' GUA	717	178.848	114.590	-65.711	1.00	47.78	AlE
ATOM	34566	C8 GUA	714	170.660	107.731	-49.982	1.00	43.06	Al6S	ATOM	34619	O4' GUA	717	179.928	113.766	-66.203	1.00	47.78	AlE
ATOM	34567	C2' GUA	714	170.993	106.065	-53.057	1.00	43.06	Al6S	ATOM	34620	C1' GUA	717	179.849	113.664	-67.613	1.00	47.78	AlE
ATOM	34568	O2' GUA	714	170.422	105.184	-54.005	1.00	43.06	Al6S	ATOM	34621	N9 GUA	717	179.561	112.269	-67.937	1.00	48.68	AlE
ATOM	34569	C3' GUA	714	172.290	105.546	-52.444	1.00	43.06	Al6S	ATOM	34622	C4 GUA	717	179.457	111.721	-69.190	1.00	48.68	AlE
ATOM	34570	O3' GUA	714	173.159	104.984	-53.412	1.00	43.06	Al6S	ATOM	34623	N3 GUA	717	179.598	112.381	-70.358	1.00	48.68	AlE
ATOM	34571	P CYT	715	174.258	105.913	-54.130	1.00	49.19	Al6S	ATOM	34624	C2 GUA	717	179.452	111.588	-71.394	1.00	48.68	AlE
ATOM	34572	01P CYT	715	175.135	105.019	-54.903	1.00	37.77	Al6S	ATOM	34625	N2 GUA	717	179.571	112.086	-72.620	1.00	48.68	AlE
ATOM	34573	02P CYT	715	174.841	106.840	-53.147	1.00	37.77	Al6S	ATOM	34626	N1 GUA	717	179.179	110.246	-71.303	1.00	48.68	AlE
ATOM	34574	O5' CYT	715	173.432	106.792	-55.157	1.00	49.19	Al6S	ATOM	34627	C6 GUA	717	179.023	109.538	-70.112	1.00	48.68	AlE

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ATOM	34628	06	GUA	717	178.773	108.313	-70.135	1.00	48.68	Al6S	ATOM	34681	C4'	ADE	720	167.191	111.860	-77.461	1.00	51.37	Al1
ATOM	34629	05	GUA	717	179.185	110.386	-68.984	1.00	48.68	Al6S	ATOM	34682	O4'	ADE	720	168.309	111.054	-77.023	1.00	51.37	Al1
ATOM	34630	N7	GUA	717	179.114	110.101	-67.629	1.00	48.68	Al6S	ATOM	34683	C1'	ADE	720	167.841	109.791	-76.582	1.00	51.37	Al1
ATOM	34631	C8	GUA	717	179.343	111.244	-67.048	1.00	48.68	Al6S	ATOM	34684	N9	ADE	720	168.243	109.605	-75.188	1.00	49.13	Al1
ATOM	34632	C2'	GUA	717	178.772	114.640	-68.086	1.00	47.78	Al6S	ATOM	34685	C4	ADE	720	168.260	108.407	-74.509	1.00	49.13	Al1
ATOM	34633	O2'	GUA	717	179.369	115.889	-68.364	1.00	47.78	Al6S	ATOM	34686	N3	ADE	720	167.906	107.198	-74.975	1.00	49.13	Al1
ATOM	34634	C3'	GUA	717	177.867	114.707	-66.867	1.00	47.78	Al6S	ATOM	34687	C2	ADE	720	168.057	106.264	-74.034	1.00	49.13	Al1
ATOM	34635	O3'	GUA	717	177.140	115.935	-66.793	1.00	47.78	Al6S	ATOM	34688	N1	ADE	720	168.490	106.392	-72.777	1.00	49.13	Al1
ATOM	34636	P	CYT	718	175.577	115.966	-67.187	1.00	51.06	Al6S	ATOM	34689	C6	ADE	720	168.835	107.624	-72.340	1.00	49.13	Al1
ATOM	34637	02P	CYT	718	175.048	117.312	-66.801	1.00	42.52	Al6S	ATOM	34690	N6	ADE	720	169.259	107.760	-71.086	1.00	49.13	Al1
ATOM	34638	02P	CYT	718	174.932	114.729	-66.658	1.00	42.52	Al6S	ATOM	34691	C5	ADE	720	168.720	108.700	-73.242	1.00	49.13	Al1
ATOM	34639	O5'	CYT	718	175.573	115.831	-68.773	1.00	51.06	Al6S	ATOM	34692	N7	ADE	720	168.979	110.060	-73.115	1.00	49.13	Al1
ATOM	34640	O5'	CYT	718	176.156	116.832	-69.614	1.00	51.06	Al6S	ATOM	34693	C8	ADE	720	168.678	110.550	-74.294	1.00	49.13	Al1
ATOM	34641	C4'	CYT	718	176.185	116.330	-71.026	1.00	51.06	Al6S	ATOM	34694	C2'	ADE	720	166.323	109.775	-76.746	1.00	51.37	Al1
ATOM	34642	O4'	CYT	718	177.058	115.173	-71.077	1.00	51.06	Al6S	ATOM	34695	O2'	ADE	720	165.966	109.161	-77.972	1.00	51.37	Al1
ATOM	34643	C1'	CYT	718	176.535	114.210	-71.978	1.00	51.06	Al6S	ATOM	34696	C3'	ADE	720	166.006	111.260	-76.721	1.00	51.37	Al1
ATOM	34644	N1	CYT	718	176.252	112.960	-71.243	1.00	42.52	Al6S	ATOM	34697	O3'	ADE	720	164.751	111.539	-77.316	1.00	51.37	Al1
ATOM	34645	C6	CYT	718	176.065	112.960	-69.891	1.00	42.52	Al6S	ATOM	34698	P	CYT	721	163.446	111.640	-76.383	1.00	49.21	Al1
ATOM	34646	C2	CYT	718	176.176	111.753	-71.967	1.00	42.52	Al6S	ATOM	34699	O1P	CYT	721	163.848	112.373	-77.142	1.00	45.54	Al1
ATOM	34647	O2	CYT	718	176.359	111.770	-73.202	1.00	42.52	Al6S	ATOM	34700	O2P	CYT	721	162.407	110.128	-76.046	1.00	45.54	Al1
ATOM	34648	N3	CYT	718	175.911	110.603	-71.306	1.00	42.52	Al6S	ATOM	34701	O5'	CYT	721	162.989	110.128	-76.189	1.00	49.21	Al1
ATOM	34649	C4	CYT	718	175.733	110.621	-69.991	1.00	42.52	Al6S	ATOM	34702	C5'	CYT	721	162.743	109.285	-77.313	1.00	49.21	Al1
ATOM	34650	N4	CYT	718	175.476	109.467	-69.389	1.00	42.52	Al6S	ATOM	34703	O4'	CYT	721	162.701	107.474	-76.873	1.00	49.21	Al1
ATOM	34651	C5	CYT	718	175.811	111.825	-69.234	1.00	42.52	Al6S	ATOM	34704	C4'	CYT	721	164.003	107.474	-76.359	1.00	49.21	Al1
ATOM	34652	C2'	CYT	718	175.276	114.797	-72.602	1.00	51.06	Al6S	ATOM	34705	C1'	CYT	721	163.849	106.570	-75.273	1.00	49.21	Al1
ATOM	34653	O2'	CYT	718	175.606	115.369	-73.853	1.00	51.06	Al6S	ATOM	34706	N1	CYT	721	164.465	107.153	-74.056	1.00	45.54	Al1
ATOM	34654	C3'	CYT	718	174.854	115.798	-71.534	1.00	51.06	Al6S	ATOM	34707	C6	CYT	721	164.657	108.594	-73.933	1.00	45.54	Al1
ATOM	34655	O3'	CYT	718	173.972	116.802	-72.008	1.00	51.06	Al6S	ATOM	34708	C2	CYT	721	164.837	106.621	-73.008	1.00	45.54	Al1
ATOM	34656	P	CYT	719	172.407	116.471	-72.132	1.00	51.27	Al6S	ATOM	34709	O2	CYT	721	164.725	105.063	-73.169	1.00	45.54	Al1
ATOM	34657	O1P	CYT	719	171.753	117.691	-72.661	1.00	45.55	Al6S	ATOM	34710	N3	CYT	721	165.322	106.815	-71.860	1.00	45.54	Al1
ATOM	34658	O2P	CYT	719	171.917	115.865	-70.871	1.00	45.55	Al6S	ATOM	34711	C4	CYT	721	165.475	108.133	-71.744	1.00	45.54	Al1
ATOM	34659	O5'	CYT	719	172.351	115.335	-73.240	1.00	51.27	Al6S	ATOM	34712	N4	CYT	721	165.928	108.606	-70.587	1.00	45.54	Al1
ATOM	34660	C5'	CYT	719	172.708	115.618	-74.599	1.00	51.27	Al6S	ATOM	34713	C5	CYT	721	165.161	109.029	-72.809	1.00	49.21	Al1
ATOM	34661	C4'	CYT	719	172.335	114.459	-75.483	1.00	51.27	Al6S	ATOM	34714	C2'	CYT	721	162.355	106.296	-75.105	1.00	49.21	Al1
ATOM	34662	O4'	CYT	719	173.188	113.325	-75.191	1.00	51.27	Al6S	ATOM	34715	O2'	CYT	721	162.033	105.105	-75.787	1.00	49.21	Al1
ATOM	34663	C1'	CYT	719	172.465	112.119	-75.377	1.00	45.55	Al6S	ATOM	34716	C3'	CYT	721	161.741	107.538	-75.736	1.00	49.21	Al1
ATOM	34664	N1	CYT	719	172.499	111.332	-74.137	1.00	45.55	Al6S	ATOM	34717	O3'	CYT	721	160.415	107.321	-76.199	1.00	49.21	Al1
ATOM	34665	C6	CYT	719	172.819	111.905	-72.940	1.00	45.55	Al6S	ATOM	34718	P	CYT	722	159.170	107.740	-75.264	1.00	66.28	Al1
ATOM	34666	C2	CYT	719	172.177	109.968	-74.204	1.00	45.55	Al6S	ATOM	34719	O1P	CYT	722	157.913	107.522	-76.040	1.00	50.34	Al1
ATOM	34667	O2	CYT	719	171.900	109.467	-75.311	1.00	45.55	Al6S	ATOM	34720	O2P	CYT	722	159.443	109.078	-74.668	1.00	50.34	Al1
ATOM	34668	N3	CYT	719	172.172	109.230	-73.066	1.00	45.55	Al6S	ATOM	34721	O5'	CYT	722	159.207	106.659	-74.101	1.00	66.28	Al1
ATOM	34669	C4	CYT	719	172.480	109.804	-71.903	1.00	45.55	Al6S	ATOM	34722	C5'	CYT	722	158.959	105.286	-74.398	1.00	66.28	Al1
ATOM	34670	N4	CYT	719	172.465	109.042	-70.809	1.00	45.55	Al6S	ATOM	34723	C4'	CYT	722	159.184	104.443	-73.180	1.00	66.28	Al1
ATOM	34671	C5	CYT	719	172.820	111.189	-71.811	1.00	45.55	Al6S	ATOM	34724	O4'	CYT	722	160.592	104.425	-72.843	1.00	66.28	Al1
ATOM	34672	O2'	CYT	719	171.042	112.483	-75.787	1.00	51.27	Al6S	ATOM	34725	C1'	CYT	722	160.738	104.312	-71.438	1.00	66.28	Al1
ATOM	34673	C2'	CYT	719	170.936	112.352	-77.189	1.00	51.27	Al6S	ATOM	34726	N1	CYT	722	161.415	105.510	-70.922	1.00	50.34	Al1
ATOM	34674	C3'	CYT	719	170.936	113.916	-75.274	1.00	51.27	Al6S	ATOM	34727	C6	CYT	722	161.544	106.635	-71.685	1.00	50.34	Al1
ATOM	34675	O3'	CYT	719	169.950	114.636	-75.921	1.00	51.27	Al6S	ATOM	34728	O2	CYT	722	161.913	104.484	-69.611	1.00	50.34	Al1
ATOM	34676	P	ADE	720	168.487	114.798	-75.268	1.00	49.13	Al6S	ATOM	34729	C2	CYT	722	161.782	104.446	-68.939	1.00	50.34	Al1
ATOM	34677	O1P	ADE	720	167.805	116.007	-75.829	1.00	49.13	Al6S	ATOM	34730	N3	CYT	722	162.515	106.585	-69.111	1.00	50.34	Al1
ATOM	34678	O2P	ADE	720	168.647	114.672	-73.793	1.00	49.13	Al6S	ATOM	34731	C4	CYT	722	162.624	107.679	-69.863	1.00	50.34	Al1
ATOM	34679	O5'	ADE	720	167.767	113.478	-75.791	1.00	51.37	Al6S	ATOM	34732	N4	CYT	722	163.214	108.742	-69.332	1.00	50.34	Al1
ATOM	34680	C5'	ADE	720	167.504	113.300	-77.180	1.00	51.37	Al6S	ATOM	34733	C5	CYT	722	162.131	107.732	-71.197	1.00	50.34	Al1

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ATOM	34734	C2' CYT	722	159.338	104.225	-70.844	1.00	66.28	Al6S	ATOM	34787	O4' GUA	725	156.289	109.912	-57.666	1.00	54.03	Al6
ATOM	34735	O2' CYT	722	158.987	102.866	-70.724	1.00	66.28	Al6S	ATOM	34788	C1' GUA	725	156.851	111.179	-57.380	1.00	54.03	Al6
ATOM	34736	C3' CYT	722	158.519	104.927	-71.910	1.00	66.28	Al6S	ATOM	34789	N9 GUA	725	156.878	111.974	-58.605	1.00	45.39	Al6
ATOM	34737	O3' CYT	722	157.150	104.601	-71.834	1.00	66.28	Al6S	ATOM	34790	C4 GUA	725	157.536	113.170	-58.778	1.00	45.39	Al6
ATOM	34738	P URI	723	156.137	105.645	-71.155	1.00	59.68	Al6S	ATOM	34791	N3 GUA	725	158.281	113.805	-57.879	1.00	45.39	Al6
ATOM	34739	O1P URI	723	154.789	105.025	-71.257	1.00	45.83	Al6S	ATOM	34792	C2 GUA	725	158.754	114.951	-58.294	1.00	45.39	Al6
ATOM	34740	O2P URI	723	156.369	107.006	-71.710	1.00	45.83	Al6S	ATOM	34793	N2 GUA	725	159.482	115.727	-57.481	1.00	45.39	Al6
ATOM	34741	O5' URI	723	156.590	105.695	-69.627	1.00	59.68	Al6S	ATOM	34794	N1 GUA	725	158.534	115.423	-59.562	1.00	45.39	Al6
ATOM	34742	C5' URI	723	156.384	104.559	-68.776	1.00	59.68	Al6S	ATOM	34795	C6 GUA	725	157.774	114.782	-60.534	1.00	45.39	Al6
ATOM	34743	C4' URI	723	156.992	104.778	-67.413	1.00	59.68	Al6S	ATOM	34796	O6 GUA	725	157.628	113.300	-61.642	1.00	45.39	Al6
ATOM	34744	C4' URI	723	158.425	104.984	-67.533	1.00	59.68	Al6S	ATOM	34797	C5 GUA	725	157.250	113.562	-60.063	1.00	45.39	Al6
ATOM	34745	C1' URI	723	158.880	105.752	-66.434	1.00	59.68	Al6S	ATOM	34798	N7 GUA	725	156.444	112.628	-60.696	1.00	45.39	Al6
ATOM	34746	N1 URI	723	159.488	107.003	-66.911	1.00	45.83	Al6S	ATOM	34799	C8 GUA	725	156.250	111.705	-59.794	1.00	45.39	Al6
ATOM	34747	C6 URI	723	159.235	107.513	-68.157	1.00	45.83	Al6S	ATOM	34800	C2' GUA	725	155.962	111.841	-56.336	1.00	54.03	Al6
ATOM	34748	C2 URI	723	160.307	107.679	-66.017	1.00	45.83	Al6S	ATOM	34801	O2' GUA	725	156.517	111.568	-55.060	1.00	54.03	Al6
ATOM	34749	O2 URI	723	160.612	107.235	-64.919	1.00	45.83	Al6S	ATOM	34802	C3' GUA	725	154.629	111.151	-56.601	1.00	54.03	Al6
ATOM	34750	N3 URI	723	160.761	108.889	-66.452	1.00	45.83	Al6S	ATOM	34803	O3' GUA	725	153.757	111.200	-55.487	1.00	54.03	Al6
ATOM	34751	C4 URI	723	160.514	109.474	-67.660	1.00	45.83	Al6S	ATOM	34804	P URI	726	152.710	112.411	-55.350	1.00	59.61	Al6
ATOM	34752	O4 URI	723	160.926	110.618	-67.861	1.00	45.83	Al6S	ATOM	34805	O1P URI	726	152.192	112.321	-53.957	1.00	54.20	Al6
ATOM	34753	C5 URI	723	159.707	108.693	-68.553	1.00	45.83	Al6S	ATOM	34806	O2P URI	726	151.764	112.390	-56.497	1.00	54.20	Al6
ATOM	34754	C2' URI	723	157.662	106.091	-65.582	1.00	59.68	Al6S	ATOM	34807	O5' URI	726	153.610	113.719	-55.461	1.00	59.61	Al6
ATOM	34755	O2' URI	723	157.561	105.142	-64.546	1.00	59.68	Al6S	ATOM	34808	C5' URI	726	154.531	114.067	-54.412	1.00	59.61	Al6
ATOM	34756	C3' URI	723	156.535	105.971	-66.595	1.00	59.68	Al6S	ATOM	34809	C4' URI	726	155.161	115.407	-54.695	1.00	59.61	Al6
ATOM	34757	O3' URI	723	155.291	105.780	-65.944	1.00	59.68	Al6S	ATOM	34810	O4' URI	726	155.979	115.309	-55.882	1.00	59.61	Al6
ATOM	34758	P URI	724	154.571	107.036	-65.231	1.00	44.41	Al6S	ATOM	34811	C1' URI	726	155.881	116.509	-56.629	1.00	59.61	Al6
ATOM	34759	O1P GUA	724	153.132	106.688	-65.062	1.00	46.06	Al6S	ATOM	34812	N1 URI	726	155.323	115.192	-57.950	1.00	54.20	Al6
ATOM	34760	O2P GUA	724	154.944	108.298	-65.937	1.00	46.06	Al6S	ATOM	34813	C6 URI	726	154.567	115.065	-58.158	1.00	54.20	Al6
ATOM	34761	O5' GUA	724	155.238	107.058	-63.788	1.00	44.41	Al6S	ATOM	34814	C2 URI	726	155.604	117.064	-58.981	1.00	54.20	Al6
ATOM	34762	C5' GUA	724	155.144	105.912	-62.936	1.00	44.41	Al6S	ATOM	34815	O2 URI	726	156.255	118.085	-58.829	1.00	54.20	Al6
ATOM	34763	C4' GUA	724	155.747	106.208	-61.592	1.00	44.41	Al6S	ATOM	34816	N3 URI	726	154.095	116.699	-60.176	1.00	54.20	Al6
ATOM	34764	O4' GUA	724	157.182	106.399	-61.712	1.00	44.41	Al6S	ATOM	34817	O4 URI	726	154.349	115.578	-60.475	1.00	54.20	Al6
ATOM	34765	C1' GUA	724	157.623	107.333	-60.739	1.00	44.41	Al6S	ATOM	34818	C4 URI	726	153.993	115.365	-61.634	1.00	54.20	Al6
ATOM	34766	N9 GUA	724	158.135	108.518	-61.420	1.00	46.06	Al6S	ATOM	34819	C5 URI	726	154.087	114.737	-59.349	1.00	54.20	Al6
ATOM	34767	C4 GUA	724	158.870	109.531	-60.851	1.00	46.06	Al6S	ATOM	34820	C2' URI	726	155.014	117.484	-55.847	1.00	59.61	Al6
ATOM	34768	N3 GUA	724	159.937	110.716	-59.570	1.00	46.06	Al6S	ATOM	34821	O2' URI	726	155.874	118.330	-55.114	1.00	59.61	Al6
ATOM	34769	C2 GUA	724	160.424	110.939	-58.069	1.00	46.06	Al6S	ATOM	34822	C3' URI	726	154.186	116.530	-54.997	1.00	59.61	Al6
ATOM	34770	N2 GUA	724	160.135	111.718	-60.229	1.00	46.06	Al6S	ATOM	34823	O3' URI	726	153.702	117.121	-53.808	1.00	59.61	Al6
ATOM	34771	N1 GUA	724	159.693	111.687	-61.586	1.00	46.06	Al6S	ATOM	34824	P CYT	727	152.331	117.946	-53.841	1.00	49.33	Al6
ATOM	34772	C6 GUA	724	159.898	112.650	-62.283	1.00	46.06	Al6S	ATOM	34825	O1P CYT	727	151.813	117.933	-52.442	1.00	37.14	Al6
ATOM	34773	O6 GUA	724	159.020	110.477	-61.844	1.00	46.06	Al6S	ATOM	34826	O2P CYT	727	151.483	117.408	-54.938	1.00	37.14	Al6
ATOM	34774	C5 GUA	724	158.433	110.049	-63.023	1.00	46.06	Al6S	ATOM	34827	O5' CYT	727	152.804	119.421	-54.236	1.00	49.33	Al6
ATOM	34775	N7 GUA	724	157.932	108.879	-62.730	1.00	46.06	Al6S	ATOM	34828	C5' CYT	727	153.829	120.096	-53.477	1.00	49.33	Al6
ATOM	34776	C8 GUA	724	156.399	107.720	-59.917	1.00	44.41	Al6S	ATOM	34829	C4' CYT	727	154.340	121.311	-54.423	1.00	49.33	Al6
ATOM	34777	C2' GUA	724	156.286	106.852	-58.809	1.00	44.41	Al6S	ATOM	34830	O4' CYT	727	155.059	120.903	-55.425	1.00	49.33	Al6
ATOM	34778	O2' GUA	724	155.283	107.479	-60.916	1.00	44.41	Al6S	ATOM	34831	C1' CYT	727	154.865	121.866	-56.451	1.00	49.33	Al6
ATOM	34779	C3' GUA	724	154.022	107.361	-60.297	1.00	44.41	Al6S	ATOM	34832	N1 CYT	727	154.177	121.227	-57.597	1.00	37.14	Al6
ATOM	34780	O3' GUA	724	154.116	108.617	-60.114	1.00	54.03	Al6S	ATOM	34833	C6 CYT	727	153.577	120.003	-57.470	1.00	37.14	Al6
ATOM	34781	P GUA	725	151.816	108.194	-59.594	1.00	45.39	Al6S	ATOM	34834	C2 CYT	727	154.656	123.029	-58.926	1.00	37.14	Al6
ATOM	34782	O1P GUA	725	153.164	109.504	-61.346	1.00	45.39	Al6S	ATOM	34835	O2 CYT	727	153.565	121.301	-59.899	1.00	37.14	Al6
ATOM	34783	O2P GUA	725	153.842	109.505	-58.965	1.00	54.03	Al6S	ATOM	34836	N3 CYT	727	153.007	120.098	-59.763	1.00	37.14	Al6
ATOM	34784	O5' GUA	725	154.112	108.896	-57.701	1.00	54.03	Al6S	ATOM	34837	C4 CYT	727	152.473	119.538	-60.842	1.00	37.14	Al6
ATOM	34785	C5' GUA	725	155.068	109.735	-56.908	1.00	54.03	Al6S	ATOM	34838	N4 CYT	727	152.983	119.411	-58.515	1.00	37.14	Al6
ATOM	34786	C4' GUA	725						Al6S	ATOM	34839	C5 CYT	727						Al6

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ATOM	34840	C2' CYT	727	154.039	123.002	-55.858	1.00	49.33	Al6s	ATOM	34893	C1' CYT	730	142.400	128.540	-62.467	1.00	58.06	Al6e
ATOM	34841	G8' CYT	727	154.918	123.999	-55.375	1.00	49.33	Al6s	ATOM	34894	N1 CYT	730	142.763	127.376	-61.664	1.00	59.31	Al6e
ATOM	34842	C3' CYT	727	153.295	122.284	-54.742	1.00	49.33	Al6s	ATOM	34895	C6 CYT	730	143.422	127.538	-60.455	1.00	59.31	Al6e
ATOM	34843	O3' CYT	727	152.812	123.178	-53.753	1.00	49.33	Al6s	ATOM	34896	C2 CYT	730	142.435	126.092	-62.102	1.00	59.31	Al6e
ATOM	34844	P CYT	728	151.267	123.632	-53.792	1.00	54.50	Al6s	ATOM	34897	O2 CYT	730	141.837	125.970	-63.182	1.00	59.31	Al6e
ATOM	34845	O1P CYT	728	150.913	124.124	-52.429	1.00	43.12	Al6s	ATOM	34898	N3 CYT	730	142.763	125.019	-61.397	1.00	59.31	Al6e
ATOM	34846	O2P CYT	728	150.481	122.522	-54.399	1.00	43.12	Al6s	ATOM	34899	C4 CYT	730	143.432	125.193	-60.197	1.00	59.31	Al6e
ATOM	34847	O5' CYT	728	151.227	124.826	-54.845	1.00	54.50	Al6s	ATOM	34900	N4 CYT	730	143.756	124.113	-59.494	1.00	59.31	Al6e
ATOM	34848	C5' CYT	728	152.106	125.953	-54.728	1.00	54.50	Al6s	ATOM	34901	C5 CYT	730	143.775	126.486	-59.711	1.00	59.31	Al6e
ATOM	34849	C4' CYT	728	152.021	126.757	-56.000	1.00	54.50	Al6s	ATOM	34902	C2' CYT	730	141.051	129.188	-62.143	1.00	58.06	Al6e
ATOM	34850	O4' CYT	728	152.626	125.957	-57.071	1.00	54.50	Al6s	ATOM	34903	O2' CYT	730	140.413	129.515	-63.365	1.00	58.06	Al6e
ATOM	34851	C1' CYT	728	151.933	126.233	-58.274	1.00	54.50	Al6s	ATOM	34904	C3' CYT	730	141.475	130.401	-61.315	1.00	58.06	Al6e
ATOM	34852	N1 CYT	728	151.317	124.988	-58.762	1.00	43.12	Al6s	ATOM	34905	O3' CYT	730	140.609	131.515	-61.426	1.00	58.06	Al6e
ATOM	34853	C6 CYT	728	151.229	123.880	-57.961	1.00	43.12	Al6s	ATOM	34906	P CYT	731	139.437	131.724	-60.354	1.00	90.71	Al6e
ATOM	34854	C2' CYT	728	150.835	124.947	-60.082	1.00	43.12	Al6s	ATOM	34907	O1P CYT	731	138.933	133.105	-60.518	1.00	61.54	Al6e
ATOM	34855	O2 CYT	728	150.886	125.984	-60.777	1.00	43.12	Al6s	ATOM	34908	O2P CYT	731	139.881	131.267	-59.010	1.00	61.54	Al6e
ATOM	34856	N3 CYT	728	150.325	123.786	-60.562	1.00	43.12	Al6s	ATOM	34909	O5' CYT	731	138.312	130.745	-60.898	1.00	90.71	Al6e
ATOM	34857	C4 CYT	728	150.274	122.706	-59.779	1.00	43.12	Al6s	ATOM	34910	C5' CYT	731	137.328	130.214	-60.025	1.00	90.71	Al6e
ATOM	34858	N4 CYT	728	149.794	121.581	-60.300	1.00	43.12	Al6s	ATOM	34911	C4' CYT	731	137.336	128.718	-60.110	1.00	90.71	Al6e
ATOM	34859	C5 CYT	728	150.721	122.731	-57.988	1.00	54.50	Al6s	ATOM	34912	O4' CYT	731	138.705	128.267	-60.116	1.00	90.71	Al6e
ATOM	34860	C2' CYT	728	150.908	127.321	-57.988	1.00	54.50	Al6s	ATOM	34913	C1' CYT	731	138.832	127.127	-59.295	1.00	90.71	Al6e
ATOM	34861	O2' CYT	728	151.468	128.571	-58.326	1.00	54.50	Al6s	ATOM	34914	N1 CYT	731	139.958	127.336	-58.364	1.00	61.54	Al6e
ATOM	34862	C3' CYT	728	150.697	127.140	-56.495	1.00	54.50	Al6s	ATOM	34915	C6 CYT	731	140.398	128.595	-58.060	1.00	61.54	Al6e
ATOM	34863	O3' CYT	728	150.215	128.316	-55.874	1.00	54.50	Al6s	ATOM	34916	C2 CYT	731	140.602	126.217	-57.820	1.00	61.54	Al6e
ATOM	34864	P ADE	729	148.633	128.529	-55.710	1.00	58.62	Al6s	ATOM	34917	O2 CYT	731	140.151	125.084	-58.065	1.00	61.54	Al6e
ATOM	34865	O1P ADE	729	148.467	129.595	-54.683	1.00	49.09	Al6s	ATOM	34918	N3 CYT	731	141.693	126.397	-57.038	1.00	61.54	Al6e
ATOM	34866	O2P ADE	729	148.190	127.204	-55.513	1.00	49.09	Al6s	ATOM	34919	C4 CYT	731	142.130	127.629	-56.774	1.00	61.54	Al6e
ATOM	34867	O5' ADE	729	148.178	129.076	-57.134	1.00	58.62	Al6s	ATOM	34920	N4 CYT	731	143.216	127.759	-56.012	1.00	61.54	Al6e
ATOM	34868	C5' ADE	729	148.721	130.292	-57.666	1.00	58.62	Al6s	ATOM	34921	C5 CYT	731	141.473	128.785	-57.282	1.00	61.54	Al6e
ATOM	34869	C4' ADE	729	148.257	130.473	-59.082	1.00	58.62	Al6s	ATOM	34922	C2' CYT	731	137.462	126.768	-58.712	1.00	90.71	Al6e
ATOM	34870	O4' ADE	729	148.794	129.399	-59.889	1.00	58.62	Al6s	ATOM	34923	O2' CYT	731	136.965	125.646	-58.941	1.00	90.71	Al6e
ATOM	34871	C1' ADE	729	147.823	128.970	-60.832	1.00	58.62	Al6s	ATOM	34924	C3' CYT	731	136.682	128.067	-59.911	1.00	90.71	Al6e
ATOM	34872	N9 ADE	729	147.516	127.564	-60.575	1.00	49.09	Al6s	ATOM	34925	O3' CYT	731	135.251	128.051	-59.090	1.00	90.71	Al6e
ATOM	34873	C4 ADE	729	146.991	126.676	-61.483	1.00	49.09	Al6s	ATOM	34926	P CYT	732	134.501	126.874	-59.920	1.00	56.53	Al6e
ATOM	34874	N3 ADE	729	146.636	126.925	-62.753	1.00	49.09	Al6s	ATOM	34927	O1P CYT	732	133.157	127.454	-60.219	1.00	66.43	Al6e
ATOM	34875	C2 ADE	729	146.164	125.825	-63.329	1.00	49.09	Al6s	ATOM	34928	O2P CYT	732	134.585	125.569	-59.188	1.00	66.43	Al6e
ATOM	34876	N1 ADE	729	146.027	124.598	-62.822	1.00	49.09	Al6s	ATOM	34929	O5' CYT	732	135.259	126.734	-61.318	1.00	56.53	Al6e
ATOM	34877	C6 ADE	729	146.401	124.383	-61.545	1.00	49.09	Al6s	ATOM	34930	C5' CYT	732	134.505	126.711	-62.543	1.00	56.53	Al6e
ATOM	34878	N6 ADE	729	146.279	123.158	-61.044	1.00	49.09	Al6s	ATOM	34931	O4' CYT	732	134.654	125.385	-63.247	1.00	56.53	Al6e
ATOM	34879	C5 ADE	729	146.903	125.466	-60.821	1.00	49.09	Al6s	ATOM	34932	C4' CYT	732	136.039	125.211	-63.631	1.00	56.53	Al6e
ATOM	34880	N7 ADE	729	147.348	125.587	-59.511	1.00	49.09	Al6s	ATOM	34933	C1' CYT	732	136.364	123.833	-63.631	1.00	56.53	Al6e
ATOM	34881	C8 ADE	729	147.695	126.848	-59.412	1.00	49.09	Al6s	ATOM	34934	N1 CYT	732	137.498	123.607	-62.709	1.00	66.43	Al6e
ATOM	34882	C2' ADE	729	146.600	129.868	-60.686	1.00	58.62	Al6s	ATOM	34935	C6 CYT	732	138.088	124.649	-62.052	1.00	66.43	Al6e
ATOM	34883	O2' ADE	729	146.654	130.899	-61.651	1.00	58.62	Al6s	ATOM	34936	C2 CYT	732	137.955	122.297	-62.500	1.00	66.43	Al6e
ATOM	34884	C3' ADE	729	146.755	130.351	-59.250	1.00	58.62	Al6s	ATOM	34937	O2 CYT	732	137.443	121.371	-63.144	1.00	66.43	Al6e
ATOM	34885	O3' ADE	729	146.086	131.569	-58.991	1.00	58.62	Al6s	ATOM	34938	N3 CYT	732	138.946	122.076	-61.609	1.00	66.43	Al6e
ATOM	34886	P CYT	730	144.565	131.534	-58.483	1.00	58.06	Al6s	ATOM	34939	C4 CYT	732	139.496	122.101	-60.958	1.00	66.43	Al6e
ATOM	34887	O1P CYT	730	144.149	132.964	-58.370	1.00	59.31	Al6s	ATOM	34940	N4 CYT	732	140.456	122.836	-60.078	1.00	66.43	Al6e
ATOM	34888	O2P CYT	730	144.464	130.635	-57.292	1.00	59.31	Al6s	ATOM	34941	C5 CYT	732	139.082	124.442	-61.178	1.00	66.43	Al6e
ATOM	34889	O5' CYT	730	143.781	130.863	-59.697	1.00	58.06	Al6s	ATOM	34942	C2' CYT	732	135.099	123.057	-63.242	1.00	56.53	Al6e
ATOM	34890	C5' CYT	730	143.745	131.504	-60.982	1.00	58.06	Al6s	ATOM	34943	O2' CYT	732	134.444	122.556	-64.396	1.00	56.53	Al6e
ATOM	34891	C4' CYT	730	142.817	130.768	-61.909	1.00	58.06	Al6s	ATOM	34944	C3' CYT	732	134.296	124.114	-62.493	1.00	56.53	Al6e
ATOM	34892	O4' CYT	730	143.410	129.517	-62.311	1.00	58.06	Al6s	ATOM	34945	O3' CYT	732	132.906	123.811	-62.551	1.00	56.53	Al6e

ATOM	34946	P	GUA	733	132.234	122.874	-61.422	1.00	59.96	Al6s	ATOM	34939	N3	GUA	735	132.632	117.071	-52.770	1.00	51.36	Al6
ATOM	34947	Q	GUA	733	130.754	122.921	-61.588	1.00	53.61	Al6s	ATOM	35000	C2	GUA	735	133.213	118.248	-52.634	1.00	51.36	Al6
ATOM	34948	O2P	GUA	733	132.838	123.263	-60.116	1.00	53.61	Al6s	ATOM	35001	N2	GUA	735	134.173	118.427	-51.707	1.00	51.36	Al6
ATOM	34949	O5	GUA	733	132.692	121.395	-61.808	1.00	59.96	Al6s	ATOM	35002	N1	GUA	735	132.897	119.339	-53.391	1.00	51.36	Al6
ATOM	34950	C5	GUA	733	132.217	120.760	-63.017	1.00	59.96	Al6s	ATOM	35003	C6	GUA	735	131.938	119.367	-54.393	1.00	51.36	Al6
ATOM	34951	C4	GUA	733	132.686	119.322	-63.085	1.00	59.96	Al6s	ATOM	35004	O6	GUA	735	131.705	120.420	-54.991	1.00	51.36	Al6
ATOM	34952	O4	GUA	733	134.136	119.302	-63.306	1.00	59.96	Al6s	ATOM	35005	C5	GUA	735	131.331	118.117	-54.564	1.00	51.36	Al6
ATOM	34953	C1	GUA	733	134.589	118.182	-62.317	1.00	59.96	Al6s	ATOM	35006	N7	GUA	735	130.352	117.714	-55.457	1.00	51.36	Al6
ATOM	34954	N9	GUA	733	135.310	118.659	-61.136	1.00	53.61	Al6s	ATOM	35007	C8	GUA	735	129.470	114.328	-52.982	1.00	49.12	Al6
ATOM	34955	C4	GUA	733	135.905	117.875	-60.169	1.00	53.61	Al6s	ATOM	35008	C2	GUA	735	129.164	114.942	-51.748	1.00	49.12	Al6
ATOM	34956	N3	GUA	733	135.919	116.525	-60.137	1.00	53.61	Al6s	ATOM	35009	O2	GUA	735	129.607	112.816	-52.908	1.00	49.12	Al6
ATOM	34957	C2	GUA	733	136.581	116.057	-59.092	1.00	53.61	Al6s	ATOM	35010	O3	GUA	735	130.315	112.502	-51.711	1.00	49.12	Al6
ATOM	34958	N2	GUA	733	136.695	114.734	-58.913	1.00	53.61	Al6s	ATOM	35011	O3	GUA	735	129.598	111.676	-50.534	1.00	40.60	Al6
ATOM	34959	N1	GUA	733	137.179	116.846	-58.150	1.00	53.61	Al6s	ATOM	35012	P	ADE	736	129.227	110.353	-49.100	1.00	45.11	Al6
ATOM	34960	C6	GUA	733	137.178	118.233	-58.160	1.00	53.61	Al6s	ATOM	35013	O1P	ADE	736	128.565	112.517	-49.886	1.00	45.11	Al6
ATOM	34961	O6	GUA	733	137.754	118.848	-57.261	1.00	53.61	Al6s	ATOM	35014	O2P	ADE	736	130.772	111.440	-49.487	1.00	40.60	Al6
ATOM	34962	C5	GUA	733	136.469	118.755	-59.280	1.00	53.61	Al6s	ATOM	35015	O5	ADE	736	131.842	110.528	-49.796	1.00	40.60	Al6
ATOM	34963	N7	GUA	733	136.230	120.067	-59.666	1.00	53.61	Al6s	ATOM	35016	C5	ADE	736	133.854	110.511	-48.684	1.00	40.60	Al6
ATOM	34964	C8	GUA	733	135.539	119.962	-60.767	1.00	53.61	Al6s	ATOM	35017	C4	ADE	736	133.535	111.788	-48.632	1.00	40.60	Al6
ATOM	34965	C2	GUA	733	133.363	117.360	-61.934	1.00	59.96	Al6s	ATOM	35018	O4	ADE	736	133.508	112.281	-47.313	1.00	40.60	Al6
ATOM	34966	O2	GUA	733	133.128	116.368	-62.913	1.00	59.96	Al6s	ATOM	35019	C1	ADE	736	133.509	113.745	-47.349	1.00	45.11	Al6
ATOM	34967	C3	GUA	733	132.279	118.422	-61.926	1.00	59.96	Al6s	ATOM	35020	N9	ADE	736	134.211	114.549	-46.486	1.00	45.11	Al6
ATOM	34968	O3	GUA	733	130.997	117.830	-62.079	1.00	59.96	Al6s	ATOM	35021	C4	ADE	736	134.973	114.161	-45.451	1.00	45.11	Al6
ATOM	34969	P	URI	734	128.757	117.108	-61.239	1.00	36.81	Al6s	ATOM	35022	N3	ADE	736	135.517	115.216	-44.847	1.00	45.11	Al6
ATOM	34970	O1P	URI	734	130.230	118.749	-59.891	1.00	36.81	Al6s	ATOM	35023	C2	ADE	736	135.395	116.514	-45.137	1.00	45.11	Al6
ATOM	34971	O2P	URI	734	130.789	116.308	-60.057	1.00	59.02	Al6s	ATOM	35024	N1	ADE	736	134.621	118.868	-46.182	1.00	45.11	Al6
ATOM	34972	O5	URI	734	130.647	114.985	-60.588	1.00	59.02	Al6s	ATOM	35025	C6	ADE	736	133.986	115.843	-46.906	1.00	45.11	Al6
ATOM	34973	C4	URI	734	131.387	113.982	-59.730	1.00	59.02	Al6s	ATOM	35026	N6	ADE	736	133.140	115.860	-48.001	1.00	45.11	Al6
ATOM	34974	C5	URI	734	132.772	114.387	-59.580	1.00	59.02	Al6s	ATOM	35027	C5	ADE	736	132.879	114.594	-48.218	1.00	45.11	Al6
ATOM	34975	O4	URI	734	133.267	113.933	-58.335	1.00	59.02	Al6s	ATOM	35028	N7	ADE	736	132.305	111.632	-46.644	1.00	40.60	Al6
ATOM	34976	C1	URI	734	133.749	115.090	-57.567	1.00	36.81	Al6s	ATOM	35029	C8	ADE	736	132.506	111.592	-46.249	1.00	40.60	Al6
ATOM	34977	N1	URI	734	134.448	114.836	-56.386	1.00	36.81	Al6s	ATOM	35030	C2	ADE	736	132.305	110.247	-47.288	1.00	40.60	Al6
ATOM	34978	C2	URI	734	134.694	113.708	-55.982	1.00	36.81	Al6s	ATOM	35031	O2	ADE	736	133.072	107.802	-46.786	1.00	45.21	Al6
ATOM	34979	O2	URI	734	134.849	115.952	-55.698	1.00	36.81	Al6s	ATOM	35032	C3	ADE	736	133.925	107.158	-45.765	1.00	39.66	Al6
ATOM	34980	O2	URI	734	134.638	117.255	-56.041	1.00	36.81	Al6s	ATOM	35033	O3	ADE	737	133.750	107.545	-48.203	1.00	45.21	Al6
ATOM	34981	N3	URI	734	134.952	118.128	-55.250	1.00	36.81	Al6s	ATOM	35034	P	CYT	737	135.141	107.854	-48.407	1.00	45.21	Al6
ATOM	34982	C4	URI	734	133.936	117.446	-57.265	1.00	36.81	Al6s	ATOM	35035	O2P	CYT	737	135.525	107.608	-49.839	1.00	45.21	Al6
ATOM	34983	O4	URI	734	132.140	113.163	-57.645	1.00	59.02	Al6s	ATOM	35036	O5	CYT	737	134.626	108.344	-50.691	1.00	45.21	Al6
ATOM	34984	C5	URI	734	132.268	111.787	-57.965	1.00	59.02	Al6s	ATOM	35037	C5	CYT	737	135.310	108.752	-51.850	1.00	45.21	Al6
ATOM	34985	C2	URI	734	129.847	112.813	-58.268	1.00	59.02	Al6s	ATOM	35038	C4	CYT	737	135.004	110.169	-52.095	1.00	39.66	Al6
ATOM	34986	O2	URI	734	128.530	113.110	-57.594	1.00	49.12	Al6s	ATOM	35039	C4	CYT	737	134.286	110.534	-53.195	1.00	39.66	Al6
ATOM	34987	C3	URI	734	127.610	111.946	-57.594	1.00	51.36	Al6s	ATOM	35040	O4	CYT	737	135.437	111.133	-53.188	1.00	39.66	Al6
ATOM	34988	O3	URI	734	129.032	113.128	-55.885	1.00	49.12	Al6s	ATOM	35041	C1	CYT	737	136.110	110.777	-50.218	1.00	39.66	Al6
ATOM	34989	P	GUA	735	129.818	112.052	-55.350	1.00	49.12	Al6s	ATOM	35042	N1	CYT	737	134.410	112.772	-52.465	1.00	39.66	Al6
ATOM	34990	O1P	GUA	735	130.513	112.504	-54.094	1.00	49.12	Al6s	ATOM	35043	C6	CYT	737	133.973	111.811	-53.417	1.00	39.66	Al6
ATOM	34991	O2P	GUA	735	131.234	113.734	-54.384	1.00	49.12	Al6s	ATOM	35044	C2	CYT	737	136.785	108.352	-51.724	1.00	45.21	Al6
ATOM	34992	O5	GUA	735	130.861	114.724	-53.461	1.00	49.12	Al6s	ATOM	35045	O2	CYT	737	137.013	107.206	-52.520	1.00	45.21	Al6
ATOM	34993	C5	GUA	735	130.905	116.025	-54.109	1.00	51.36	Al6s	ATOM	35046	N3	CYT	737						
ATOM	34994	C4	GUA	735							ATOM	35047	C4	CYT	737						
ATOM	34995	O4	GUA	735							ATOM	35048	N4	CYT	737						
ATOM	34996	C1	GUA	735							ATOM	35049	C5	CYT	737						
ATOM	34997	N9	GUA	735							ATOM	35050	C2	CYT	737						
ATOM	34998	C4	GUA	735							ATOM	35051	O2	CYT	737						

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ATOM	35052	C3 ¹ CYT	737	136.924	108.060	-50.232	1.00	45.21	Al6s	ATOM	35105	N1	URI	740	145.424	104.286	-40.696	1.00	33.54	Al6
ATOM	35053	08 ¹ CYT	737	137.844	106.986	-50.009	1.00	45.21	Al6s	ATOM	35106	C6	URI	740	145.507	104.887	-41.918	1.00	33.54	Al6
ATOM	35054	P	738	139.378	107.291	-49.617	1.00	44.23	Al6s	ATOM	35107	C2	URI	740	144.654	103.143	-40.518	1.00	33.54	Al6
ATOM	35055	01P	738	140.115	107.852	-50.785	1.00	40.50	Al6s	ATOM	35108	O2	URI	740	144.539	102.566	-39.448	1.00	33.54	Al6
ATOM	35056	02P	738	139.896	106.071	-48.949	1.00	40.50	Al6s	ATOM	35109	N3	URI	740	144.018	102.696	-41.642	1.00	33.54	Al6
ATOM	35057	05 ¹ GUA	738	139.279	108.428	-48.515	1.00	44.23	Al6s	ATOM	35110	C4	URI	740	144.067	103.248	-42.897	1.00	33.54	Al6
ATOM	35058	C5 ¹ GUA	738	139.747	109.743	-48.787	1.00	44.23	Al6s	ATOM	35111	O4	URI	740	143.480	102.688	-43.829	1.00	33.54	Al6
ATOM	35059	C4 ¹ GUA	738	139.992	110.454	-47.498	1.00	44.23	Al6s	ATOM	35112	C5	URI	740	144.870	104.423	-42.995	1.00	33.54	Al6
ATOM	35060	O4 ¹ GUA	738	138.767	110.403	-46.719	1.00	44.23	Al6s	ATOM	35113	C2 ¹ URI	740	147.491	104.165	-39.307	1.00	34.33	Al6	
ATOM	35061	08 ¹ GUA	738	139.075	110.181	-45.358	1.00	44.23	Al6s	ATOM	35114	O2 ¹ URI	740	147.703	104.038	-37.918	1.00	34.33	Al6	
ATOM	35062	N9	738	138.596	108.845	-45.004	1.00	40.50	Al6s	ATOM	35115	C3 ¹ URI	740	148.431	105.156	-39.978	1.00	34.33	Al6	
ATOM	35063	C4	738	138.630	108.274	-43.753	1.00	40.50	Al6s	ATOM	35116	O3 ¹ URI	740	149.738	105.067	-39.450	1.00	34.33	Al6	
ATOM	35064	N3	738	139.070	108.864	-42.629	1.00	40.50	Al6s	ATOM	35117	P	741	150.843	104.193	-40.220	1.00	36.37	Al6	
ATOM	35065	C2	738	138.998	108.059	-41.588	1.00	40.50	Al6s	ATOM	35118	01P	741	152.094	104.268	-39.401	1.00	38.44	Al6	
ATOM	35066	N2	738	139.378	108.492	-40.384	1.00	40.50	Al6s	ATOM	35119	02P	741	150.864	104.598	-41.653	1.00	38.44	Al6	
ATOM	35067	N1	738	138.551	106.774	-41.643	1.00	40.50	Al6s	ATOM	35120	O5 ¹ GUA	741	150.285	102.708	-40.162	1.00	36.37	Al6	
ATOM	35068	C6	738	138.112	106.133	-42.792	1.00	40.50	Al6s	ATOM	35121	C5 ¹ GUA	741	150.176	102.038	-38.915	1.00	36.37	Al6	
ATOM	35069	O6	738	137.766	104.949	-42.737	1.00	40.50	Al6s	ATOM	35122	C4 ¹ GUA	741	149.260	100.864	-39.044	1.00	36.37	Al6	
ATOM	35070	C5	738	138.154	106.995	-43.920	1.00	40.50	Al6s	ATOM	35123	O4 ¹ GUA	741	148.005	101.307	-39.607	1.00	36.37	Al6	
ATOM	35071	N7	738	137.792	106.770	-45.243	1.00	40.50	Al6s	ATOM	35124	C1 ¹ GUA	741	147.438	100.273	-40.387	1.00	36.37	Al6	
ATOM	35072	C8	738	138.065	107.895	-45.846	1.00	40.50	Al6s	ATOM	35125	N9	741	147.239	100.780	-41.739	1.00	38.44	Al6	
ATOM	35073	C2 ¹ GUA	738	140.601	110.268	-45.232	1.00	44.23	Al6s	ATOM	35126	C4	741	146.347	100.307	-42.660	1.00	38.44	Al6	
ATOM	35074	O2 ¹ GUA	738	140.975	111.613	-44.971	1.00	44.23	Al6s	ATOM	35127	N3	741	145.489	99.294	-42.474	1.00	38.44	Al6	
ATOM	35075	C3 ¹ GUA	738	141.037	109.805	-46.612	1.00	44.23	Al6s	ATOM	35128	C2	741	144.763	99.067	-43.554	1.00	38.44	Al6	
ATOM	35076	O3 ¹ GUA	738	142.366	110.225	-46.961	1.00	44.23	Al6s	ATOM	35129	N2	741	143.831	98.104	-43.545	1.00	38.44	Al6	
ATOM	35077	P	739	143.587	109.218	-46.776	1.00	41.17	Al6s	ATOM	35130	N1	741	144.889	99.767	-44.721	1.00	38.44	Al6	
ATOM	35078	01P	739	144.761	109.857	-47.396	1.00	36.18	Al6s	ATOM	35131	C6	741	145.770	100.810	-44.934	1.00	38.44	Al6	
ATOM	35079	02P	739	143.199	107.856	-47.188	1.00	36.18	Al6s	ATOM	35132	O6	741	145.812	101.362	-46.030	1.00	38.44	Al6	
ATOM	35080	O5 ¹ CYT	739	143.823	109.192	-45.208	1.00	41.17	Al6s	ATOM	35133	C5	741	146.534	101.082	-43.787	1.00	38.44	Al6	
ATOM	35081	C5 ¹ CYT	739	144.144	110.395	-44.501	1.00	41.17	Al6s	ATOM	35134	N7	741	147.513	102.040	-43.571	1.00	38.44	Al6	
ATOM	35082	C4 ¹ CYT	739	144.285	110.116	-43.031	1.00	41.17	Al6s	ATOM	35135	C8	741	147.905	101.822	-42.344	1.00	36.37	Al6	
ATOM	35083	O4 ¹ CYT	739	143.008	109.691	-42.493	1.00	41.17	Al6s	ATOM	35136	C2 ¹ GUA	741	148.374	99.067	-40.298	1.00	36.37	Al6	
ATOM	35084	C1 ¹ CYT	739	143.219	108.759	-41.447	1.00	41.17	Al6s	ATOM	35137	O2 ¹ GUA	741	147.892	98.242	-39.241	1.00	36.37	Al6	
ATOM	35085	N1	739	142.586	107.484	-41.822	1.00	36.18	Al6s	ATOM	35138	C3 ¹ GUA	741	149.705	99.733	-39.951	1.00	36.37	Al6	
ATOM	35086	C6	739	142.172	107.262	-43.106	1.00	36.18	Al6s	ATOM	35139	O3 ¹ GUA	741	150.571	98.889	-39.201	1.00	36.37	Al6	
ATOM	35087	C2	739	142.416	106.487	-40.836	1.00	36.18	Al6s	ATOM	35140	P	742	151.165	97.547	-39.853	1.00	36.61	Al6	
ATOM	35088	O2	739	142.797	106.711	-39.667	1.00	36.18	Al6s	ATOM	35141	01P	742	152.639	97.652	-39.716	1.00	47.52	Al6	
ATOM	35089	N3	739	141.839	105.312	-41.187	1.00	36.18	Al6s	ATOM	35142	02P	742	150.563	97.316	-41.187	1.00	47.52	Al6	
ATOM	35090	C4	739	141.437	105.113	-42.448	1.00	36.18	Al6s	ATOM	35143	O5 ¹ ADE	742	150.665	96.402	-38.865	1.00	36.61	Al6	
ATOM	35091	N4	739	140.863	103.946	-42.748	1.00	36.18	Al6s	ATOM	35144	C5 ¹ ADE	742	150.852	96.533	-37.446	1.00	36.61	Al6	
ATOM	35092	C5	739	141.603	106.104	-43.460	1.00	36.18	Al6s	ATOM	35145	C4 ¹ ADE	742	150.443	95.268	-36.735	1.00	36.61	Al6	
ATOM	35093	C2 ¹ CYT	739	144.729	108.612	-41.274	1.00	41.17	Al6s	ATOM	35146	O4 ¹ ADE	742	148.997	95.130	-36.710	1.00	36.61	Al6	
ATOM	35094	O2 ¹ CYT	739	145.184	109.547	-40.317	1.00	41.17	Al6s	ATOM	35147	C1 ¹ ADE	742	148.653	93.753	-36.673	1.00	36.61	Al6	
ATOM	35095	C3 ¹ CYT	739	145.223	108.988	-42.655	1.00	41.17	Al6s	ATOM	35148	N9	742	147.835	93.413	-37.836	1.00	47.52	Al6	
ATOM	35096	C3 ¹ CYT	739	146.572	109.386	-42.629	1.00	41.17	Al6s	ATOM	35149	C4	742	147.060	92.282	-37.935	1.00	47.52	Al6	
ATOM	35097	P	740	147.702	108.364	-43.136	1.00	34.33	Al6s	ATOM	35150	N3	742	146.874	92.385	-36.995	1.00	47.52	Al6	
ATOM	35098	01P	740	148.957	109.159	-43.179	1.00	33.54	Al6s	ATOM	35151	C2	742	146.074	90.368	-37.449	1.00	47.52	Al6	
ATOM	35099	02P	740	147.214	107.690	-44.375	1.00	33.54	Al6s	ATOM	35152	N1	742	145.489	90.247	-38.642	1.00	47.52	Al6	
ATOM	35100	O5 ¹ URI	740	147.788	107.272	-41.974	1.00	34.33	Al6s	ATOM	35153	C6	742	145.697	91.216	-39.564	1.00	47.52	Al6	
ATOM	35101	C5 ¹ URI	740	148.099	107.638	-40.619	1.00	34.33	Al6s	ATOM	35154	N6	742	145.115	91.092	-40.758	1.00	47.52	Al6	
ATOM	35102	C4 ¹ URI	740	147.781	106.494	-39.680	1.00	34.33	Al6s	ATOM	35155	C5	742	146.522	92.302	-39.205	1.00	47.52	Al6	
ATOM	35103	O4 ¹ URI	740	146.363	106.207	-39.739	1.00	34.33	Al6s	ATOM	35156	N7	742	146.926	93.440	-39.891	1.00	47.52	Al6	
ATOM	35104	C1 ¹ URI	740	146.139	104.826	-39.532	1.00	34.33	Al6s	ATOM	35157	C8	742	147.694	94.068	-39.035	1.00	47.52	Al6	

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ATOM	35158	C2' ADE	742	149.952	92.957	-36.705	1.00	36.61	Al6s	ATOM	35211	O5' CYT	745	154.468	88.431	-48.482	1.00	46.54	Al6
ATOM	35159	O2' ADE	742	150.291	92.626	-35.377	1.00	36.61	Al6s	ATOM	35212	C5' CYT	745	153.729	88.148	-49.670	1.00	46.54	Al6
ATOM	35160	C3' ADE	742	150.915	93.957	-37.334	1.00	36.61	Al6s	ATOM	35213	C4' CYT	745	153.754	89.340	-50.550	1.00	46.54	Al6
ATOM	35161	O3' ADE	742	152.270	93.670	-37.039	1.00	36.61	Al6s	ATOM	35214	O4' CYT	745	153.067	90.440	-49.928	1.00	46.54	Al6
ATOM	35162	P GUA	743	153.287	93.356	-38.245	1.00	48.09	Al6s	ATOM	35215	C1' CYT	745	153.729	91.661	-50.216	1.00	46.54	Al6
ATOM	35163	O1P GUA	743	154.553	92.977	-37.584	1.00	45.19	Al6s	ATOM	35216	N1 CYT	745	154.238	92.217	-48.954	1.00	33.14	Al6
ATOM	35164	O2P GUA	743	153.285	94.472	-39.220	1.00	48.09	Al6s	ATOM	35217	C6 CYT	745	154.429	91.417	-47.863	1.00	33.14	Al6
ATOM	35165	O5' GUA	743	152.640	92.103	-38.992	1.00	48.09	Al6s	ATOM	35218	C2 CYT	745	154.523	93.586	-48.887	1.00	33.14	Al6
ATOM	35166	C5' GUA	743	152.538	90.838	-38.333	1.00	48.09	Al6s	ATOM	35219	O2 CYT	745	154.364	94.289	-49.903	1.00	33.14	Al6
ATOM	35167	O4' GUA	743	151.594	89.912	-39.070	1.00	48.09	Al6s	ATOM	35220	N3 CYT	745	154.964	94.105	-47.720	1.00	33.14	Al6
ATOM	35168	O4' GUA	743	150.287	90.537	-39.202	1.00	48.09	Al6s	ATOM	35221	C4 CYT	745	155.117	93.315	-46.655	1.00	33.14	Al6
ATOM	35169	C1' GUA	743	149.633	90.038	-40.360	1.00	48.09	Al6s	ATOM	35222	N4 CYT	745	155.509	93.874	-45.518	1.00	33.14	Al6
ATOM	35170	N9 GUA	743	149.459	91.124	-41.321	1.00	45.19	Al6s	ATOM	35223	C5 CYT	745	154.860	91.918	-46.707	1.00	33.14	Al6
ATOM	35171	C4 GUA	743	148.724	91.051	-42.478	1.00	45.19	Al6s	ATOM	35224	C2' CYT	745	154.872	91.350	-51.175	1.00	46.54	Al6
ATOM	35172	N3 GUA	743	147.995	89.991	-42.882	1.00	45.19	Al6s	ATOM	35225	O2' CYT	745	154.458	91.575	-52.505	1.00	46.54	Al6
ATOM	35173	C2 GUA	743	147.423	90.202	-44.052	1.00	45.19	Al6s	ATOM	35226	C3' CYT	745	155.139	89.890	-50.851	1.00	46.54	Al6
ATOM	35174	N2 GUA	743	146.659	89.245	-44.597	1.00	45.19	Al6s	ATOM	35227	O3' CYT	745	155.831	89.216	-51.871	1.00	46.54	Al6
ATOM	35175	N1 GUA	743	147.557	91.364	-44.777	1.00	45.19	Al6s	ATOM	35228	P GUA	746	157.437	89.239	-51.864	1.00	51.98	Al6
ATOM	35176	C6 GUA	743	148.304	92.473	-44.384	1.00	45.19	Al6s	ATOM	35229	O1P GUA	746	157.868	88.251	-52.899	1.00	28.89	Al6
ATOM	35177	O6 GUA	743	148.361	93.477	-45.121	1.00	45.19	Al6s	ATOM	35230	O2P GUA	746	157.915	89.086	-50.468	1.00	28.89	Al6
ATOM	35178	C5 GUA	743	148.923	92.257	-43.116	1.00	45.19	Al6s	ATOM	35231	O5' GUA	746	157.809	90.732	-52.299	1.00	51.98	Al6
ATOM	35179	N7 GUA	743	149.739	93.084	-42.358	1.00	45.19	Al6s	ATOM	35232	C5' GUA	746	157.327	91.276	-53.529	1.00	51.98	Al6
ATOM	35180	C8 GUA	743	150.025	92.376	-41.298	1.00	45.19	Al6s	ATOM	35233	C4' GUA	746	157.510	92.770	-53.549	1.00	51.98	Al6
ATOM	35181	C2' GUA	743	150.578	89.028	-41.001	1.00	48.09	Al6s	ATOM	35234	O4' GUA	746	156.735	93.375	-52.044	1.00	51.98	Al6
ATOM	35182	O2' GUA	743	150.290	87.723	-40.551	1.00	48.09	Al6s	ATOM	35235	C1' GUA	746	157.373	94.564	-52.044	1.00	51.98	Al6
ATOM	35183	C3' GUA	743	151.920	89.527	-40.502	1.00	48.09	Al6s	ATOM	35236	N9 GUA	746	157.720	94.432	-50.632	1.00	28.89	Al6
ATOM	35184	O3' GUA	743	152.929	88.556	-40.680	1.00	48.09	Al6s	ATOM	35237	C4 GUA	746	158.197	95.432	-49.829	1.00	28.89	Al6
ATOM	35185	P GUA	744	153.979	88.761	-41.876	1.00	51.56	Al6s	ATOM	35238	N3 GUA	746	158.440	96.700	-49.221	1.00	28.89	Al6
ATOM	35186	O1P GUA	744	154.887	87.598	-41.929	1.00	40.13	Al6s	ATOM	35239	C2 GUA	746	158.885	97.443	-49.521	1.00	28.89	Al6
ATOM	35187	O2P GUA	744	154.546	90.124	-41.720	1.00	40.13	Al6s	ATOM	35240	N2 GUA	746	159.185	98.721	-49.452	1.00	28.89	Al6
ATOM	35188	O5' GUA	744	153.089	88.756	-43.201	1.00	51.56	Al6s	ATOM	35241	N1 GUA	746	159.068	96.982	-47.933	1.00	28.89	Al6
ATOM	35189	C5' GUA	744	151.369	87.581	-43.611	1.00	51.56	Al6s	ATOM	35242	C6 GUA	746	158.815	95.670	-47.510	1.00	28.89	Al6
ATOM	35190	C4' GUA	744	151.697	87.820	-44.941	1.00	51.56	Al6s	ATOM	35243	O6 GUA	746	158.992	95.345	-46.315	1.00	28.89	Al6
ATOM	35191	O4' GUA	744	150.757	88.914	-44.803	1.00	51.56	Al6s	ATOM	35244	C5 GUA	746	158.354	94.862	-48.584	1.00	28.89	Al6
ATOM	35192	C1' GUA	744	150.772	89.723	-45.971	1.00	51.56	Al6s	ATOM	35245	N7 GUA	746	158.007	93.521	-48.610	1.00	28.89	Al6
ATOM	35193	N9 GUA	744	151.290	91.038	-45.536	1.00	40.13	Al6s	ATOM	35246	C8 GUA	746	157.638	93.309	-49.843	1.00	28.89	Al6
ATOM	35194	C4 GUA	744	151.307	92.179	-46.364	1.00	40.13	Al6s	ATOM	35247	C2' GUA	746	158.628	94.738	-52.881	1.00	51.98	Al6
ATOM	35195	N3 GUA	744	150.860	92.292	-47.627	1.00	40.13	Al6s	ATOM	35248	O2' GUA	746	158.332	95.607	-53.957	1.00	51.98	Al6
ATOM	35196	C2 GUA	744	151.028	93.520	-48.039	1.00	40.13	Al6s	ATOM	35249	C3' GUA	746	158.905	93.305	-53.305	1.00	51.98	Al6
ATOM	35197	N2 GUA	744	150.678	93.812	-49.353	1.00	40.13	Al6s	ATOM	35250	O3' GUA	746	159.741	93.249	-54.437	1.00	51.98	Al6
ATOM	35198	N1 GUA	744	151.566	94.554	-47.382	1.00	40.13	Al6s	ATOM	35251	P CYT	747	161.326	93.074	-54.229	1.00	39.47	Al6
ATOM	35199	C6 GUA	744	152.046	94.460	-46.081	1.00	40.13	Al6s	ATOM	35252	O1P CYT	747	161.941	92.899	-55.584	1.00	25.06	Al6
ATOM	35200	O6 GUA	744	152.543	95.457	-45.526	1.00	40.13	Al6s	ATOM	35253	O2P CYT	747	161.521	92.028	-53.188	1.00	25.06	Al6
ATOM	35201	C5 GUA	744	151.888	93.148	-45.567	1.00	40.13	Al6s	ATOM	35254	O5' CYT	747	161.812	94.497	-53.712	1.00	39.47	Al6
ATOM	35202	N7 GUA	744	152.243	92.624	-44.332	1.00	40.13	Al6s	ATOM	35255	C5' CYT	747	161.808	95.600	-54.628	1.00	39.47	Al6
ATOM	35203	C8 GUA	744	151.868	91.377	-44.391	1.00	40.13	Al6s	ATOM	35256	C4' CYT	747	162.200	96.870	-53.914	1.00	39.47	Al6
ATOM	35204	C2' GUA	744	151.664	89.022	-46.989	1.00	51.56	Al6s	ATOM	35257	O4' CYT	747	161.261	97.065	-52.833	1.00	39.47	Al6
ATOM	35205	O2' GUA	744	150.843	88.198	-47.788	1.00	51.56	Al6s	ATOM	35258	C1' CYT	747	161.920	97.660	-51.736	1.00	39.47	Al6
ATOM	35206	C3' GUA	744	152.613	88.247	-46.074	1.00	51.56	Al6s	ATOM	35259	N1 CYT	747	161.890	96.726	-50.502	1.00	25.06	Al6
ATOM	35207	O3' GUA	744	153.233	87.132	-46.708	1.00	51.56	Al6s	ATOM	35260	C6 CYT	747	161.521	95.419	-50.753	1.00	25.06	Al6
ATOM	35208	P CYT	745	154.685	87.302	-47.386	1.00	46.54	Al6s	ATOM	35261	C2 CYT	747	162.266	97.207	-49.355	1.00	25.06	Al6
ATOM	35209	O1P CYT	745	154.982	86.053	-48.128	1.00	33.14	Al6s	ATOM	35262	O2 CYT	747	162.574	98.411	-49.248	1.00	25.06	Al6
ATOM	35210	O2P CYT	745	155.634	87.775	-46.349	1.00	33.14	Al6s	ATOM	35263	N3 CYT	747	162.290	96.365	-48.294	1.00	25.06	Al6

ATOM	35264	C4	XYT	747	161.958	95.091	-48.452	1.00	25.06	Al6S	ATOM	35317	O1P	ADE	750	176.529	99.057	-53.325	1.00	33.45	Al6
ATOM	35265	N4	CYT	747	162.048	94.296	-47.389	1.00	25.06	Al6S	ATOM	35318	O2P	ADE	750	174.831	97.555	-52.088	1.00	33.45	Al6
ATOM	35266	C5	CYT	747	161.573	94.573	-49.713	1.00	25.06	Al6S	ATOM	35319	O5	ADE	750	176.929	98.252	-50.951	1.00	46.62	Al6
ATOM	35267	C2	CYT	747	163.358	97.941	-52.158	1.00	39.47	Al6S	ATOM	35320	C5	ADE	750	178.049	99.122	-50.684	1.00	46.62	Al6
ATOM	35268	O2	CYT	747	163.472	99.240	-52.701	1.00	39.47	Al6S	ATOM	35321	C4	ADE	750	178.851	98.629	-49.502	1.00	46.62	Al6
ATOM	35269	C3	CYT	747	163.555	96.893	-53.231	1.00	39.47	Al6S	ATOM	35322	O4	ADE	750	178.044	98.660	-48.300	1.00	46.62	Al6
ATOM	35270	O3	CYT	747	164.610	97.254	-54.097	1.00	39.47	Al6S	ATOM	35323	C1	ADE	750	178.403	97.579	-47.451	1.00	46.62	Al6
ATOM	35271	P	GUA	748	166.043	96.563	-53.902	1.00	39.69	Al6S	ATOM	35324	N9	ADE	750	177.226	96.717	-47.299	1.00	33.45	Al6
ATOM	35272	O1P	GUA	748	166.923	97.189	-54.923	1.00	33.26	Al6S	ATOM	35325	C4	ADE	750	176.992	95.773	-46.327	1.00	33.45	Al6
ATOM	35273	O6P	GUA	748	165.856	95.090	-53.884	1.00	33.26	Al6S	ATOM	35326	N3	ADE	750	177.786	95.441	-45.297	1.00	33.45	Al6
ATOM	35274	O5	GUA	748	166.508	97.008	-52.444	1.00	39.69	Al6S	ATOM	35327	C2	ADE	750	177.213	94.496	-44.552	1.00	33.45	Al6
ATOM	35275	C5	GUA	748	166.963	98.345	-52.192	1.00	39.69	Al6S	ATOM	35328	N1	ADE	750	175.272	94.248	-45.766	1.00	33.45	Al6
ATOM	35276	C4	GUA	748	167.147	98.562	-50.714	1.00	39.69	Al6S	ATOM	35329	C6	ADE	750	174.106	93.646	-45.938	1.00	33.45	Al6
ATOM	35277	O4	GUA	748	165.921	98.195	-50.042	1.00	39.69	Al6S	ATOM	35330	N6	ADE	750	175.755	95.230	-46.619	1.00	33.45	Al6
ATOM	35278	C1	GUA	748	166.211	97.591	-48.801	1.00	39.69	Al6S	ATOM	35331	C5	ADE	750	175.217	95.815	-47.749	1.00	33.45	Al6
ATOM	35279	N9	GUA	748	165.750	96.212	-48.861	1.00	33.26	Al6S	ATOM	35332	N7	ADE	750	176.122	96.689	-48.113	1.00	33.45	Al6
ATOM	35280	C4	GUA	748	165.650	95.350	-47.809	1.00	33.26	Al6S	ATOM	35333	C8	ADE	750	179.589	96.873	-48.110	1.00	46.62	Al6
ATOM	35281	N3	GUA	748	165.918	95.646	-46.525	1.00	33.26	Al6S	ATOM	35334	C2	ADE	750	180.792	97.479	-47.683	1.00	46.62	Al6
ATOM	35282	C2	GUA	748	165.947	94.748	-44.420	1.00	33.26	Al6S	ATOM	35335	O2	ADE	750	179.362	97.206	-49.572	1.00	46.62	Al6
ATOM	35283	N2	GUA	748	165.743	93.368	-46.177	1.00	33.26	Al6S	ATOM	35336	C3	ADE	750	180.566	97.133	-50.299	1.00	46.62	Al6
ATOM	35284	N1	GUA	748	165.061	93.049	-47.506	1.00	33.26	Al6S	ATOM	35337	O3	ADE	750	180.872	96.139	-51.919	1.00	32.39	Al6
ATOM	35285	C6	GUA	748	165.242	94.155	-48.352	1.00	33.26	Al6S	ATOM	35338	P	ADE	751	182.127	95.488	-51.942	1.00	32.39	Al6
ATOM	35286	O6	GUA	748	165.064	94.270	-49.719	1.00	33.26	Al6S	ATOM	35339	O1P	ADE	751	181.146	94.700	-50.097	1.00	38.91	Al6
ATOM	35287	N7	GUA	748	165.366	95.509	-49.977	1.00	33.26	Al6S	ATOM	35340	O2P	ADE	751	182.258	94.819	-49.205	1.00	38.91	Al6
ATOM	35288	C8	GUA	748	167.722	97.659	-48.604	1.00	39.69	Al6S	ATOM	35341	O5	ADE	751	182.086	94.260	-47.313	1.00	38.91	Al6
ATOM	35291	C2	GUA	748	168.023	98.836	-47.878	1.00	39.69	Al6S	ATOM	35342	C5	ADE	751	180.254	93.086	-46.818	1.00	38.91	Al6
ATOM	35292	O2	GUA	748	169.476	98.351	-50.131	1.00	39.69	Al6S	ATOM	35343	O4	ADE	751	177.942	92.097	-47.083	1.00	32.39	Al6
ATOM	35293	C3	GUA	748	170.554	97.838	-51.190	1.00	34.54	Al6S	ATOM	35344	C1	ADE	751	177.966	90.523	-46.028	1.00	32.39	Al6
ATOM	35294	P	ADE	749	170.106	98.303	-52.514	1.00	26.97	Al6S	ATOM	35345	N9	ADE	751	176.829	90.523	-46.028	1.00	32.39	Al6
ATOM	35295	O1P	ADE	749	171.867	98.632	-50.791	1.00	34.54	Al6S	ATOM	35346	C2	ADE	751	175.764	90.593	-46.838	1.00	32.39	Al6
ATOM	35296	O2P	ADE	749	171.942	100.044	-50.982	1.00	34.54	Al6S	ATOM	35347	N1	ADE	751	174.763	91.472	-47.866	1.00	32.39	Al6
ATOM	35298	C5	ADE	749	173.112	100.624	-50.223	1.00	34.54	Al6S	ATOM	35348	C6	ADE	751	177.235	93.319	-48.883	1.00	32.39	Al6
ATOM	35299	O4	ADE	749	172.838	100.658	-48.802	1.00	34.54	Al6S	ATOM	35349	N7	ADE	751	178.439	99.690	-48.520	1.00	32.39	Al6
ATOM	35300	C4	ADE	749	174.061	100.741	-48.103	1.00	34.54	Al6S	ATOM	35350	C8	ADE	751	181.145	91.895	-47.176	1.00	38.91	Al6
ATOM	35301	C1	ADE	749	174.115	99.727	-47.058	1.00	26.97	Al6S	ATOM	35351	O2	ADE	751	182.000	91.581	-46.094	1.00	38.91	Al6
ATOM	35302	N9	ADE	749	175.139	99.696	-46.112	1.00	26.97	Al6S	ATOM	35352	C3	ADE	751	181.913	92.438	-48.371	1.00	38.91	Al6
ATOM	35303	C4	ADE	749	176.104	100.561	-45.991	1.00	26.97	Al6S	ATOM	35353	O3	ADE	751	183.411	90.808	-48.522	1.00	38.91	Al6
ATOM	35304	N3	ADE	749	176.905	100.221	-44.974	1.00	26.97	Al6S	ATOM	35354	C5	ADE	751	184.790	90.282	-49.743	1.00	28.46	Al6
ATOM	35305	C2	ADE	749	176.787	99.187	-44.130	1.00	26.97	Al6S	ATOM	35355	O2P	ADE	752	183.016	91.482	-51.016	1.00	28.46	Al6
ATOM	35306	N1	ADE	749	175.756	98.329	-44.286	1.00	26.97	Al6S	ATOM	35356	C5	GUA	752	182.387	89.630	-49.431	1.00	40.72	Al6
ATOM	35307	C6	ADE	749	175.670	97.280	-43.457	1.00	26.97	Al6S	ATOM	35357	O5	GUA	752	182.553	88.872	-48.251	1.00	40.72	Al6
ATOM	35308	N6	ADE	749	174.842	98.592	-45.324	1.00	26.97	Al6S	ATOM	35358	C4	GUA	752	181.312	88.094	-47.939	1.00	40.72	Al6
ATOM	35309	C5	ADE	749	173.697	97.945	-45.755	1.00	26.97	Al6S	ATOM	35359	O4	GUA	752	180.178	88.985	-47.830	1.00	40.72	Al6
ATOM	35310	N7	ADE	749	173.302	98.659	-46.785	1.00	26.97	Al6S	ATOM	35360	C1	GUA	752	178.988	88.270	-48.119	1.00	40.72	Al6
ATOM	35311	C8	ADE	749	175.182	100.512	-49.107	1.00	34.54	Al6S	ATOM	35361	N9	GUA	752	177.094	88.525	-49.763	1.00	28.46	Al6
ATOM	35312	O2	ADE	749	175.761	101.758	-49.432	1.00	34.54	Al6S	ATOM	35362	C4	GUA	752						Al6
ATOM	35313	C2	ADE	749	174.427	99.873	-50.260	1.00	34.54	Al6S	ATOM	35363	O5	GUA	752						Al6
ATOM	35314	C3	ADE	749	175.137	99.965	-51.477	1.00	34.54	Al6S	ATOM	35364	C6	ADE	752						Al6
ATOM	35315	O3	ADE	749	175.844	98.641	-52.059	1.00	46.62	Al6S	ATOM	35365	C7	ADE	752						Al6
ATOM	35316	P	ADE	750						Al6S	ATOM	35366	C8	ADE	752						Al6
ATOM	35317	O1P	ADE	750						Al6S	ATOM	35367	C9	ADE	752						Al6
ATOM	35318	O2P	ADE	750						Al6S	ATOM	35368	C10	ADE	752						Al6
ATOM	35319	O5	ADE	750						Al6S	ATOM	35369	C11	ADE	752						Al6
ATOM	35320	C5	ADE	750						Al6S	ATOM	35370	C12	ADE	752						Al6
ATOM	35321	C4	ADE	750						Al6S	ATOM	35371	C13	ADE	752						Al6
ATOM	35322	O4	ADE	750						Al6S	ATOM	35372	C14	ADE	752						Al6
ATOM	35323	C1	ADE	750						Al6S	ATOM	35373	C15	ADE	752						Al6
ATOM	35324	N9	ADE	750						Al6S	ATOM	35374	C16	ADE	752						Al6
ATOM	35325	C4	ADE	750						Al6S	ATOM	35375	C17	ADE	752						Al6
ATOM	35326	N3	ADE	750						Al6S	ATOM	35376	C18	ADE	752						Al6
ATOM	35327	C2	ADE	750						Al6S	ATOM	35377	C19	ADE	752						Al6
ATOM	35328	N1	ADE	750						Al6S	ATOM	35378	C20	ADE	752						Al6
ATOM	35329	C6	ADE	750						Al6S	ATOM	35379	C21	ADE	752						Al6
ATOM	35330	N6	ADE	750						Al6S	ATOM	35380	C22	ADE	752						Al6
ATOM	35331	C5	ADE	750						Al6S	ATOM	35381	C23	ADE	752						Al6
ATOM	35332	N7	ADE	750						Al6S	ATOM	35382	C24	ADE	752						Al6
ATOM	35333	C8	ADE	750						Al6S	ATOM	35383	C25	ADE	752						Al6
ATOM	35334	C2	ADE	750						Al6S	ATOM	35384	C26	ADE	752						Al6
ATOM	35335	O2	ADE	750						Al6S	ATOM	35385	C27	ADE	752						Al6
ATOM	35336	C3	ADE	750						Al6S	ATOM	35386	C28	ADE	752			</			

ATOM	35370	N3	GUA	752	176.402	87.413	-49.429	1.00	28.46	Al6S	ATOM	35423	O2'	GUA	754	175.607	78.823	-57.728	1.00	49.10	Al6
ATOM	35371	C2'	GUA	752	175.284	87.293	-50.136	1.00	28.46	Al6S	ATOM	35424	C3'	GUA	754	177.670	79.464	-56.576	1.00	49.10	Al6
ATOM	35372	N2	GUA	752	174.472	86.247	-49.933	1.00	28.46	Al6S	ATOM	35425	O3'	GUA	754	178.289	78.303	-57.109	1.00	49.10	Al6
ATOM	35373	N1	GUA	752	174.883	88.190	-51.094	1.00	28.46	Al6S	ATOM	35426	P	URI	755	179.524	78.477	-58.126	1.00	47.88	Al6
ATOM	35374	C6	GUA	752	175.587	89.336	-51.456	1.00	28.46	Al6S	ATOM	35427	O1P	URI	755	180.191	77.158	-58.168	1.00	46.91	Al6
ATOM	35375	C6	GUA	752	175.141	90.080	-52.337	1.00	28.46	Al6S	ATOM	35428	O2P	URI	755	180.309	79.685	-57.748	1.00	46.91	Al6
ATOM	35376	C5	GUA	752	176.783	89.478	-50.703	1.00	28.46	Al6S	ATOM	35429	O5'	URI	755	178.828	78.811	-59.523	1.00	47.88	Al6
ATOM	35377	N7	GUA	752	177.753	90.469	-50.738	1.00	28.46	Al6S	ATOM	35430	C5'	URI	755	177.920	77.890	-60.137	1.00	47.88	Al6
ATOM	35378	C8	GUA	752	178.617	90.107	-49.831	1.00	28.46	Al6S	ATOM	35431	C4'	URI	755	177.345	79.576	-61.392	1.00	47.88	Al6
ATOM	35379	C2'	GUA	752	179.399	86.854	-48.487	1.00	40.72	Al6S	ATOM	35432	O4'	URI	755	176.451	78.479	-61.037	1.00	47.88	Al6
ATOM	35380	C2'	GUA	752	179.313	86.101	-47.289	1.00	40.72	Al6S	ATOM	35433	C1'	URI	755	176.521	80.600	-62.024	1.00	47.88	Al6
ATOM	35381	C3'	GUA	752	180.833	87.076	-48.948	1.00	40.72	Al6S	ATOM	35434	N1	URI	755	176.988	81.846	-61.390	1.00	46.91	Al6
ATOM	35382	O3'	GUA	752	181.624	85.905	-48.939	1.00	40.72	Al6S	ATOM	35435	C6	URI	755	177.781	81.823	-60.271	1.00	46.91	Al6
ATOM	35383	P	CYT	753	182.075	85.259	-50.343	1.00	43.22	Al6S	ATOM	35436	C2	URI	755	176.629	83.055	-61.972	1.00	46.91	Al6
ATOM	35384	O1P	CYT	753	183.190	84.310	-50.043	1.00	31.64	Al6S	ATOM	35437	O2	URI	755	175.898	83.145	-62.932	1.00	46.91	Al6
ATOM	35385	O2P	CYT	753	182.278	86.355	-51.331	1.00	31.64	Al6S	ATOM	35438	N3	URI	755	177.158	84.166	-61.380	1.00	46.91	Al6
ATOM	35386	O5'	CYT	753	180.791	84.428	-50.767	1.00	43.22	Al6S	ATOM	35439	C4	URI	755	177.977	84.210	-60.289	1.00	46.91	Al6
ATOM	35387	C5'	CYT	753	180.235	83.507	-49.843	1.00	43.22	Al6S	ATOM	35440	O4	URI	755	178.457	85.291	-59.944	1.00	46.91	Al6
ATOM	35388	C4'	CYT	753	178.940	82.953	-50.354	1.00	43.22	Al6S	ATOM	35441	C5	URI	755	178.273	82.932	-59.714	1.00	46.91	Al6
ATOM	35389	O4'	CYT	753	177.891	83.946	-50.295	1.00	43.22	Al6S	ATOM	35442	C2'	URI	755	177.499	80.133	-63.107	1.00	47.88	Al6
ATOM	35390	C1'	CYT	753	176.928	83.667	-51.291	1.00	43.22	Al6S	ATOM	35443	O2'	URI	755	176.826	79.559	-64.210	1.00	47.88	Al6
ATOM	35391	N1	CYT	753	176.828	84.828	-52.184	1.00	31.64	Al6S	ATOM	35444	C3'	URI	755	179.350	79.134	-62.334	1.00	47.88	Al6
ATOM	35392	C6	CYT	753	177.731	85.847	-52.115	1.00	31.64	Al6S	ATOM	35445	O3'	URI	755	179.049	78.562	-63.595	1.00	55.14	Al6
ATOM	35393	C2	CYT	753	175.787	84.872	-53.116	1.00	31.64	Al6S	ATOM	35446	P	GUA	756	180.577	78.562	-63.595	1.00	55.14	Al6
ATOM	35394	O2	CYT	753	174.979	83.924	-53.167	1.00	31.64	Al6S	ATOM	35447	O1P	GUA	756	181.103	77.364	-64.306	1.00	54.13	Al6
ATOM	35395	N3	CYT	753	175.652	85.938	-53.934	1.00	31.64	Al6S	ATOM	35448	O2P	GUA	756	181.299	79.076	-62.401	1.00	54.13	Al6
ATOM	35396	C4	CYT	753	176.555	86.932	-53.840	1.00	31.64	Al6S	ATOM	35449	O5'	GUA	756	180.447	79.770	-64.635	1.00	55.14	Al6
ATOM	35397	N4	CYT	753	176.391	87.971	-54.634	1.00	31.64	Al6S	ATOM	35450	C5'	GUA	756	179.689	79.611	-65.825	1.00	55.14	Al6
ATOM	35398	C5	CYT	753	177.630	86.907	-52.918	1.00	31.64	Al6S	ATOM	35451	C4'	GUA	756	179.423	80.941	-66.473	1.00	55.14	Al6
ATOM	35399	C2'	CYT	753	177.399	82.425	-52.045	1.00	43.22	Al6S	ATOM	35452	O4'	GUA	756	178.566	81.749	-65.652	1.00	55.14	Al6
ATOM	35400	O2'	CYT	753	176.810	81.271	-51.468	1.00	43.22	Al6S	ATOM	35453	C1'	GUA	756	178.755	83.123	-65.944	1.00	55.14	Al6
ATOM	35401	C3'	CYT	753	178.896	82.471	-51.786	1.00	43.22	Al6S	ATOM	35454	N9	GUA	756	179.100	83.883	-64.743	1.00	54.13	Al6
ATOM	35402	O3'	CYT	753	179.510	81.211	-51.970	1.00	43.22	Al6S	ATOM	35455	C4	GUA	756	179.056	85.255	-64.625	1.00	54.13	Al6
ATOM	35403	P	GUA	754	180.236	80.904	-53.363	1.00	49.10	Al6S	ATOM	35456	N3	GUA	756	178.624	86.117	-65.568	1.00	54.13	Al6
ATOM	35404	O1P	GUA	754	181.076	79.714	-53.135	1.00	38.35	Al6S	ATOM	35457	C2	GUA	756	178.741	87.374	-65.182	1.00	54.13	Al6
ATOM	35405	O2P	GUA	754	180.848	82.162	-53.868	1.00	38.35	Al6S	ATOM	35458	N2	GUA	756	178.355	88.357	-65.998	1.00	54.13	Al6
ATOM	35406	O5'	GUA	754	179.038	80.537	-54.343	1.00	49.10	Al6S	ATOM	35459	N1	GUA	756	179.243	87.758	-63.970	1.00	54.13	Al6
ATOM	35407	C5'	GUA	754	178.176	79.415	-54.077	1.00	49.10	Al6S	ATOM	35460	C6	GUA	756	179.698	86.892	-62.984	1.00	54.13	Al6
ATOM	35408	C4'	GUA	754	177.140	79.295	-55.163	1.00	49.10	Al6S	ATOM	35461	O6	GUA	756	180.148	87.349	-61.933	1.00	54.13	Al6
ATOM	35409	O4'	GUA	754	176.168	80.362	-55.030	1.00	49.10	Al6S	ATOM	35462	C5	GUA	756	179.570	85.533	-63.380	1.00	54.13	Al6
ATOM	35410	C1'	GUA	754	175.729	80.779	-56.317	1.00	49.10	Al6S	ATOM	35463	N7	GUA	756	179.893	84.361	-62.707	1.00	54.13	Al6
ATOM	35411	N9	GUA	754	176.069	82.189	-56.501	1.00	38.35	Al6S	ATOM	35464	C8	GUA	756	179.583	83.409	-63.546	1.00	54.13	Al6
ATOM	35412	C4	GUA	754	175.539	83.030	-57.445	1.00	38.35	Al6S	ATOM	35465	C2'	GUA	756	179.388	83.202	-66.959	1.00	55.14	Al6
ATOM	35413	N3	GUA	754	174.591	82.708	-58.335	1.00	38.35	Al6S	ATOM	35466	O2'	GUA	756	179.898	83.323	-68.271	1.00	55.14	Al6
ATOM	35414	C2	GUA	754	174.282	83.726	-59.112	1.00	38.35	Al6S	ATOM	35467	C3'	GUA	756	180.598	81.866	-66.749	1.00	55.14	Al6
ATOM	35415	N2	GUA	754	173.323	83.583	-60.034	1.00	38.35	Al6S	ATOM	35468	O3'	GUA	756	181.359	81.529	-67.898	1.00	55.14	Al6
ATOM	35416	N1	GUA	754	174.882	84.954	-59.036	1.00	38.35	Al6S	ATOM	35469	P	GUA	757	182.898	82.018	-68.005	1.00	64.88	Al6
ATOM	35417	C6	GUA	754	175.873	85.298	-58.131	1.00	38.35	Al6S	ATOM	35470	O1P	GUA	757	183.375	81.469	-69.310	1.00	45.37	Al6
ATOM	35418	O6	GUA	754	176.368	86.424	-58.162	1.00	38.35	Al6S	ATOM	35471	O2P	GUA	757	183.631	81.674	-66.745	1.00	45.37	Al6
ATOM	35419	C5	GUA	754	176.188	84.231	-57.276	1.00	38.35	Al6S	ATOM	35472	O5'	GUA	757	182.812	83.610	-68.138	1.00	64.88	Al6
ATOM	35420	N7	GUA	754	177.093	84.161	-56.228	1.00	38.35	Al6S	ATOM	35473	C5'	GUA	757	182.200	84.191	-69.294	1.00	64.88	Al6
ATOM	35421	C8	GUA	754	176.990	82.932	-55.797	1.00	38.35	Al6S	ATOM	35474	C4'	GUA	757	182.065	85.691	-69.165	1.00	64.88	Al6
ATOM	35422	C2'	GUA	754	176.435	79.903	-57.350	1.00	49.10	Al6S	ATOM	35475	O4'	GUA	757	181.217	86.060	-68.048	1.00	64.88	Al6

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ATOM	35476	C1' GUA	757	181.521	87.390	-67.649	1.00	64.88	Al6S	ATOM	35529	C6 GUA	759	189.944	88.483	-62.478	1.00	42.48	Al6
ATOM	35477	M9 GUA	757	181.949	87.409	-66.255	1.00	45.37	Al6S	ATOM	35530	O6 GUA	759	190.007	87.263	-62.657	1.00	42.48	Al6
ATOM	35478	C4 GUA	757	182.101	88.530	-65.477	1.00	45.37	Al6S	ATOM	35531	C5 GUA	759	189.705	89.494	-63.429	1.00	42.48	Al6
ATOM	35479	N3 GUA	757	181.847	89.739	-65.860	1.00	45.37	Al6S	ATOM	35532	N7 GUA	759	189.467	89.398	-64.790	1.00	42.48	Al6
ATOM	35480	C2 GUA	757	182.168	90.661	-64.898	1.00	45.37	Al6S	ATOM	35533	C8 GUA	759	189.325	90.634	-65.179	1.00	42.48	Al6
ATOM	35481	N2 GUA	757	181.908	91.960	-65.104	1.00	45.37	Al6S	ATOM	35534	C2' GUA	759	190.742	93.626	-64.389	1.00	48.13	Al6
ATOM	35482	N1 GUA	757	182.844	90.306	-63.661	1.00	45.37	Al6S	ATOM	35535	O2' GUA	759	190.705	94.851	-63.684	1.00	48.13	Al6
ATOM	35483	C6 GUA	757	182.844	89.002	-63.248	1.00	45.37	Al6S	ATOM	35536	C3' GUA	759	190.864	93.777	-65.902	1.00	48.13	Al6
ATOM	35484	O6 GUA	757	183.263	88.782	-62.107	1.00	45.37	Al6S	ATOM	35537	O3' GUA	759	191.709	94.836	-66.310	1.00	48.13	Al6
ATOM	35485	C7 GUA	757	182.571	88.075	-64.266	1.00	45.37	Al6S	ATOM	35538	P ADE	760	193.229	94.542	-66.746	1.00	47.28	Al6
ATOM	35486	N7 GUA	757	182.700	86.696	-64.274	1.00	45.37	Al6S	ATOM	35539	O1P ADE	760	193.655	93.227	-66.196	1.00	45.07	Al6
ATOM	35487	C8 GUA	757	182.314	86.343	-65.469	1.00	45.37	Al6S	ATOM	35540	O2P ADE	760	193.358	94.799	-68.206	1.00	45.07	Al6
ATOM	35489	O2' GUA	757	182.156	88.606	-69.584	1.00	64.88	Al6S	ATOM	35541	O5' ADE	760	193.982	95.701	-65.953	1.00	47.28	Al6
ATOM	35490	C3' GUA	757	183.299	86.541	-68.952	1.00	64.88	Al6S	ATOM	35542	C5' ADE	760	194.719	96.693	-66.652	1.00	47.28	Al6
ATOM	35491	O3' GUA	757	184.047	86.738	-70.128	1.00	64.88	Al6S	ATOM	35543	C4' ADE	760	194.424	98.070	-66.117	1.00	47.28	Al6
ATOM	35492	P GUA	758	185.596	87.149	-70.013	1.00	46.23	Al6S	ATOM	35544	O4' ADE	760	193.021	98.391	-66.269	1.00	47.28	Al6
ATOM	35493	O1P GUA	758	186.109	87.319	-71.412	1.00	45.81	Al6S	ATOM	35545	C1' ADE	760	192.685	99.422	-65.358	1.00	47.28	Al6
ATOM	35494	O2P GUA	758	186.277	86.213	-69.074	1.00	45.81	Al6S	ATOM	35546	N9 ADE	760	191.633	98.959	-64.452	1.00	45.07	Al6
ATOM	35495	O5' GUA	758	185.596	88.573	-69.304	1.00	46.23	Al6S	ATOM	35547	N3 ADE	760	190.952	99.774	-63.575	1.00	45.07	Al6
ATOM	35496	C5' GUA	758	185.122	89.740	-69.975	1.00	46.23	Al6S	ATOM	35548	C2 ADE	760	191.091	101.105	-63.424	1.00	45.07	Al6
ATOM	35497	C4' GUA	758	185.207	90.919	-69.047	1.00	46.23	Al6S	ATOM	35549	N1 ADE	760	190.300	101.549	-62.453	1.00	45.07	Al6
ATOM	35498	O4' GUA	758	184.422	90.643	-67.857	1.00	46.23	Al6S	ATOM	35550	N6 ADE	760	189.452	100.868	-61.672	1.00	45.07	Al6
ATOM	35499	C1' GUA	758	185.046	91.218	-66.720	1.00	46.23	Al6S	ATOM	35551	C6 ADE	760	189.339	99.536	-61.850	1.00	45.07	Al6
ATOM	35500	N9 GUA	758	185.388	90.158	-65.768	1.00	45.81	Al6S	ATOM	35552	C5 ADE	760	188.506	98.861	-61.066	1.00	45.07	Al6
ATOM	35501	C4 GUA	758	185.776	90.335	-64.463	1.00	45.81	Al6S	ATOM	35553	C5 ADE	760	190.118	98.940	-62.854	1.00	45.07	Al6
ATOM	35502	N3 GUA	758	185.910	91.522	-63.830	1.00	45.81	Al6S	ATOM	35554	N7 ADE	760	190.242	97.624	-63.289	1.00	45.07	Al6
ATOM	35503	C2 GUA	758	186.269	91.370	-62.563	1.00	45.81	Al6S	ATOM	35555	C8 ADE	760	191.145	99.690	-64.240	1.00	45.07	Al6
ATOM	35504	N2 GUA	758	186.477	92.452	-61.777	1.00	45.81	Al6S	ATOM	35556	C2' ADE	760	193.939	99.723	-64.545	1.00	47.28	Al6
ATOM	35505	N1 GUA	758	186.497	90.147	-61.974	1.00	45.81	Al6S	ATOM	35557	O2' ADE	760	194.621	100.767	-65.199	1.00	47.28	Al6
ATOM	35506	C6 GUA	758	186.372	88.913	-62.608	1.00	45.81	Al6S	ATOM	35558	C3' ADE	760	194.707	98.417	-64.666	1.00	47.28	Al6
ATOM	35507	O6 GUA	758	186.598	87.873	-61.980	1.00	45.81	Al6S	ATOM	35559	O3' ADE	760	196.086	98.648	-64.418	1.00	47.28	Al6
ATOM	35508	C5 GUA	758	185.975	89.064	-63.962	1.00	45.81	Al6S	ATOM	35560	P GUA	761	196.676	98.488	-62.923	1.00	49.93	Al6
ATOM	35509	N7 GUA	758	185.718	88.107	-64.933	1.00	45.81	Al6S	ATOM	35561	O1P GUA	761	198.102	98.898	-63.020	1.00	37.14	Al6
ATOM	35510	C8 GUA	758	185.372	88.800	-65.985	1.00	45.81	Al6S	ATOM	35562	O2P GUA	761	196.327	97.162	-62.340	1.00	37.14	Al6
ATOM	35511	O2' GUA	758	186.272	91.971	-67.217	1.00	46.23	Al6S	ATOM	35563	O5' GUA	761	195.901	99.577	-62.060	1.00	49.93	Al6
ATOM	35512	C2' GUA	758	185.876	93.299	-67.479	1.00	46.23	Al6S	ATOM	35564	C5' GUA	761	196.274	100.969	-62.069	1.00	49.93	Al6
ATOM	35513	C3' GUA	758	186.589	91.209	-68.496	1.00	46.23	Al6S	ATOM	35565	C4' GUA	761	195.413	101.727	-61.083	1.00	49.93	Al6
ATOM	35514	O3' GUA	758	187.385	91.941	-69.406	1.00	46.23	Al6S	ATOM	35566	O4' GUA	761	194.020	101.563	-61.471	1.00	49.93	Al6
ATOM	35515	P GUA	759	188.981	91.753	-69.381	1.00	48.13	Al6S	ATOM	35567	C1' GUA	761	193.221	101.359	-60.324	1.00	49.93	Al6
ATOM	35516	O1P GUA	759	188.284	90.298	-69.304	1.00	42.48	Al6S	ATOM	35568	N9 GUA	761	192.760	99.975	-60.335	1.00	37.14	Al6
ATOM	35517	O2P GUA	759	189.581	92.594	-70.451	1.00	42.48	Al6S	ATOM	35569	C4 GUA	761	191.711	99.469	-59.624	1.00	37.14	Al6
ATOM	35518	O5' GUA	759	189.424	92.412	-68.010	1.00	48.13	Al6S	ATOM	35570	N3 GUA	761	190.903	100.171	-58.811	1.00	37.14	Al6
ATOM	35519	C5' GUA	759	189.115	93.780	-67.737	1.00	48.13	Al6S	ATOM	35571	C2 GUA	761	189.988	99.408	-58.253	1.00	37.14	Al6
ATOM	35520	O4' GUA	759	189.443	94.095	-66.311	1.00	48.13	Al6S	ATOM	35572	N2 GUA	761	189.114	99.941	-58.405	1.00	37.14	Al6
ATOM	35521	C4' GUA	759	188.634	93.286	-65.428	1.00	48.13	Al6S	ATOM	35573	N1 GUA	761	189.858	98.062	-58.483	1.00	37.14	Al6
ATOM	35522	C1' GUA	759	189.368	92.979	-64.261	1.00	48.13	Al6S	ATOM	35574	C6 GUA	761	190.659	97.319	-59.332	1.00	37.14	Al6
ATOM	35523	N9 GUA	759	189.455	91.536	-64.157	1.00	42.48	Al6S	ATOM	35575	O6 GUA	761	190.424	96.114	-59.498	1.00	37.14	Al6
ATOM	35524	C3 GUA	759	189.693	90.811	-63.022	1.00	42.48	Al6S	ATOM	35576	C5 GUA	761	191.674	97.127	-59.926	1.00	37.14	Al6
ATOM	35525	N3 GUA	759	189.877	91.310	-61.783	1.00	42.48	Al6S	ATOM	35577	N7 GUA	761	192.680	98.739	-60.820	1.00	37.14	Al6
ATOM	35526	C2 GUA	759	190.094	90.347	-60.897	1.00	42.48	Al6S	ATOM	35578	C8 GUA	761	193.293	98.926	-61.037	1.00	37.14	Al6
ATOM	35527	N2 GUA	759	190.302	90.649	-59.613	1.00	42.48	Al6S	ATOM	35579	C2' GUA	761	194.107	101.614	-59.111	1.00	49.93	Al6
ATOM	35528	N1 GUA	759	190.126	89.012	-61.206	1.00	42.48	Al6S	ATOM	35580	O2' GUA	761	194.053	102.989	-58.778	1.00	49.93	Al6
ATOM	35529	C6 GUA	759	189.944	88.483	-62.478	1.00	42.48	Al6S	ATOM	35581	C3' GUA	761	195.467	101.213	-59.652	1.00	49.93	Al6

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ATOM	35582	03	1.56	521	101.790	-58.906	1.00	49.93	Al6s	ATOM	35635	N3	189.666	88.755	-46.694	1.00	51.41	Al6
ATOM	35583	04	197.021	101.074	-57.557	1.00	37.42	Al6s	ATOM	35636	C2	189.323	87.526	-47.049	1.00	51.41	Al6	
ATOM	35584	01P	197.979	102.020	-56.934	1.00	45.75	Al6s	ATOM	35637	N1	189.670	86.831	-48.136	1.00	51.41	Al6	
ATOM	35585	02P	197.449	99.675	-57.830	1.00	45.75	Al6s	ATOM	35638	C6	190.484	87.410	-49.039	1.00	51.41	Al6	
ATOM	35586	05	195.694	100.931	-56.678	1.00	37.42	Al6s	ATOM	35639	N6	190.837	86.716	-50.122	1.00	51.41	Al6	
ATOM	35587	05	195.043	102.066	-56.030	1.00	37.42	Al6s	ATOM	35640	C5	190.914	88.711	-48.783	1.00	51.41	Al6	
ATOM	35588	04	199.902	101.580	-55.158	1.00	37.42	Al6s	ATOM	35641	N7	191.731	89.578	-49.491	1.00	51.41	Al6	
ATOM	35589	04	192.946	100.883	-55.993	1.00	37.42	Al6s	ATOM	35642	C8	191.767	90.648	-48.748	1.00	51.41	Al6	
ATOM	35590	01	192.397	99.796	-55.274	1.00	37.42	Al6s	ATOM	35643	C2	191.785	91.297	-45.316	1.00	37.88	Al6	
ATOM	35591	01	192.599	98.565	-56.043	1.00	45.75	Al6s	ATOM	35644	02	191.106	91.854	-44.221	1.00	37.88	Al6	
ATOM	35592	06	193.678	98.404	-56.864	1.00	45.75	Al6s	ATOM	35645	C3	193.044	92.072	-45.694	1.00	37.88	Al6	
ATOM	35593	02	191.664	97.545	-55.908	1.00	45.75	Al6s	ATOM	35646	03	193.756	92.557	-44.548	1.00	37.88	Al6	
ATOM	35594	02	190.688	97.723	-55.170	1.00	45.75	Al6s	ATOM	35647	P	194.793	91.600	-43.749	1.00	33.54	Al6	
ATOM	35595	N3	191.839	96.392	-56.581	1.00	45.75	Al6s	ATOM	35648	01P	194.383	91.535	-42.327	1.00	37.11	Al6	
ATOM	35596	C4	192.893	96.241	-57.369	1.00	45.75	Al6s	ATOM	35649	02P	196.177	92.076	-44.077	1.00	37.11	Al6	
ATOM	35597	N4	193.018	95.089	-58.000	1.00	45.75	Al6s	ATOM	35650	05	194.557	90.150	-44.362	1.00	33.54	Al6	
ATOM	35598	C5	193.862	97.267	-57.538	1.00	45.75	Al6s	ATOM	35651	C5	193.745	89.194	-43.697	1.00	33.54	Al6	
ATOM	35599	C2	193.042	99.731	-53.887	1.00	37.42	Al6s	ATOM	35652	C4	193.763	87.889	-44.452	1.00	33.54	Al6	
ATOM	35600	02	192.165	100.204	-52.885	1.00	37.42	Al6s	ATOM	35653	04	193.283	88.095	-45.806	1.00	33.54	Al6	
ATOM	35601	03	194.296	100.572	-54.081	1.00	37.42	Al6s	ATOM	35654	C1	194.708	88.037	-47.644	1.00	37.11	Al6	
ATOM	35602	03	194.640	101.236	-52.874	1.00	37.42	Al6s	ATOM	35655	N9	195.225	87.624	-48.855	1.00	37.11	Al6	
ATOM	35603	P	195.661	100.550	-51.850	1.00	34.71	Al6s	ATOM	35656	C4	195.126	86.405	-49.419	1.00	37.11	Al6	
ATOM	35604	01P	195.757	101.446	-50.672	1.00	54.30	Al6s	ATOM	35657	N3	195.733	86.385	-50.599	1.00	37.11	Al6	
ATOM	35605	02P	196.890	100.223	-52.620	1.00	54.30	Al6s	ATOM	35658	C2	196.389	87.361	-51.236	1.00	37.11	Al6	
ATOM	35606	05	194.957	99.179	-51.431	1.00	34.71	Al6s	ATOM	35659	N1	196.486	88.569	-50.643	1.00	37.11	Al6	
ATOM	35607	C5	193.968	99.129	-50.392	1.00	34.71	Al6s	ATOM	35660	C6	197.165	89.537	-51.270	1.00	37.11	Al6	
ATOM	35608	C4	193.265	97.794	-50.398	1.00	34.71	Al6s	ATOM	35661	N6	195.867	88.730	-49.387	1.00	37.11	Al6	
ATOM	35609	04	192.939	97.481	-51.772	1.00	34.71	Al6s	ATOM	35662	C5	195.755	89.820	-48.532	1.00	37.11	Al6	
ATOM	35610	C1	192.981	96.075	-51.969	1.00	34.71	Al6s	ATOM	35663	N7	195.061	89.357	-47.518	1.00	37.11	Al6	
ATOM	35611	N9	193.874	95.766	-53.089	1.00	54.30	Al6s	ATOM	35664	C8	194.885	86.360	-45.855	1.00	33.54	Al6	
ATOM	35612	C4	193.771	94.687	-53.933	1.00	54.30	Al6s	ATOM	35665	C2	194.239	85.163	-45.478	1.00	33.54	Al6	
ATOM	35613	N3	192.832	93.727	-53.925	1.00	54.30	Al6s	ATOM	35666	02	195.122	87.252	-44.653	1.00	33.54	Al6	
ATOM	35614	C2	193.071	92.829	-54.877	1.00	54.30	Al6s	ATOM	35667	C3	195.568	86.511	-43.532	1.00	33.54	Al6	
ATOM	35615	N1	194.067	92.780	-55.763	1.00	54.30	Al6s	ATOM	35668	03	197.097	86.662	-43.063	1.00	47.39	Al6	
ATOM	35616	C6	194.992	93.760	-55.743	1.00	54.30	Al6s	ATOM	35669	P	197.341	85.661	-41.982	1.00	34.22	Al6	
ATOM	35617	N6	195.993	93.715	-56.619	1.00	54.30	Al6s	ATOM	35670	01P	197.348	88.115	-42.812	1.00	34.22	Al6	
ATOM	35618	C5	194.847	94.777	-54.791	1.00	54.30	Al6s	ATOM	35671	02P	197.942	86.257	-44.349	1.00	47.39	Al6	
ATOM	35619	N7	195.603	95.906	-54.514	1.00	54.30	Al6s	ATOM	35672	05	197.866	84.933	-44.874	1.00	47.39	Al6	
ATOM	35620	C8	194.983	96.458	-53.504	1.00	54.30	Al6s	ATOM	35673	C5	197.942	86.257	-44.349	1.00	47.39	Al6	
ATOM	35621	C2	193.395	95.427	-50.648	1.00	34.71	Al6s	ATOM	35674	C4	198.411	84.904	-46.271	1.00	47.39	Al6	
ATOM	35622	02	192.245	94.959	-49.994	1.00	34.71	Al6s	ATOM	35675	04	197.694	85.872	-47.079	1.00	47.39	Al6	
ATOM	35623	C3	194.045	96.585	-48.905	1.00	34.71	Al6s	ATOM	35676	C1	198.572	86.445	-48.031	1.00	47.39	Al6	
ATOM	35624	03	193.877	96.389	-48.505	1.00	34.71	Al6s	ATOM	35677	N1	198.649	87.891	-47.780	1.00	34.22	Al6	
ATOM	35625	P	195.072	95.742	-47.631	1.00	37.88	Al6s	ATOM	35678	C6	198.210	88.437	-46.601	1.00	34.22	Al6	
ATOM	35626	01P	195.271	96.601	-46.426	1.00	51.41	Al6s	ATOM	35679	C2	199.187	88.707	-48.777	1.00	34.22	Al6	
ATOM	35627	02P	196.226	95.457	-48.525	1.00	51.41	Al6s	ATOM	35680	02	199.582	88.180	-49.824	1.00	34.22	Al6	
ATOM	35628	05	194.518	94.355	-47.078	1.00	37.88	Al6s	ATOM	35681	N3	199.264	90.048	-48.573	1.00	34.22	Al6	
ATOM	35629	C5	193.345	93.772	-47.602	1.00	37.88	Al6s	ATOM	35682	C4	198.821	90.572	-47.429	1.00	34.22	Al6	
ATOM	35630	C4	192.481	93.251	-46.483	1.00	37.88	Al6s	ATOM	35683	N4	198.886	91.894	-47.285	1.00	34.22	Al6	
ATOM	35631	04	191.243	92.790	-47.076	1.00	37.88	Al6s	ATOM	35684	C5	198.280	89.759	-46.384	1.00	34.22	Al6	
ATOM	35632	C1	190.888	91.540	-46.531	1.00	37.88	Al6s	ATOM	35685	C2	199.932	85.768	-47.868	1.00	47.39	Al6	
ATOM	35633	N9	191.035	90.544	-47.592	1.00	51.41	Al6s	ATOM	35686	02	200.042	84.692	-48.784	1.00	47.39	Al6	
ATOM	35634	C4	190.473	89.298	-47.617	1.00	51.41	Al6s	ATOM	35687	C3	199.860	85.318	-46.416	1.00	47.39	Al6	

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ATOM	35688	03' CYT	766	200.750	84.269	-46.102	1.00	47.39	Al6s	ATOM	35741	C4	GUA	769	208.904	96.310	-44.877	1.00	40.35	Al6
ATOM	35689	P' CYT	767	202.164	84.625	-45.443	1.00	50.38	Al6s	ATOM	35742	N3	GUA	769	209.063	97.638	-45.034	1.00	40.35	Al6
ATOM	35690	01P CYT	767	202.823	83.338	-45.126	1.00	39.54	Al6s	ATOM	35743	C2	GUA	769	208.177	98.322	-44.359	1.00	40.35	Al6
ATOM	35691	02P CYT	767	201.980	85.644	-44.375	1.00	39.54	Al6s	ATOM	35744	N2	GUA	769	208.222	99.664	-44.406	1.00	40.35	Al6
ATOM	35692	05' CYT	767	202.950	85.299	-46.642	1.00	50.38	Al6s	ATOM	35745	N1	GUA	769	207.189	97.747	-43.594	1.00	40.35	Al6
ATOM	35693	C5' CYT	767	203.233	84.538	-47.810	1.00	50.38	Al6s	ATOM	35746	C6	GUA	769	207.001	96.377	-43.427	1.00	40.35	Al6
ATOM	35694	C4' CYT	767	204.144	85.304	-48.701	1.00	50.38	Al6s	ATOM	35747	O6	GUA	769	206.055	95.956	-42.741	1.00	40.35	Al6
ATOM	35695	O4' CYT	767	203.429	86.411	-49.291	1.00	50.38	Al6s	ATOM	35748	C5	GUA	769	207.973	95.633	-44.130	1.00	40.35	Al6
ATOM	35696	C1' CYT	767	204.297	87.515	-49.426	1.00	50.38	Al6s	ATOM	35749	N7	GUA	769	208.165	94.262	-44.226	1.00	40.35	Al6
ATOM	35697	N4' CYT	767	203.714	88.684	-48.736	1.00	39.54	Al6s	ATOM	35750	C8	GUA	769	209.183	94.139	-45.029	1.00	40.35	Al6
ATOM	35698	C6' CYT	767	202.940	88.544	-47.614	1.00	39.54	Al6s	ATOM	35751	C2'	GUA	769	211.992	96.075	-45.567	1.00	42.80	Al6
ATOM	35699	C2' CYT	767	203.977	89.968	-49.258	1.00	39.54	Al6s	ATOM	35752	O2'	GUA	769	212.764	96.961	-46.348	1.00	42.80	Al6
ATOM	35700	O2' CYT	767	204.671	90.072	-50.273	1.00	39.54	Al6s	ATOM	35753	C3'	GUA	769	212.703	94.763	-45.300	1.00	42.80	Al6
ATOM	35701	N3' CYT	767	203.469	91.059	-48.640	1.00	39.54	Al6s	ATOM	35754	O3'	GUA	769	214.057	94.978	-44.983	1.00	42.80	Al6
ATOM	35702	C4' CYT	767	202.732	90.916	-47.539	1.00	39.54	Al6s	ATOM	35755	P	ADE	770	214.528	94.865	-43.451	1.00	54.14	Al6
ATOM	35703	N4' CYT	767	202.293	92.025	-46.948	1.00	39.54	Al6s	ATOM	35756	01P ADE	770	216.016	94.962	-43.449	1.00	45.36	Al6	
ATOM	35704	C5' CYT	767	202.428	89.623	-46.991	1.00	39.54	Al6s	ATOM	35757	O2P ADE	770	213.872	93.657	-42.879	1.00	45.36	Al6	
ATOM	35705	C2' CYT	767	205.667	87.100	-48.889	1.00	50.38	Al6s	ATOM	35758	O5' ADE	770	213.917	96.157	-42.733	1.00	54.14	Al6	
ATOM	35706	O2' CYT	767	206.480	86.690	-49.970	1.00	50.38	Al6s	ATOM	35759	C5' ADE	770	214.415	97.469	-43.040	1.00	54.14	Al6	
ATOM	35707	C3' CYT	767	205.303	85.940	-47.972	1.00	50.38	Al6s	ATOM	35760	C4' ADE	770	213.442	98.543	-42.590	1.00	54.14	Al6	
ATOM	35708	O3' CYT	767	206.349	84.998	-47.782	1.00	50.38	Al6s	ATOM	35761	O4' ADE	770	212.096	98.179	-42.996	1.00	54.14	Al6	
ATOM	35709	P	GUA	207.604	85.374	-46.844	1.00	49.63	Al6s	ATOM	35762	C1' ADE	770	211.158	98.733	-42.093	1.00	54.14	Al6	
ATOM	35710	01P GUA	768	208.583	84.290	-47.124	1.00	39.62	Al6s	ATOM	35763	N9	ADE	770	209.368	97.652	-41.497	1.00	45.36	Al6
ATOM	35711	O2P GUA	768	207.191	85.653	-45.429	1.00	39.62	Al6s	ATOM	35764	C4	ADE	770	209.200	97.810	-40.785	1.00	45.36	Al6
ATOM	35712	O5' GUA	768	208.145	86.725	-47.488	1.00	49.63	Al6s	ATOM	35765	N3	ADE	770	208.569	98.962	-40.485	1.00	45.36	Al6
ATOM	35713	C5' GUA	768	208.762	87.737	-46.688	1.00	49.63	Al6s	ATOM	35766	C2	ADE	770	207.449	98.721	-39.805	1.00	45.36	Al6
ATOM	35714	C4' GUA	768	209.226	88.869	-47.567	1.00	49.63	Al6s	ATOM	35767	N1	ADE	770	206.926	97.552	-39.424	1.00	45.36	Al6
ATOM	35715	O4' GUA	768	208.087	89.438	-48.261	1.00	49.63	Al6s	ATOM	35768	C6	ADE	770	207.581	96.417	-39.747	1.00	45.36	Al6
ATOM	35716	C1' GUA	768	208.234	90.848	-48.351	1.00	49.63	Al6s	ATOM	35769	N6	ADE	770	207.046	95.250	-39.399	1.00	45.36	Al6
ATOM	35717	N9' GUA	768	207.179	91.468	-47.552	1.00	39.62	Al6s	ATOM	35770	C5	ADE	770	208.788	96.533	-40.452	1.00	45.36	Al6
ATOM	35718	C4' GUA	768	206.939	92.812	-47.432	1.00	39.62	Al6s	ATOM	35771	N7	ADE	770	209.690	95.587	-40.920	1.00	45.36	Al6
ATOM	35719	N3' GUA	768	207.603	93.795	-48.075	1.00	39.62	Al6s	ATOM	35772	C8	ADE	770	210.606	96.298	-41.530	1.00	45.36	Al6
ATOM	35720	C2' GUA	768	207.171	94.991	-47.722	1.00	39.62	Al6s	ATOM	35773	C2' ADE	770	211.941	99.530	-41.059	1.00	54.14	Al6	
ATOM	35721	N2' GUA	768	207.717	96.076	-48.257	1.00	39.62	Al6s	ATOM	35774	O2' ADE	770	212.006	100.857	-41.536	1.00	54.14	Al6	
ATOM	35722	N1' GUA	768	206.172	95.205	-46.814	1.00	39.62	Al6s	ATOM	35775	C3' ADE	770	213.300	98.843	-41.104	1.00	54.14	Al6	
ATOM	35723	C6' GUA	768	205.478	94.205	-46.142	1.00	39.62	Al6s	ATOM	35776	O3' ADE	770	214.319	99.723	-40.635	1.00	54.14	Al6	
ATOM	35724	O6' GUA	768	204.598	94.504	-45.328	1.00	39.62	Al6s	ATOM	35777	P	URI	771	214.763	99.680	-39.088	1.00	48.56	Al6
ATOM	35725	C5' GUA	768	205.925	92.920	-46.514	1.00	39.62	Al6s	ATOM	35778	01P URI	771	215.789	100.724	-38.889	1.00	35.99	Al6	
ATOM	35726	N7' GUA	768	205.510	91.671	-46.089	1.00	39.62	Al6s	ATOM	35779	O2P URI	771	215.057	98.278	-38.706	1.00	35.99	Al6	
ATOM	35727	C8' GUA	768	206.273	90.839	-46.737	1.00	39.62	Al6s	ATOM	35780	O5' URI	771	213.457	100.131	-38.295	1.00	48.56	Al6	
ATOM	35728	C2' GUA	768	209.603	91.201	-47.766	1.00	49.63	Al6s	ATOM	35781	C5' URI	771	213.015	101.513	-38.262	1.00	48.56	Al6	
ATOM	35729	O2' GUA	768	210.561	91.300	-48.792	1.00	49.63	Al6s	ATOM	35782	C4' URI	771	211.812	101.646	-37.351	1.00	48.56	Al6	
ATOM	35730	C3' GUA	768	209.834	90.034	-46.822	1.00	49.63	Al6s	ATOM	35783	O4' URI	771	210.709	100.877	-37.901	1.00	48.56	Al6	
ATOM	35731	O3' GUA	768	211.191	89.816	-46.541	1.00	42.80	Al6s	ATOM	35784	C1' URI	771	209.974	100.270	-36.850	1.00	48.56	Al6	
ATOM	35732	P	GUA	211.815	90.438	-45.208	1.00	42.80	Al6s	ATOM	35785	N1	URI	771	210.012	98.810	-37.012	1.00	35.99	Al6
ATOM	35733	01P GUA	769	213.234	90.011	-45.139	1.00	40.35	Al6s	ATOM	35786	C6	URI	771	211.042	98.183	-37.660	1.00	35.99	Al6
ATOM	35734	O2P GUA	769	210.901	90.121	-44.074	1.00	40.35	Al6s	ATOM	35787	C2	URI	771	208.967	98.086	-36.469	1.00	35.99	Al6
ATOM	35735	O5' GUA	769	211.786	91.999	-45.510	1.00	42.80	Al6s	ATOM	35788	O2	URI	771	208.047	98.613	-35.869	1.00	35.99	Al6
ATOM	35736	C5' GUA	769	212.585	92.526	-46.561	1.00	42.80	Al6s	ATOM	35789	N3	URI	771	209.046	96.726	-36.642	1.00	35.99	Al6
ATOM	35737	C4' GUA	769	212.486	94.018	-46.601	1.00	42.80	Al6s	ATOM	35790	C4	URI	771	210.054	96.036	-37.282	1.00	35.99	Al6
ATOM	35738	O4' GUA	769	211.143	94.382	-46.989	1.00	42.80	Al6s	ATOM	35791	O4	URI	771	210.009	94.803	-37.339	1.00	35.99	Al6
ATOM	35739	C1' GUA	769	210.785	95.599	-46.368	1.00	42.80	Al6s	ATOM	35792	C5	URI	771	211.100	96.861	-37.806	1.00	35.99	Al6
ATOM	35740	N9' GUA	769	209.670	95.346	-45.465	1.00	40.35	Al6s	ATOM	35793	C2' URI	771	210.597	100.690	-35.521	1.00	48.56	Al6	

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ATOM	35794	O2	URI	771	209.844	101.737	-34.951	1.00	48.56	Al6s	ATOM	35847	N9	GUA	774	208.111	93.516	-29.265	1.00	55.78	Al6
ATOM	35795	C3	URI	771	212.007	101.081	-35.948	1.00	48.56	Al6s	ATOM	35848	C4	GUA	774	206.966	94.127	-28.813	1.00	55.78	Al6
ATOM	35796	O3	URI	771	212.587	102.025	-35.055	1.00	48.56	Al6s	ATOM	35849	N3	GUA	774	205.834	93.501	-28.423	1.00	55.78	Al6
ATOM	35797	P	URI	772	213.557	101.511	-33.882	1.00	54.42	Al6s	ATOM	35850	C2	GUA	774	204.901	94.358	-28.044	1.00	55.78	Al6
ATOM	35798	O1P	URI	772	213.935	102.695	-33.063	1.00	50.47	Al6s	ATOM	35851	N2	GUA	774	203.715	93.894	-27.617	1.00	55.78	Al6
ATOM	35799	O2P	URI	772	214.619	100.673	-34.513	1.00	50.47	Al6s	ATOM	35852	N1	GUA	774	205.066	95.725	-28.054	1.00	55.78	Al6
ATOM	35800	O5	URI	772	212.625	100.566	-33.003	1.00	54.42	Al6s	ATOM	35853	C6	GUA	774	206.224	96.388	-28.457	1.00	55.78	Al6
ATOM	35801	C5	URI	772	211.512	101.112	-32.296	1.00	54.42	Al6s	ATOM	35854	O6	GUA	774	206.271	97.625	-28.442	1.00	55.78	Al6
ATOM	35802	C4	URI	772	210.740	100.024	-31.608	1.00	54.42	Al6s	ATOM	35855	C5	GUA	774	207.233	95.479	-28.854	1.00	55.78	Al6
ATOM	35803	C4	URI	772	210.048	99.207	-32.581	1.00	54.42	Al6s	ATOM	35856	N7	GUA	774	208.522	95.714	-29.309	1.00	55.78	Al6
ATOM	35804	C1	URI	772	209.926	97.887	-32.087	1.00	54.42	Al6s	ATOM	35857	C8	GUA	774	209.004	94.524	-29.541	1.00	55.78	Al6
ATOM	35805	N1	URI	772	210.530	96.950	-33.054	1.00	50.47	Al6s	ATOM	35858	C2	GUA	774	207.989	91.543	-30.808	1.00	60.21	Al6
ATOM	35806	C6	URI	772	211.610	97.307	-33.824	1.00	50.47	Al6s	ATOM	35859	O2	GUA	774	207.442	90.251	-30.678	1.00	60.21	Al6
ATOM	35807	C2	URI	772	209.995	95.675	-33.145	1.00	50.47	Al6s	ATOM	35860	C3	GUA	774	209.361	91.514	-31.469	1.00	60.21	Al6
ATOM	35808	O2	URI	772	208.994	95.325	-32.556	1.00	50.47	Al6s	ATOM	35861	O3	GUA	774	209.466	90.528	-32.484	1.00	60.21	Al6
ATOM	35809	N3	URI	772	210.667	94.825	-33.972	1.00	50.47	Al6s	ATOM	35862	P	ADE	775	209.343	90.956	-34.026	1.00	63.17	Al6
ATOM	35810	C4	URI	772	211.760	95.110	-34.734	1.00	50.47	Al6s	ATOM	35863	O1P	ADE	775	209.985	89.909	-34.845	1.00	64.94	Al6
ATOM	35811	O4	URI	772	212.256	94.222	-35.422	1.00	50.47	Al6s	ATOM	35864	O2P	ADE	775	209.765	92.370	-34.180	1.00	64.94	Al6
ATOM	35812	C5	URI	772	212.220	96.455	-34.641	1.00	50.47	Al6s	ATOM	35865	O5	ADE	775	207.791	90.841	-34.321	1.00	63.17	Al6
ATOM	35813	C2	URI	772	210.590	97.848	-30.705	1.00	54.42	Al6s	ATOM	35866	C5	ADE	775	206.851	91.631	-33.595	1.00	63.17	Al6
ATOM	35814	O2	URI	772	209.579	98.008	-29.730	1.00	54.42	Al6s	ATOM	35867	C4	ADE	775	205.805	92.142	-34.531	1.00	63.17	Al6
ATOM	35815	C3	URI	772	211.538	99.044	-30.772	1.00	54.42	Al6s	ATOM	35868	O4	ADE	775	204.921	93.021	-33.791	1.00	63.17	Al6
ATOM	35816	O3	URI	772	211.820	99.613	-29.490	1.00	54.42	Al6s	ATOM	35869	N9	ADE	775	204.996	94.333	-34.304	1.00	63.17	Al6
ATOM	35817	P	ADE	773	213.187	99.240	-28.714	1.00	55.65	Al6s	ATOM	35870	C4	ADE	775	204.973	95.249	-33.156	1.00	64.94	Al6
ATOM	35818	O1P	ADE	773	213.133	99.928	-27.394	1.00	73.81	Al6s	ATOM	35871	N3	ADE	775	203.831	95.741	-32.569	1.00	64.94	Al6
ATOM	35819	O2P	ADE	773	214.340	99.498	-29.624	1.00	73.81	Al6s	ATOM	35872	C2	ADE	775	202.560	96.147	-32.146	1.00	64.94	Al6
ATOM	35820	O5	ADE	773	213.037	97.675	-28.465	1.00	55.65	Al6s	ATOM	35873	N1	ADE	775	201.977	96.996	-31.148	1.00	64.94	Al6
ATOM	35821	C5	ADE	773	213.149	96.876	-28.038	1.00	55.65	Al6s	ATOM	35874	C6	ADE	775	203.264	97.246	-30.825	1.00	64.94	Al6
ATOM	35822	C4	ADE	773	213.648	95.574	-27.471	1.00	55.65	Al6s	ATOM	35875	N6	ADE	775	203.523	98.106	-29.835	1.00	64.94	Al6
ATOM	35823	O4	ADE	773	212.862	95.867	-26.292	1.00	55.65	Al6s	ATOM	35876	C5	ADE	775	204.259	96.587	-31.560	1.00	64.94	Al6
ATOM	35824	C1	ADE	773	211.729	95.024	-26.243	1.00	55.65	Al6s	ATOM	35877	N7	ADE	775	205.646	96.614	-31.491	1.00	64.94	Al6
ATOM	35825	N9	ADE	773	210.537	95.879	-26.217	1.00	73.81	Al6s	ATOM	35878	C8	ADE	775	206.023	95.802	-32.451	1.00	64.94	Al6
ATOM	35826	C4	ADE	773	209.376	95.633	-25.525	1.00	73.81	Al6s	ATOM	35879	O2P	ADE	775	206.260	94.396	-35.158	1.00	63.17	Al6
ATOM	35827	N3	ADE	773	209.100	94.572	-24.750	1.00	73.81	Al6s	ATOM	35880	C2	ADE	775	206.310	95.424	-36.111	1.00	63.17	Al6
ATOM	35828	C2	ADE	773	207.874	94.672	-24.242	1.00	73.81	Al6s	ATOM	35881	O2	ADE	775	206.935	92.963	-35.658	1.00	63.17	Al6
ATOM	35829	N1	ADE	773	207.267	96.639	-24.406	1.00	73.81	Al6s	ATOM	35882	C3	ADE	775	206.006	92.481	-36.972	1.00	63.17	Al6
ATOM	35830	C6	ADE	773	206.356	97.658	-25.348	1.00	73.81	Al6s	ATOM	35883	O3	ADE	775	204.627	92.926	-37.698	1.00	75.90	Al6
ATOM	35831	N6	ADE	773	206.356	97.658	-25.348	1.00	73.81	Al6s	ATOM	35884	P	URI	776	204.542	92.050	-38.894	1.00	63.32	Al6
ATOM	35832	C5	ADE	773	208.541	96.708	-25.792	1.00	73.81	Al6s	ATOM	35885	O1P	URI	776	204.556	94.386	-37.876	1.00	63.32	Al6
ATOM	35833	N7	ADE	773	209.165	97.617	-26.638	1.00	73.81	Al6s	ATOM	35886	O2P	URI	776	203.438	92.478	-36.735	1.00	75.90	Al6
ATOM	35834	C8	ADE	773	210.341	97.081	-26.858	1.00	73.81	Al6s	ATOM	35887	O5	URI	776	203.390	91.159	-36.154	1.00	75.90	Al6
ATOM	35835	C2	ADE	773	211.813	94.053	-27.426	1.00	55.65	Al6s	ATOM	35888	C5	URI	776	202.384	90.299	-36.876	1.00	75.90	Al6
ATOM	35836	O2	ADE	773	212.385	92.828	-27.014	1.00	55.65	Al6s	ATOM	35889	O4	URI	776	202.448	88.961	-36.316	1.00	75.90	Al6
ATOM	35837	C3	ADE	773	212.711	94.814	-28.395	1.00	55.65	Al6s	ATOM	35890	O4	URI	776	201.154	88.516	-35.981	1.00	75.90	Al6
ATOM	35838	O3	ADE	773	213.446	93.953	-29.261	1.00	55.65	Al6s	ATOM	35891	C1	URI	776	201.245	87.659	-34.786	1.00	63.32	Al6
ATOM	35839	P	GUA	774	213.059	93.871	-30.819	1.00	60.21	Al6s	ATOM	35892	N1	URI	776	201.583	88.167	-33.549	1.00	63.32	Al6
ATOM	35840	O1P	GUA	774	214.099	93.036	-31.478	1.00	55.78	Al6s	ATOM	35893	C6	URI	776	200.988	86.301	-34.942	1.00	63.32	Al6
ATOM	35841	O2P	GUA	774	212.777	95.235	-31.331	1.00	55.78	Al6s	ATOM	35894	C2	URI	776	200.690	85.799	-36.009	1.00	63.32	Al6
ATOM	35842	O5	GUA	774	211.701	93.049	-30.820	1.00	60.21	Al6s	ATOM	35895	O2	URI	776	201.104	85.545	-33.800	1.00	63.32	Al6
ATOM	35843	C5	GUA	774	211.695	91.656	-30.473	1.00	60.21	Al6s	ATOM	35896	N3	URI	776	201.454	85.984	-32.540	1.00	63.32	Al6
ATOM	35844	C4	GUA	774	210.282	91.171	-30.314	1.00	60.21	Al6s	ATOM	35897	C4	URI	776	201.601	85.158	-31.629	1.00	63.32	Al6
ATOM	35845	O4	GUA	774	209.688	91.808	-29.160	1.00	60.21	Al6s	ATOM	35898	O4	URI	776	201.696	87.397	-32.451	1.00	63.32	Al6
ATOM	35846	C1	GUA	774	208.323	92.081	-29.416	1.00	60.21	Al6s	ATOM	35899	C5	URI	776						Al6

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ATOM	35900	C2' URI	776	200.295	89.766	-35.819	1.00	75.90	Al6s	ATOM	35953	Cl' CYT	779	204.806	103.299	-42.411	1.00	46.76	Al6
ATOM	35901	C2' URI	776	198.952	89.430	-36.109	1.00	75.90	Al6s	ATOM	35954	N1 CYT	779	204.615	101.846	-42.256	1.00	41.09	Al6
ATOM	35902	C3' URI	776	200.917	90.722	-36.841	1.00	75.90	Al6s	ATOM	35955	C6 CYT	779	203.392	101.334	-41.921	1.00	41.09	Al6
ATOM	35903	C3' URI	776	200.917	90.514	-38.131	1.00	75.90	Al6s	ATOM	35956	C2 CYT	779	205.702	100.993	-42.449	1.00	41.09	Al6
ATOM	35904	P ADE	777	199.199	91.518	-38.684	1.00	52.46	Al6s	ATOM	35957	O2 CYT	779	206.802	101.481	-42.763	1.00	41.09	Al6
ATOM	35905	O1P ADE	777	197.862	91.026	-38.240	1.00	62.35	Al6s	ATOM	35958	N3 CYT	779	205.531	99.661	-42.289	1.00	41.09	Al6
ATOM	35906	O2P ADE	777	199.456	91.732	-40.144	1.00	62.35	Al6s	ATOM	35959	C4 CYT	779	204.338	99.180	-41.785	1.00	41.09	Al6
ATOM	35907	O5' ADE	777	199.461	92.901	-37.945	1.00	52.46	Al6s	ATOM	35960	N4 CYT	779	204.216	97.864	-41.380	1.00	41.09	Al6
ATOM	35908	C5' ADE	777	199.906	94.048	-38.688	1.00	52.46	Al6s	ATOM	35961	C5 CYT	779	203.214	100.023	-41.757	1.00	41.09	Al6
ATOM	35909	C6' ADE	777	199.298	95.292	-38.118	1.00	52.46	Al6s	ATOM	35962	C2' CYT	779	204.784	103.736	-43.875	1.00	46.76	Al6
ATOM	35910	C6' ADE	777	199.672	95.390	-36.726	1.00	52.46	Al6s	ATOM	35963	O2' CYT	779	205.545	104.914	-44.039	1.00	46.76	Al6
ATOM	35911	Cl' ADE	777	199.894	96.744	-36.389	1.00	52.46	Al6s	ATOM	35964	C3' CYT	779	203.314	104.044	-44.073	1.00	46.76	Al6
ATOM	35912	N9 ADE	777	201.286	96.882	-35.974	1.00	62.35	Al6s	ATOM	35965	O3' CYT	779	203.102	104.888	-45.196	1.00	46.76	Al6
ATOM	35913	C4 ADE	777	201.794	97.824	-35.116	1.00	62.35	Al6s	ATOM	35966	P CYT	780	202.635	104.216	-46.581	1.00	52.39	Al6
ATOM	35914	N3 ADE	777	201.121	98.792	-34.471	1.00	62.35	Al6s	ATOM	35967	O1P CYT	780	202.274	105.245	-47.598	1.00	31.91	Al6
ATOM	35915	C2 ADE	777	201.948	99.529	-33.741	1.00	62.35	Al6s	ATOM	35968	O2P CYT	780	201.646	103.156	-46.209	1.00	31.91	Al6
ATOM	35916	N1 ADE	777	203.270	99.416	-33.591	1.00	62.35	Al6s	ATOM	35969	O5' CYT	780	203.953	103.484	-47.090	1.00	52.39	Al6
ATOM	35917	C6 ADE	777	203.913	98.430	-34.252	1.00	62.35	Al6s	ATOM	35970	C5' CYT	780	205.143	104.235	-47.404	1.00	52.39	Al6
ATOM	35918	N6 ADE	777	205.230	98.308	-34.104	1.00	62.35	Al6s	ATOM	35971	C4' CYT	780	206.209	103.306	-47.921	1.00	52.39	Al6
ATOM	35919	C5 ADE	777	203.152	97.584	-35.060	1.00	62.35	Al6s	ATOM	35972	O4' CYT	780	206.617	102.413	-46.858	1.00	52.39	Al6
ATOM	35920	N7 ADE	777	203.495	96.507	-35.858	1.00	62.35	Al6s	ATOM	35973	C1' CYT	780	206.957	101.155	-47.402	1.00	52.39	Al6
ATOM	35921	C8 ADE	777	202.356	96.124	-36.373	1.00	62.35	Al6s	ATOM	35974	N1 CYT	780	206.136	100.115	-46.772	1.00	31.91	Al6
ATOM	35922	C2' ADE	777	199.590	97.590	-37.623	1.00	52.46	Al6s	ATOM	35975	C6 CYT	780	205.025	100.422	-46.038	1.00	31.91	Al6
ATOM	35923	O2' ADE	777	198.249	98.032	-37.565	1.00	52.46	Al6s	ATOM	35976	C2 CYT	780	206.517	98.778	-46.942	1.00	31.91	Al6
ATOM	35924	C3' ADE	777	199.789	96.583	-38.741	1.00	52.46	Al6s	ATOM	35977	O2 CYT	780	207.520	98.527	-47.616	1.00	31.91	Al6
ATOM	35925	O3' ADE	777	199.038	96.912	-39.892	1.00	52.46	Al6s	ATOM	35978	N3 CYT	780	205.777	97.794	-46.370	1.00	31.91	Al6
ATOM	35926	P CYT	778	199.758	97.639	-41.130	1.00	40.93	Al6s	ATOM	35979	C4 CYT	780	204.687	98.104	-45.680	1.00	31.91	Al6
ATOM	35927	O1P CYT	778	198.483	97.493	-42.293	1.00	57.86	Al6s	ATOM	35980	N4 CYT	780	203.973	97.109	-45.186	1.00	31.91	Al6
ATOM	35928	O2P CYT	778	201.167	97.166	-41.224	1.00	57.86	Al6s	ATOM	35981	C5 CYT	780	204.279	99.454	-45.479	1.00	31.91	Al6
ATOM	35929	O5' CYT	778	199.795	99.177	-40.720	1.00	40.93	Al6s	ATOM	35982	C2' CYT	780	206.743	101.217	-48.908	1.00	52.39	Al6
ATOM	35930	C5' CYT	778	198.593	99.883	-40.383	1.00	40.93	Al6s	ATOM	35983	O2' CYT	780	207.969	101.509	-49.520	1.00	52.39	Al6
ATOM	35931	C4' CYT	778	198.893	101.012	-39.428	1.00	40.93	Al6s	ATOM	35984	C3' CYT	780	205.765	102.369	-49.039	1.00	52.39	Al6
ATOM	35932	O4' CYT	778	199.458	100.491	-38.201	1.00	40.93	Al6s	ATOM	35985	O3' CYT	780	205.808	102.965	-50.312	1.00	52.39	Al6
ATOM	35933	Cl' CYT	778	200.368	101.429	-37.667	1.00	40.93	Al6s	ATOM	35986	P GUA	781	204.876	102.373	-51.482	1.00	45.92	Al6
ATOM	35934	N1 CYT	778	201.681	100.784	-37.518	1.00	57.86	Al6s	ATOM	35987	O1P GUA	781	205.030	103.275	-52.664	1.00	37.68	Al6
ATOM	35935	C6 CYT	778	202.054	99.743	-38.321	1.00	57.86	Al6s	ATOM	35988	O2P GUA	781	203.521	102.120	-50.932	1.00	37.68	Al6
ATOM	35936	C2 CYT	778	202.554	101.268	-36.543	1.00	57.86	Al6s	ATOM	35989	O5' GUA	781	205.536	100.952	-51.797	1.00	45.92	Al6
ATOM	35937	O2 CYT	778	202.173	102.199	-35.801	1.00	57.86	Al6s	ATOM	35990	C5' GUA	781	206.839	100.869	-52.414	1.00	45.92	Al6
ATOM	35938	N3 CYT	778	203.785	100.715	-36.487	1.00	57.86	Al6s	ATOM	35991	C4' GUA	781	207.132	99.456	-52.860	1.00	45.92	Al6
ATOM	35939	C4 CYT	778	204.143	99.718	-37.231	1.00	57.86	Al6s	ATOM	35992	O4' GUA	781	207.398	98.592	-51.725	1.00	45.92	Al6
ATOM	35940	N4 CYT	778	205.367	99.215	-37.039	1.00	57.86	Al6s	ATOM	35993	Cl' GUA	781	206.921	97.283	-51.993	1.00	45.92	Al6
ATOM	35941	C5 CYT	778	203.262	99.184	-38.210	1.00	57.86	Al6s	ATOM	35994	N9 GUA	781	205.916	96.943	-50.985	1.00	37.68	Al6
ATOM	35942	C2' CYT	778	200.418	102.634	-38.609	1.00	40.93	Al6s	ATOM	35995	C4 GUA	781	205.518	95.683	-50.586	1.00	37.68	Al6
ATOM	35943	O2' CYT	778	199.694	103.037	-38.113	1.00	40.93	Al6s	ATOM	35996	N3 GUA	781	206.004	94.513	-51.039	1.00	37.68	Al6
ATOM	35944	C3' CYT	778	199.897	102.036	-39.907	1.00	40.93	Al6s	ATOM	35997	C2 GUA	781	205.402	93.475	-50.474	1.00	37.68	Al6
ATOM	35945	O3' CYT	778	199.258	103.002	-40.711	1.00	40.93	Al6s	ATOM	35998	N2 GUA	781	205.756	92.239	-50.795	1.00	37.68	Al6
ATOM	35946	P CYT	779	199.435	102.932	-42.294	1.00	46.76	Al6s	ATOM	35999	N1 GUA	781	204.405	93.571	-49.547	1.00	37.68	Al6
ATOM	35947	O1P CYT	779	198.659	104.032	-42.917	1.00	41.09	Al6s	ATOM	36000	C6 GUA	781	203.884	94.760	-49.026	1.00	37.68	Al6
ATOM	35948	O2P CYT	779	199.164	101.521	-42.677	1.00	41.09	Al6s	ATOM	36001	O6 GUA	781	202.964	94.732	-48.212	1.00	37.68	Al6
ATOM	35949	O5' CYT	779	200.976	103.246	-42.524	1.00	46.76	Al6s	ATOM	36002	C5 GUA	781	204.527	95.891	-49.656	1.00	37.68	Al6
ATOM	35950	C5' CYT	779	201.471	104.584	-42.360	1.00	46.76	Al6s	ATOM	36003	N7 GUA	781	204.317	97.247	-49.460	1.00	37.68	Al6
ATOM	35951	C4' CYT	779	202.933	104.664	-42.740	1.00	46.76	Al6s	ATOM	36004	C8 GUA	781	205.162	97.830	-50.262	1.00	37.68	Al6
ATOM	35952	O4' CYT	779	203.729	103.945	-41.764	1.00	46.76	Al6s	ATOM	36005	C2' GUA	781	206.365	97.293	-53.417	1.00	45.92	Al6

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ATOM	36006	02' GUA	781	207.399	96.897	-54.280	1.00	45.92	Al6s	ATOM	36059	C5' URI	784	195.646	87.474	-57.567	1.00	38.60	Al6
ATOM	36007	03' GUA	781	206.026	98.765	-53.618	1.00	45.92	Al6s	ATOM	36060	C4' URI	784	194.803	86.801	-56.521	1.00	38.60	Al6
ATOM	36008	03' GUA	781	206.061	99.163	-54.977	1.00	45.92	Al6s	ATOM	36061	04' URI	784	195.365	87.016	-55.206	1.00	38.60	Al6
ATOM	36009	P GUA	782	204.908	98.666	-55.982	1.00	39.80	Al6s	ATOM	36062	C1' URI	784	194.327	86.985	-54.238	1.00	38.60	Al6
ATOM	36010	01P GUA	782	205.480	98.651	-57.358	1.00	49.38	Al6s	ATOM	36063	N1 URI	784	194.261	88.289	-53.551	1.00	43.00	Al6
ATOM	36011	02P GUA	782	203.687	99.467	-55.713	1.00	49.38	Al6s	ATOM	36064	C6 URI	784	194.730	89.441	-54.146	1.00	43.00	Al6
ATOM	36012	05' GUA	782	203.677	97.159	-55.506	1.00	39.80	Al6s	ATOM	36065	C2 URI	784	193.684	88.323	-52.275	1.00	43.00	Al6
ATOM	36013	C5' GUA	782	203.771	96.280	-56.160	1.00	39.80	Al6s	ATOM	36066	02 URI	784	193.288	87.330	-51.690	1.00	43.00	Al6
ATOM	36014	C4' GUA	782	204.107	94.851	-55.814	1.00	39.80	Al6s	ATOM	36067	N3 URI	784	193.602	89.564	-51.712	1.00	43.00	Al6
ATOM	36015	C4' GUA	782	204.432	94.743	-54.401	1.00	39.80	Al6s	ATOM	36068	C4 URI	784	194.038	90.750	-52.261	1.00	43.00	Al6
ATOM	36016	C1' GUA	782	203.932	93.518	-53.890	1.00	39.80	Al6s	ATOM	36069	04 URI	784	193.858	91.798	-51.639	1.00	43.00	Al6
ATOM	36017	N9 GUA	782	202.938	93.807	-52.857	1.00	49.38	Al6s	ATOM	36070	C5 URI	784	194.646	90.631	-53.563	1.00	43.00	Al6
ATOM	36018	C4 GUA	782	202.230	92.880	-52.124	1.00	49.38	Al6s	ATOM	36071	C2' URI	784	193.028	86.704	-54.987	1.00	38.60	Al6
ATOM	36019	N3 GUA	782	202.350	91.539	-52.213	1.00	49.38	Al6s	ATOM	36072	02' URI	784	192.782	85.310	-54.965	1.00	38.60	Al6
ATOM	36020	C2 GUA	782	201.542	90.912	-51.377	1.00	49.38	Al6s	ATOM	36073	C3' URI	784	193.366	87.240	-56.369	1.00	38.60	Al6
ATOM	36021	N2 GUA	782	201.547	89.580	-51.320	1.00	49.38	Al6s	ATOM	36074	03' URI	784	192.511	86.737	-57.366	1.00	38.60	Al6
ATOM	36022	N1 GUA	782	200.677	91.547	-50.527	1.00	49.38	Al6s	ATOM	36075	P ADE	785	191.286	87.643	-57.862	1.00	46.68	Al6
ATOM	36023	C6 GUA	782	200.538	92.928	-50.413	1.00	49.38	Al6s	ATOM	36076	01P ADE	785	190.812	87.095	-59.160	1.00	33.27	Al6
ATOM	36024	06 GUA	782	199.734	93.406	-49.592	1.00	49.38	Al6s	ATOM	36077	02P ADE	785	191.702	89.065	-57.781	1.00	33.27	Al6
ATOM	36025	C5 GUA	782	201.403	93.614	-51.309	1.00	49.38	Al6s	ATOM	36078	05' ADE	785	190.177	87.368	-56.759	1.00	46.68	Al6
ATOM	36026	N7 GUA	782	201.584	94.973	-51.520	1.00	49.38	Al6s	ATOM	36079	C5' ADE	785	189.784	86.032	-56.450	1.00	46.68	Al6
ATOM	36027	C8 GUA	782	202.506	95.040	-52.438	1.00	49.38	Al6s	ATOM	36080	C4' ADE	785	189.003	86.005	-55.166	1.00	46.68	Al6
ATOM	36028	C2' GUA	782	203.293	92.757	-55.051	1.00	39.80	Al6s	ATOM	36081	04' ADE	785	189.857	86.416	-54.072	1.00	46.68	Al6
ATOM	36029	02' GUA	782	204.204	91.818	-55.555	1.00	39.80	Al6s	ATOM	36082	C1' ADE	785	189.111	88.170	-53.133	1.00	46.68	Al6
ATOM	36030	C3' GUA	782	202.964	93.883	-56.018	1.00	39.80	Al6s	ATOM	36083	N9 ADE	785	189.694	88.511	-53.065	1.00	33.27	Al6
ATOM	36031	03' GUA	782	202.838	93.459	-57.360	1.00	39.80	Al6s	ATOM	36084	C4 ADE	785	189.478	89.454	-52.090	1.00	33.27	Al6
ATOM	36032	P GUA	783	201.381	93.433	-58.037	1.00	42.19	Al6s	ATOM	36085	N3 ADE	785	188.731	89.327	-50.983	1.00	33.27	Al6
ATOM	36033	01P GUA	783	201.481	92.792	-59.373	1.00	35.16	Al6s	ATOM	36086	C2 ADE	785	188.756	90.449	-50.276	1.00	33.27	Al6
ATOM	36034	02P GUA	783	200.813	94.800	-57.932	1.00	35.16	Al6s	ATOM	36087	N1 ADE	785	189.386	91.606	-50.530	1.00	33.27	Al6
ATOM	36035	05' GUA	783	200.566	92.442	-57.099	1.00	42.19	Al6s	ATOM	36088	C6 ADE	785	190.119	91.706	-51.657	1.00	33.27	Al6
ATOM	36036	C5' GUA	783	200.858	91.044	-57.112	1.00	42.19	Al6s	ATOM	36089	N6 ADE	785	190.728	92.863	-51.926	1.00	33.27	Al6
ATOM	36037	C4' GUA	783	200.034	90.331	-56.077	1.00	42.19	Al6s	ATOM	36090	C5 ADE	785	190.190	90.575	-52.488	1.00	33.27	Al6
ATOM	36038	04' GUA	783	200.339	90.900	-54.782	1.00	42.19	Al6s	ATOM	36091	N7 ADE	785	190.865	90.334	-53.675	1.00	33.27	Al6
ATOM	36039	C1' GUA	783	199.164	90.978	-54.004	1.00	42.19	Al6s	ATOM	36092	C8 ADE	785	187.659	87.188	-53.618	1.00	46.68	Al6
ATOM	36040	N9 GUA	783	198.935	92.389	-53.732	1.00	35.16	Al6s	ATOM	36093	C2' ADE	785	187.822	86.949	-55.111	1.00	46.68	Al6
ATOM	36041	C4 GUA	783	198.268	92.925	-52.660	1.00	35.16	Al6s	ATOM	36094	02' ADE	785	186.922	86.148	-52.998	1.00	46.68	Al6
ATOM	36042	N3 GUA	783	197.680	92.230	-51.657	1.00	35.16	Al6s	ATOM	36095	C3' ADE	785	187.822	86.949	-55.111	1.00	46.68	Al6
ATOM	36043	C2 GUA	783	197.124	93.026	-50.764	1.00	35.16	Al6s	ATOM	36096	03' ADE	785	186.674	86.330	-55.651	1.00	46.68	Al6
ATOM	36044	N2 GUA	783	196.495	92.500	-49.711	1.00	35.16	Al6s	ATOM	36097	P GUA	786	185.721	87.155	-56.639	1.00	43.81	Al6
ATOM	36045	N1 GUA	783	197.150	94.396	-50.842	1.00	35.16	Al6s	ATOM	36098	01P GUA	786	184.466	86.357	-56.733	1.00	47.41	Al6
ATOM	36046	C6 GUA	783	197.755	95.133	-51.858	1.00	35.16	Al6s	ATOM	36099	02P GUA	786	186.471	87.497	-57.876	1.00	47.41	Al6
ATOM	36047	06 GUA	783	197.743	96.373	-51.821	1.00	35.16	Al6s	ATOM	36100	C5' GUA	786	185.426	88.506	-55.850	1.00	43.81	Al6
ATOM	36048	C5 GUA	783	198.341	94.290	-52.832	1.00	35.16	Al6s	ATOM	36101	C5' GUA	786	184.741	88.478	-54.584	1.00	43.81	Al6
ATOM	36049	N7 GUA	783	199.025	94.604	-54.001	1.00	35.16	Al6s	ATOM	36102	C4' GUA	786	184.918	89.784	-53.863	1.00	43.81	Al6
ATOM	36050	C8 GUA	783	199.357	93.449	-54.499	1.00	35.16	Al6s	ATOM	36103	04' GUA	786	186.327	90.010	-53.613	1.00	43.81	Al6
ATOM	36051	C2' GUA	783	198.036	90.306	-54.795	1.00	42.19	Al6s	ATOM	36104	C1' GUA	786	186.615	91.385	-53.734	1.00	43.81	Al6
ATOM	36052	02' GUA	783	197.941	88.953	-54.399	1.00	42.19	Al6s	ATOM	36105	N9 GUA	786	187.578	91.553	-54.815	1.00	47.41	Al6
ATOM	36053	C3' GUA	783	198.529	90.459	-56.231	1.00	42.19	Al6s	ATOM	36106	C4 GUA	786	188.454	92.600	-54.968	1.00	47.41	Al6
ATOM	36054	03' GUA	783	198.031	89.443	-57.098	1.00	42.19	Al6s	ATOM	36107	N3 GUA	786	188.610	93.633	-54.115	1.00	47.41	Al6
ATOM	36055	P URI	784	196.788	89.754	-58.076	1.00	38.60	Al6s	ATOM	36108	C2 GUA	786	189.530	94.482	-54.533	1.00	47.41	Al6
ATOM	36056	01P URI	784	197.060	89.147	-59.404	1.00	43.00	Al6s	ATOM	36109	N2 GUA	786	189.846	95.542	-53.787	1.00	47.41	Al6
ATOM	36057	02P URI	784	196.473	91.198	-58.008	1.00	43.00	Al6s	ATOM	36110	N1 GUA	786	190.214	94.348	-55.706	1.00	47.41	Al6
ATOM	36058	05' URI	784	195.618	88.890	-57.424	1.00	38.60	Al6s	ATOM	36111	C6 GUA	786	190.061	93.305	-56.603	1.00	47.41	Al6

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ATOM	36112	O6	GUA	786	190.717	93.297	-57.643	1.00	47.41	Al6s	ATOM	36165	C4	CYT	789	177.773	95.825	-65.008	1.00	49.22	Al6
ATOM	36113	C5	GUA	786	189.103	92.365	-56.154	1.00	47.41	Al6s	ATOM	36166	O4	CYT	789	178.867	94.878	-65.093	1.00	49.22	Al6
ATOM	36114	N7	GUA	786	188.664	91.180	-56.728	1.00	47.41	Al6s	ATOM	36167	C1	CYT	789	178.355	93.572	-65.285	1.00	49.22	Al6
ATOM	36115	C8	GUA	786	187.728	90.728	-55.896	1.00	47.41	Al6s	ATOM	36168	N1	CYT	789	178.810	92.719	-64.169	1.00	32.47	Al6
ATOM	36116	C2	GUA	786	185.300	92.114	-54.027	1.00	43.81	Al6s	ATOM	36169	C6	CYT	789	179.235	93.268	-62.991	1.00	32.47	Al6
ATOM	36117	O2	GUA	786	184.735	92.605	-52.827	1.00	43.81	Al6s	ATOM	36170	C2	CYT	789	178.798	91.326	-64.331	1.00	32.47	Al6
ATOM	36118	C3	GUA	786	184.461	91.001	-54.638	1.00	43.81	Al6s	ATOM	36171	O2	CYT	789	178.428	90.848	-65.422	1.00	32.47	Al6
ATOM	36119	O3	GUA	786	183.066	91.208	-54.476	1.00	43.81	Al6s	ATOM	36172	N3	CYT	789	179.194	90.533	-63.301	1.00	32.47	Al6
ATOM	36120	P	URI	787	182.231	91.961	-55.628	1.00	34.21	Al6s	ATOM	36173	C4	CYT	789	179.539	91.083	-62.156	1.00	32.47	Al6
ATOM	36121	O4	URI	787	182.861	92.108	-55.073	1.00	47.06	Al6s	ATOM	36174	N4	CYT	789	179.974	90.272	-61.172	1.00	32.47	Al6
ATOM	36122	O2P	URI	787	182.413	91.320	-56.955	1.00	47.06	Al6s	ATOM	36175	C5	CYT	789	179.637	92.495	-61.970	1.00	32.47	Al6
ATOM	36123	O5	URI	787	182.884	93.406	-55.670	1.00	34.21	Al6s	ATOM	36176	C2	CYT	789	176.831	93.673	-65.384	1.00	49.22	Al6
ATOM	36124	C5	URI	787	182.617	94.353	-54.627	1.00	34.21	Al6s	ATOM	36177	O2	CYT	789	176.429	93.720	-66.734	1.00	49.22	Al6
ATOM	36125	C4	URI	787	183.425	95.602	-54.846	1.00	34.21	Al6s	ATOM	36178	C3	CYT	789	176.561	94.985	-64.662	1.00	49.22	Al6
ATOM	36126	O4	URI	787	184.838	95.269	-54.822	1.00	34.21	Al6s	ATOM	36179	O3	CYT	789	175.354	95.612	-65.062	1.00	49.22	Al6
ATOM	36127	C1	URI	787	185.540	96.102	-55.731	1.00	34.21	Al6s	ATOM	36180	P	ADE	790	173.988	95.254	-64.292	1.00	48.07	Al6
ATOM	36128	N1	URI	787	186.253	95.260	-56.712	1.00	47.06	Al6s	ATOM	36181	O1P	ADE	790	172.920	96.115	-64.888	1.00	45.40	Al6
ATOM	36129	C6	URI	787	185.824	93.989	-57.014	1.00	47.06	Al6s	ATOM	36182	O2P	ADE	790	174.213	95.268	-62.811	1.00	45.40	Al6
ATOM	36130	C2	URI	787	187.373	95.790	-57.338	1.00	47.06	Al6s	ATOM	36183	O5	ADE	790	173.516	93.463	-66.742	1.00	48.07	Al6
ATOM	36131	O2	URI	787	187.824	96.886	-57.085	1.00	47.06	Al6s	ATOM	36184	C5	ADE	790	173.719	93.757	-66.315	1.00	48.07	Al6
ATOM	36132	N3	URI	787	187.955	94.977	-58.268	1.00	47.06	Al6s	ATOM	36185	C4	ADE	790	174.636	91.338	-66.019	1.00	48.07	Al6
ATOM	36133	C4	URI	787	187.567	93.711	-58.623	1.00	47.06	Al6s	ATOM	36186	O4	ADE	790	174.388	90.005	-65.627	1.00	48.07	Al6
ATOM	36134	O4	URI	787	188.204	93.107	-59.485	1.00	47.06	Al6s	ATOM	36187	C1	ADE	790	175.122	89.726	-64.392	1.00	45.40	Al6
ATOM	36135	C5	URI	787	186.429	93.218	-57.922	1.00	47.06	Al6s	ATOM	36188	N9	ADE	790	175.407	88.466	-63.928	1.00	45.40	Al6
ATOM	36136	C2	URI	787	184.520	97.055	-56.361	1.00	34.21	Al6s	ATOM	36189	C4	ADE	790	175.084	87.300	-64.508	1.00	45.40	Al6
ATOM	36137	O2	URI	787	184.506	98.268	-55.631	1.00	34.21	Al6s	ATOM	36190	N3	ADE	790	175.518	86.281	-63.779	1.00	45.40	Al6
ATOM	36138	C3	URI	787	183.220	96.289	-56.183	1.00	34.21	Al6s	ATOM	36191	C2	ADE	790	176.180	86.292	-62.623	1.00	45.40	Al6
ATOM	36139	O3	URI	787	182.112	97.166	-56.146	1.00	49.38	Al6s	ATOM	36192	N1	ADE	790	176.482	87.481	-62.061	1.00	45.40	Al6
ATOM	36140	P	CYT	788	180.829	96.859	-57.049	1.00	49.38	Al6s	ATOM	36193	C6	ADE	790	177.130	87.488	-60.897	1.00	45.40	Al6
ATOM	36141	O1P	CYT	788	179.926	98.023	-56.950	1.00	39.46	Al6s	ATOM	36194	N6	ADE	790	176.088	88.643	-62.740	1.00	45.40	Al6
ATOM	36142	O2P	CYT	788	180.340	95.507	-56.692	1.00	39.46	Al6s	ATOM	36195	C5	ADE	790	176.242	89.994	-62.455	1.00	45.40	Al6
ATOM	36143	O5	CYT	788	181.389	96.835	-58.532	1.00	49.38	Al6s	ATOM	36196	N7	ADE	790	175.655	90.596	-63.465	1.00	45.40	Al6
ATOM	36144	C5	CYT	788	181.781	98.058	-59.189	1.00	49.38	Al6s	ATOM	36197	C8	ADE	790	172.874	89.831	-65.502	1.00	48.07	Al6
ATOM	36145	C4	CYT	788	181.859	97.845	-60.681	1.00	49.38	Al6s	ATOM	36198	C2	ADE	790	172.367	89.186	-66.655	1.00	48.07	Al6
ATOM	36146	O4	CYT	788	183.030	97.057	-61.026	1.00	49.38	Al6s	ATOM	36199	O3	ADE	790	172.409	91.276	-65.404	1.00	48.07	Al6
ATOM	36147	C1	CYT	788	182.715	96.176	-62.090	1.00	49.38	Al6s	ATOM	36200	C3	ADE	790	171.069	91.449	-65.803	1.00	48.07	Al6
ATOM	36148	N1	CYT	788	182.858	94.790	-61.600	1.00	39.46	Al6s	ATOM	36201	O3	ADE	791	169.932	91.573	-64.675	1.00	45.93	Al6
ATOM	36149	C6	CYT	788	182.971	94.527	-60.261	1.00	39.46	Al6s	ATOM	36202	P	CYT	791	168.676	92.014	-65.351	1.00	45.71	Al6
ATOM	36150	C2	CYT	788	182.886	93.731	-62.532	1.00	39.46	Al6s	ATOM	36203	O1P	CYT	791	170.476	92.375	-63.540	1.00	45.71	Al6
ATOM	36151	O2	CYT	788	182.801	93.986	-63.747	1.00	39.46	Al6s	ATOM	36204	O2P	CYT	791	169.737	90.070	-64.187	1.00	45.93	Al6
ATOM	36152	N3	CYT	788	183.016	92.461	-62.081	1.00	39.46	Al6s	ATOM	36205	O5	CYT	791	169.168	89.104	-65.061	1.00	45.93	Al6
ATOM	36153	C4	CYT	788	183.127	92.226	-60.774	1.00	39.46	Al6s	ATOM	36206	C5	CYT	791	169.296	87.738	-64.470	1.00	45.93	Al6
ATOM	36154	N4	CYT	788	183.254	90.968	-60.384	1.00	39.46	Al6s	ATOM	36207	C4	CYT	791	170.694	87.363	-64.419	1.00	45.93	Al6
ATOM	36155	C5	CYT	788	183.111	93.275	-59.812	1.00	39.46	Al6s	ATOM	36208	O4	CYT	791	170.926	86.549	-63.283	1.00	45.93	Al6
ATOM	36156	C2	CYT	788	181.295	96.504	-62.543	1.00	49.38	Al6s	ATOM	36209	C1	CYT	791	171.885	87.218	-62.398	1.00	45.71	Al6
ATOM	36157	O2	CYT	788	181.355	97.519	-63.525	1.00	49.38	Al6s	ATOM	36210	N1	CYT	791	171.998	88.580	-62.360	1.00	45.71	Al6
ATOM	36158	C3	CYT	788	180.701	97.061	-61.264	1.00	49.38	Al6s	ATOM	36211	C6	CYT	791	172.561	85.198	-61.652	1.00	45.71	Al6
ATOM	36159	O3	CYT	788	179.577	97.876	-61.493	1.00	49.38	Al6s	ATOM	36212	C2	CYT	791	173.504	87.017	-60.681	1.00	45.71	Al6
ATOM	36160	P	CYT	789	178.117	97.231	-61.370	1.00	32.47	Al6s	ATOM	36213	N3	CYT	791	173.591	88.343	-60.633	1.00	45.71	Al6
ATOM	36161	O1P	CYT	789	177.142	98.344	-61.488	1.00	32.47	Al6s	ATOM	36214	C4	CYT	791	174.422	88.877	-59.746	1.00	45.71	Al6
ATOM	36162	O2P	CYT	789	178.100	96.345	-60.180	1.00	32.47	Al6s	ATOM	36215	N4	CYT	791	172.827	89.178	-61.496	1.00	45.71	Al6
ATOM	36163	O5	CYT	789	177.991	96.315	-62.661	1.00	49.22	Al6s	ATOM	36216	C5	CYT	791						
ATOM	36164	C5	CYT	789	178.079	96.880	-63.980	1.00	49.22	Al6s	ATOM	36217	C5	CYT	791						

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ATOM	36218	C2' CYT	791	169.599	86.396	-62.547	1.00	45.93	Al6S	ATOM	36271	O4' CYT	794	170.722	86.071	-48.890	1.00	36.56	Al6S
ATOM	36219	O2' CYT	791	168.947	85.201	-62.908	1.00	45.93	Al6S	ATOM	36272	C1' CYT	794	171.317	87.253	-48.419	1.00	36.56	Al6S
ATOM	36220	C3' CYT	791	168.853	87.622	-63.031	1.00	45.93	Al6S	ATOM	36273	N1 CYT	794	171.056	88.333	-49.369	1.00	29.52	Al6S
ATOM	36221	O3' CYT	791	167.469	87.501	-62.854	1.00	45.93	Al6S	ATOM	36274	C6 CYT	794	170.136	88.188	-50.362	1.00	29.52	Al6S
ATOM	36222	P GUA	792	166.805	88.183	-61.564	1.00	52.15	Al6S	ATOM	36275	C2 CYT	794	171.775	89.526	-49.241	1.00	29.52	Al6S
ATOM	36223	O1P GUA	792	165.341	88.269	-61.840	1.00	42.01	Al6S	ATOM	36276	O2 CYT	794	172.624	89.618	-48.330	1.00	29.52	Al6S
ATOM	36224	O2P GUA	792	167.575	89.425	-61.263	1.00	42.01	Al6S	ATOM	36277	N3 CYT	794	171.524	90.543	-50.100	1.00	29.52	Al6S
ATOM	36225	O5' GUA	792	167.105	87.149	-60.386	1.00	52.15	Al6S	ATOM	36278	C4 CYT	794	170.616	90.398	-51.061	1.00	29.52	Al6S
ATOM	36226	C5' GUA	792	166.665	85.807	-60.488	1.00	52.15	Al6S	ATOM	36279	N4 CYT	794	170.396	91.398	-51.879	1.00	29.52	Al6S
ATOM	36227	C4' GUA	792	167.456	84.920	-59.575	1.00	52.15	Al6S	ATOM	36280	C5 CYT	794	169.891	89.176	-51.223	1.00	29.52	Al6S
ATOM	36228	O4' GUA	792	168.872	85.069	-59.840	1.00	52.15	Al6S	ATOM	36281	C2' CYT	794	170.872	87.497	-46.978	1.00	36.56	Al6S
ATOM	36229	C1' GUA	792	169.606	84.663	-58.693	1.00	52.15	Al6S	ATOM	36282	O2' CYT	794	171.972	87.279	-46.121	1.00	36.56	Al6S
ATOM	36230	N9 GUA	792	170.535	85.717	-58.293	1.00	42.01	Al6S	ATOM	36283	C3' CYT	794	169.744	86.481	-46.810	1.00	36.56	Al6S
ATOM	36231	C4 GUA	792	171.551	85.581	-57.378	1.00	42.01	Al6S	ATOM	36284	O3' CYT	794	169.728	85.945	-45.493	1.00	36.56	Al6S
ATOM	36232	N3 GUA	792	171.866	84.452	-56.715	1.00	42.01	Al6S	ATOM	36285	P CYT	795	168.580	86.384	-44.471	1.00	45.67	Al6S
ATOM	36233	C2 GUA	792	172.888	84.626	-55.901	1.00	42.01	Al6S	ATOM	36286	O1P CYT	795	168.994	85.883	-43.143	1.00	45.67	Al6S
ATOM	36234	N2 GUA	792	173.328	83.597	-55.164	1.00	42.01	Al6S	ATOM	36287	O2P CYT	795	167.266	85.988	-45.025	1.00	34.72	Al6S
ATOM	36235	N1 GUA	792	173.549	85.817	-55.751	1.00	42.01	Al6S	ATOM	36288	O5' CYT	795	168.639	87.968	-44.522	1.00	45.67	Al6S
ATOM	36236	C6 GUA	792	173.884	86.995	-56.416	1.00	42.01	Al6S	ATOM	36289	C5' CYT	795	168.871	90.170	-43.629	1.00	45.67	Al6S
ATOM	36237	O6 GUA	792	172.140	86.818	-57.296	1.00	42.01	Al6S	ATOM	36290	C4' CYT	795	169.211	90.534	-44.963	1.00	45.67	Al6S
ATOM	36238	C5 GUA	792	172.140	86.818	-57.296	1.00	42.01	Al6S	ATOM	36291	O4' CYT	795	168.368	91.569	-45.416	1.00	45.67	Al6S
ATOM	36239	N7 GUA	792	171.511	87.719	-58.141	1.00	42.01	Al6S	ATOM	36292	C1' CYT	795	168.016	91.348	-46.823	1.00	34.72	Al6S
ATOM	36240	C8 GUA	792	170.570	87.021	-58.717	1.00	42.01	Al6S	ATOM	36293	N1 CYT	795	167.340	90.231	-47.778	1.00	34.72	Al6S
ATOM	36241	C2' GUA	792	168.598	84.401	-57.580	1.00	52.15	Al6S	ATOM	36294	C6 CYT	795	168.402	92.311	-47.778	1.00	34.72	Al6S
ATOM	36242	O2' GUA	792	167.379	85.165	-58.082	1.00	52.15	Al6S	ATOM	36295	C2 CYT	795	169.052	93.311	-47.411	1.00	34.72	Al6S
ATOM	36243	C3' GUA	792	166.206	84.652	-57.489	1.00	52.15	Al6S	ATOM	36296	O2 CYT	795	167.437	91.010	-49.074	1.00	34.72	Al6S
ATOM	36244	O3' GUA	792	165.631	85.349	-56.160	1.00	46.01	Al6S	ATOM	36297	N3 CYT	795	167.177	90.841	-50.724	1.00	34.72	Al6S
ATOM	36245	P CYT	793	164.490	84.486	-55.749	1.00	38.68	Al6S	ATOM	36298	C4 CYT	795	167.041	90.020	-48.498	1.00	34.72	Al6S
ATOM	36246	O1P CYT	793	165.403	86.790	-56.442	1.00	38.68	Al6S	ATOM	36300	C5 CYT	795	167.577	92.957	-43.715	1.00	45.67	Al6S
ATOM	36247	O2P CYT	793	166.801	85.226	-55.070	1.00	46.01	Al6S	ATOM	36301	C2' CYT	795	167.391	90.525	-43.511	1.00	45.67	Al6S
ATOM	36248	O5' CYT	793	167.018	83.974	-54.392	1.00	46.01	Al6S	ATOM	36302	O2' CYT	795	167.004	90.622	-42.111	1.00	45.67	Al6S
ATOM	36249	C5' CYT	793	168.215	84.014	-53.446	1.00	46.01	Al6S	ATOM	36303	C3' CYT	795	166.960	91.665	-39.937	1.00	34.46	Al6S
ATOM	36250	C4' CYT	793	169.418	84.533	-54.077	1.00	46.01	Al6S	ATOM	36304	O3' CYT	795	166.172	93.080	-42.031	1.00	34.46	Al6S
ATOM	36251	O4' CYT	793	170.365	84.833	-53.071	1.00	46.01	Al6S	ATOM	36305	P URI	796	168.473	92.530	-41.240	1.00	41.48	Al6S
ATOM	36252	C1' CYT	793	170.933	86.170	-53.290	1.00	38.68	Al6S	ATOM	36306	O1P URI	796	169.396	91.901	-40.334	1.00	41.48	Al6S
ATOM	36253	N1 CYT	793	172.111	86.509	-52.605	1.00	38.68	Al6S	ATOM	36307	O2P URI	796	170.744	92.558	-40.446	1.00	41.48	Al6S
ATOM	36254	C6 CYT	793	172.611	85.676	-51.823	1.00	38.68	Al6S	ATOM	36309	C5' URI	796	171.142	92.604	-41.836	1.00	41.48	Al6S
ATOM	36255	C2 CYT	793	172.611	85.676	-51.823	1.00	38.68	Al6S	ATOM	36310	C4' URI	796	171.964	93.732	-42.058	1.00	41.48	Al6S
ATOM	36256	O2 CYT	793	172.611	85.676	-51.823	1.00	38.68	Al6S	ATOM	36311	O4' URI	796	171.443	94.513	-43.193	1.00	34.46	Al6S
ATOM	36257	N3 CYT	793	172.104	88.590	-53.643	1.00	38.68	Al6S	ATOM	36312	C1' URI	796	170.162	94.363	-43.663	1.00	34.46	Al6S
ATOM	36258	C4 CYT	793	172.104	88.590	-53.643	1.00	38.68	Al6S	ATOM	36313	N1 URI	796	172.317	95.414	-43.788	1.00	34.46	Al6S
ATOM	36259	N4 CYT	793	170.893	88.283	-54.334	1.00	38.68	Al6S	ATOM	36314	C6 URI	796	173.417	95.819	-44.390	1.00	34.46	Al6S
ATOM	36260	C5 CYT	793	169.644	84.745	-51.732	1.00	46.01	Al6S	ATOM	36315	C2 URI	796	171.801	96.098	-44.865	1.00	34.46	Al6S
ATOM	36261	C2' CYT	793	169.969	83.496	-51.160	1.00	46.01	Al6S	ATOM	36316	O2 URI	796	170.541	95.971	-45.397	1.00	34.46	Al6S
ATOM	36262	O2' CYT	793	168.177	84.806	-52.154	1.00	46.01	Al6S	ATOM	36317	N3 URI	796	170.282	96.534	-46.464	1.00	34.46	Al6S
ATOM	36263	C3' CYT	793	167.380	84.195	-51.157	1.00	46.01	Al6S	ATOM	36318	O4 URI	796	169.636	95.042	-44.713	1.00	34.46	Al6S
ATOM	36264	O3' CYT	793	166.847	84.195	-49.929	1.00	29.52	Al6S	ATOM	36319	C5 URI	796	172.061	94.507	-40.750	1.00	41.48	Al6S
ATOM	36265	P CYT	794	166.047	84.195	-49.035	1.00	29.52	Al6S	ATOM	36320	O5' URI	796	173.252	94.102	-40.104	1.00	41.48	Al6S
ATOM	36266	O1P CYT	794	166.240	86.343	-50.444	1.00	29.52	Al6S	ATOM	36321	C2' URI	796	170.829	94.009	-40.007	1.00	41.48	Al6S
ATOM	36267	O2P CYT	794	168.141	85.541	-49.147	1.00	36.56	Al6S	ATOM	36322	O2' URI	796						
ATOM	36268	O5' CYT	794	168.913	84.637	-48.348	1.00	36.56	Al6S	ATOM	36323	C3' URI	796						
ATOM	36269	C5' CYT	794	170.097	85.375	-47.791	1.00	36.56	Al6S										
ATOM	36270	C4' CYT	794																

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ATOM	36324	O3' ARI	796	171.011	94.092	-38.605	1.00	41.48	Al6s	ATOM	36377	N9 ADE	799	169.049	100.280	-41.633	1.00	24.35	Al6
ATOM	36325	P ₂ /ADE	797	170.347	95.301	-37.781	1.00	43.85	Al6s	ATOM	36378	C4 ADE	799	168.479	99.242	-42.327	1.00	24.35	Al6
ATOM	36326	O1P ADE	797	168.998	95.603	-38.351	1.00	25.19	Al6s	ATOM	36379	N3 ADE	799	168.156	99.216	-42.631	1.00	24.35	Al6
ATOM	36327	O2P ADE	797	170.495	94.896	-36.346	1.00	25.19	Al6s	ATOM	36380	C2 ADE	799	167.629	98.037	-43.954	1.00	24.35	Al6
ATOM	36328	O5' ADE	797	171.257	96.561	-38.110	1.00	43.85	Al6s	ATOM	36381	N1 ADE	799	167.410	96.958	-43.180	1.00	24.35	Al6
ATOM	36329	C5' ADE	797	172.541	96.685	-37.525	1.00	43.85	Al6s	ATOM	36382	C6 ADE	799	167.755	97.021	-41.877	1.00	24.35	Al6
ATOM	36330	C4' ADE	797	173.248	97.882	-38.082	1.00	43.85	Al6s	ATOM	36383	N6 ADE	799	167.562	95.943	-41.111	1.00	24.35	Al6
ATOM	36331	O4' ADE	797	173.563	97.660	-39.468	1.00	43.85	Al6s	ATOM	36384	C5 ADE	799	168.312	98.222	-41.409	1.00	24.35	Al6
ATOM	36332	C1' ADE	797	173.671	98.902	-40.119	1.00	43.85	Al6s	ATOM	36385	N7 ADE	799	168.762	98.611	-40.161	1.00	24.35	Al6
ATOM	36333	N8 ADE	797	172.860	98.862	-41.318	1.00	25.19	Al6s	ATOM	36386	C8 ADE	799	169.192	99.835	-40.350	1.00	24.35	Al6
ATOM	36334	C4 ADE	797	172.953	99.735	-42.368	1.00	25.19	Al6s	ATOM	36387	C2' ADE	799	168.339	102.647	-41.996	1.00	34.03	Al6
ATOM	36335	N3 ADE	797	173.835	100.732	-42.514	1.00	25.19	Al6s	ATOM	36388	O2' ADE	799	168.334	103.516	-43.111	1.00	34.03	Al6
ATOM	36336	C2 ADE	797	173.596	101.382	-43.631	1.00	25.19	Al6s	ATOM	36389	C3' ADE	799	168.855	103.379	-40.773	1.00	34.03	Al6
ATOM	36337	N1 ADE	797	172.643	101.169	-44.550	1.00	25.19	Al6s	ATOM	36390	O3' ADE	799	168.382	104.706	-40.732	1.00	34.03	Al6
ATOM	36338	C6 ADE	797	171.784	100.148	-44.364	1.00	25.19	Al6s	ATOM	36391	P	800	166.082	105.324	-40.061	1.00	28.52	Al6
ATOM	36339	N6 ADE	797	170.828	99.921	-45.271	1.00	25.19	Al6s	ATOM	36392	O1P CYT	800	167.675	104.180	-38.398	1.00	24.49	Al6
ATOM	36340	C5 ADE	797	171.938	99.386	-43.232	1.00	25.19	Al6s	ATOM	36393	O2P CYT	800	167.675	104.180	-38.398	1.00	24.49	Al6
ATOM	36341	N7 ADE	797	171.246	98.286	-42.760	1.00	25.19	Al6s	ATOM	36394	O5' CYT	800	166.056	106.555	-39.081	1.00	28.52	Al6
ATOM	36342	C8 ADE	797	171.841	98.006	-41.627	1.00	25.19	Al6s	ATOM	36395	C5' CYT	800	167.565	107.785	-39.622	1.00	28.52	Al6
ATOM	36343	C2' ADE	797	173.205	99.993	-39.158	1.00	43.85	Al6s	ATOM	36396	C4' CYT	800	168.513	108.898	-39.276	1.00	28.52	Al6
ATOM	36344	O2' ADE	797	174.349	100.668	-38.689	1.00	43.85	Al6s	ATOM	36397	O4' CYT	800	168.921	108.711	-37.898	1.00	28.52	Al6
ATOM	36345	C3' ADE	797	172.484	99.188	-38.084	1.00	43.85	Al6s	ATOM	36398	C1' CYT	800	170.316	108.630	-37.825	1.00	28.52	Al6
ATOM	36346	O3' ADE	797	172.593	99.805	-36.814	1.00	43.85	Al6s	ATOM	36399	N1 CYT	800	170.676	107.678	-36.777	1.00	24.49	Al6
ATOM	36347	P	798	171.335	100.588	-36.195	1.00	36.74	Al6s	ATOM	36400	C6 CYT	800	169.956	106.536	-36.579	1.00	24.49	Al6
ATOM	36348	O1P ADE	798	170.181	100.478	-37.134	1.00	25.08	Al6s	ATOM	36401	C2 CYT	800	171.770	107.976	-35.961	1.00	24.49	Al6
ATOM	36349	O2P ADE	798	171.181	100.145	-34.787	1.00	25.08	Al6s	ATOM	36402	O2 CYT	800	172.427	109.024	-36.186	1.00	24.49	Al6
ATOM	36350	O5' ADE	798	171.799	102.108	-36.208	1.00	36.74	Al6s	ATOM	36403	N3 CYT	800	172.085	107.134	-34.951	1.00	24.49	Al6
ATOM	36351	C5' ADE	798	173.012	102.523	-35.561	1.00	36.74	Al6s	ATOM	36404	C4 CYT	800	171.351	106.043	-34.749	1.00	24.49	Al6
ATOM	36352	C4' ADE	798	173.485	103.817	-36.166	1.00	36.74	Al6s	ATOM	36405	N4 CYT	800	171.662	105.268	-33.720	1.00	24.49	Al6
ATOM	36353	O4' ADE	798	174.370	104.518	-35.259	1.00	36.74	Al6s	ATOM	36406	C5 CYT	800	170.254	105.704	-35.586	1.00	24.49	Al6
ATOM	36354	C1' ADE	798	175.536	104.891	-35.943	1.00	36.74	Al6s	ATOM	36407	C2' CYT	800	170.811	108.248	-39.209	1.00	28.52	Al6
ATOM	36355	N9 ADE	798	176.642	104.859	-34.991	1.00	25.08	Al6s	ATOM	36408	O2' CYT	800	172.142	108.721	-39.356	1.00	28.52	Al6
ATOM	36356	C4 ADE	798	177.348	105.949	-34.563	1.00	25.08	Al6s	ATOM	36409	C3' CYT	800	169.794	108.963	-40.097	1.00	28.52	Al6
ATOM	36357	N3 ADE	798	177.196	107.217	-34.958	1.00	25.08	Al6s	ATOM	36410	O3' CYT	800	170.192	110.329	-40.212	1.00	28.52	Al6
ATOM	36358	C2 ADE	798	178.045	108.006	-34.308	1.00	25.08	Al6s	ATOM	36411	P	801	169.281	111.370	-41.021	1.00	34.19	Al6
ATOM	36359	N1 ADE	798	178.951	107.689	-33.383	1.00	25.08	Al6s	ATOM	36412	O1P GUA	801	168.066	110.672	-41.529	1.00	45.50	Al6
ATOM	36360	C6 ADE	798	179.075	106.400	-33.022	1.00	25.08	Al6s	ATOM	36413	O2P GUA	801	170.130	112.127	-41.962	1.00	45.50	Al6
ATOM	36361	N6 ADE	798	179.971	106.076	-32.109	1.00	25.08	Al6s	ATOM	36414	O5' GUA	801	168.842	112.407	-39.902	1.00	34.19	Al6
ATOM	36362	C5 ADE	798	178.250	105.475	-33.630	1.00	25.08	Al6s	ATOM	36415	C5' GUA	801	169.785	113.331	-39.331	1.00	34.19	Al6
ATOM	36363	N7 ADE	798	178.143	104.105	-33.492	1.00	25.08	Al6s	ATOM	36416	C4' GUA	801	169.226	113.900	-38.053	1.00	34.19	Al6
ATOM	36364	C8 ADE	798	177.179	103.785	-34.323	1.00	25.08	Al6s	ATOM	36417	O4' GUA	801	167.928	114.496	-38.347	1.00	34.19	Al6
ATOM	36365	C2' ADE	798	176.389	104.555	-38.175	1.00	36.74	Al6s	ATOM	36418	C1' GUA	801	166.958	113.938	-37.490	1.00	34.19	Al6
ATOM	36366	O2' ADE	798	175.656	103.940	-37.135	1.00	36.74	Al6s	ATOM	36419	N9 GUA	801	165.643	114.009	-38.109	1.00	45.50	Al6
ATOM	36367	C3' ADE	798	174.136	104.722	-37.507	1.00	36.74	Al6s	ATOM	36420	C4 GUA	801	165.444	114.555	-37.534	1.00	45.50	Al6
ATOM	36368	O3' ADE	798	173.736	104.789	-38.327	1.00	36.74	Al6s	ATOM	36421	N3 GUA	801	164.444	115.108	-36.301	1.00	45.50	Al6
ATOM	36369	P	799	173.588	104.576	-39.913	1.00	34.03	Al6s	ATOM	36422	C2 GUA	801	163.228	115.540	-36.029	1.00	45.50	Al6
ATOM	36370	O1P ADE	799	172.945	105.802	-40.462	1.00	24.35	Al6s	ATOM	36423	N2 GUA	801	162.974	116.107	-34.845	1.00	45.50	Al6
ATOM	36371	O2P ADE	799	174.901	104.129	-40.465	1.00	24.35	Al6s	ATOM	36424	N1 GUA	801	162.175	115.443	-36.903	1.00	45.50	Al6
ATOM	36372	O5' ADE	799	172.574	103.351	-40.041	1.00	34.03	Al6s	ATOM	36425	C6 GUA	801	162.240	114.881	-38.177	1.00	45.50	Al6
ATOM	36373	C5' ADE	799	171.188	103.490	-39.717	1.00	34.03	Al6s	ATOM	36426	O6 GUA	801	161.234	114.846	-38.890	1.00	45.50	Al6
ATOM	36374	C4' ADE	799	170.366	103.332	-40.963	1.00	34.03	Al6s	ATOM	36427	C5 GUA	801	163.526	114.412	-38.471	1.00	45.50	Al6
ATOM	36375	O4' ADE	799	170.586	102.030	-41.545	1.00	34.03	Al6s	ATOM	36428	N7 GUA	801	164.011	113.791	-39.610	1.00	45.50	Al6
ATOM	36376	C1' ADE	799	169.412	101.580	-42.187	1.00	34.03	Al6s	ATOM	36429	C8 GUA	801	165.271	113.570	-39.349	1.00	45.50	Al6

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ATOM	36430	C2' GUA	801	167.485	112.560	-37.133	1.00	34.19	Al6s	ATOM	36483	C1' GUA	804	156.390	106.642	-36.646	1.00	29.54	Al6s
ATOM	36431	O2' GUA	801	166.799	112.079	-36.005	1.00	34.19	Al6s	ATOM	36484	N9 GUA	804	155.524	107.132	-35.582	1.00	34.53	Al6s
ATOM	36432	C3' GUA	801	168.973	112.876	-36.951	1.00	34.19	Al6s	ATOM	36485	C4 GUA	804	154.159	107.043	-35.541	1.00	34.53	Al6s
ATOM	36433	O3' GUA	801	169.160	113.545	-35.706	1.00	34.19	Al6s	ATOM	36486	N3 GUA	804	153.378	106.483	-36.476	1.00	34.53	Al6s
ATOM	36434	P ADE	802	170.246	113.019	-34.644	1.00	38.29	Al6s	ATOM	36487	C2 GUA	804	152.105	106.577	-36.173	1.00	34.53	Al6s
ATOM	36435	O1P ADE	802	170.169	113.971	-33.500	1.00	38.29	Al6s	ATOM	36488	N2 GUA	804	151.186	106.119	-37.017	1.00	34.53	Al6s
ATOM	36436	O2P ADE	802	171.545	112.808	-35.326	1.00	28.82	Al6s	ATOM	36489	N1 GUA	804	151.633	107.139	-35.029	1.00	34.53	Al6s
ATOM	36437	O5' ADE	802	169.663	111.626	-34.146	1.00	38.29	Al6s	ATOM	36490	C6 GUA	804	152.416	107.715	-34.044	1.00	34.53	Al6s
ATOM	36438	C5' ADE	802	169.138	110.733	-35.112	1.00	38.29	Al6s	ATOM	36491	O6 GUA	804	151.883	108.194	-33.034	1.00	34.53	Al6s
ATOM	36439	C4' ADE	802	168.805	109.403	-34.523	1.00	38.29	Al6s	ATOM	36492	C5 GUA	804	153.789	107.653	-33.373	1.00	34.53	Al6s
ATOM	36440	O4' ADE	802	169.955	108.854	-33.865	1.00	38.29	Al6s	ATOM	36493	N7 GUA	804	154.902	108.122	-33.689	1.00	34.53	Al6s
ATOM	36441	C1' ADE	802	169.553	108.175	-32.717	1.00	38.29	Al6s	ATOM	36494	C8 GUA	804	155.907	107.785	-34.441	1.00	34.53	Al6s
ATOM	36442	N9 ADE	802	170.660	108.263	-31.771	1.00	28.82	Al6s	ATOM	36495	C2' GUA	804	156.187	107.441	-37.933	1.00	29.54	Al6s
ATOM	36443	C4 ADE	802	171.036	107.315	-30.853	1.00	28.82	Al6s	ATOM	36496	O2' GUA	804	156.323	106.591	-39.050	1.00	29.54	Al6s
ATOM	36444	N3 ADE	802	170.455	106.129	-30.628	1.00	28.82	Al6s	ATOM	36497	C3' GUA	804	157.308	108.459	-37.837	1.00	29.54	Al6s
ATOM	36445	C2 ADE	802	171.101	105.472	-29.663	1.00	28.82	Al6s	ATOM	36498	O3' GUA	804	157.690	108.969	-39.091	1.00	29.54	Al6s
ATOM	36446	N1 ADE	802	172.177	105.841	-28.957	1.00	28.82	Al6s	ATOM	36499	P CYT	805	157.233	110.441	-39.498	1.00	32.79	Al6s
ATOM	36447	C6 ADE	802	172.735	107.039	-29.214	1.00	28.82	Al6s	ATOM	36500	O1P CYT	805	158.055	110.914	-40.632	1.00	40.76	Al6s
ATOM	36448	N6 ADE	802	173.816	107.399	-28.513	1.00	28.82	Al6s	ATOM	36501	O2P CYT	805	157.145	111.260	-38.268	1.00	40.76	Al6s
ATOM	36449	C5 ADE	802	172.144	107.831	-30.210	1.00	28.82	Al6s	ATOM	36502	O5' CYT	805	155.768	110.201	-40.048	1.00	32.79	Al6s
ATOM	36450	N7 ADE	802	172.457	109.082	-30.710	1.00	28.82	Al6s	ATOM	36503	C5' CYT	805	155.555	109.328	-41.159	1.00	32.79	Al6s
ATOM	36451	C8 ADE	802	171.549	109.291	-31.632	1.00	28.82	Al6s	ATOM	36504	C4' CYT	805	154.084	109.082	-41.351	1.00	32.79	Al6s
ATOM	36452	C2' ADE	802	168.248	108.835	-32.273	1.00	38.29	Al6s	ATOM	36505	O4' CYT	805	153.546	108.317	-40.237	1.00	32.79	Al6s
ATOM	36453	O2' ADE	802	167.470	107.869	-31.591	1.00	38.29	Al6s	ATOM	36506	C1' CYT	805	152.212	108.728	-39.978	1.00	32.79	Al6s
ATOM	36454	C3' ADE	802	167.612	109.254	-33.602	1.00	38.29	Al6s	ATOM	36507	N1 CYT	805	152.134	109.290	-38.621	1.00	40.76	Al6s
ATOM	36455	O3' ADE	802	166.802	108.227	-34.161	1.00	38.29	Al6s	ATOM	36508	C6 CYT	805	153.254	109.724	-37.971	1.00	40.76	Al6s
ATOM	36456	P URI	803	165.715	108.596	-35.738	1.00	31.64	Al6s	ATOM	36509	C2 CYT	805	149.887	108.970	-38.608	1.00	40.76	Al6s
ATOM	36457	O1P URI	803	165.081	107.334	-35.792	1.00	34.95	Al6s	ATOM	36510	O2 CYT	805	150.798	109.893	-36.768	1.00	40.76	Al6s
ATOM	36458	O2P URI	803	166.274	109.511	-36.304	1.00	34.95	Al6s	ATOM	36511	N3 CYT	805	151.892	110.312	-36.143	1.00	40.76	Al6s
ATOM	36459	O5' URI	803	164.658	109.475	-34.494	1.00	31.64	Al6s	ATOM	36512	C4 CYT	805	151.751	110.816	-34.927	1.00	40.76	Al6s
ATOM	36460	C5' URI	803	163.657	108.879	-33.642	1.00	31.64	Al6s	ATOM	36513	N4 CYT	805	153.179	110.232	-36.741	1.00	40.76	Al6s
ATOM	36461	C4' URI	803	162.555	109.876	-33.384	1.00	31.64	Al6s	ATOM	36514	C5 CYT	805	151.852	109.768	-41.029	1.00	32.79	Al6s
ATOM	36462	O4' URI	803	163.099	111.006	-32.660	1.00	31.64	Al6s	ATOM	36515	C2' CYT	805	151.285	109.100	-42.135	1.00	32.79	Al6s
ATOM	36463	C1' URI	803	162.847	112.189	-33.377	1.00	31.64	Al6s	ATOM	36516	O2' CYT	805	153.222	110.322	-41.362	1.00	32.79	Al6s
ATOM	36464	N1 URI	803	163.937	113.136	-33.107	1.00	34.95	Al6s	ATOM	36517	C3' CYT	805	153.257	111.015	-42.573	1.00	32.79	Al6s
ATOM	36465	C6 URI	803	165.197	112.964	-33.628	1.00	34.95	Al6s	ATOM	36518	O3' CYT	806	153.062	112.598	-42.544	1.00	44.21	Al6s
ATOM	36466	C2 URI	803	163.653	114.207	-32.297	1.00	34.95	Al6s	ATOM	36519	P GUA	806	153.395	113.094	-43.907	1.00	34.08	Al6s
ATOM	36467	O2 URI	803	162.555	114.403	-31.819	1.00	34.95	Al6s	ATOM	36520	O1P GUA	806	153.817	113.105	-41.362	1.00	44.21	Al6s
ATOM	36468	N3 URI	803	164.710	115.044	-32.063	1.00	34.95	Al6s	ATOM	36521	O2P GUA	806	150.549	112.048	-43.097	1.00	44.21	Al6s
ATOM	36469	C4 URI	803	165.985	114.924	-32.548	1.00	34.95	Al6s	ATOM	36522	O5' GUA	806	149.135	112.297	-42.636	1.00	44.21	Al6s
ATOM	36470	O4 URI	803	166.828	115.756	-32.233	1.00	34.95	Al6s	ATOM	36523	C5' GUA	806	148.855	111.562	-41.418	1.00	44.21	Al6s
ATOM	36471	C5 URI	803	166.200	113.802	-33.382	1.00	34.95	Al6s	ATOM	36524	C4' GUA	806	147.926	112.291	-40.626	1.00	44.21	Al6s
ATOM	36472	C2' URI	803	162.658	111.761	-34.827	1.00	31.64	Al6s	ATOM	36525	O1' GUA	806	148.491	113.317	-35.889	1.00	34.08	Al6s
ATOM	36473	O2' URI	803	161.861	112.682	-35.525	1.00	31.64	Al6s	ATOM	36526	C1' GUA	806	147.121	113.250	-35.715	1.00	34.08	Al6s
ATOM	36474	C3' URI	803	161.925	110.444	-34.648	1.00	31.64	Al6s	ATOM	36527	N9 GUA	806	146.550	112.747	-37.964	1.00	34.08	Al6s
ATOM	36475	O3' URI	803	160.575	110.790	-34.400	1.00	31.64	Al6s	ATOM	36528	C4 GUA	806	146.218	112.981	-36.705	1.00	34.08	Al6s
ATOM	36476	P GUA	804	159.471	109.645	-34.207	1.00	29.54	Al6s	ATOM	36529	N3 GUA	806	144.927	112.965	-36.340	1.00	34.08	Al6s
ATOM	36477	O1P GUA	804	158.392	110.252	-33.372	1.00	34.53	Al6s	ATOM	36530	C2 GUA	806	147.121	113.250	-35.715	1.00	34.08	Al6s
ATOM	36478	O2P GUA	804	160.152	108.397	-33.743	1.00	34.53	Al6s	ATOM	36531	N2 GUA	806	148.491	113.317	-35.889	1.00	34.08	Al6s
ATOM	36479	O5' GUA	804	158.891	109.418	-35.668	1.00	29.54	Al6s	ATOM	36532	N1 GUA	806	149.213	113.569	-34.928	1.00	34.08	Al6s
ATOM	36480	C5' GUA	804	159.480	108.465	-36.516	1.00	29.54	Al6s	ATOM	36533	C6 GUA	806	148.860	113.069	-37.228	1.00	34.08	Al6s
ATOM	36481	C4' GUA	804	158.418	107.661	-37.193	1.00	29.54	Al6s	ATOM	36534	O6 GUA	806						
ATOM	36482	O4' GUA	804	157.739	106.811	-36.241	1.00	29.54	Al6s	ATOM	36535	C5 GUA	806						

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ATOM	36536	N7 GUA	806	150.111	113.035	-37.818	1.00	34.08	Al6s	ATOM	36589	C5' CYT	809	143.902	126.339	-36.216	1.00	36.27	Al6
ATOM	36537	C9' GUA	806	149.873	112.758	-39.068	1.00	34.08	Al6s	ATOM	36590	C4' CYT	809	144.388	126.475	-34.801	1.00	36.27	Al6
ATOM	36538	C2' GUA	806	147.571	113.561	-41.392	1.00	44.21	Al6s	ATOM	36591	O4' CYT	809	144.815	125.186	-34.314	1.00	36.27	Al6
ATOM	36539	O2' GUA	806	146.398	113.342	-42.147	1.00	44.21	Al6s	ATOM	36592	C1' CYT	809	145.916	125.347	-33.437	1.00	36.27	Al6
ATOM	36540	C3' GUA	806	148.788	113.728	-42.285	1.00	44.21	Al6s	ATOM	36593	N1 CYT	809	147.072	124.603	-33.986	1.00	34.77	Al6
ATOM	36541	O3' GUA	806	148.513	114.546	-43.400	1.00	44.21	Al6s	ATOM	36594	C6 CYT	809	147.069	124.137	-35.273	1.00	34.77	Al6
ATOM	36542	P CYT	807	148.753	116.127	-43.269	1.00	44.25	Al6s	ATOM	36595	C2 CYT	809	148.191	124.394	-33.163	1.00	34.77	Al6
ATOM	36543	O1P CYT	807	148.554	116.781	-44.601	1.00	34.98	Al6s	ATOM	36596	O2 CYT	809	148.156	124.792	-31.995	1.00	34.77	Al6
ATOM	36544	O2P CYT	807	150.031	116.307	-42.535	1.00	34.98	Al6s	ATOM	36597	N3 CYT	809	149.269	123.764	-33.662	1.00	34.77	Al6
ATOM	36545	O5' CYT	807	147.579	116.593	-42.309	1.00	44.25	Al6s	ATOM	36598	C4 CYT	809	149.261	123.336	-34.921	1.00	34.77	Al6
ATOM	36546	C5' CYT	807	146.219	116.471	-42.731	1.00	44.25	Al6s	ATOM	36599	N4 CYT	809	150.351	122.735	-35.374	1.00	34.77	Al6
ATOM	36547	C4' CYT	807	145.307	116.958	-41.654	1.00	44.25	Al6s	ATOM	36600	C5 CYT	809	148.130	123.507	-35.773	1.00	34.77	Al6
ATOM	36548	O4' CYT	807	145.349	116.047	-40.532	1.00	44.25	Al6s	ATOM	36601	C2' CYT	809	146.189	126.844	-33.305	1.00	36.27	Al6
ATOM	36549	C1' CYT	807	145.167	116.770	-39.332	1.00	44.25	Al6s	ATOM	36602	O2' CYT	809	145.532	127.335	-32.157	1.00	36.27	Al6
ATOM	36550	N1 CYT	807	146.348	116.592	-38.486	1.00	34.98	Al6s	ATOM	36603	C3' CYT	809	145.584	127.382	-34.594	1.00	36.27	Al6
ATOM	36551	C6 CYT	807	147.593	116.424	-39.026	1.00	34.98	Al6s	ATOM	36604	O3' CYT	809	145.175	128.731	-34.462	1.00	36.27	Al6
ATOM	36552	C2 CYT	807	146.180	116.631	-37.104	1.00	34.98	Al6s	ATOM	36605	P CYT	810	146.215	129.906	-34.776	1.00	38.06	Al6
ATOM	36553	O2 CYT	807	145.026	116.738	-36.643	1.00	34.98	Al6s	ATOM	36606	O1P CYT	810	145.474	131.176	-34.580	1.00	43.00	Al6
ATOM	36554	N3 CYT	807	147.270	116.547	-36.301	1.00	34.98	Al6s	ATOM	36607	O2P CYT	810	146.846	129.618	-36.087	1.00	43.00	Al6
ATOM	36555	C4 CYT	807	148.484	116.423	-36.839	1.00	34.98	Al6s	ATOM	36608	O5' CYT	810	147.327	129.779	-33.640	1.00	38.06	Al6
ATOM	36556	N4 CYT	807	149.526	116.392	-36.014	1.00	34.98	Al6s	ATOM	36609	C5' CYT	810	147.153	130.444	-32.381	1.00	38.06	Al6
ATOM	36557	C5 CYT	807	148.679	116.339	-38.247	1.00	34.98	Al6s	ATOM	36610	C4' CYT	810	148.378	130.286	-31.513	1.00	38.06	Al6
ATOM	36558	C2' CYT	807	144.990	118.240	-39.702	1.00	44.25	Al6s	ATOM	36611	O4' CYT	810	148.673	128.882	-31.356	1.00	38.06	Al6
ATOM	36559	O2' CYT	807	143.612	118.514	-39.822	1.00	44.25	Al6s	ATOM	36612	C1' CYT	810	150.061	128.690	-31.214	1.00	38.06	Al6
ATOM	36560	C3' CYT	807	145.683	118.295	-41.051	1.00	44.25	Al6s	ATOM	36613	N1 CYT	810	150.517	127.828	-32.314	1.00	43.00	Al6
ATOM	36561	O3' CYT	807	145.224	119.365	-41.842	1.00	44.25	Al6s	ATOM	36614	C6 CYT	810	149.683	127.504	-33.349	1.00	43.00	Al6
ATOM	36562	P CYT	808	145.870	120.818	-41.648	1.00	35.78	Al6s	ATOM	36615	O2 CYT	810	151.815	127.355	-32.273	1.00	43.00	Al6
ATOM	36563	O1P GUA	808	145.302	121.665	-42.737	1.00	35.73	Al6s	ATOM	36616	N3 CYT	810	152.594	127.623	-31.370	1.00	43.00	Al6
ATOM	36564	O2P GUA	808	147.335	120.676	-41.514	1.00	35.73	Al6s	ATOM	36617	C4 CYT	810	152.171	126.567	-33.331	1.00	43.00	Al6
ATOM	36565	O5' GUA	808	145.272	121.306	-40.254	1.00	35.78	Al6s	ATOM	36618	O4 CYT	810	151.389	126.224	-34.401	1.00	43.00	Al6
ATOM	36566	C5' GUA	808	143.861	121.512	-40.115	1.00	35.78	Al6s	ATOM	36619	O5 CYT	810	151.899	125.645	-35.354	1.00	43.00	Al6
ATOM	36567	C4' GUA	808	143.534	121.924	-38.718	1.00	35.78	Al6s	ATOM	36620	C5' CYT	810	150.063	126.739	-34.364	1.00	43.00	Al6
ATOM	36568	O4' GUA	808	143.811	120.837	-37.804	1.00	35.78	Al6s	ATOM	36621	C2' CYT	810	150.703	130.070	-31.216	1.00	38.06	Al6
ATOM	36569	C1' GUA	808	144.217	121.363	-36.555	1.00	35.78	Al6s	ATOM	36622	O2' CYT	810	150.766	130.509	-29.876	1.00	38.06	Al6
ATOM	36570	N9 GUA	808	145.540	120.832	-36.222	1.00	35.73	Al6s	ATOM	36623	C3' CYT	810	149.683	130.879	-31.996	1.00	38.06	Al6
ATOM	36571	C4 GUA	808	146.169	120.899	-34.994	1.00	35.73	Al6s	ATOM	36624	O3' CYT	810	149.777	132.233	-31.621	1.00	38.06	Al6
ATOM	36572	N3 GUA	808	145.659	121.436	-33.867	1.00	35.73	Al6s	ATOM	36625	P ADE	811	150.020	133.345	-32.741	1.00	44.59	Al6
ATOM	36573	C2 GUA	808	146.514	121.385	-32.866	1.00	35.73	Al6s	ATOM	36626	O1P ADE	811	150.154	134.620	-31.972	1.00	47.18	Al6
ATOM	36574	N2 GUA	808	147.763	121.879	-31.683	1.00	35.73	Al6s	ATOM	36627	O2P ADE	811	148.968	133.206	-33.795	1.00	47.18	Al6
ATOM	36575	N1 GUA	808	147.310	120.285	-34.096	1.00	35.73	Al6s	ATOM	36628	O5' ADE	811	151.419	132.979	-33.415	1.00	44.59	Al6
ATOM	36576	C6 GUA	808	148.310	120.285	-34.096	1.00	35.73	Al6s	ATOM	36629	C5' ADE	811	152.656	133.208	-32.725	1.00	44.59	Al6
ATOM	36577	O6 GUA	808	149.457	119.825	-35.067	1.00	35.73	Al6s	ATOM	36630	C4' ADE	811	153.078	134.649	-32.876	1.00	44.59	Al6
ATOM	36578	C5 GUA	808	147.405	120.334	-35.187	1.00	35.73	Al6s	ATOM	36631	O4' ADE	811	154.081	134.946	-31.878	1.00	44.59	Al6
ATOM	36579	N7 GUA	808	147.550	119.899	-36.494	1.00	35.73	Al6s	ATOM	36632	C1' ADE	811	154.961	135.935	-32.367	1.00	44.59	Al6
ATOM	36580	C8 GUA	808	146.418	120.204	-37.067	1.00	35.73	Al6s	ATOM	36633	N9 ADE	811	156.299	135.364	-32.426	1.00	47.18	Al6
ATOM	36581	O2' GUA	808	144.220	122.894	-36.686	1.00	35.78	Al6s	ATOM	36634	C4 ADE	811	157.448	135.967	-31.994	1.00	47.18	Al6
ATOM	36582	C2' GUA	808	143.001	123.442	-36.230	1.00	35.78	Al6s	ATOM	36635	N3 ADE	811	157.564	137.177	-31.430	1.00	47.18	Al6
ATOM	36583	C3' GUA	808	144.342	123.082	-38.184	1.00	35.78	Al6s	ATOM	36636	C2 ADE	811	158.825	137.432	-31.318	1.00	47.18	Al6
ATOM	36584	O3' GUA	808	143.782	124.316	-38.579	1.00	35.78	Al6s	ATOM	36637	N1 ADE	811	159.921	136.674	-31.318	1.00	47.18	Al6
ATOM	36585	P CYT	809	144.700	125.635	-38.620	1.00	36.27	Al6s	ATOM	36638	C6 ADE	811	159.766	135.467	-31.898	1.00	47.18	Al6
ATOM	36586	O1P CYT	809	143.814	126.663	-39.196	1.00	34.77	Al6s	ATOM	36639	N6 ADE	811	160.846	134.715	-32.097	1.00	47.18	Al6
ATOM	36587	O2P CYT	809	146.007	125.344	-39.274	1.00	34.77	Al6s	ATOM	36640	C5 ADE	811	158.465	135.076	-32.261	1.00	47.18	Al6
ATOM	36588	O5' CYT	809	144.983	125.975	-37.088	1.00	36.27	Al6s	ATOM	36641	N7 ADE	811	157.964	133.926	-32.856	1.00	47.18	Al6

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ATOM	36642	C8	811	156.678	134.146	-32.927	1.00	47.18	Al6s	ATOM	36695	O2P	814	162.252	139.613	-42.425	1.00	61.06	Al6
ATOM	36643	C2' ADE	811	154.483	136.332	-33.756	1.00	44.59	Al6s	ATOM	36696	O5' URI	814	164.716	139.310	-42.093	1.00	51.64	Al6
ATOM	36644	O2' ADE	811	153.653	137.467	-33.652	1.00	44.59	Al6s	ATOM	36697	C5' URI	814	165.995	139.670	-41.537	1.00	51.64	Al6
ATOM	36645	C3' ADE	811	153.715	135.092	-34.185	1.00	44.59	Al6s	ATOM	36698	C4' URI	814	166.988	138.542	-41.702	1.00	51.64	Al6
ATOM	36646	O3' ADE	811	152.792	135.424	-35.210	1.00	44.59	Al6s	ATOM	36699	O4' URI	814	166.644	137.451	-40.814	1.00	51.64	Al6
ATOM	36647	P	812	153.337	135.742	-36.695	1.00	44.82	Al6s	ATOM	36700	C1' URI	814	166.966	136.217	-41.428	1.00	51.64	Al6
ATOM	36648	O1P	812	152.191	136.221	-37.495	1.00	42.32	Al6s	ATOM	36701	N1 URI	814	165.719	135.460	-41.625	1.00	61.06	Al6
ATOM	36649	O2P	812	154.133	134.585	-37.170	1.00	44.82	Al6s	ATOM	36702	C6 URI	814	164.513	136.095	-41.825	1.00	61.06	Al6
ATOM	36650	O5' GUA	812	154.321	136.975	-36.490	1.00	44.82	Al6s	ATOM	36703	C2 URI	814	165.805	134.080	-41.641	1.00	61.06	Al6
ATOM	36651	C6' GUA	812	155.415	137.223	-37.385	1.00	44.82	Al6s	ATOM	36704	O2 URI	814	166.832	133.475	-41.397	1.00	61.06	Al6
ATOM	36652	C4' GUA	812	156.546	137.874	-36.629	1.00	44.82	Al6s	ATOM	36705	N3 URI	814	164.638	133.432	-41.942	1.00	61.06	Al6
ATOM	36653	O4' GUA	812	156.893	137.020	-35.512	1.00	44.82	Al6s	ATOM	36706	C4 URI	814	163.414	134.003	-42.195	1.00	61.06	Al6
ATOM	36654	C1' GUA	812	158.298	136.943	-35.380	1.00	44.82	Al6s	ATOM	36707	O4 URI	814	162.473	133.282	-42.531	1.00	61.06	Al6
ATOM	36655	N9 GUA	812	158.694	135.578	-35.721	1.00	42.32	Al6s	ATOM	36708	C5 URI	814	163.391	135.432	-42.100	1.00	61.06	Al6
ATOM	36656	C4 GUA	812	159.946	135.029	-35.578	1.00	42.32	Al6s	ATOM	36709	C2' URI	814	167.640	136.531	-42.767	1.00	51.64	Al6
ATOM	36657	N3 GUA	812	161.033	135.660	-35.096	1.00	42.32	Al6s	ATOM	36710	O2' URI	814	167.042	136.581	-42.615	1.00	51.64	Al6
ATOM	36658	C2 GUA	812	162.094	134.885	-35.095	1.00	42.32	Al6s	ATOM	36711	C3' URI	814	167.065	137.902	-43.079	1.00	51.64	Al6
ATOM	36659	N2 GUA	812	163.261	135.377	-34.675	1.00	42.32	Al6s	ATOM	36712	O3' URI	814	167.876	138.632	-43.984	1.00	51.64	Al6
ATOM	36660	N1 GUA	812	162.091	133.579	-35.510	1.00	42.32	Al6s	ATOM	36713	P	815	167.554	138.565	-45.554	1.00	60.27	Al6
ATOM	36661	C6 GUA	812	160.982	132.899	-35.998	1.00	42.32	Al6s	ATOM	36714	O1P	815	168.321	139.671	-46.172	1.00	50.46	Al6
ATOM	36662	O6 GUA	812	161.080	131.707	-36.319	1.00	42.32	Al6s	ATOM	36715	O2P	815	166.083	138.488	-45.771	1.00	50.46	Al6
ATOM	36663	C5 GUA	812	159.835	133.735	-36.037	1.00	42.32	Al6s	ATOM	36716	O5' URI	815	168.196	137.167	-45.979	1.00	60.27	Al6
ATOM	36664	N7 GUA	812	158.542	133.475	-36.472	1.00	42.32	Al6s	ATOM	36717	C5' URI	815	169.614	136.953	-45.840	1.00	60.27	Al6
ATOM	36665	C8 GUA	812	158.900	134.592	-36.259	1.00	42.32	Al6s	ATOM	36718	C4' URI	815	169.990	135.521	-46.148	1.00	60.27	Al6
ATOM	36666	C2' GUA	812	158.903	137.970	-36.339	1.00	44.82	Al6s	ATOM	36719	O4' URI	815	169.520	134.645	-45.094	1.00	60.27	Al6
ATOM	36667	O2' GUA	812	159.089	139.196	-35.672	1.00	44.82	Al6s	ATOM	36720	C1' URI	815	169.241	133.365	-45.637	1.00	60.27	Al6
ATOM	36668	C3' GUA	812	157.833	138.030	-37.416	1.00	44.82	Al6s	ATOM	36721	N1 URI	815	167.800	133.089	-45.513	1.00	50.46	Al6
ATOM	36669	O3' GUA	812	158.435	139.224	-38.172	1.00	44.82	Al6s	ATOM	36722	C6 URI	815	166.891	134.101	-45.384	1.00	50.46	Al6
ATOM	36670	P	813	158.435	139.192	-39.672	1.00	51.64	Al6s	ATOM	36723	C2 URI	815	167.370	131.756	-45.568	1.00	50.46	Al6
ATOM	36671	O1P	813	158.142	140.517	-40.269	1.00	50.78	Al6s	ATOM	36724	O2 URI	815	168.218	130.854	-45.634	1.00	50.46	Al6
ATOM	36672	O2P	813	157.971	137.950	-40.366	1.00	50.78	Al6s	ATOM	36725	N3 URI	815	166.048	131.485	-45.544	1.00	50.46	Al6
ATOM	36673	O5' GUA	813	159.999	139.102	-39.432	1.00	51.64	Al6s	ATOM	36726	C4 URI	815	165.171	132.479	-45.450	1.00	50.46	Al6
ATOM	36674	C5' GUA	813	160.636	140.104	-38.664	1.00	51.64	Al6s	ATOM	36727	N4 URI	815	163.877	132.166	-45.460	1.00	50.46	Al6
ATOM	36675	C4' GUA	813	162.047	139.708	-38.360	1.00	51.64	Al6s	ATOM	36728	C5 URI	815	165.581	133.843	-45.350	1.00	50.46	Al6
ATOM	36676	O4' GUA	813	162.059	138.553	-37.484	1.00	51.64	Al6s	ATOM	36729	C2' URI	815	169.598	133.406	-47.119	1.00	60.27	Al6
ATOM	36677	C1' GUA	813	163.226	137.788	-37.726	1.00	51.64	Al6s	ATOM	36730	O2' URI	815	170.912	132.928	-47.308	1.00	60.27	Al6
ATOM	36678	N9 GUA	813	162.818	136.459	-38.162	1.00	50.78	Al6s	ATOM	36731	C3' URI	815	169.453	134.888	-47.423	1.00	60.27	Al6
ATOM	36679	C4 GUA	813	163.616	135.347	-38.236	1.00	50.78	Al6s	ATOM	36732	O3' URI	815	170.155	135.234	-48.603	1.00	60.27	Al6
ATOM	36680	N3 GUA	813	164.905	135.278	-37.864	1.00	50.78	Al6s	ATOM	36733	P	816	169.383	135.196	-50.017	1.00	48.71	Al6
ATOM	36681	C2 GUA	813	165.415	134.086	-38.094	1.00	50.78	Al6s	ATOM	36734	O1P	816	170.339	135.670	-51.035	1.00	54.76	Al6
ATOM	36682	N2 GUA	813	166.690	133.840	-37.787	1.00	50.78	Al6s	ATOM	36735	O2P	816	168.074	133.582	-49.876	1.00	54.76	Al6
ATOM	36683	N1 GUA	813	166.714	133.047	-38.645	1.00	50.78	Al6s	ATOM	36736	O5' URI	816	169.129	133.644	-50.285	1.00	48.71	Al6
ATOM	36684	C6 GUA	813	163.387	133.101	-39.045	1.00	50.78	Al6s	ATOM	36737	C5' URI	816	170.239	132.740	-50.386	1.00	48.71	Al6
ATOM	36685	O6 GUA	813	162.857	132.112	-39.574	1.00	50.78	Al6s	ATOM	36738	C4' URI	816	169.775	131.301	-50.534	1.00	48.71	Al6
ATOM	36686	C5 GUA	813	162.826	134.365	-38.790	1.00	50.78	Al6s	ATOM	36739	O4' URI	816	169.091	130.994	-49.139	1.00	48.71	Al6
ATOM	36687	N7 GUA	813	161.544	134.837	-39.020	1.00	50.78	Al6s	ATOM	36740	C1' URI	816	168.085	130.017	-49.316	1.00	48.71	Al6
ATOM	36688	C8 GUA	813	161.583	136.080	-38.624	1.00	50.78	Al6s	ATOM	36741	N1 URI	816	166.769	130.586	-49.036	1.00	54.76	Al6
ATOM	36689	C2' GUA	813	164.004	138.496	-38.837	1.00	51.64	Al6s	ATOM	36742	C6 URI	816	166.588	131.943	-48.908	1.00	54.76	Al6
ATOM	36690	O2' GUA	813	164.977	139.347	-38.268	1.00	51.64	Al6s	ATOM	36743	C2 URI	816	165.699	129.708	-48.887	1.00	54.76	Al6
ATOM	36691	C3' GUA	813	162.902	139.280	-39.533	1.00	51.64	Al6s	ATOM	36744	O2 URI	816	165.819	128.493	-48.900	1.00	54.76	Al6
ATOM	36692	O3' GUA	813	163.391	140.380	-40.281	1.00	51.64	Al6s	ATOM	36745	N3 URI	816	164.484	130.311	-48.702	1.00	54.76	Al6
ATOM	36693	P	814	163.466	140.270	-41.885	1.00	51.64	Al6s	ATOM	36746	C4 URI	816	164.232	131.662	-48.612	1.00	54.76	Al6
ATOM	36694	O1P	814	163.831	141.606	-42.383	1.00	61.06	Al6s	ATOM	36747	O4 URI	816	163.061	132.058	-48.567	1.00	54.76	Al6

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ATOM	36748	C5	URI	816	165.394	132.492	-48.701	1.00	54.76	Al6S	ATOM	36801	N9	GUA	819	156.294	129.213	-57.733	1.00	51.29	Al6
ATOM	36749	C2	URI	816	168.146	129.641	-50.861	1.00	48.71	Al6S	ATOM	36802	C4	GUA	819	155.446	129.859	-56.865	1.00	51.29	Al6
ATOM	36750	O2	URI	816	168.887	128.442	-51.015	1.00	48.71	Al6S	ATOM	36803	N3	GUA	819	154.106	129.690	-56.796	1.00	51.29	Al6
ATOM	36751	C3	URI	816	168.801	130.882	-51.470	1.00	48.71	Al6S	ATOM	36804	C2	GUA	819	153.550	130.469	-55.887	1.00	51.29	Al6
ATOM	36752	O3	URI	816	169.462	130.598	-52.691	1.00	48.71	Al6S	ATOM	36805	N2	GUA	819	152.222	130.403	-55.686	1.00	51.29	Al6
ATOM	36753	P	CYT	817	168.674	130.760	-54.085	1.00	45.34	Al6S	ATOM	36806	N1	GUA	819	154.255	131.364	-55.111	1.00	51.29	Al6
ATOM	36754	O1P	CYT	817	169.727	130.900	-55.129	1.00	49.16	Al6S	ATOM	36807	C6	GUA	819	155.632	131.563	-55.169	1.00	51.29	Al6
ATOM	36755	O2P	CYT	817	167.616	131.801	-53.958	1.00	49.16	Al6S	ATOM	36808	O6	GUA	819	156.164	132.411	-54.438	1.00	51.29	Al6
ATOM	36756	O5	CYT	817	167.915	129.374	-54.294	1.00	45.34	Al6S	ATOM	36809	C5	GUA	819	156.245	130.706	-56.133	1.00	51.29	Al6
ATOM	36757	C6	CYT	817	168.631	128.166	-54.591	1.00	45.34	Al6S	ATOM	36810	N7	GUA	819	157.579	130.558	-56.497	1.00	51.29	Al6
ATOM	36758	C4	CYT	817	167.668	127.012	-54.733	1.00	45.34	Al6S	ATOM	36811	C8	GUA	819	157.560	129.657	-57.443	1.00	51.29	Al6
ATOM	36759	O4	CYT	817	167.019	126.752	-53.459	1.00	45.34	Al6S	ATOM	36812	C2	GUA	819	155.301	129.096	-59.936	1.00	72.08	Al6
ATOM	36760	C1	CYT	817	165.665	126.376	-53.680	1.00	45.34	Al6S	ATOM	36813	O2	GUA	819	154.237	128.362	-60.518	1.00	72.08	Al6
ATOM	36761	N1	CYT	817	164.778	127.366	-53.029	1.00	49.16	Al6S	ATOM	36814	C3	GUA	819	156.506	129.210	-60.863	1.00	72.08	Al6
ATOM	36762	C6	CYT	817	165.244	128.597	-52.652	1.00	49.16	Al6S	ATOM	36815	O3	GUA	819	156.051	129.522	-62.172	1.00	72.08	Al6
ATOM	36763	C2	CYT	817	163.433	127.029	-52.816	1.00	49.16	Al6S	ATOM	36816	P	GUA	820	155.842	131.070	-62.591	1.00	65.44	Al6
ATOM	36764	O2	CYT	817	163.040	125.892	-53.120	1.00	49.16	Al6S	ATOM	36817	O1P	GUA	820	155.497	131.043	-64.023	1.00	54.09	Al6
ATOM	36765	N3	CYT	817	162.600	127.945	-52.277	1.00	49.16	Al6S	ATOM	36818	O2P	GUA	820	156.988	131.886	-62.131	1.00	54.09	Al6
ATOM	36766	C4	CYT	817	163.061	129.147	-51.932	1.00	49.16	Al6S	ATOM	36819	O5	GUA	820	154.561	131.563	-61.778	1.00	65.44	Al6
ATOM	36767	N4	CYT	817	162.194	130.021	-51.425	1.00	49.16	Al6S	ATOM	36820	C5	GUA	820	153.226	131.149	-62.154	1.00	65.44	Al6
ATOM	36768	C5	CYT	817	164.430	129.506	-52.099	1.00	49.16	Al6S	ATOM	36821	C4	GUA	820	152.201	131.780	-61.236	1.00	65.44	Al6
ATOM	36769	C2	CYT	817	165.439	126.322	-55.190	1.00	45.34	Al6S	ATOM	36822	O4	GUA	820	152.496	131.388	-59.871	1.00	65.44	Al6
ATOM	36770	O2	CYT	817	165.608	125.006	-55.681	1.00	45.34	Al6S	ATOM	36823	C1	GUA	820	153.528	132.903	-58.441	1.00	54.09	Al6
ATOM	36771	C3	CYT	817	166.516	127.266	-55.685	1.00	45.34	Al6S	ATOM	36824	N9	GUA	820	153.713	133.805	-57.426	1.00	54.09	Al6
ATOM	36772	O3	CYT	817	166.843	127.038	-57.030	1.00	45.34	Al6S	ATOM	36825	C4	GUA	820	152.738	134.430	-56.732	1.00	54.09	Al6
ATOM	36773	P	URI	818	166.184	127.972	-58.143	1.00	42.39	Al6S	ATOM	36826	N3	GUA	820	153.232	135.259	-55.850	1.00	54.09	Al6
ATOM	36774	O1P	URI	818	166.859	127.681	-59.420	1.00	53.45	Al6S	ATOM	36827	C2	GUA	820	152.409	135.970	-55.052	1.00	54.09	Al6
ATOM	36775	O2P	URI	818	166.184	129.367	-57.618	1.00	53.45	Al6S	ATOM	36828	N2	GUA	820	154.572	135.455	-55.625	1.00	54.09	Al6
ATOM	36776	O5	URI	818	164.673	127.467	-58.211	1.00	42.39	Al6S	ATOM	36829	N1	GUA	820	155.589	134.827	-56.337	1.00	54.09	Al6
ATOM	36777	C5	URI	818	164.359	126.141	-58.672	1.00	42.39	Al6S	ATOM	36830	C6	GUA	820	156.769	135.092	-56.091	1.00	54.09	Al6
ATOM	36778	C4	URI	818	162.901	125.806	-58.409	1.00	42.39	Al6S	ATOM	36831	O6	GUA	820	155.734	133.121	-58.205	1.00	54.09	Al6
ATOM	36779	O4	URI	818	161.329	126.164	-56.692	1.00	42.39	Al6S	ATOM	36832	C5	GUA	820	154.778	132.522	-58.854	1.00	54.09	Al6
ATOM	36780	C1	URI	818	161.392	127.422	-55.937	1.00	53.45	Al6S	ATOM	36833	N7	GUA	820	151.638	133.604	-59.812	1.00	65.44	Al6
ATOM	36781	N1	URI	818	162.549	128.153	-55.856	1.00	53.45	Al6S	ATOM	36834	C8	GUA	820	150.226	133.567	-59.737	1.00	65.44	Al6
ATOM	36782	C6	URI	818	160.233	127.869	-55.349	1.00	53.45	Al6S	ATOM	36835	O2	GUA	820	152.207	133.302	-61.193	1.00	65.44	Al6
ATOM	36783	C2	URI	818	159.209	127.213	-55.322	1.00	53.45	Al6S	ATOM	36836	C3	GUA	820	151.466	133.899	-62.244	1.00	65.44	Al6
ATOM	36784	O2	URI	818	160.316	129.108	-54.779	1.00	53.45	Al6S	ATOM	36837	O3	GUA	820	151.917	135.331	-62.810	1.00	70.54	Al6
ATOM	36785	N3	URI	818	161.425	129.910	-54.703	1.00	53.45	Al6S	ATOM	36838	P	GUA	821	151.069	135.543	-62.908	1.00	82.80	Al6
ATOM	36786	C4	URI	818	162.605	129.346	-55.272	1.00	53.45	Al6S	ATOM	36839	O1P	GUA	821	153.393	135.374	-62.938	1.00	82.80	Al6
ATOM	36787	O4	URI	818	160.649	126.440	-58.030	1.00	42.39	Al6S	ATOM	36840	O2P	GUA	821	151.515	136.357	-61.655	1.00	70.54	Al6
ATOM	36788	C5	URI	818	159.911	125.313	-58.468	1.00	42.39	Al6S	ATOM	36841	O5	GUA	821	150.145	136.475	-61.203	1.00	70.54	Al6
ATOM	36789	C2	URI	818	161.847	126.780	-58.904	1.00	42.39	Al6S	ATOM	36842	C5	GUA	821	150.066	137.359	-59.977	1.00	70.54	Al6
ATOM	36790	O2	URI	818	161.542	126.691	-60.275	1.00	42.39	Al6S	ATOM	36843	C4	GUA	821	151.888	136.780	-58.934	1.00	70.54	Al6
ATOM	36791	C3	URI	818	161.066	128.014	-61.038	1.00	72.08	Al6S	ATOM	36844	C1	GUA	821	152.989	137.611	-58.392	1.00	82.80	Al6
ATOM	36792	O3	URI	819	161.119	127.717	-62.492	1.00	51.29	Al6S	ATOM	36845	N9	GUA	821	153.995	138.942	-57.614	1.00	82.80	Al6
ATOM	36793	P	GUA	819	159.544	128.230	-60.591	1.00	72.08	Al6S	ATOM	36846	C4	GUA	821	154.999	139.266	-56.000	1.00	82.80	Al6
ATOM	36794	O1P	GUA	819	158.504	127.468	-61.224	1.00	72.08	Al6S	ATOM	36847	N3	GUA	821	155.027	140.069	-54.934	1.00	82.80	Al6
ATOM	36795	O2P	GUA	819	157.117	127.824	-60.707	1.00	72.08	Al6S	ATOM	36848	C2	GUA	821	156.217	138.825	-56.452	1.00	82.80	Al6
ATOM	36796	C5	GUA	819	157.001	127.582	-59.281	1.00	72.08	Al6S	ATOM	36849	N2	GUA	821	156.404	137.984	-57.541	1.00	82.80	Al6
ATOM	36797	O4	GUA	819	155.877	128.287	-58.780	1.00	72.08	Al6S	ATOM	36850	C6	GUA	821						Al6
ATOM	36798	C4	GUA	819							ATOM	36851	N1	GUA	821						Al6
ATOM	36799	O4	GUA	819							ATOM	36852	N2	GUA	821						Al6
ATOM	36800	C1	GUA	819							ATOM	36853	C6	GUA	821						Al6

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ATOM	36854	O6' GUA	821	157.548	137.629	-57.860	1.00	82.80	Al6S	ATOM	36907	C4' URI	824	160.706	145.801	-53.793	1.00200.42	Al6
ATOM	36855	C5' GUA	821	155.166	137.638	-58.151	1.00	82.80	Al6S	ATOM	36908	O4' URI	824	161.254	146.969	-54.462	1.00200.42	Al6
ATOM	36856	N7' GUA	821	154.903	136.838	-59.255	1.00	82.80	Al6S	ATOM	36909	C1' URI	824	162.382	147.451	-53.745	1.00200.42	Al6
ATOM	36857	C8' GUA	821	153.603	136.855	-59.363	1.00	82.80	Al6S	ATOM	36910	N1 URI	824	162.125	148.836	-53.311	1.00201.09	Al6
ATOM	36858	C2' GUA	821	151.050	139.144	-58.749	1.00	70.54	Al6S	ATOM	36911	C6 URI	824	160.843	149.333	-53.195	1.00201.09	Al6
ATOM	36859	O2' GUA	821	149.982	139.594	-57.944	1.00	70.54	Al6S	ATOM	36912	C2 URI	824	163.224	149.631	-53.004	1.00201.09	Al6
ATOM	36860	C3' GUA	821	150.592	138.776	-60.156	1.00	70.54	Al6S	ATOM	36913	O2 URI	824	164.379	149.242	-53.104	1.00201.09	Al6
ATOM	36861	O3' GUA	821	149.592	139.667	-60.596	1.00	70.54	Al6S	ATOM	36914	N3 URI	824	162.920	150.899	-52.574	1.00201.09	Al6
ATOM	36862	P URI	822	149.768	140.546	-61.937	1.00109.09		Al6S	ATOM	36915	C4 URI	824	161.664	151.449	-52.424	1.00201.09	Al6
ATOM	36863	O1P URI	822	148.699	141.578	-61.930	1.00128.72		Al6S	ATOM	36916	O4 URI	824	161.555	152.594	-51.979	1.00201.09	Al6
ATOM	36864	OBP URI	822	149.699	139.628	-63.099	1.00128.72		Al6S	ATOM	36917	C5 URI	824	160.584	150.577	-52.774	1.00201.09	Al6
ATOM	36865	O5' URI	822	151.161	141.303	-61.758	1.00109.09		Al6S	ATOM	36918	C2' URI	824	162.611	146.517	-52.558	1.00200.42	Al6
ATOM	36866	C5' URI	822	151.656	141.670	-60.462	1.00109.09		Al6S	ATOM	36919	O2' URI	824	163.592	145.554	-52.892	1.00200.42	Al6
ATOM	36867	C4' URI	822	151.196	143.055	-60.092	1.00109.09		Al6S	ATOM	36920	C3' URI	824	161.226	145.913	-52.368	1.00200.42	Al6
ATOM	36868	O4' URI	822	149.770	143.032	-59.827	1.00109.09		Al6S	ATOM	36921	O3' URI	824	161.308	144.643	-51.735	1.00200.42	Al6
ATOM	36869	C1' URI	822	149.460	143.980	-58.819	1.00109.09		Al6S	ATOM	36922	P CYT	825	161.619	144.555	-50.158	1.00160.58	Al6
ATOM	36870	N1 URI	822	148.643	143.343	-57.767	1.00128.72		Al6S	ATOM	36923	O1P CYT	825	161.741	145.948	-49.641	1.00113.96	Al6
ATOM	36871	C6 URI	822	148.054	142.114	-57.965	1.00128.72		Al6S	ATOM	36924	O2P CYT	825	162.744	143.604	-49.967	1.00113.96	Al6
ATOM	36872	O2 URI	822	148.460	144.031	-56.564	1.00128.72		Al6S	ATOM	36925	O5' CYT	825	160.297	143.905	-49.547	1.00160.58	Al6
ATOM	36873	N3 URI	822	148.971	145.114	-56.323	1.00128.72		Al6S	ATOM	36926	C5' CYT	825	159.209	144.734	-49.097	1.00160.58	Al6
ATOM	36874	C4 URI	822	147.654	143.398	-55.650	1.00128.72		Al6S	ATOM	36927	C4' CYT	825	157.892	144.236	-49.647	1.00160.58	Al6
ATOM	36875	C4 URI	822	147.025	142.181	-55.796	1.00128.72		Al6S	ATOM	36928	O4' CYT	825	157.946	144.207	-51.100	1.00160.58	Al6
ATOM	36876	O4 URI	822	146.301	141.762	-54.889	1.00128.72		Al6S	ATOM	36929	C1' CYT	825	157.109	143.169	-51.585	1.00160.58	Al6
ATOM	36877	C5 URI	822	147.272	141.528	-57.048	1.00128.72		Al6S	ATOM	36930	N1 CYT	825	157.905	142.221	-52.392	1.00113.96	Al6
ATOM	36878	C2' URI	822	150.768	144.617	-58.347	1.00109.09		Al6S	ATOM	36931	C6 CYT	825	159.157	141.825	-52.002	1.00113.96	Al6
ATOM	36879	O2' URI	822	151.805	145.875	-58.966	1.00109.09		Al6S	ATOM	36932	C2 CYT	825	157.339	141.708	-53.565	1.00113.96	Al6
ATOM	36880	C3' URI	822	153.046	144.254	-59.079	1.00109.09		Al6S	ATOM	36933	O2 CYT	825	156.212	142.104	-53.911	1.00113.96	Al6
ATOM	36881	O3' URI	822	153.904	144.870	-57.867	1.00139.50		Al6S	ATOM	36934	N3 CYT	825	158.033	140.797	-54.295	1.00113.96	Al6
ATOM	36882	P CYT	823	153.904	144.870	-57.867	1.00139.50		Al6S	ATOM	36935	C4 CYT	825	159.247	140.411	-53.898	1.00113.96	Al6
ATOM	36883	O1P CYT	823	152.998	145.131	-56.718	1.00106.46		Al6S	ATOM	36936	N4 CYT	825	159.890	139.514	-54.645	1.00113.96	Al6
ATOM	36884	O2P CYT	823	154.693	145.983	-58.441	1.00106.46		Al6S	ATOM	36937	C5 CYT	825	159.855	140.929	-52.718	1.00113.96	Al6
ATOM	36885	O5' CYT	823	154.892	143.690	-57.454	1.00139.50		Al6S	ATOM	36938	C2' CYT	825	156.475	142.479	-50.379	1.00160.58	Al6
ATOM	36886	C5' CYT	823	155.867	143.857	-56.398	1.00139.50		Al6S	ATOM	36939	O2' CYT	825	155.190	143.021	-50.154	1.00160.58	Al6
ATOM	36887	C4' CYT	823	157.209	143.331	-56.853	1.00139.50		Al6S	ATOM	36940	C3' CYT	825	157.465	142.825	-49.274	1.00160.58	Al6
ATOM	36888	O4' CYT	823	157.017	141.951	-57.246	1.00139.50		Al6S	ATOM	36941	O3' CYT	825	156.862	142.745	-47.994	1.00160.58	Al6
ATOM	36889	C1' CYT	823	157.719	141.688	-58.439	1.00139.50		Al6S	ATOM	36942	P CYT	826	156.652	141.304	-47.309	1.00122.30	Al6
ATOM	36890	N1 CYT	823	156.753	141.152	-59.415	1.00106.46		Al6S	ATOM	36943	O1P CYT	826	156.273	141.567	-45.894	1.0075.97	Al6
ATOM	36891	C6 CYT	823	155.577	141.803	-59.663	1.00106.46		Al6S	ATOM	36944	O2P CYT	826	157.838	140.441	-47.601	1.0075.97	Al6
ATOM	36892	C2 CYT	823	157.040	139.936	-60.067	1.00106.46		Al6S	ATOM	36945	O5' CYT	826	155.392	140.695	-48.080	1.00122.30	Al6
ATOM	36893	O2 CYT	823	156.130	139.377	-59.861	1.00106.46		Al6S	ATOM	36946	C5' CYT	826	154.116	141.359	-48.041	1.00122.30	Al6
ATOM	36894	N3 CYT	823	156.119	139.403	-60.906	1.00106.46		Al6S	ATOM	36947	C4' CYT	826	153.122	140.684	-48.964	1.00122.30	Al6
ATOM	36895	C4 CYT	823	154.962	140.036	-61.114	1.00106.46		Al6S	ATOM	36948	O4' CYT	826	153.532	140.818	-50.351	1.00122.30	Al6
ATOM	36896	N4 CYT	823	154.069	139.458	-61.926	1.00106.46		Al6S	ATOM	36949	C1' CYT	826	153.034	139.717	-51.100	1.00122.30	Al6
ATOM	36897	C5 CYT	823	154.663	141.285	-60.493	1.00106.46		Al6S	ATOM	36950	N1 CYT	826	154.148	139.030	-51.788	1.0075.97	Al6
ATOM	36898	C2' CYT	823	158.500	142.947	-58.837	1.00139.50		Al6S	ATOM	36951	C6 CYT	826	155.440	139.133	-51.343	1.0075.97	Al6
ATOM	36899	O2' CYT	823	159.849	142.813	-58.427	1.00139.50		Al6S	ATOM	36952	C2 CYT	826	153.849	138.245	-52.914	1.0075.97	Al6
ATOM	36900	C3' CYT	823	157.758	144.051	-58.081	1.00139.50		Al6S	ATOM	36953	O2 CYT	826	152.672	138.179	-53.310	1.0075.97	Al6
ATOM	36901	O3' CYT	823	158.701	145.095	-57.748	1.00139.50		Al6S	ATOM	36954	N3 CYT	826	154.847	137.583	-53.540	1.0075.97	Al6
ATOM	36902	P URI	824	158.444	146.088	-56.494	1.00200.42		Al6S	ATOM	36955	C4 CYT	826	156.100	137.686	-53.095	1.0075.97	Al6
ATOM	36903	O1P URI	824	156.997	146.413	-56.395	1.00201.09		Al6S	ATOM	36956	N4 CYT	826	157.046	137.017	-53.751	1.0075.97	Al6
ATOM	36904	O2P URI	824	159.430	147.193	-56.605	1.00201.09		Al6S	ATOM	36957	C5 CYT	826	156.436	138.483	-51.960	1.0075.97	Al6
ATOM	36905	O5' URI	824	158.848	145.203	-55.230	1.00200.42		Al6S	ATOM	36958	C2' CYT	826	152.303	138.783	-50.135	1.00122.30	Al6
ATOM	36906	C5' URI	824	159.202	145.800	-53.961	1.00200.42		Al6S	ATOM	36959	O2' CYT	826	150.909	139.002	-50.226	1.00122.30	Al6

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ATOM	36960	C3' CTT	826	152.901	139.191	-48.793	1.00122.30	Al6S	ATOM	37013	N9	829	156.234	125.589	-51.212	1.00	50.21	Al1	
ATOM	36961	O3' CTT	826	152.030	138.878	-47.721	1.00122.30	Al6S	ATOM	37014	C4	829	157.531	125.959	-51.499	1.00	50.21	Al1	
ATOM	36962	P' URI	827	152.167	137.454	-46.996	1.00	71.69	Al6S	ATOM	37015	N3	829	158.429	125.229	-52.192	1.00	50.21	Al1
ATOM	36963	OLP URI	827	151.189	137.391	-45.879	1.00	78.92	Al6S	ATOM	37016	C2	829	159.601	125.842	-52.282	1.00	50.21	Al1
ATOM	36964	O2P URI	827	153.606	137.242	-46.716	1.00	78.92	Al6S	ATOM	37017	N2	829	160.615	125.254	-52.929	1.00	50.21	Al1
ATOM	36965	O5' URI	827	151.721	136.422	-48.123	1.00	71.69	Al6S	ATOM	37018	N1	829	159.868	127.073	-51.740	1.00	50.21	Al1
ATOM	36966	C5' URI	827	150.376	136.415	-48.633	1.00	71.69	Al6S	ATOM	37019	C6	829	158.966	127.843	-51.018	1.00	50.21	Al1
ATOM	36967	C4' URI	827	150.253	135.434	-49.774	1.00	71.69	Al6S	ATOM	37020	O6	829	159.325	128.938	-50.552	1.00	50.21	Al1
ATOM	36968	O4' URI	827	151.107	135.864	-50.871	1.00	71.69	Al6S	ATOM	37021	C5	829	157.696	127.198	-50.914	1.00	50.21	Al1
ATOM	36969	C4' URI	827	151.587	134.722	-51.573	1.00	71.69	Al6S	ATOM	37022	N7	829	156.525	127.606	-50.285	1.00	50.21	Al1
ATOM	36970	C4' URI	827	153.060	134.722	-51.559	1.00	78.92	Al6S	ATOM	37023	C8	829	156.069	126.625	-50.491	1.00	50.21	Al1
ATOM	36971	C6 URI	827	153.797	135.328	-50.561	1.00	78.92	Al6S	ATOM	37024	C2' GUA	829	156.069	123.211	-50.663	1.00	58.28	Al1
ATOM	36972	C2 URI	827	153.693	134.058	-52.600	1.00	78.92	Al6S	ATOM	37025	O2' GUA	829	156.068	121.974	-51.345	1.00	58.28	Al1
ATOM	36973	O2 URI	827	153.086	133.508	-53.506	1.00	78.92	Al6S	ATOM	37026	C3' GUA	829	155.023	123.257	-49.565	1.00	58.28	Al1
ATOM	36974	N3 URI	827	155.064	134.056	-52.543	1.00	78.92	Al6S	ATOM	37027	O3' GUA	829	154.981	122.043	-48.853	1.00	58.28	Al1
ATOM	36975	C4 URI	827	155.856	134.629	-51.580	1.00	78.92	Al6S	ATOM	37028	P' GUA	830	155.768	121.937	-47.460	1.00	45.45	Al1
ATOM	36976	O4 URI	827	157.080	134.511	-51.666	1.00	78.92	Al6S	ATOM	37029	OLP GUA	830	155.411	120.622	-46.874	1.00	50.61	Al1
ATOM	36977	C5 URI	827	155.137	135.304	-50.536	1.00	78.92	Al6S	ATOM	37030	O2P GUA	830	155.495	123.181	-46.696	1.00	50.61	Al1
ATOM	36978	C2' URI	827	151.012	133.484	-50.900	1.00	71.69	Al6S	ATOM	37031	O5' GUA	830	157.322	121.980	-47.849	1.00	45.45	Al1
ATOM	36979	O2' URI	827	149.868	133.045	-51.610	1.00	71.69	Al6S	ATOM	37032	C5' GUA	830	157.937	120.883	-48.551	1.00	45.45	Al1
ATOM	36980	C3' URI	827	150.701	134.005	-49.501	1.00	71.69	Al6S	ATOM	37033	C4' GUA	830	159.380	121.189	-48.937	1.00	45.45	Al1
ATOM	36981	O3' URI	827	149.726	133.205	-48.840	1.00	71.69	Al6S	ATOM	37034	O4' GUA	830	159.465	122.344	-49.808	1.00	45.45	Al1
ATOM	36982	P' GUA	828	150.206	132.002	-47.878	1.00	72.99	Al6S	ATOM	37035	C1' GUA	830	160.779	122.871	-49.755	1.00	45.45	Al1
ATOM	36983	OLP GUA	828	148.980	131.453	-47.244	1.00	53.79	Al6S	ATOM	37036	N9 GUA	830	160.718	124.276	-49.394	1.00	50.61	Al1
ATOM	36984	O2P GUA	828	151.322	132.491	-47.018	1.00	53.79	Al6S	ATOM	37037	C4 GUA	830	161.762	125.164	-49.422	1.00	50.61	Al1
ATOM	36985	O5' GUA	828	150.778	130.884	-48.871	1.00	72.99	Al6S	ATOM	37038	N3 GUA	830	163.026	124.892	-49.809	1.00	50.61	Al1
ATOM	36986	C5' GUA	828	149.867	130.052	-49.616	1.00	72.99	Al6S	ATOM	37039	C2 GUA	830	163.817	125.946	-49.692	1.00	50.61	Al1
ATOM	36987	C4' GUA	828	150.589	128.989	-50.431	1.00	72.99	Al6S	ATOM	37040	N2 GUA	830	165.106	125.845	-50.026	1.00	50.61	Al1
ATOM	36988	O4' GUA	828	151.227	129.548	-51.609	1.00	72.99	Al6S	ATOM	37041	N1 GUA	830	163.400	127.175	-49.234	1.00	50.61	Al1
ATOM	36989	C1' GUA	828	152.247	128.668	-52.042	1.00	72.99	Al6S	ATOM	37042	C6 GUA	830	162.096	127.478	-48.829	1.00	50.61	Al1
ATOM	36990	N9 GUA	828	153.523	129.375	-52.077	1.00	53.79	Al6S	ATOM	37043	O6 GUA	830	161.810	128.624	-48.416	1.00	50.61	Al1
ATOM	36991	C4 GUA	828	154.651	128.998	-52.786	1.00	53.79	Al6S	ATOM	37044	C5 GUA	830	161.242	126.351	-48.952	1.00	50.61	Al1
ATOM	36992	N3 GUA	828	154.758	127.932	-53.612	1.00	53.79	Al6S	ATOM	37045	N7 GUA	830	159.896	126.213	-48.651	1.00	50.61	Al1
ATOM	36993	C2 GUA	828	155.978	127.813	-54.111	1.00	53.79	Al6S	ATOM	37046	C8 GUA	830	159.629	124.969	-48.937	1.00	50.61	Al1
ATOM	36994	N2 GUA	828	156.259	126.806	-54.941	1.00	53.79	Al6S	ATOM	37047	O2' GUA	830	161.551	122.085	-48.701	1.00	45.45	Al1
ATOM	36995	N1 GUA	828	157.010	128.670	-53.834	1.00	53.79	Al6S	ATOM	37048	C2' GUA	830	162.333	121.098	-49.347	1.00	45.45	Al1
ATOM	36996	C6 GUA	828	156.924	129.779	-53.002	1.00	53.79	Al6S	ATOM	37049	O3' GUA	830	160.429	121.473	-47.874	1.00	45.45	Al1
ATOM	36997	O6 GUA	828	157.917	130.505	-52.834	1.00	53.79	Al6S	ATOM	37050	O3' GUA	830	161.672	120.400	-45.844	1.00	34.53	Al1
ATOM	36998	C5 GUA	828	155.617	129.917	-52.487	1.00	53.79	Al6S	ATOM	37051	P' GUA	831	162.005	119.008	-45.428	1.00	46.09	Al1
ATOM	36999	N7 GUA	828	155.106	130.868	-51.572	1.00	53.79	Al6S	ATOM	37052	OLP GUA	831	163.028	121.182	-46.143	1.00	34.53	Al1
ATOM	37000	C8 GUA	828	153.863	130.511	-51.390	1.00	53.79	Al6S	ATOM	37053	O2P GUA	831	160.853	121.257	-44.955	1.00	46.09	Al1
ATOM	37001	C2' GUA	828	152.305	127.511	-51.048	1.00	72.99	Al6S	ATOM	37054	O5' GUA	831	163.028	120.511	-46.809	1.00	34.53	Al1
ATOM	37002	O2' GUA	828	151.662	126.461	-51.564	1.00	72.99	Al6S	ATOM	37055	C5' GUA	831	164.102	120.511	-46.809	1.00	34.53	Al1
ATOM	37003	C3' GUA	828	151.662	128.116	-49.806	1.00	72.99	Al6S	ATOM	37056	C4' GUA	831	165.306	121.402	-46.937	1.00	34.53	Al1
ATOM	37004	O3' GUA	828	151.132	127.072	-48.995	1.00	72.99	Al6S	ATOM	37057	O4' GUA	831	164.957	122.602	-47.665	1.00	34.53	Al1
ATOM	37005	P' GUA	829	152.104	126.280	-47.977	1.00	58.28	Al6S	ATOM	37058	C1' GUA	831	165.818	123.653	-47.276	1.00	34.53	Al1
ATOM	37006	OLP GUA	829	151.285	125.323	-47.197	1.00	50.21	Al6S	ATOM	37059	N9 GUA	831	165.015	124.771	-46.796	1.00	46.09	Al1
ATOM	37007	O2P GUA	829	152.947	127.281	-47.267	1.00	50.21	Al6S	ATOM	37060	C4 GUA	831	165.470	126.025	-46.488	1.00	46.09	Al1
ATOM	37008	O5' GUA	829	153.077	125.420	-48.907	1.00	58.28	Al6S	ATOM	37061	N3 GUA	831	166.748	126.441	-46.555	1.00	46.09	Al1
ATOM	37009	C5' GUA	829	152.626	124.206	-49.545	1.00	58.28	Al6S	ATOM	37062	C2 GUA	831	166.869	127.703	-46.216	1.00	46.09	Al1
ATOM	37010	C4' GUA	829	153.752	123.566	-50.331	1.00	58.28	Al6S	ATOM	37063	N2 GUA	831	168.061	128.269	-46.216	1.00	46.09	Al1
ATOM	37011	O4' GUA	829	154.192	124.469	-51.381	1.00	58.28	Al6S	ATOM	37064	N1 GUA	831	165.822	128.503	-45.849	1.00	46.09	Al1
ATOM	37012	C1' GUA	829	155.590	124.330	-51.582	1.00	58.28	Al6S	ATOM	37065	C6 GUA	831	164.493	128.093	-45.773	1.00	46.09	Al1

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ATOM	37066	O6 GUA	831	163.607	128.896	-45.434	1.00	46.09	Al6S	ATOM	37119	O2P CYT	834	169.983	127.205	-34.486	1.00	53.50	Al6S
ATOM	37067	C5' GUA	831	164.354	126.737	-46.122	1.00	46.09	Al6S	ATOM	37120	O5' CYT	834	170.201	129.661	-34.350	1.00	49.16	Al6S
ATOM	37068	N7 GUA	831	163.224	125.941	-46.170	1.00	46.09	Al6S	ATOM	37121	C5' CYT	834	170.901	130.888	-34.127	1.00	49.16	Al6S
ATOM	37069	C8 GUA	831	163.664	124.785	-46.575	1.00	46.09	Al6S	ATOM	37122	C4' CYT	834	169.933	132.038	-33.916	1.00	49.16	Al6S
ATOM	37070	C2' GUA	831	166.769	123.107	-46.211	1.00	34.53	Al6S	ATOM	37123	O4' CYT	834	169.075	132.181	-35.078	1.00	49.16	Al6S
ATOM	37071	O2' GUA	831	167.998	122.782	-46.845	1.00	34.53	Al6S	ATOM	37124	C1' CYT	834	167.872	132.819	-34.695	1.00	49.16	Al6S
ATOM	37072	C3' GUA	831	165.999	121.892	-45.677	1.00	34.53	Al6S	ATOM	37125	N1 CYT	834	166.723	132.000	-35.125	1.00	53.50	Al6S
ATOM	37073	O3' GUA	831	166.944	120.926	-45.255	1.00	34.53	Al6S	ATOM	37126	C6 CYT	834	166.868	130.683	-35.457	1.00	53.50	Al6S
ATOM	37074	P GUA	832	167.217	120.635	-43.694	1.00	44.95	Al6S	ATOM	37127	C2 CYT	834	165.461	132.611	-35.201	1.00	53.50	Al6S
ATOM	37075	O1P GUA	832	168.615	120.148	-43.691	1.00	45.96	Al6S	ATOM	37128	O2 CYT	834	165.348	133.797	-34.855	1.00	53.50	Al6S
ATOM	37076	O2P GUA	832	166.140	119.764	-43.198	1.00	45.96	Al6S	ATOM	37129	N3 CYT	834	164.403	131.898	-35.641	1.00	53.50	Al6S
ATOM	37077	O5' GUA	832	167.226	121.991	-42.825	1.00	44.95	Al6S	ATOM	37130	C4 CYT	834	164.559	130.623	-35.981	1.00	53.50	Al6S
ATOM	37078	C5' GUA	832	167.354	123.304	-43.393	1.00	44.95	Al6S	ATOM	37131	N4 CYT	834	163.494	129.968	-36.421	1.00	53.50	Al6S
ATOM	37079	C4' GUA	832	168.544	124.071	-42.821	1.00	44.95	Al6S	ATOM	37132	C5 CYT	834	165.822	129.968	-35.887	1.00	53.50	Al6S
ATOM	37080	O4' GUA	832	168.668	125.223	-43.699	1.00	44.95	Al6S	ATOM	37133	C2' CYT	834	167.916	133.038	-33.184	1.00	49.16	Al6S
ATOM	37081	C1' GUA	832	168.929	126.393	-42.956	1.00	44.95	Al6S	ATOM	37134	O2' CYT	834	168.342	134.361	-32.901	1.00	49.16	Al6S
ATOM	37082	N9 GUA	832	167.717	127.204	-42.964	1.00	45.96	Al6S	ATOM	37135	C3' CYT	834	168.949	132.010	-32.750	1.00	49.16	Al6S
ATOM	37083	C4 GUA	832	167.650	128.557	-42.785	1.00	45.96	Al6S	ATOM	37136	O3' CYT	834	168.901	131.791	-30.144	1.00	50.93	Al6S
ATOM	37084	N3 GUA	832	168.703	129.384	-42.612	1.00	45.96	Al6S	ATOM	37137	P GUA	835	169.496	132.415	-31.503	1.00	49.16	Al6S
ATOM	37085	C2 GUA	832	168.324	130.637	-42.456	1.00	45.96	Al6S	ATOM	37138	O1P GUA	835	169.628	132.452	-29.020	1.00	48.78	Al6S
ATOM	37086	N2 GUA	832	169.246	131.594	-42.299	1.00	45.96	Al6S	ATOM	37139	O2P GUA	835	168.928	130.298	-30.254	1.00	48.78	Al6S
ATOM	37087	N1 GUA	832	167.012	131.045	-42.448	1.00	45.96	Al6S	ATOM	37140	O5' GUA	835	167.366	132.248	-30.132	1.00	50.93	Al6S
ATOM	37088	C6 GUA	832	165.909	130.212	-42.615	1.00	45.96	Al6S	ATOM	37141	C5' GUA	835	166.958	133.487	-29.498	1.00	50.93	Al6S
ATOM	37089	O6 GUA	832	164.759	130.686	-42.571	1.00	45.96	Al6S	ATOM	37142	C4' GUA	835	165.561	133.905	-29.941	1.00	50.93	Al6S
ATOM	37090	C5 GUA	832	166.306	128.863	-42.810	1.00	45.96	Al6S	ATOM	37143	O4' GUA	835	165.391	133.599	-31.348	1.00	50.93	Al6S
ATOM	37091	N7 GUA	832	165.546	127.725	-43.026	1.00	45.96	Al6S	ATOM	37144	C1' GUA	835	164.056	133.231	-31.597	1.00	50.93	Al6S
ATOM	37092	C8 GUA	832	166.424	126.768	-43.119	1.00	45.96	Al6S	ATOM	37145	N9 GUA	835	164.049	131.832	-31.999	1.00	48.78	Al6S
ATOM	37093	C2' GUA	832	169.294	125.947	-41.549	1.00	44.95	Al6S	ATOM	37146	C4 GUA	835	162.999	131.159	-32.553	1.00	48.78	Al6S
ATOM	37094	O2' GUA	832	170.679	125.692	-41.492	1.00	44.95	Al6S	ATOM	37147	N3 GUA	835	161.789	131.680	-32.821	1.00	48.78	Al6S
ATOM	37095	C3' GUA	832	168.481	124.667	-41.407	1.00	44.95	Al6S	ATOM	37148	C2 GUA	835	160.982	130.795	-33.345	1.00	48.78	Al6S
ATOM	37096	O3' GUA	832	169.117	123.877	-40.398	1.00	44.95	Al6S	ATOM	37149	N2 GUA	835	159.730	131.150	-33.660	1.00	48.78	Al6S
ATOM	37097	P CYT	833	169.049	124.331	-38.830	1.00	45.58	Al6S	ATOM	37150	N1 GUA	835	161.337	129.490	-33.598	1.00	48.78	Al6S
ATOM	37098	O1P CYT	833	170.058	123.519	-38.102	1.00	46.18	Al6S	ATOM	37151	C6 GUA	835	162.586	128.931	-33.333	1.00	48.78	Al6S
ATOM	37099	O2P CYT	833	167.627	124.307	-38.387	1.00	46.18	Al6S	ATOM	37152	O6 GUA	835	162.812	127.739	-33.610	1.00	48.78	Al6S
ATOM	37100	O5' CYT	833	169.531	125.857	-38.756	1.00	45.58	Al6S	ATOM	37153	C5 GUA	835	163.455	129.875	-32.758	1.00	48.78	Al6S
ATOM	37101	C5' CYT	833	170.914	126.210	-38.512	1.00	45.58	Al6S	ATOM	37154	N7 GUA	835	164.769	129.743	-32.334	1.00	48.78	Al6S
ATOM	37102	C4' CYT	833	171.075	127.720	-38.399	1.00	45.58	Al6S	ATOM	37155	C8 GUA	835	165.081	130.929	-31.892	1.00	48.78	Al6S
ATOM	37103	O4' CYT	833	170.359	128.376	-39.480	1.00	45.58	Al6S	ATOM	37156	C2' GUA	835	163.268	133.445	-30.308	1.00	50.93	Al6S
ATOM	37104	C1' CYT	833	169.823	129.608	-39.027	1.00	45.58	Al6S	ATOM	37157	O2' GUA	835	162.765	134.763	-30.325	1.00	50.93	Al6S
ATOM	37105	N1 CYT	833	168.354	129.549	-39.138	1.00	46.18	Al6S	ATOM	37158	C3' GUA	835	164.348	133.283	-29.251	1.00	50.93	Al6S
ATOM	37106	C6 CYT	833	167.707	128.350	-39.230	1.00	46.18	Al6S	ATOM	37159	O3' GUA	835	163.993	134.036	-28.089	1.00	50.93	Al6S
ATOM	37107	C2 CYT	833	167.627	130.739	-39.143	1.00	46.18	Al6S	ATOM	37160	P ADE	836	162.910	133.460	-27.039	1.00	40.55	Al6S
ATOM	37108	O2 CYT	833	168.233	131.815	-39.055	1.00	46.18	Al6S	ATOM	37161	O1P ADE	836	163.040	134.326	-25.833	1.00	47.18	Al6S
ATOM	37109	N3 CYT	833	166.284	130.689	-39.238	1.00	46.18	Al6S	ATOM	37162	O2P ADE	836	163.070	131.993	-26.898	1.00	47.18	Al6S
ATOM	37110	N4 CYT	833	165.665	129.515	-39.319	1.00	46.18	Al6S	ATOM	37163	O5' ADE	836	161.488	133.751	-27.704	1.00	40.55	Al6S
ATOM	37111	C4 CYT	833	164.336	129.513	-39.403	1.00	46.18	Al6S	ATOM	37164	C5' ADE	836	161.049	135.100	-27.914	1.00	40.55	Al6S
ATOM	37112	C5 CYT	833	166.377	128.289	-39.319	1.00	46.18	Al6S	ATOM	37165	C4' ADE	836	159.543	135.204	-27.867	1.00	40.55	Al6S
ATOM	37113	C2' CYT	833	170.272	129.806	-37.582	1.00	45.58	Al6S	ATOM	37166	O4' ADE	836	158.933	134.664	-29.065	1.00	40.55	Al6S
ATOM	37114	O2' CYT	833	171.431	130.613	-37.535	1.00	45.58	Al6S	ATOM	37167	C1' ADE	836	157.560	134.445	-28.812	1.00	40.55	Al6S
ATOM	37115	C3' CYT	833	170.536	128.375	-37.141	1.00	45.58	Al6S	ATOM	37168	N9 ADE	836	157.133	133.160	-29.370	1.00	47.18	Al6S
ATOM	37116	O3' CYT	833	171.491	128.368	-36.100	1.00	45.58	Al6S	ATOM	37169	C4 ADE	836	155.815	132.796	-29.520	1.00	47.18	Al6S
ATOM	37117	P CYT	834	170.993	128.295	-34.580	1.00	49.16	Al6S	ATOM	37170	N3 ADE	836	154.731	133.533	-29.224	1.00	47.18	Al6S
ATOM	37118	O1P CYT	834	172.219	128.243	-33.730	1.00	53.50	Al6S	ATOM	37171	C2 ADE	836	153.615	132.850	-29.480	1.00	47.18	Al6S

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ATOM	37172	N1 ADE	836	153.470	131.615	-29.963	1.00	47.18	Al6s	ATOM	37225	C3' GUA	838	154.892	126.721	-21.900	1.00	31.74	Al6
ATOM	37173	C6' ADE	836	154.576	130.901	-30.252	1.00	47.18	Al6s	ATOM	37226	C3' GUA	838	154.283	125.909	-20.913	1.00	31.74	Al6
ATOM	37174	N6 ADE	836	154.422	129.669	-30.740	1.00	47.18	Al6s	ATOM	37227	P	839	155.204	125.209	-19.796	1.00	38.69	Al6
ATOM	37175	C5 ADE	836	155.829	131.508	-30.021	1.00	47.18	Al6s	ATOM	37228	O1P	839	154.362	124.607	-18.738	1.00	41.89	Al6
ATOM	37176	N7 ADE	836	157.134	131.066	-30.198	1.00	47.18	Al6s	ATOM	37229	O2P	839	156.258	126.181	-19.428	1.00	41.89	Al6
ATOM	37177	C8 ADE	836	157.868	132.084	-29.805	1.00	47.18	Al6s	ATOM	37230	O5' CYT	839	155.899	124.016	-20.578	1.00	38.69	Al6
ATOM	37178	C2' ADE	836	157.364	134.504	-27.295	1.00	40.55	Al6s	ATOM	37231	C5' CYT	839	155.109	123.053	-21.282	1.00	38.69	Al6
ATOM	37179	O2' ADE	836	156.713	135.712	-26.972	1.00	40.55	Al6s	ATOM	37232	C4' CYT	839	156.002	122.124	-22.054	1.00	38.69	Al6
ATOM	37180	C3' ADE	836	158.797	134.470	-26.774	1.00	40.55	Al6s	ATOM	37233	O4' CYT	839	156.644	122.848	-23.131	1.00	38.69	Al6
ATOM	37181	O3' ADE	836	158.877	135.097	-25.505	1.00	40.55	Al6s	ATOM	37234	C1' CYT	839	157.950	122.337	-23.325	1.00	38.69	Al6
ATOM	37182	P ADE	837	158.863	134.181	-24.177	1.00	39.49	Al6s	ATOM	37235	N1	839	158.909	123.434	-23.188	1.00	41.89	Al6
ATOM	37183	O1P ADE	837	158.832	135.096	-23.005	1.00	48.11	Al6s	ATOM	37236	C6	839	158.618	124.525	-22.430	1.00	41.89	Al6
ATOM	37184	O2P ADE	837	159.964	133.178	-24.284	1.00	48.11	Al6s	ATOM	37237	C2	839	160.126	123.341	-23.846	1.00	41.89	Al6
ATOM	37185	O5' ADE	837	157.460	133.418	-24.269	1.00	39.49	Al6s	ATOM	37238	O2	839	160.355	122.349	-24.553	1.00	41.89	Al6
ATOM	37186	C5' ADE	837	156.218	134.110	-24.019	1.00	39.49	Al6s	ATOM	37239	N3	839	161.023	124.332	-23.712	1.00	41.89	Al6
ATOM	37187	C4' ADE	837	155.033	133.209	-24.300	1.00	39.49	Al6s	ATOM	37240	C4	839	160.730	125.395	-22.976	1.00	41.89	Al6
ATOM	37188	O4' ADE	837	154.977	132.907	-25.723	1.00	39.49	Al6s	ATOM	37241	N4	839	161.637	126.352	-22.880	1.00	41.89	Al6
ATOM	37189	C1' ADE	837	154.459	131.599	-25.916	1.00	39.49	Al6s	ATOM	37242	C5	839	159.490	125.522	-22.305	1.00	41.89	Al6
ATOM	37190	N9 ADE	837	155.485	130.769	-26.545	1.00	48.11	Al6s	ATOM	37243	C2' CYT	839	158.186	121.212	-22.314	1.00	38.69	Al6
ATOM	37191	C4 ADE	837	155.279	129.562	-27.163	1.00	48.11	Al6s	ATOM	37244	O2' CYT	839	157.986	119.963	-22.950	1.00	38.69	Al6
ATOM	37192	N3 ADE	837	154.110	128.947	-27.373	1.00	48.11	Al6s	ATOM	37245	C3' CYT	839	157.144	121.530	-21.250	1.00	38.69	Al6
ATOM	37193	C2 ADE	837	154.299	127.790	-27.986	1.00	48.11	Al6s	ATOM	37246	O3' CYT	839	156.731	120.378	-20.541	1.00	38.69	Al6
ATOM	37194	N1 ADE	837	155.434	127.215	-28.373	1.00	48.11	Al6s	ATOM	37247	P	840	157.508	119.972	-19.199	1.00	35.30	Al6
ATOM	37195	C6 ADE	837	156.592	127.853	-28.133	1.00	48.11	Al6s	ATOM	37248	O1P	840	156.983	118.674	-18.648	1.00	47.16	Al6
ATOM	37196	N6 ADE	837	157.732	127.265	-28.492	1.00	48.11	Al6s	ATOM	37249	O2P	840	157.584	121.170	-18.319	1.00	47.16	Al6
ATOM	37197	C5 ADE	837	156.528	129.098	-27.508	1.00	48.11	Al6s	ATOM	37250	O5' URI	840	158.976	119.702	-19.735	1.00	35.30	Al6
ATOM	37198	N7 ADE	837	157.506	130.009	-27.151	1.00	48.11	Al6s	ATOM	37251	C5' URI	840	159.274	118.439	-20.492	1.00	35.30	Al6
ATOM	37199	C8 ADE	837	154.837	130.986	-26.535	1.00	48.11	Al6s	ATOM	37252	C4' URI	840	161.210	119.500	-21.547	1.00	35.30	Al6
ATOM	37200	C2' ADE	837	154.131	131.029	-24.535	1.00	39.49	Al6s	ATOM	37253	O4' URI	840	162.520	119.881	-21.181	1.00	35.30	Al6
ATOM	37201	O2' ADE	837	152.768	131.220	-24.278	1.00	39.49	Al6s	ATOM	37254	C1' URI	840	162.531	121.331	-20.939	1.00	47.16	Al6
ATOM	37202	C3' ADE	837	155.032	131.848	-23.626	1.00	39.49	Al6s	ATOM	37255	N1	840	161.405	121.995	-20.516	1.00	47.16	Al6
ATOM	37203	O3' ADE	837	154.552	131.878	-22.295	1.00	39.49	Al6s	ATOM	37256	C6	840	163.715	122.011	-21.138	1.00	47.16	Al6
ATOM	37204	P	838	155.418	131.181	-21.124	1.00	31.74	Al6s	ATOM	37257	C2	840	164.719	121.477	-21.565	1.00	47.16	Al6
ATOM	37205	O1P	838	154.787	131.500	-19.819	1.00	42.19	Al6s	ATOM	37258	O2	840	162.591	124.058	-20.386	1.00	47.16	Al6
ATOM	37206	O2P	838	156.866	131.492	-21.337	1.00	42.19	Al6s	ATOM	37259	N3	840	163.676	123.346	-20.832	1.00	47.16	Al6
ATOM	37207	O5' GUA	838	155.230	129.624	-21.381	1.00	31.74	Al6s	ATOM	37260	C4	840	162.719	125.245	-20.114	1.00	47.16	Al6
ATOM	37208	C5' GUA	838	153.925	129.071	-21.531	1.00	31.74	Al6s	ATOM	37261	O4	840	161.396	123.298	-20.246	1.00	47.16	Al6
ATOM	37209	C4' GUA	838	153.976	127.826	-22.376	1.00	31.74	Al6s	ATOM	37262	C5	840	162.926	119.035	-19.972	1.00	35.30	Al6
ATOM	37210	O4' GUA	838	154.480	128.164	-23.695	1.00	31.74	Al6s	ATOM	37263	C2' URI	840	163.657	117.911	-20.413	1.00	35.30	Al6
ATOM	37211	C1' GUA	838	155.256	127.586	-24.362	1.00	31.74	Al6s	ATOM	37264	O2' URI	840	161.575	118.610	-19.421	1.00	35.30	Al6
ATOM	37212	N9 GUA	838	156.622	127.101	-24.303	1.00	42.19	Al6s	ATOM	37265	C3' URI	840	161.639	117.394	-18.703	1.00	35.30	Al6
ATOM	37213	C4 GUA	838	157.651	126.957	-25.016	1.00	42.19	Al6s	ATOM	37266	O3' URI	841	161.613	117.418	-17.099	1.00	33.28	Al6
ATOM	37214	N3 GUA	838	157.581	125.768	-25.648	1.00	42.19	Al6s	ATOM	37267	P	841	160.447	115.997	-16.657	1.00	45.62	Al6
ATOM	37215	C2 GUA	838	158.727	125.438	-26.210	1.00	42.19	Al6s	ATOM	37268	O1P	841	160.491	118.127	-16.696	1.00	33.28	Al6
ATOM	37216	N2 GUA	838	158.819	124.291	-26.893	1.00	42.19	Al6s	ATOM	37269	O2P	841	162.982	118.127	-16.696	1.00	33.28	Al6
ATOM	37217	N1 GUA	838	159.860	126.210	-26.150	1.00	42.19	Al6s	ATOM	37270	O5' ADE	841	163.332	118.324	-15.317	1.00	33.28	Al6
ATOM	37218	C6 GUA	838	159.958	127.434	-25.501	1.00	42.19	Al6s	ATOM	37271	C5' ADE	841	164.830	118.217	-15.136	1.00	33.28	Al6
ATOM	37219	O6 GUA	838	161.024	128.058	-25.513	1.00	42.19	Al6s	ATOM	37272	C4' ADE	841	165.250	116.832	-15.281	1.00	33.28	Al6
ATOM	37220	C5 GUA	838	158.730	127.799	-24.895	1.00	42.19	Al6s	ATOM	37273	O4' ADE	841	166.470	116.774	-16.000	1.00	33.28	Al6
ATOM	37221	N7 GUA	838	158.391	128.931	-24.168	1.00	42.19	Al6s	ATOM	37274	C1' ADE	841	166.215	116.060	-17.259	1.00	45.62	Al6
ATOM	37222	C8 GUA	838	157.134	128.761	-23.877	1.00	42.19	Al6s	ATOM	37275	N9 ADE	841	167.104	115.328	-18.011	1.00	45.62	Al6
ATOM	37223	C2' GUA	838	155.155	125.963	-23.190	1.00	31.74	Al6s	ATOM	37276	C4 ADE	841	168.412	115.137	-17.778	1.00	45.62	Al6
ATOM	37224	O2' GUA	838	154.051	125.168	-23.556	1.00	31.74	Al6s	ATOM	37277	N3 ADE	841						Al6

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ATOM	37278	C2	841	168.940	114.357	-18.705	1.00	45.62	Al6S	ATOM	37331	P	844	172.584	124.177	-25.363	1.00	33.50	Al6
ATOM	37279	N4/ADE	841	168.358	113.777	-19.760	1.00	45.62	Al6S	ATOM	37332	O1P	844	173.757	124.971	-25.799	1.00	42.37	Al6
ATOM	37280	C6	841	167.050	113.986	-19.970	1.00	45.62	Al6S	ATOM	37333	O2P	844	171.367	124.881	-24.889	1.00	42.37	Al6
ATOM	37281	N6	841	166.476	113.402	-21.018	1.00	45.62	Al6S	ATOM	37334	O5'	844	172.183	123.220	-26.561	1.00	33.50	Al6
ATOM	37282	C5	841	166.371	114.808	-19.063	1.00	45.62	Al6S	ATOM	37335	C5'	844	171.112	123.571	-27.434	1.00	33.50	Al6
ATOM	37283	N7	841	165.056	115.232	-18.998	1.00	45.62	Al6S	ATOM	37336	C4'	844	170.099	122.467	-27.469	1.00	33.50	Al6
ATOM	37284	C8	841	165.017	115.971	-17.918	1.00	45.62	Al6S	ATOM	37337	C4'	844	169.642	122.152	-26.127	1.00	33.50	Al6
ATOM	37285	C2'	841	166.961	118.217	-16.177	1.00	33.28	Al6S	ATOM	37338	C1'	844	168.246	121.922	-26.148	1.00	33.50	Al6
ATOM	37286	O2'	841	167.786	118.545	-15.079	1.00	33.28	Al6S	ATOM	37339	N9	844	167.609	123.005	-25.402	1.00	42.37	Al6
ATOM	37287	O3/ADE	841	165.654	119.001	-16.146	1.00	33.28	Al6S	ATOM	37340	C4	844	166.258	123.180	-25.159	1.00	42.37	Al6
ATOM	37288	O3'	841	165.839	120.343	-15.711	1.00	33.28	Al6S	ATOM	37341	N3	844	165.259	122.377	-25.580	1.00	42.37	Al6
ATOM	37289	P	842	165.488	121.567	-16.703	1.00	33.58	Al6S	ATOM	37342	C2	844	164.081	122.799	-25.160	1.00	42.37	Al6
ATOM	37290	O1P	842	165.252	122.755	-15.843	1.00	33.87	Al6S	ATOM	37343	N2	844	162.984	122.111	-25.470	1.00	42.37	Al6
ATOM	37291	O2P	842	164.475	121.142	-17.686	1.00	33.87	Al6S	ATOM	37344	N1	844	163.895	123.927	-24.402	1.00	42.37	Al6
ATOM	37292	O5'	842	166.861	121.863	-17.466	1.00	33.58	Al6S	ATOM	37345	C6	844	164.905	124.774	-23.974	1.00	42.37	Al6
ATOM	37293	C4'	842	168.038	122.226	-16.720	1.00	33.58	Al6S	ATOM	37346	O6	844	164.632	125.768	-23.316	1.00	42.37	Al6
ATOM	37294	C4'	842	169.254	121.575	-17.314	1.00	33.58	Al6S	ATOM	37347	C5	844	166.170	124.329	-24.399	1.00	42.37	Al6
ATOM	37295	O4'	842	169.053	120.138	-17.356	1.00	33.58	Al6S	ATOM	37348	N7	844	167.427	124.870	-24.176	1.00	42.37	Al6
ATOM	37296	C1'	842	169.581	119.037	-18.556	1.00	33.87	Al6S	ATOM	37349	C8	844	168.245	124.057	-24.792	1.00	42.37	Al6
ATOM	37297	N9	842	168.482	117.993	-19.325	1.00	33.87	Al6S	ATOM	37350	C2'	844	167.813	121.909	-27.615	1.00	33.50	Al6
ATOM	37298	C4	842	168.564	117.993	-20.213	1.00	33.87	Al6S	ATOM	37351	O2'	844	167.931	120.595	-28.111	1.00	33.50	Al6
ATOM	37299	N3	842	169.651	117.264	-20.523	1.00	33.87	Al6S	ATOM	37352	C3'	844	168.850	122.822	-28.244	1.00	33.50	Al6
ATOM	37300	C2	842	169.356	116.359	-21.454	1.00	33.87	Al6S	ATOM	37353	O3'	844	169.043	122.543	-29.609	1.00	33.50	Al6
ATOM	37301	N1	842	168.190	116.119	-22.069	1.00	33.87	Al6S	ATOM	37354	P	845	168.277	122.410	-30.707	1.00	40.00	Al6
ATOM	37302	C6	842	167.123	116.867	-21.737	1.00	33.87	Al6S	ATOM	37355	O1P	845	168.750	122.962	-32.046	1.00	42.82	Al6
ATOM	37303	N6	842	165.974	116.638	-22.358	1.00	33.87	Al6S	ATOM	37356	O2P	845	168.393	124.842	-30.328	1.00	42.82	Al6
ATOM	37304	C5	842	167.300	117.858	-20.750	1.00	33.87	Al6S	ATOM	37357	O5'	845	166.762	122.946	-30.526	1.00	40.00	Al6
ATOM	37305	N7	842	166.431	118.775	-20.182	1.00	33.87	Al6S	ATOM	37358	C5'	845	166.410	121.566	-30.743	1.00	40.00	Al6
ATOM	37306	C8	842	167.178	119.441	-19.344	1.00	33.87	Al6S	ATOM	37359	C4'	845	164.919	121.362	-30.594	1.00	40.00	Al6
ATOM	37307	C2'	842	170.262	120.761	-19.298	1.00	33.58	Al6S	ATOM	37360	O4'	845	164.530	121.441	-29.204	1.00	40.00	Al6
ATOM	37308	O2'	842	171.633	120.721	-18.956	1.00	33.58	Al6S	ATOM	37361	C1'	845	163.227	121.978	-29.114	1.00	40.00	Al6
ATOM	37309	C3'	842	169.518	121.975	-18.744	1.00	33.58	Al6S	ATOM	37362	N1	845	163.307	123.297	-28.468	1.00	42.82	Al6
ATOM	37310	O3'	842	170.269	123.178	-18.755	1.00	33.58	Al6S	ATOM	37363	C6	845	164.486	123.978	-28.404	1.00	42.82	Al6
ATOM	37311	P	843	170.231	124.120	-20.048	1.00	38.41	Al6S	ATOM	37364	C2	845	162.143	123.857	-27.944	1.00	42.82	Al6
ATOM	37312	O1P	843	171.188	125.220	-19.807	1.00	35.06	Al6S	ATOM	37365	O2	845	161.088	123.189	-27.957	1.00	42.82	Al6
ATOM	37313	O2P	843	168.820	124.419	-20.422	1.00	35.06	Al6S	ATOM	37366	N3	845	162.191	125.100	-27.423	1.00	42.82	Al6
ATOM	37314	O5'	843	170.854	123.220	-21.201	1.00	38.41	Al6S	ATOM	37367	C4	845	163.342	125.760	-27.383	1.00	42.82	Al6
ATOM	37315	C5'	843	172.242	122.825	-21.162	1.00	38.41	Al6S	ATOM	37368	N4	845	163.338	126.981	-26.867	1.00	42.82	Al6
ATOM	37316	C4'	843	172.540	121.852	-22.270	1.00	38.41	Al6S	ATOM	37369	C5	845	164.547	125.198	-27.872	1.00	42.82	Al6
ATOM	37317	O4'	843	171.842	120.603	-22.039	1.00	38.41	Al6S	ATOM	37370	C2'	845	162.710	122.150	-30.536	1.00	40.00	Al6
ATOM	37318	C1'	843	171.429	120.058	-23.271	1.00	38.41	Al6S	ATOM	37371	O2'	845	162.071	120.965	-30.959	1.00	40.00	Al6
ATOM	37319	N1	843	169.965	119.948	-23.265	1.00	35.06	Al6S	ATOM	37372	C3'	845	164.003	122.352	-31.290	1.00	40.00	Al6
ATOM	37320	C6	843	169.190	120.868	-22.618	1.00	35.06	Al6S	ATOM	37373	O3'	845	163.805	122.105	-32.661	1.00	40.00	Al6
ATOM	37321	C2	843	169.373	118.889	-23.944	1.00	35.06	Al6S	ATOM	37374	P	846	163.739	123.348	-33.666	1.00	31.37	Al6
ATOM	37322	O2	843	170.103	118.053	-24.500	1.00	35.06	Al6S	ATOM	37375	O1P	846	163.418	122.849	-35.021	1.00	43.87	Al6
ATOM	37323	N3	843	168.022	118.792	-23.976	1.00	35.06	Al6S	ATOM	37376	O2P	846	164.959	124.173	-33.437	1.00	43.87	Al6
ATOM	37324	C4	843	167.275	119.694	-23.347	1.00	35.06	Al6S	ATOM	37377	O5'	846	162.490	124.201	-33.180	1.00	31.37	Al6
ATOM	37325	N4	843	165.959	119.552	-23.398	1.00	35.06	Al6S	ATOM	37378	C5'	846	161.145	123.676	-33.232	1.00	31.37	Al6
ATOM	37326	C5	843	167.851	120.779	-22.635	1.00	35.06	Al6S	ATOM	37379	C4'	846	160.195	124.617	-32.519	1.00	31.37	Al6
ATOM	37327	C2'	843	171.919	120.987	-24.381	1.00	38.41	Al6S	ATOM	37380	O4'	846	160.665	124.819	-31.163	1.00	31.37	Al6
ATOM	37328	O2'	843	173.140	120.499	-24.882	1.00	38.41	Al6S	ATOM	37381	C1'	846	160.416	126.148	-30.768	1.00	31.37	Al6
ATOM	37329	C3'	843	172.080	122.301	-23.638	1.00	38.41	Al6S	ATOM	37382	N9	846	161.687	126.771	-30.445	1.00	43.87	Al6
ATOM	37330	O3'	843	173.041	123.142	-24.234	1.00	38.41	Al6S	ATOM	37383	C4	846	161.859	127.865	-29.655	1.00	43.87	Al6

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ATOM	37384	N3	GUA	846	160.886	128.517	-29.000	1.00	43.87	Al6s	ATOM	37437	P	ADE	849	157.852	120.076	-37.582	1.00	38.25	Al6
ATOM	37385	C2	GUA	846	161.350	129.545	-28.344	1.00	43.87	Al6s	ATOM	37438	O1P	ADE	849	157.923	118.592	-37.501	1.00	38.89	Al6
ATOM	37386	N2	GUA	846	160.522	130.276	-27.614	1.00	43.87	Al6s	ATOM	37439	O2P	ADE	849	156.627	120.728	-38.092	1.00	38.89	Al6
ATOM	37387	N1	GUA	846	162.667	129.928	-28.349	1.00	43.87	Al6s	ATOM	37440	O5	ADE	849	158.159	120.664	-36.138	1.00	38.25	Al6
ATOM	37388	C6	GUA	846	163.687	129.271	-29.024	1.00	43.87	Al6s	ATOM	37441	C5	ADE	849	159.430	120.447	-35.533	1.00	38.25	Al6
ATOM	37389	O6	GUA	846	164.846	129.703	-28.978	1.00	43.87	Al6s	ATOM	37442	C4	ADE	849	159.280	120.235	-34.053	1.00	38.25	Al6
ATOM	37390	C5	GUA	846	163.202	128.148	-29.710	1.00	43.87	Al6s	ATOM	37443	O4	ADE	849	159.024	121.494	-33.367	1.00	38.25	Al6
ATOM	37391	N7	GUA	846	163.868	127.221	-30.492	1.00	43.87	Al6s	ATOM	37444	C1	ADE	849	158.086	121.245	-32.357	1.00	38.25	Al6
ATOM	37392	C8	GUA	846	162.929	126.417	-30.899	1.00	43.87	Al6s	ATOM	37445	N9	ADE	849	157.504	122.488	-31.856	1.00	38.89	Al6
ATOM	37393	C2	GUA	846	159.719	126.874	-31.918	1.00	31.37	Al6s	ATOM	37446	C4	ADE	849	156.510	123.267	-32.393	1.00	38.89	Al6
ATOM	37394	O2	GUA	846	158.329	126.919	-31.687	1.00	31.37	Al6s	ATOM	37447	N3	ADE	849	155.868	123.086	-33.553	1.00	38.89	Al6
ATOM	37395	C3	GUA	846	160.101	126.014	-33.109	1.00	31.37	Al6s	ATOM	37448	C2	ADE	849	154.946	124.026	-33.725	1.00	38.89	Al6
ATOM	37396	O3	GUA	846	159.078	126.038	-34.074	1.00	31.37	Al6s	ATOM	37449	N1	ADE	849	154.610	125.043	-32.927	1.00	38.89	Al6
ATOM	37397	P	URI	847	159.312	126.798	-35.452	1.00	38.39	Al6s	ATOM	37450	C6	ADE	849	155.268	125.187	-31.763	1.00	38.89	Al6
ATOM	37398	O1P	URI	847	160.411	126.056	-35.215	1.00	46.79	Al6s	ATOM	37451	N6	ADE	849	154.914	126.180	-30.945	1.00	38.89	Al6
ATOM	37399	O2P	URI	847	159.444	128.256	-35.215	1.00	46.79	Al6s	ATOM	37452	C5	ADE	849	156.282	124.269	-31.472	1.00	38.89	Al6
ATOM	37400	O5	URI	847	157.964	126.542	-36.254	1.00	38.39	Al6s	ATOM	37453	N7	ADE	849	157.142	124.147	-30.390	1.00	38.89	Al6
ATOM	37401	C5	URI	847	157.666	125.260	-36.798	1.00	38.39	Al6s	ATOM	37454	C8	ADE	849	157.848	123.085	-30.670	1.00	38.89	Al6
ATOM	37402	C4	URI	847	156.605	125.393	-37.856	1.00	38.39	Al6s	ATOM	37455	C2	ADE	849	157.155	120.208	-32.969	1.00	38.25	Al6
ATOM	37403	O4	URI	847	155.347	125.749	-37.229	1.00	38.39	Al6s	ATOM	37456	O2	ADE	849	156.403	119.620	-31.928	1.00	38.25	Al6
ATOM	37404	C1	URI	847	154.847	126.946	-37.796	1.00	38.39	Al6s	ATOM	37457	C3	ADE	849	158.185	119.271	-33.602	1.00	38.25	Al6
ATOM	37405	N1	URI	847	154.209	127.733	-36.732	1.00	46.79	Al6s	ATOM	37458	O3	ADE	849	158.701	118.510	-32.530	1.00	38.25	Al6
ATOM	37406	C6	URI	847	154.924	128.169	-35.646	1.00	46.79	Al6s	ATOM	37459	P	ADE	850	159.415	117.112	-32.807	1.00	32.48	Al6
ATOM	37407	C2	URI	847	152.861	128.022	-36.862	1.00	46.79	Al6s	ATOM	37460	O1P	ADE	850	160.724	117.405	-33.419	1.00	41.30	Al6
ATOM	37408	O2	URI	847	152.186	127.636	-37.799	1.00	46.79	Al6s	ATOM	37461	O2P	ADE	850	158.488	116.162	-33.470	1.00	41.30	Al6
ATOM	37409	N3	URI	847	152.329	128.774	-35.846	1.00	46.79	Al6s	ATOM	37462	O5	ADE	850	159.728	116.612	-31.336	1.00	32.48	Al6
ATOM	37410	C4	URI	847	152.991	129.245	-34.729	1.00	46.79	Al6s	ATOM	37463	C5	ADE	850	158.678	116.928	-30.445	1.00	32.48	Al6
ATOM	37411	O4	URI	847	152.373	129.895	-33.881	1.00	46.79	Al6s	ATOM	37464	C4	ADE	850	158.871	116.928	-29.127	1.00	32.48	Al6
ATOM	37412	C5	URI	847	154.378	128.892	-34.666	1.00	46.79	Al6s	ATOM	37465	O4	ADE	850	160.245	116.756	-28.724	1.00	32.48	Al6
ATOM	37413	C2	URI	847	156.036	127.644	-38.449	1.00	38.39	Al6s	ATOM	37466	C1	ADE	850	160.878	118.014	-28.609	1.00	32.48	Al6
ATOM	37414	O2	URI	847	155.609	128.477	-39.508	1.00	38.39	Al6s	ATOM	37467	N9	ADE	850	162.246	117.864	-29.112	1.00	41.30	Al6
ATOM	37415	C3	URI	847	156.878	126.458	-38.912	1.00	38.39	Al6s	ATOM	37468	C4	ADE	850	163.401	118.320	-28.526	1.00	41.30	Al6
ATOM	37416	O3	URI	847	156.433	125.997	-40.184	1.00	38.39	Al6s	ATOM	37469	N3	ADE	850	163.517	119.069	-27.421	1.00	41.30	Al6
ATOM	37417	P	URI	848	157.516	125.492	-41.254	1.00	41.49	Al6s	ATOM	37470	C2	ADE	850	164.793	119.270	-27.121	1.00	41.30	Al6
ATOM	37418	O1P	URI	848	158.680	126.419	-41.217	1.00	52.47	Al6s	ATOM	37471	N1	ADE	850	165.887	118.833	-27.749	1.00	41.30	Al6
ATOM	37419	O2P	URI	848	156.841	125.195	-42.551	1.00	52.47	Al6s	ATOM	37472	C6	ADE	850	165.733	118.083	-28.863	1.00	41.30	Al6
ATOM	37420	O5	URI	848	158.058	124.145	-40.614	1.00	41.49	Al6s	ATOM	37473	N6	ADE	850	166.818	117.628	-29.492	1.00	41.30	Al6
ATOM	37421	C5	URI	848	157.362	122.911	-40.772	1.00	41.49	Al6s	ATOM	37474	C5	ADE	850	164.432	117.814	-29.291	1.00	41.30	Al6
ATOM	37422	C4	URI	848	158.290	121.777	-40.442	1.00	41.49	Al6s	ATOM	37475	N7	ADE	850	163.941	117.104	-30.373	1.00	41.30	Al6
ATOM	37423	O4	URI	848	159.350	121.714	-41.438	1.00	41.49	Al6s	ATOM	37476	C8	ADE	850	162.643	117.176	-30.232	1.00	41.30	Al6
ATOM	37424	C1	URI	848	160.602	121.737	-40.790	1.00	41.49	Al6s	ATOM	37477	C2	ADE	850	159.990	119.032	-29.328	1.00	32.48	Al6
ATOM	37425	N1	URI	848	161.587	122.389	-41.663	1.00	52.47	Al6s	ATOM	37478	O2	ADE	850	160.073	120.296	-28.680	1.00	32.48	Al6
ATOM	37426	C6	URI	848	161.336	123.591	-42.262	1.00	52.47	Al6s	ATOM	37479	C3	ADE	850	158.608	118.426	-29.127	1.00	32.48	Al6
ATOM	37427	C2	URI	848	162.798	121.741	-41.856	1.00	52.47	Al6s	ATOM	37480	O3	ADE	850	158.178	118.774	-27.810	1.00	38.62	Al6
ATOM	37428	O2	URI	848	163.062	120.654	-41.373	1.00	52.47	Al6s	ATOM	37481	P	GUA	851	156.646	118.562	-27.369	1.00	38.62	Al6
ATOM	37429	N3	URI	848	163.695	122.409	-42.641	1.00	52.47	Al6s	ATOM	37482	O1P	GUA	851	156.732	117.942	-26.019	1.00	34.40	Al6
ATOM	37430	C4	URI	848	163.517	123.621	-43.246	1.00	52.47	Al6s	ATOM	37483	O2P	GUA	851	155.870	117.892	-28.462	1.00	34.40	Al6
ATOM	37431	O4	URI	848	164.472	124.144	-43.030	1.00	52.47	Al6s	ATOM	37484	O5	GUA	851	156.092	120.043	-27.219	1.00	38.62	Al6
ATOM	37432	C5	URI	848	162.231	124.212	-43.837	1.00	52.47	Al6s	ATOM	37485	C5	GUA	851	156.523	120.892	-26.150	1.00	38.62	Al6
ATOM	37433	C2	URI	848	160.368	122.404	-39.438	1.00	41.49	Al6s	ATOM	37486	C4	GUA	851	155.677	122.128	-26.136	1.00	38.62	Al6
ATOM	37434	O2	URI	848	161.347	122.019	-38.501	1.00	41.49	Al6s	ATOM	37487	O4	GUA	851	155.845	122.804	-27.405	1.00	38.62	Al6
ATOM	37435	C3	URI	848	158.976	121.892	-39.084	1.00	41.49	Al6s	ATOM	37488	C1	GUA	851	154.598	123.307	-27.856	1.00	38.62	Al6
ATOM	37436	O3	URI	848	159.058	120.602	-38.498	1.00	41.49	Al6s	ATOM	37489	N9	GUA	851	154.312	122.708	-29.154	1.00	34.40	Al6

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ATOM	37490	C4	GUA	851	153.261	123.011	-29.992	1.00	34.40	Al6s	ATOM	37543	C2'	GUA	853	144.365	117.583	-28.863	1.00	31.07	Al6
ATOM	37491	N3	GUA	851	152.273	123.901	-29.746	1.00	34.40	Al6s	ATOM	37544	O2'	GUA	853	143.037	118.059	-28.969	1.00	31.07	Al6
ATOM	37492	C2	GUA	851	151.401	123.962	-30.748	1.00	34.40	Al6s	ATOM	37545	C3'	GUA	853	144.808	117.160	-27.464	1.00	31.07	Al6
ATOM	37493	N2	GUA	851	150.349	124.767	-30.666	1.00	34.40	Al6s	ATOM	37546	O3'	GUA	853	143.830	116.416	-26.713	1.00	31.07	Al6
ATOM	37494	N1	GUA	851	151.500	123.225	-31.901	1.00	34.40	Al6s	ATOM	37547	P	CYT	854	143.978	114.899	-26.501	1.00	29.71	Al6
ATOM	37495	C6	GUA	851	152.508	122.307	-32.174	1.00	34.40	Al6s	ATOM	37548	O1P	CYT	854	143.193	114.482	-25.305	1.00	38.67	Al6
ATOM	37496	O6	GUA	851	152.507	121.698	-33.244	1.00	34.40	Al6s	ATOM	37549	O2P	CYT	854	145.430	114.577	-26.577	1.00	38.67	Al6
ATOM	37497	C5	GUA	851	153.441	122.216	-31.105	1.00	34.40	Al6s	ATOM	37550	O5'	CYT	854	143.311	114.300	-27.806	1.00	29.71	Al6
ATOM	37498	N7	GUA	851	154.568	121.419	-30.964	1.00	34.40	Al6s	ATOM	37551	C5'	CYT	854	141.953	114.538	-28.106	1.00	29.71	Al6
ATOM	37499	C8	GUA	851	155.048	121.739	-29.794	1.00	34.40	Al6s	ATOM	37552	C4'	CYT	854	141.691	114.161	-29.533	1.00	29.71	Al6
ATOM	37500	C7'	GUA	851	153.553	123.014	-26.782	1.00	38.62	Al6s	ATOM	37553	O4'	CYT	854	142.472	115.028	-30.400	1.00	29.71	Al6
ATOM	37501	O2'	GUA	851	153.398	124.181	-25.991	1.00	38.62	Al6s	ATOM	37554	C1'	CYT	854	142.848	114.319	-31.576	1.00	29.71	Al6
ATOM	37502	C3'	GUA	851	154.189	121.828	-26.058	1.00	38.62	Al6s	ATOM	37555	N1	CYT	854	144.326	114.316	-31.703	1.00	38.67	Al6
ATOM	37503	O3'	GUA	851	153.776	121.633	-24.708	1.00	38.62	Al6s	ATOM	37556	C6	CYT	854	145.124	114.540	-30.622	1.00	38.67	Al6
ATOM	37504	P	CYT	852	152.693	120.499	-24.376	1.00	36.34	Al6s	ATOM	37557	C2	CYT	854	144.903	114.045	-32.961	1.00	38.67	Al6
ATOM	37505	O1P	CYT	852	152.565	120.384	-22.906	1.00	32.84	Al6s	ATOM	37558	O2	CYT	854	144.172	113.890	-33.943	1.00	38.67	Al6
ATOM	37506	O2P	CYT	852	152.985	119.290	-25.181	1.00	32.84	Al6s	ATOM	37559	N3	CYT	854	146.240	113.962	-33.075	1.00	38.67	Al6
ATOM	37507	O5'	CYT	852	151.349	121.123	-24.946	1.00	36.34	Al6s	ATOM	37560	N4	CYT	854	147.007	114.148	-32.010	1.00	38.67	Al6
ATOM	37508	C5'	CYT	852	150.850	122.356	-24.429	1.00	36.34	Al6s	ATOM	37561	N4	CYT	854	148.322	114.020	-32.169	1.00	38.67	Al6
ATOM	37509	C4'	CYT	852	149.616	122.758	-25.172	1.00	36.34	Al6s	ATOM	37562	C5	CYT	854	146.457	114.466	-30.728	1.00	38.67	Al6
ATOM	37510	O4'	CYT	852	149.957	123.170	-26.515	1.00	36.34	Al6s	ATOM	37563	C2'	CYT	854	142.279	112.905	-31.452	1.00	29.71	Al6
ATOM	37511	C1'	CYT	852	148.911	122.816	-27.399	1.00	36.34	Al6s	ATOM	37564	O2'	CYT	854	141.031	112.822	-32.104	1.00	29.71	Al6
ATOM	37512	N1	CYT	852	149.455	121.967	-28.463	1.00	32.84	Al6s	ATOM	37565	C3'	CYT	854	142.133	111.766	-29.947	1.00	29.71	Al6
ATOM	37513	C6	CYT	852	150.584	121.229	-28.265	1.00	32.84	Al6s	ATOM	37566	O3'	CYT	854	141.224	111.756	-29.607	1.00	29.71	Al6
ATOM	37514	C2	CYT	852	148.784	121.909	-29.678	1.00	32.84	Al6s	ATOM	37567	P	GUA	855	141.784	110.293	-29.268	1.00	34.02	Al6
ATOM	37515	O2	CYT	852	147.776	122.613	-29.841	1.00	32.84	Al6s	ATOM	37568	O1P	GUA	855	140.709	109.536	-28.554	1.00	39.51	Al6
ATOM	37516	N3	CYT	852	149.245	121.092	-30.649	1.00	32.84	Al6s	ATOM	37569	O2P	GUA	855	143.116	110.459	-28.662	1.00	39.51	Al6
ATOM	37517	C4	CYT	852	150.335	120.358	-30.436	1.00	32.84	Al6s	ATOM	37570	O5'	GUA	855	142.010	109.632	-30.695	1.00	34.02	Al6
ATOM	37518	N4	CYT	852	150.745	119.551	-31.408	1.00	32.84	Al6s	ATOM	37571	C5'	GUA	855	140.944	109.551	-31.620	1.00	34.02	Al6
ATOM	37519	C5	CYT	852	151.051	120.416	-29.215	1.00	32.84	Al6s	ATOM	37572	C4'	GUA	855	141.438	110.065	-32.946	1.00	34.02	Al6
ATOM	37520	C2'	CYT	852	147.833	122.097	-26.588	1.00	36.34	Al6s	ATOM	37573	O4'	GUA	855	142.336	110.058	-33.526	1.00	34.02	Al6
ATOM	37521	O2'	CYT	852	146.790	123.012	-26.311	1.00	36.34	Al6s	ATOM	37574	C1'	GUA	855	143.288	109.414	-34.366	1.00	34.02	Al6
ATOM	37522	C3'	CYT	852	148.620	121.642	-25.354	1.00	36.34	Al6s	ATOM	37575	N9	GUA	855	144.640	109.777	-33.938	1.00	39.51	Al6
ATOM	37523	O3'	CYT	852	147.833	121.454	-24.203	1.00	36.34	Al6s	ATOM	37576	C4	GUA	855	145.760	109.811	-34.740	1.00	39.51	Al6
ATOM	37524	P	GUA	853	147.241	120.004	-23.896	1.00	31.07	Al6s	ATOM	37577	N3	GUA	855	145.804	109.530	-36.052	1.00	39.51	Al6
ATOM	37525	O1P	GUA	853	146.386	120.099	-22.689	1.00	37.02	Al6s	ATOM	37578	C2	GUA	855	147.023	109.660	-36.554	1.00	39.51	Al6
ATOM	37526	O2P	GUA	853	148.388	119.064	-23.914	1.00	37.02	Al6s	ATOM	37579	N2	GUA	855	147.248	109.431	-37.853	1.00	39.51	Al6
ATOM	37527	O5'	GUA	853	146.339	119.735	-25.174	1.00	31.07	Al6s	ATOM	37580	N1	GUA	855	148.111	110.025	-35.814	1.00	39.51	Al6
ATOM	37528	C5'	GUA	853	146.105	118.414	-25.639	1.00	31.07	Al6s	ATOM	37581	C6	GUA	855	148.093	110.311	-34.460	1.00	39.51	Al6
ATOM	37529	O4'	GUA	853	145.151	118.476	-26.816	1.00	31.07	Al6s	ATOM	37582	O6	GUA	855	149.138	110.628	-33.891	1.00	39.51	Al6
ATOM	37530	C4'	GUA	853	145.740	119.252	-27.890	1.00	31.07	Al6s	ATOM	37583	C5	GUA	855	146.790	110.184	-33.912	1.00	39.51	Al6
ATOM	37531	C1'	GUA	853	145.309	118.748	-29.143	1.00	31.07	Al6s	ATOM	37584	N7	GUA	855	146.333	110.381	-32.616	1.00	39.51	Al6
ATOM	37532	N9	GUA	853	146.475	118.023	-29.898	1.00	37.02	Al6s	ATOM	37585	C8	GUA	855	145.054	107.910	-32.681	1.00	39.51	Al6
ATOM	37533	C4	GUA	853	146.507	118.023	-31.241	1.00	37.02	Al6s	ATOM	37586	C2'	GUA	855	143.031	107.910	-34.281	1.00	34.02	Al6
ATOM	37534	N3	GUA	853	145.472	118.132	-32.099	1.00	37.02	Al6s	ATOM	37587	O2'	GUA	855	142.253	107.515	-35.395	1.00	34.02	Al6
ATOM	37535	C2	GUA	853	145.807	117.760	-33.324	1.00	37.02	Al6s	ATOM	37588	C3'	GUA	855	142.299	107.809	-32.947	1.00	34.02	Al6
ATOM	37536	N2	GUA	853	144.908	117.811	-34.306	1.00	37.02	Al6s	ATOM	37589	O3'	GUA	855	141.578	106.608	-32.759	1.00	34.02	Al6
ATOM	37537	N1	GUA	853	147.049	117.313	-33.676	1.00	37.02	Al6s	ATOM	37590	P	CYT	856	142.123	105.557	-31.679	1.00	35.68	Al6
ATOM	37538	C6	GUA	853	148.125	117.191	-32.812	1.00	37.02	Al6s	ATOM	37591	O1P	CYT	856	141.039	104.612	-31.280	1.00	31.55	Al6
ATOM	37539	O6	GUA	853	149.200	116.768	-33.236	1.00	37.02	Al6s	ATOM	37592	O2P	CYT	856	142.826	106.341	-30.636	1.00	31.55	Al6
ATOM	37540	C5	GUA	853	147.788	117.595	-31.494	1.00	37.02	Al6s	ATOM	37593	O5'	CYT	856	143.237	104.781	-32.501	1.00	35.68	Al6
ATOM	37541	N7	GUA	853	148.557	117.637	-30.340	1.00	37.02	Al6s	ATOM	37594	C5'	CYT	856	142.847	104.003	-33.629	1.00	35.68	Al6
ATOM	37542	C8	GUA	853	147.739	118.071	-29.421	1.00	37.02	Al6s	ATOM	37595	C4'	CYT	856	144.008	103.758	-34.551	1.00	35.68	Al6

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ATOM	37596	O4' CYT	856	144.499	105.006	-35.092	1.00	35.68	Al6s	ATOM	37649	C2' GUA	858	156.091	98.984	-32.694	1.00	31.97	Al6
ATOM	37597	C4' CYT	856	145.861	104.859	-35.445	1.00	35.68	Al6s	ATOM	37650	O2' GUA	858	157.241	98.631	-33.428	1.00	31.97	Al6
ATOM	37598	N1 CYT	856	146.675	105.777	-34.626	1.00	31.55	Al6s	ATOM	37651	C3' GUA	858	155.039	97.885	-32.729	1.00	31.97	Al6
ATOM	37599	C6 CYT	856	146.267	106.146	-33.376	1.00	31.55	Al6s	ATOM	37652	O3' GUA	858	155.589	96.582	-32.560	1.00	31.97	Al6
ATOM	37600	C2 CYT	856	147.922	106.218	-35.122	1.00	31.55	Al6s	ATOM	37653	P CYT	859	155.556	95.882	-31.100	1.00	34.75	Al6
ATOM	37601	O2 CYT	856	148.243	105.947	-36.294	1.00	31.55	Al6s	ATOM	37654	O1P CYT	859	156.165	94.529	-31.217	1.00	34.29	Al6
ATOM	37602	N3 CYT	856	148.736	106.924	-34.308	1.00	31.55	Al6s	ATOM	37655	O2P CYT	859	154.207	96.020	-30.481	1.00	34.29	Al6
ATOM	37603	C4 CYT	856	148.353	107.206	-33.064	1.00	31.55	Al6s	ATOM	37656	O5' CYT	859	156.587	96.762	-30.274	1.00	34.75	Al6
ATOM	37604	N4 CYT	856	149.214	107.825	-32.272	1.00	31.55	Al6s	ATOM	37657	C5' CYT	859	157.949	96.827	-30.684	1.00	34.75	Al6
ATOM	37605	C5' CYT	856	147.073	106.846	-32.567	1.00	31.55	Al6s	ATOM	37658	C4' CYT	859	158.687	97.870	-29.898	1.00	34.75	Al6
ATOM	37606	C2' CYT	856	146.245	103.424	-35.090	1.00	35.68	Al6s	ATOM	37659	O4' CYT	859	158.060	99.167	-30.089	1.00	34.75	Al6
ATOM	37607	O2' CYT	856	146.002	102.606	-36.212	1.00	35.68	Al6s	ATOM	37660	C1' CYT	859	158.200	99.939	-28.905	1.00	34.75	Al6
ATOM	37608	C3' CYT	856	145.253	103.118	-33.990	1.00	35.68	Al6s	ATOM	37661	N1 CYT	859	156.864	100.254	-28.364	1.00	34.29	Al6
ATOM	37609	O3' CYT	856	145.119	101.739	-33.790	1.00	35.68	Al6s	ATOM	37662	C6 CYT	859	155.755	99.580	-28.783	1.00	34.29	Al6
ATOM	37610	P CYT	857	146.062	101.016	-32.712	1.00	36.45	Al6s	ATOM	37663	C2 CYT	859	156.752	101.257	-27.403	1.00	34.29	Al6
ATOM	37611	O1P CYT	857	145.517	99.651	-32.504	1.00	33.31	Al6s	ATOM	37664	O2 CYT	859	157.761	101.867	-27.057	1.00	34.29	Al6
ATOM	37612	O2P CYT	857	146.237	101.906	-31.549	1.00	33.31	Al6s	ATOM	37665	N3 CYT	859	155.542	101.542	-26.879	1.00	34.29	Al6
ATOM	37613	O5' CYT	857	147.438	100.889	-33.502	1.00	36.45	Al6s	ATOM	37666	C4 CYT	859	154.464	100.879	-27.296	1.00	34.29	Al6
ATOM	37614	C5' CYT	857	147.465	100.190	-34.760	1.00	36.45	Al6s	ATOM	37667	N4 CYT	859	153.287	101.197	-26.754	1.00	34.29	Al6
ATOM	37615	C4' CYT	857	148.837	100.221	-35.376	1.00	36.45	Al6s	ATOM	37668	C5 CYT	859	154.544	99.860	-28.286	1.00	34.29	Al6
ATOM	37616	O4' CYT	857	149.194	101.576	-35.736	1.00	36.45	Al6s	ATOM	37669	C2' CYT	859	159.012	99.106	-27.916	1.00	34.75	Al6
ATOM	37617	C1' CYT	857	150.586	101.756	-35.585	1.00	36.45	Al6s	ATOM	37670	O2' CYT	859	160.383	99.441	-28.055	1.00	34.75	Al6
ATOM	37618	N1 CYT	857	150.818	102.738	-34.514	1.00	33.31	Al6s	ATOM	37671	C3' CYT	859	158.704	97.696	-28.394	1.00	34.75	Al6
ATOM	37619	C6 CYT	857	149.950	102.856	-33.462	1.00	33.31	Al6s	ATOM	37672	O3' CYT	859	159.663	96.761	-27.947	1.00	34.75	Al6
ATOM	37620	C2 CYT	857	151.963	103.531	-34.575	1.00	33.31	Al6s	ATOM	37673	P CYT	860	159.538	96.179	-26.461	1.00	33.24	Al6
ATOM	37621	O2 CYT	857	152.715	103.435	-35.564	1.00	33.31	Al6s	ATOM	37674	O1P CYT	860	160.546	95.111	-26.266	1.00	42.57	Al6
ATOM	37622	N3 CYT	857	152.224	104.380	-33.564	1.00	33.31	Al6s	ATOM	37675	O2P CYT	860	158.105	95.897	-26.197	1.00	42.57	Al6
ATOM	37623	C4 CYT	857	151.392	104.459	-32.525	1.00	33.31	Al6s	ATOM	37676	O5' CYT	860	159.977	97.408	-25.560	1.00	33.24	Al6
ATOM	37624	N4 CYT	857	151.720	105.279	-31.531	1.00	33.31	Al6s	ATOM	37677	C5' CYT	860	161.306	97.909	-25.632	1.00	33.24	Al6
ATOM	37625	C5 CYT	857	150.197	103.694	-32.456	1.00	33.31	Al6s	ATOM	37678	C4' CYT	860	161.561	98.844	-24.492	1.00	33.24	Al6
ATOM	37626	C2' CYT	857	151.511	100.400	-35.201	1.00	36.45	Al6s	ATOM	37679	C3' CYT	860	160.647	99.962	-24.585	1.00	33.24	Al6
ATOM	37627	O2' CYT	857	151.513	99.724	-36.392	1.00	36.45	Al6s	ATOM	37680	C1' CYT	860	160.313	100.404	-23.283	1.00	33.24	Al6
ATOM	37628	C3' CYT	857	149.985	99.748	-34.516	1.00	36.45	Al6s	ATOM	37681	N1 CYT	860	158.847	100.400	-23.131	1.00	42.57	Al6
ATOM	37629	O3' CYT	857	150.084	98.350	-34.523	1.00	36.45	Al6s	ATOM	37682	C6 CYT	860	158.047	99.726	-24.006	1.00	42.57	Al6
ATOM	37630	P GUA	858	150.616	97.607	-33.218	1.00	31.97	Al6s	ATOM	37683	O2 CYT	860	158.285	101.109	-22.066	1.00	42.57	Al6
ATOM	37631	O1P GUA	858	150.354	96.155	-33.417	1.00	27.67	Al6s	ATOM	37684	C2 CYT	860	159.033	101.721	-21.290	1.00	42.57	Al6
ATOM	37632	O2P GUA	858	150.075	98.281	-32.035	1.00	27.67	Al6s	ATOM	37685	N3 CYT	860	156.950	101.116	-21.911	1.00	42.57	Al6
ATOM	37633	O5' GUA	858	152.170	97.936	-33.197	1.00	31.97	Al6s	ATOM	37686	C4 CYT	860	156.181	100.456	-22.770	1.00	42.57	Al6
ATOM	37634	C5' GUA	858	153.016	97.550	-34.283	1.00	31.97	Al6s	ATOM	37687	N4 CYT	860	154.866	100.490	-22.576	1.00	42.57	Al6
ATOM	37635	O4' GUA	858	154.409	98.102	-34.094	1.00	31.97	Al6s	ATOM	37688	C5 CYT	860	156.722	99.731	-23.865	1.00	42.57	Al6
ATOM	37636	C1' GUA	858	154.401	99.548	-34.265	1.00	31.97	Al6s	ATOM	37689	C2' CYT	860	161.056	99.521	-22.279	1.00	33.24	Al6
ATOM	37637	C1' GUA	858	155.370	100.134	-33.409	1.00	31.97	Al6s	ATOM	37690	O3' CYT	860	162.238	100.212	-21.953	1.00	33.24	Al6
ATOM	37638	N9 GUA	858	154.688	100.972	-32.422	1.00	27.67	Al6s	ATOM	37691	C3' CYT	860	161.338	98.270	-23.103	1.00	33.24	Al6
ATOM	37639	C4 GUA	858	155.284	101.821	-31.517	1.00	27.67	Al6s	ATOM	37692	O2' CYT	860	162.519	97.607	-22.680	1.00	33.24	Al6
ATOM	37640	N3 GUA	858	156.602	102.096	-31.432	1.00	27.67	Al6s	ATOM	37693	P URI	861	162.430	96.390	-21.633	1.00	36.50	Al6
ATOM	37641	C2 GUA	858	156.863	102.930	-30.444	1.00	27.67	Al6s	ATOM	37694	O1P URI	861	163.814	95.929	-21.357	1.00	45.36	Al6
ATOM	37642	N2 GUA	858	158.108	103.335	-30.214	1.00	27.67	Al6s	ATOM	37695	O2P URI	861	161.408	95.417	-22.085	1.00	45.36	Al6
ATOM	37643	N1 GUA	858	155.919	103.437	-29.607	1.00	27.67	Al6s	ATOM	37696	O5' URI	861	161.903	97.095	-20.317	1.00	36.50	Al6
ATOM	37644	C6 GUA	858	154.564	103.159	-29.671	1.00	27.67	Al6s	ATOM	37697	C5' URI	861	162.704	98.070	-19.660	1.00	36.50	Al6
ATOM	37645	O6 GUA	858	153.798	103.659	-28.849	1.00	27.67	Al6s	ATOM	37698	C4' URI	861	162.125	98.362	-18.315	1.00	36.50	Al6
ATOM	37646	C5 GUA	858	154.263	102.284	-30.727	1.00	27.67	Al6s	ATOM	37699	O4' URI	861	160.884	99.099	-18.482	1.00	36.50	Al6
ATOM	37647	N7 GUA	858	153.045	101.777	-31.146	1.00	27.67	Al6s	ATOM	37700	C1' URI	861	159.860	98.441	-17.789	1.00	36.50	Al6
ATOM	37648	C8 GUA	858	153.341	101.019	-32.162	1.00	27.67	Al6s	ATOM	37701	N1 URI	861	158.577	98.703	-18.463	1.00	45.36	Al6

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ATOM	37702	C6	URI	861	158.159	97.959	-19.533	1.00	45.36	Al6S	ATOM	37755	C2'	GUA	863	173.526	96.051	-16.177	1.00	40.70	Al6
ATOM	37703	C2	URI	861	157.781	99.721	-17.960	1.00	45.36	Al6S	ATOM	37756	C2'	GUA	863	174.709	96.831	-16.233	1.00	40.70	Al6
ATOM	37704	O2	URI	861	158.141	100.465	-17.065	1.00	45.36	Al6S	ATOM	37757	C3'	GUA	863	172.568	96.472	-17.270	1.00	40.70	Al6
ATOM	37705	N3	URI	861	156.553	99.849	-18.569	1.00	45.36	Al6S	ATOM	37758	O3'	GUA	863	173.257	96.657	-18.487	1.00	40.70	Al6
ATOM	37706	C4	URI	861	156.063	99.107	-19.611	1.00	45.36	Al6S	ATOM	37759	P	GUA	864	173.232	95.477	-19.567	1.00	47.11	Al6
ATOM	37707	O4	URI	861	154.903	99.281	-19.994	1.00	45.36	Al6S	ATOM	37760	O1P	GUA	864	173.872	96.037	-20.786	1.00	37.43	Al6
ATOM	37708	C5	URI	861	156.965	98.127	-20.110	1.00	45.36	Al6S	ATOM	37761	O2P	GUA	864	171.839	94.944	-19.621	1.00	37.43	Al6
ATOM	37709	C2'	URI	861	160.296	96.979	-17.677	1.00	36.50	Al6S	ATOM	37762	O5'	GUA	864	174.125	94.320	-18.921	1.00	47.11	Al6
ATOM	37710	O2'	URI	861	159.678	96.360	-16.569	1.00	36.50	Al6S	ATOM	37763	C5'	GUA	864	175.532	94.516	-18.675	1.00	47.11	Al6
ATOM	37711	C6	URI	861	161.806	97.116	-17.503	1.00	36.50	Al6S	ATOM	37764	C4'	GUA	864	176.129	93.319	-17.963	1.00	47.11	Al6
ATOM	37712	O3'	URI	861	162.123	97.363	-16.142	1.00	36.50	Al6S	ATOM	37765	O4'	GUA	864	175.526	93.162	-16.653	1.00	47.11	Al6
ATOM	37713	P	GUA	862	163.136	96.386	-15.349	1.00	40.14	Al6S	ATOM	37766	C1'	GUA	864	175.515	91.794	-16.299	1.00	47.11	Al6
ATOM	37714	O1P	GUA	862	163.205	95.067	-16.031	1.00	37.71	Al6S	ATOM	37767	N9	GUA	864	174.138	91.358	-16.112	1.00	37.43	Al6
ATOM	37715	O2P	GUA	862	162.742	96.443	-13.911	1.00	37.71	Al6S	ATOM	37768	C4	GUA	864	173.749	90.218	-15.461	1.00	37.43	Al6
ATOM	37716	O5'	GUA	862	164.559	97.091	-15.489	1.00	40.14	Al6S	ATOM	37769	N3	GUA	864	174.570	89.345	-14.848	1.00	37.43	Al6
ATOM	37717	C5'	GUA	862	164.676	98.517	-15.576	1.00	40.14	Al6S	ATOM	37770	C2	GUA	864	173.912	88.327	-14.344	1.00	37.43	Al6
ATOM	37718	C4'	GUA	862	166.063	98.955	-15.166	1.00	40.14	Al6S	ATOM	37771	N2	GUA	864	174.577	87.356	-13.712	1.00	37.43	Al6
ATOM	37719	O4'	GUA	862	166.206	98.822	-13.731	1.00	40.14	Al6S	ATOM	37772	N1	GUA	864	172.552	88.181	-14.427	1.00	37.43	Al6
ATOM	37720	C1'	GUA	862	167.538	98.454	-13.411	1.00	40.14	Al6S	ATOM	37773	C6	GUA	864	171.688	89.076	-15.053	1.00	37.43	Al6
ATOM	37721	N9	GUA	862	167.508	97.107	-12.852	1.00	37.71	Al6S	ATOM	37774	O6	GUA	864	170.470	88.853	-15.076	1.00	37.43	Al6
ATOM	37722	C4	GUA	862	168.537	96.471	-12.200	1.00	37.71	Al6S	ATOM	37775	C5	GUA	864	172.382	90.166	-15.600	1.00	37.43	Al6
ATOM	37723	N3	GUA	862	169.757	96.992	-11.941	1.00	37.71	Al6S	ATOM	37776	N7	GUA	864	171.912	91.267	-16.300	1.00	37.43	Al6
ATOM	37724	C2	GUA	862	170.538	96.130	-11.329	1.00	37.71	Al6S	ATOM	37777	C8	GUA	864	172.988	91.954	-16.576	1.00	37.43	Al6
ATOM	37725	N2	GUA	862	171.779	96.476	-11.023	1.00	37.71	Al6S	ATOM	37778	C2'	GUA	864	176.131	90.721	-17.452	1.00	47.11	Al6
ATOM	37726	N1	GUA	862	170.154	94.306	-11.230	1.00	37.71	Al6S	ATOM	37779	O2'	GUA	864	177.486	91.004	-17.187	1.00	47.11	Al6
ATOM	37727	C6	GUA	862	168.902	94.306	-11.230	1.00	37.71	Al6S	ATOM	37780	C3'	GUA	864	175.939	91.961	-18.616	1.00	47.11	Al6
ATOM	37728	O6	GUA	862	168.653	93.150	-10.868	1.00	37.71	Al6S	ATOM	37781	O3'	GUA	864	176.871	91.692	-19.649	1.00	47.11	Al6
ATOM	37729	C5	GUA	862	168.058	95.214	-11.902	1.00	37.71	Al6S	ATOM	37782	P	GUA	865	176.441	90.733	-20.867	1.00	39.26	Al6
ATOM	37730	N7	GUA	862	166.755	95.065	-12.346	1.00	37.71	Al6S	ATOM	37783	O1P	GUA	865	177.653	90.534	-21.694	1.00	46.85	Al6
ATOM	37731	C8	GUA	862	166.468	96.211	-12.895	1.00	37.71	Al6S	ATOM	37784	O2P	GUA	865	175.215	91.305	-21.491	1.00	46.85	Al6
ATOM	37732	C2'	GUA	862	168.331	98.451	-14.713	1.00	40.14	Al6S	ATOM	37785	O5'	GUA	865	176.056	89.357	-20.169	1.00	39.26	Al6
ATOM	37733	O2'	GUA	862	168.932	99.710	-14.914	1.00	40.14	Al6S	ATOM	37786	C5'	GUA	865	177.069	88.518	-19.590	1.00	39.26	Al6
ATOM	37734	C3'	GUA	862	167.237	98.164	-15.725	1.00	40.14	Al6S	ATOM	37787	C4'	GUA	865	176.455	87.268	-19.007	1.00	39.26	Al6
ATOM	37735	O3'	GUA	862	167.620	98.516	-17.044	1.00	40.14	Al6S	ATOM	37788	O4'	GUA	865	175.458	87.649	-19.007	1.00	39.26	Al6
ATOM	37736	P	GUA	863	168.288	97.399	-17.986	1.00	40.70	Al6S	ATOM	37789	C1'	GUA	865	174.382	86.835	-17.982	1.00	39.26	Al6
ATOM	37737	O1P	GUA	863	168.463	98.003	-19.331	1.00	41.63	Al6S	ATOM	37790	N9	GUA	865	173.255	87.707	-18.318	1.00	46.85	Al6
ATOM	37738	O2P	GUA	863	167.513	96.137	-17.836	1.00	41.63	Al6S	ATOM	37791	C4	GUA	865	171.915	87.506	-18.051	1.00	46.85	Al6
ATOM	37739	O5'	GUA	863	169.715	97.157	-17.330	1.00	40.70	Al6S	ATOM	37792	N3	GUA	865	171.375	86.454	-17.398	1.00	46.85	Al6
ATOM	37740	C5'	GUA	863	170.662	98.217	-17.268	1.00	40.70	Al6S	ATOM	37793	C2	GUA	865	170.049	86.537	-17.332	1.00	46.85	Al6
ATOM	37741	C4'	GUA	863	171.962	97.731	-16.685	1.00	40.70	Al6S	ATOM	37794	N2	GUA	865	169.343	85.577	-16.718	1.00	46.85	Al6
ATOM	37742	O4'	GUA	863	171.788	97.387	-15.291	1.00	40.70	Al6S	ATOM	37795	N1	GUA	865	169.319	87.569	-17.863	1.00	46.85	Al6
ATOM	37743	C1'	GUA	863	172.717	96.388	-14.932	1.00	40.70	Al6S	ATOM	37796	C6	GUA	865	169.857	88.669	-18.533	1.00	46.85	Al6
ATOM	37744	N9	GUA	863	171.991	95.221	-14.455	1.00	41.63	Al6S	ATOM	37797	O6	GUA	865	169.107	89.557	-18.980	1.00	46.85	Al6
ATOM	37745	C4	GUA	863	172.546	94.158	-13.803	1.00	41.63	Al6S	ATOM	37798	C5	GUA	865	171.269	88.593	-18.608	1.00	46.85	Al6
ATOM	37746	N3	GUA	863	173.852	94.018	-13.500	1.00	41.63	Al6S	ATOM	37799	N7	GUA	865	172.179	89.464	-19.186	1.00	46.85	Al6
ATOM	37747	C2	GUA	863	174.085	92.898	-12.849	1.00	41.63	Al6S	ATOM	37800	C8	GUA	865	173.338	88.905	-18.990	1.00	46.85	Al6
ATOM	37748	N2	GUA	863	175.332	92.610	-12.435	1.00	41.63	Al6S	ATOM	37801	C2'	GUA	865	174.634	85.744	-19.026	1.00	39.26	Al6
ATOM	37749	N1	GUA	863	173.113	91.979	-12.544	1.00	41.63	Al6S	ATOM	37802	O2'	GUA	865	175.199	84.607	-18.390	1.00	39.26	Al6
ATOM	37750	C6	GUA	863	171.766	92.103	-12.857	1.00	41.63	Al6S	ATOM	37803	C3'	GUA	865	175.615	86.443	-19.963	1.00	39.26	Al6
ATOM	37751	O6	GUA	863	170.974	91.209	-12.535	1.00	41.63	Al6S	ATOM	37804	O3'	GUA	865	176.414	85.539	-20.708	1.00	39.26	Al6
ATOM	37752	C5	GUA	863	171.502	93.302	-13.535	1.00	41.63	Al6S	ATOM	37805	P	GUA	866	176.054	85.246	-22.244	1.00	71.95	Al6
ATOM	37753	N7	GUA	863	170.309	93.815	-14.015	1.00	41.63	Al6S	ATOM	37806	O1P	ADE	866	174.867	84.357	-22.253	1.00	48.08	Al6
ATOM	37754	C8	GUA	863	170.648	94.955	-14.557	1.00	41.63	Al6S	ATOM	37807	O2P	ADE	866	177.301	84.812	-22.906	1.00	48.08	Al6

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ATOM	37808	OS' ADE	866	175.640	86.675	-22.810	1.00	71.95	Al6s	ATOM	37861	O2	URI	868	171.460	83.084	-23.769	1.00	55.77	Al6
ATOM	37809	C5' ADE	866	175.757	87.004	-24.211	1.00	71.95	Al6s	ATOM	37862	N3	URI	868	169.771	84.451	-24.428	1.00	55.77	Al6
ATOM	37810	C4' ADE	866	174.636	87.933	-24.595	1.00	71.95	Al6s	ATOM	37863	C4	URI	868	169.208	85.454	-25.181	1.00	55.77	Al6
ATOM	37811	O4' ADE	866	173.429	87.210	-24.317	1.00	71.95	Al6s	ATOM	37864	O4	URI	868	168.021	85.741	-25.012	1.00	55.77	Al6
ATOM	37812	C1' ADE	866	172.453	88.098	-23.847	1.00	71.95	Al6s	ATOM	37865	C5	URI	868	170.095	86.065	-26.121	1.00	55.77	Al6
ATOM	37813	N9 ADE	866	171.646	87.407	-22.849	1.00	48.08	Al6s	ATOM	37866	C2' URI	868	173.390	82.717	-26.056	1.00	52.26	Al6	
ATOM	37814	C4 ADE	866	170.331	87.666	-22.578	1.00	48.08	Al6s	ATOM	37867	O2' URI	868	174.422	82.069	-25.336	1.00	52.26	Al6	
ATOM	37815	N3 ADE	866	169.572	88.637	-23.104	1.00	48.08	Al6s	ATOM	37868	C3' URI	868	173.670	82.892	-27.550	1.00	52.26	Al6	
ATOM	37816	C2 ADE	866	168.334	88.561	-22.640	1.00	48.08	Al6s	ATOM	37869	O3' URI	868	174.412	81.810	-28.095	1.00	52.26	Al6	
ATOM	37817	N4 ADE	866	167.804	87.687	-21.780	1.00	48.08	Al6s	ATOM	37870	P	ADE	869	173.646	80.584	-28.807	1.00	48.67	Al6
ATOM	37818	C6 ADE	866	168.597	86.715	-21.278	1.00	48.08	Al6s	ATOM	37871	O1P ADE	869	174.723	79.681	-29.287	1.00	37.52	Al6	
ATOM	37819	N6 ADE	866	168.066	85.817	-20.441	1.00	48.08	Al6s	ATOM	37872	O2P ADE	869	172.628	81.086	-29.766	1.00	37.52	Al6	
ATOM	37820	C5 ADE	866	169.935	86.698	-21.680	1.00	48.08	Al6s	ATOM	37873	O5' ADE	869	172.856	79.860	-27.633	1.00	48.67	Al6	
ATOM	37821	N7 ADE	866	170.996	85.868	-21.352	1.00	48.08	Al6s	ATOM	37874	C5' ADE	869	173.556	79.214	-26.575	1.00	48.67	Al6	
ATOM	37822	C8 ADE	866	171.990	86.341	-22.060	1.00	48.08	Al6s	ATOM	37875	C4' ADE	869	172.586	78.482	-25.694	1.00	48.67	Al6	
ATOM	37823	C2' ADE	866	173.088	89.447	-23.508	1.00	71.95	Al6s	ATOM	37876	O4' ADE	869	171.850	78.963	-24.875	1.00	48.67	Al6	
ATOM	37824	O2' ADE	866	172.554	90.459	-24.344	1.00	71.95	Al6s	ATOM	37877	C1' ADE	869	170.517	79.422	-24.706	1.00	48.67	Al6	
ATOM	37825	C3' ADE	866	174.579	89.186	-23.727	1.00	71.95	Al6s	ATOM	37878	N9 ADE	869	169.607	79.962	-25.275	1.00	37.52	Al6	
ATOM	37826	O3' ADE	866	175.159	90.372	-24.323	1.00	71.95	Al6s	ATOM	37879	C4 ADE	869	168.273	80.094	-24.977	1.00	37.52	Al6	
ATOM	37827	P	867	175.507	90.446	-25.907	1.00	58.90	Al6s	ATOM	37880	N3 ADE	869	167.547	79.334	-24.138	1.00	37.52	Al6	
ATOM	37828	O1P GUA	867	176.006	89.150	-26.400	1.00	54.12	Al6s	ATOM	37881	C2 ADE	869	166.282	79.761	-24.098	1.00	37.52	Al6	
ATOM	37829	O2P GUA	867	176.314	91.665	-26.135	1.00	54.12	Al6s	ATOM	37882	N1 ADE	869	165.708	80.792	-24.747	1.00	37.52	Al6	
ATOM	37830	O5' GUA	867	174.109	90.716	-26.608	1.00	58.90	Al6s	ATOM	37883	C6 ADE	869	166.477	81.539	-25.577	1.00	37.52	Al6	
ATOM	37831	C5' GUA	867	173.904	90.355	-27.970	1.00	58.90	Al6s	ATOM	37884	N6 ADE	869	165.924	82.575	-26.212	1.00	37.52	Al6	
ATOM	37832	C4' GUA	867	172.911	89.230	-28.054	1.00	58.90	Al6s	ATOM	37885	C5 ADE	869	167.827	81.180	-25.717	1.00	37.52	Al6	
ATOM	37833	O4' GUA	867	171.590	89.699	-27.660	1.00	58.90	Al6s	ATOM	37886	N7 ADE	869	168.854	81.710	-26.482	1.00	37.52	Al6	
ATOM	37834	C1' GUA	867	170.668	89.357	-28.667	1.00	58.90	Al6s	ATOM	37887	C8 ADE	869	169.884	80.956	-26.188	1.00	37.52	Al6	
ATOM	37835	N9 GUA	867	169.534	90.267	-28.623	1.00	54.12	Al6s	ATOM	37888	C2' ADE	869	170.405	77.606	-25.401	1.00	48.67	Al6	
ATOM	37836	C4 GUA	867	168.340	90.027	-27.985	1.00	54.12	Al6s	ATOM	37889	O2' ADE	869	170.643	76.560	-24.477	1.00	48.67	Al6	
ATOM	37837	N3 GUA	867	168.026	88.919	-27.280	1.00	54.12	Al6s	ATOM	37890	C3' ADE	869	171.514	77.708	-26.435	1.00	48.67	Al6	
ATOM	37838	C2 GUA	867	166.805	88.981	-26.779	1.00	54.12	Al6s	ATOM	37891	O3' ADE	869	171.961	76.438	-26.861	1.00	48.67	Al6	
ATOM	37839	N2 GUA	867	166.325	87.961	-26.049	1.00	54.12	Al6s	ATOM	37892	P	CYT	870	171.303	75.770	-28.160	1.00	57.26	Al6
ATOM	37840	N1 GUA	867	165.961	90.047	-26.953	1.00	54.12	Al6s	ATOM	37893	O1P CYT	870	171.954	74.443	-28.329	1.00	48.64	Al6	
ATOM	37841	C6 GUA	867	166.261	91.198	-27.673	1.00	54.12	Al6s	ATOM	37894	O2P CYT	870	171.339	76.768	-29.264	1.00	48.64	Al6	
ATOM	37842	O6 GUA	867	165.419	92.104	-27.768	1.00	54.12	Al6s	ATOM	37895	O5' CYT	870	169.789	75.518	-27.743	1.00	57.26	Al6	
ATOM	37843	C5 GUA	867	167.573	91.141	-28.220	1.00	54.12	Al6s	ATOM	37896	C5' CYT	870	169.466	74.567	-26.723	1.00	57.26	Al6	
ATOM	37844	N7 GUA	867	168.268	92.064	-28.988	1.00	54.12	Al6s	ATOM	37897	O4' CYT	870	167.991	74.595	-26.442	1.00	57.26	Al6	
ATOM	37845	C8 GUA	867	169.426	91.503	-29.201	1.00	54.12	Al6s	ATOM	37898	O4' CYT	870	167.634	75.879	-25.864	1.00	57.26	Al6	
ATOM	37846	C2' GUA	867	171.490	89.317	-29.948	1.00	58.90	Al6s	ATOM	37899	C1' CYT	870	166.339	76.257	-26.305	1.00	57.26	Al6	
ATOM	37847	O2' GUA	867	170.837	88.608	-30.971	1.00	58.90	Al6s	ATOM	37900	N1 CYT	870	166.432	77.543	-27.024	1.00	48.64	Al6	
ATOM	37848	C3' GUA	867	172.741	88.624	-29.439	1.00	58.90	Al6s	ATOM	37901	C6 CYT	870	167.579	77.907	-27.674	1.00	48.64	Al6	
ATOM	37849	O3' GUA	867	172.424	87.265	-29.193	1.00	58.90	Al6s	ATOM	37902	C2 CYT	870	165.308	78.388	-27.044	1.00	48.64	Al6	
ATOM	37850	P	868	172.585	86.159	-30.337	1.00	52.26	Al6s	ATOM	37903	O2 CYT	870	164.283	78.050	-26.423	1.00	48.64	Al6	
ATOM	37851	O1P URI	868	173.604	86.610	-31.331	1.00	55.77	Al6s	ATOM	37904	N3 CYT	870	165.370	79.547	-27.733	1.00	48.64	Al6	
ATOM	37852	O2P URI	868	171.214	85.789	-30.802	1.00	55.77	Al6s	ATOM	37905	C4 CYT	870	166.491	79.883	-28.370	1.00	48.64	Al6	
ATOM	37853	O5' URI	868	173.142	84.910	-29.511	1.00	52.26	Al6s	ATOM	37906	N4 CYT	870	166.506	81.038	-29.037	1.00	48.64	Al6	
ATOM	37854	C5' URI	868	174.448	84.950	-28.901	1.00	52.26	Al6s	ATOM	37907	C5 CYT	870	167.650	79.053	-28.353	1.00	48.64	Al6	
ATOM	37855	C4' URI	868	174.460	84.187	-27.594	1.00	52.26	Al6s	ATOM	37908	C2' CYT	870	165.809	75.139	-27.204	1.00	57.26	Al6	
ATOM	37856	O4' URI	868	173.920	84.998	-26.520	1.00	52.26	Al6s	ATOM	37909	O2' CYT	870	164.980	74.291	-26.442	1.00	57.26	Al6	
ATOM	37857	C1' URI	868	173.261	84.169	-25.577	1.00	52.26	Al6s	ATOM	37910	C3' CYT	870	167.100	74.471	-27.664	1.00	57.26	Al6	
ATOM	37858	N1 URI	868	171.865	84.625	-25.436	1.00	55.77	Al6s	ATOM	37911	O3' CYT	870	166.924	73.126	-28.075	1.00	57.26	Al6	
ATOM	37859	C6 URI	868	171.358	85.643	-26.214	1.00	55.77	Al6s	ATOM	37912	P	GUA	871	166.777	72.790	-29.644	1.00	58.47	Al6
ATOM	37860	C2	868	171.061	83.989	-24.492	1.00	55.77	Al6s	ATOM	37913	O1P GUA	871	166.818	71.300	-29.756	1.00	42.58	Al6	

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ATOM	37914	O2P GUA	871	167.740	73.612	-30.435	1.00	42.58	Al6s	ATOM	37967	C6	CYT	873	162.228	78.334	-38.210	1.00	40.94	Al6
ATOM	37915	O5' GUA	871	165.308	73.295	-29.998	1.00	58.47	Al6s	ATOM	37968	C2	CYT	873	162.967	80.554	-38.749	1.00	40.94	Al6
ATOM	37916	C5' GUA	871	164.156	72.709	-29.366	1.00	58.47	Al6s	ATOM	37969	O2	CYT	873	162.681	81.708	-39.152	1.00	40.94	Al6
ATOM	37917	C4' GUA	871	162.917	73.485	-29.724	1.00	58.47	Al6s	ATOM	37970	N3	CYT	873	164.223	80.216	-38.354	1.00	40.94	Al6
ATOM	37918	O4' GUA	871	162.949	74.782	-29.085	1.00	58.47	Al6s	ATOM	37971	C4	CYT	873	164.476	78.985	-37.913	1.00	40.94	Al6
ATOM	37919	C1' GUA	871	162.343	75.745	-29.927	1.00	58.47	Al6s	ATOM	37972	N4	CYT	873	165.719	78.691	-37.572	1.00	40.94	Al6
ATOM	37920	N9	871	163.315	76.783	-30.254	1.00	42.58	Al6s	ATOM	37973	C5	CYT	873	163.460	77.999	-37.811	1.00	40.94	Al6
ATOM	37921	C4	871	163.018	78.040	-30.714	1.00	42.58	Al6s	ATOM	37974	C2	CYT	873	160.585	79.737	-40.727	1.00	45.65	Al6
ATOM	37922	N3	871	161.781	78.528	-30.930	1.00	42.58	Al6s	ATOM	37975	O2	CYT	873	159.719	80.693	-41.304	1.00	45.65	Al6
ATOM	37923	C2' GUA	871	161.812	79.760	-31.398	1.00	42.58	Al6s	ATOM	37976	C3	CYT	873	160.073	78.308	-40.830	1.00	45.65	Al6
ATOM	37924	N2 GUA	871	160.667	80.390	-31.692	1.00	42.58	Al6s	ATOM	37977	O3	CYT	873	159.523	78.009	-42.090	1.00	45.65	Al6
ATOM	37925	N1	871	162.966	80.467	-31.617	1.00	42.58	Al6s	ATOM	37978	P	CYT	874	160.483	77.456	-43.243	1.00	50.95	Al6
ATOM	37926	C6	871	164.253	79.993	-31.383	1.00	42.58	Al6s	ATOM	37979	O1P	CYT	874	159.607	77.207	-44.420	1.00	31.80	Al6
ATOM	37927	O6	871	165.231	80.730	-31.585	1.00	42.58	Al6s	ATOM	37980	O2P	CYT	874	161.307	76.347	-42.679	1.00	31.80	Al6
ATOM	37928	C5	871	164.234	78.657	-30.907	1.00	42.58	Al6s	ATOM	37981	O5'	CYT	874	161.416	78.701	-43.576	1.00	50.95	Al6
ATOM	37929	N7	871	165.277	77.805	-30.575	1.00	42.58	Al6s	ATOM	37982	C5'	CYT	874	160.853	79.884	-44.159	1.00	50.95	Al6
ATOM	37930	C8	871	164.685	76.708	-30.188	1.00	42.58	Al6s	ATOM	37983	C4'	CYT	874	161.918	80.931	-44.380	1.00	50.95	Al6
ATOM	37931	C2'	871	161.871	75.028	-31.185	1.00	58.47	Al6s	ATOM	37984	O4'	CYT	874	162.434	81.747	-43.236	1.00	50.95	Al6
ATOM	37932	C3'	871	160.516	74.687	-31.036	1.00	58.47	Al6s	ATOM	37985	C1'	CYT	874	164.619	80.870	-42.389	1.00	31.80	Al6
ATOM	37933	O2'	871	162.773	73.809	-31.195	1.00	58.47	Al6s	ATOM	37986	N1	CYT	874	164.138	79.676	-41.926	1.00	31.80	Al6
ATOM	37934	O3'	871	162.198	72.753	-31.920	1.00	58.47	Al6s	ATOM	37987	C6	CYT	874	165.927	81.267	-42.086	1.00	31.80	Al6
ATOM	37935	P	872	162.475	72.648	-33.495	1.00	52.76	Al6s	ATOM	37988	C2	CYT	874	166.320	82.378	-42.475	1.00	31.80	Al6
ATOM	37936	O1P	872	161.883	71.354	-33.933	1.00	42.76	Al6s	ATOM	37989	O2	CYT	874	166.726	79.258	-40.954	1.00	31.80	Al6
ATOM	37937	O2P	872	163.927	72.921	-33.712	1.00	42.76	Al6s	ATOM	37990	N3	CYT	874	167.075	78.459	-40.281	1.00	31.80	Al6
ATOM	37938	O5'	872	161.633	73.849	-34.133	1.00	52.76	Al6s	ATOM	37991	C4	CYT	874	164.914	78.847	-41.213	1.00	31.80	Al6
ATOM	37939	C5'	872	160.201	73.907	-33.980	1.00	52.76	Al6s	ATOM	37992	N4	CYT	874	164.172	81.555	-44.702	1.00	50.95	Al6
ATOM	37940	C4'	872	159.662	75.241	-34.446	1.00	52.76	Al6s	ATOM	37993	C5	CYT	874	163.927	79.344	-46.536	1.00	50.95	Al6
ATOM	37941	O4'	872	160.199	76.303	-33.620	1.00	52.76	Al6s	ATOM	37994	C2'	CYT	874	164.018	82.767	-45.411	1.00	50.95	Al6
ATOM	37942	C1'	872	161.786	77.836	-34.373	1.00	42.76	Al6s	ATOM	37995	O2'	CYT	874	163.875	79.461	-48.779	1.00	44.10	Al6
ATOM	37943	N9	872	161.647	80.129	-35.116	1.00	42.76	Al6s	ATOM	37996	C3'	CYT	874	163.164	80.506	-45.132	1.00	50.95	Al6
ATOM	37944	C4	872	162.332	79.058	-34.690	1.00	42.76	Al6s	ATOM	37997	O3'	CYT	874	163.027	79.443	-46.536	1.00	50.95	Al6
ATOM	37945	N3	872	162.437	81.157	-35.340	1.00	42.76	Al6s	ATOM	37998	P	CYT	875	163.540	79.461	-48.779	1.00	44.10	Al6
ATOM	37946	C2	872	161.924	82.291	-35.811	1.00	42.76	Al6s	ATOM	38000	O2P	GUA	875	163.760	78.031	-46.661	1.00	44.10	Al6
ATOM	37947	N2	872	163.786	81.146	-35.132	1.00	42.76	Al6s	ATOM	38001	O5'	GUA	875	165.371	79.834	-47.165	1.00	48.12	Al6
ATOM	37948	N1	872	164.513	80.056	-34.685	1.00	42.76	Al6s	ATOM	38002	C5'	GUA	875	165.822	80.999	-47.851	1.00	48.12	Al6
ATOM	37949	C6	872	165.733	80.155	-34.519	1.00	42.76	Al6s	ATOM	38003	C4'	GUA	875	167.295	81.161	-47.664	1.00	48.12	Al6
ATOM	37950	O6	872	163.684	78.936	-34.469	1.00	42.76	Al6s	ATOM	38004	O4'	GUA	875	167.555	81.410	-46.263	1.00	48.12	Al6
ATOM	37951	C5	872	164.000	77.656	-34.044	1.00	42.76	Al6s	ATOM	38005	N9	CYT	875	168.811	80.873	-44.899	1.00	44.10	Al6
ATOM	37952	N7	872	159.883	77.170	-35.815	1.00	52.76	Al6s	ATOM	38006	C4	GUA	875	169.596	79.338	-44.100	1.00	44.10	Al6
ATOM	37953	C8	872	158.547	77.604	-35.935	1.00	52.76	Al6s	ATOM	38007	N3	GUA	875	170.884	79.746	-44.058	1.00	44.10	Al6
ATOM	37954	O2'	872	160.011	75.654	-35.865	1.00	52.76	Al6s	ATOM	38008	C2	GUA	875	171.609	79.003	-43.252	1.00	44.10	Al6
ATOM	37955	C3'	872	159.155	75.071	-36.837	1.00	52.76	Al6s	ATOM	38009	N2	GUA	875	172.908	79.278	-43.079	1.00	44.10	Al6
ATOM	37956	O3'	872	159.752	74.685	-38.280	1.00	45.65	Al6s	ATOM	38010	N1	GUA	875	171.116	77.937	-42.556	1.00	44.10	Al6
ATOM	37957	P	873	158.742	73.820	-38.946	1.00	40.94	Al6s	ATOM	38011	C6	GUA	875	169.797	77.498	-42.588	1.00	44.10	Al6
ATOM	37958	O1P	873	161.137	74.172	-38.077	1.00	40.94	Al6s	ATOM	38012	C6	GUA	875	169.466	76.499	-41.943	1.00	44.10	Al6
ATOM	37959	O2P	873	159.084	76.084	-39.034	1.00	45.65	Al6s	ATOM	38013	C6	GUA	875	167.647	78.231	-43.732	1.00	44.10	Al6
ATOM	37960	C5'	873	158.635	76.885	-39.212	1.00	45.65	Al6s	ATOM	38014	C5	GUA	875	167.459	79.189	-44.600	1.00	44.10	Al6
ATOM	37961	C4'	873	159.659	78.254	-39.712	1.00	45.65	Al6s	ATOM	38015	C8	GUA	875	169.390	80.196	-47.159	1.00	48.12	Al6
ATOM	37962	O4'	873	160.619	79.042	-38.657	1.00	45.65	Al6s	ATOM	38016	C2'	GUA	875	170.297	81.068	-47.791	1.00	48.12	Al6
ATOM	37963	C1'	873	161.958	79.583	-38.699	1.00	40.94	Al6s	ATOM	38017	O2'	GUA	875	168.137	79.939	-47.981	1.00	48.12	Al6
ATOM	37964	NI	873							ATOM	38018	C3'	GUA	875						Al6
ATOM	37965	CYT								ATOM	38019									Al6
ATOM	37966	CYT								ATOM										Al6

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ATOM	38020	03' GUA	875	168.397	79.786	-49.375	1.00	48.12	Al6s	ATOM	38073	N3	ADE	878	175.847	84.882	-45.051	1.00	33.32	Al6
ATOM	38021	P' CYT	876	168.359	78.313	-50.029	1.00	52.48	Al6s	ATOM	38074	C2	ADE	878	174.798	85.545	-45.556	1.00	33.32	Al6
ATOM	38022	01P CYT	876	167.150	77.598	-49.524	1.00	46.52	Al6s	ATOM	38075	N1	ADE	878	173.497	85.205	-45.556	1.00	33.32	Al6
ATOM	38023	02P CYT	876	168.555	78.488	-51.488	1.00	46.52	Al6s	ATOM	38076	C6	ADE	878	173.139	84.039	-44.979	1.00	33.32	Al6
ATOM	38024	05' CYT	876	169.635	77.581	-49.410	1.00	52.48	Al6s	ATOM	38077	N6	ADE	878	171.853	83.711	-44.938	1.00	33.32	Al6
ATOM	38025	C5' CYT	876	169.901	76.187	-49.655	1.00	52.48	Al6s	ATOM	38078	C5	ADE	878	174.146	83.241	-44.439	1.00	33.32	Al6
ATOM	38026	C4' CYT	876	171.387	75.962	-49.772	1.00	52.48	Al6s	ATOM	38079	N7	ADE	878	174.107	82.008	-43.817	1.00	33.32	Al6
ATOM	38027	04' CYT	876	171.881	76.698	-50.915	1.00	52.48	Al6s	ATOM	38080	C8	ADE	878	175.360	81.773	-43.515	1.00	33.32	Al6
ATOM	38028	C1' CYT	876	173.150	77.253	-50.620	1.00	52.48	Al6s	ATOM	38081	C2' ADE	878	178.008	83.411	-42.268	1.00	44.57	Al6	
ATOM	38029	N4' CYT	876	173.094	78.709	-50.835	1.00	46.52	Al6s	ATOM	38082	02' ADE	878	179.239	84.099	-42.347	1.00	44.57	Al6	
ATOM	38030	C6' CYT	876	171.906	79.381	-50.844	1.00	46.52	Al6s	ATOM	38083	C3' ADE	878	178.158	82.141	-41.447	1.00	44.57	Al6	
ATOM	38031	C2' CYT	876	174.283	79.393	-51.030	1.00	46.52	Al6s	ATOM	38084	03' ADE	878	179.047	82.347	-40.375	1.00	44.57	Al6	
ATOM	38032	02' CYT	876	175.353	78.760	-50.995	1.00	46.52	Al6s	ATOM	38085	P' GUA	879	178.538	82.168	-38.871	1.00	42.97	Al6	
ATOM	38033	N3' CYT	876	174.253	80.728	-51.242	1.00	46.52	Al6s	ATOM	38086	01P GUA	879	179.236	83.212	-38.083	1.00	41.76	Al6	
ATOM	38034	C4' CYT	876	173.094	81.375	-51.245	1.00	46.52	Al6s	ATOM	38087	02P GUA	879	178.665	80.742	-38.489	1.00	41.76	Al6	
ATOM	38035	N4' CYT	876	173.119	82.696	-51.449	1.00	46.52	Al6s	ATOM	38088	05' GUA	879	176.986	82.505	-38.926	1.00	42.97	Al6	
ATOM	38036	C5' CYT	876	171.861	80.702	-51.040	1.00	46.52	Al6s	ATOM	38089	C5' GUA	879	176.441	83.705	-38.336	1.00	42.97	Al6	
ATOM	38037	C2' CYT	876	173.532	76.858	-49.191	1.00	52.48	Al6s	ATOM	38090	C4' GUA	879	175.601	84.432	-39.357	1.00	42.97	Al6	
ATOM	38038	02' CYT	876	174.490	75.814	-49.189	1.00	52.48	Al6s	ATOM	38091	04' GUA	879	175.316	83.528	-40.450	1.00	42.97	Al6	
ATOM	38039	C3' CYT	876	172.119	76.492	-48.594	1.00	52.48	Al6s	ATOM	38092	C1' GUA	879	173.993	83.712	-40.892	1.00	42.97	Al6	
ATOM	38040	03' CYT	876	172.294	75.502	-47.599	1.00	52.48	Al6s	ATOM	38093	N9	GUA	879	173.246	82.516	-40.532	1.00	41.76	Al6
ATOM	38041	P' ADE	877	172.207	75.925	-46.064	1.00	44.32	Al6s	ATOM	38094	C4	GUA	879	171.943	82.252	-40.860	1.00	41.76	Al6
ATOM	38042	01P ADE	877	172.286	74.697	-45.223	1.00	38.84	Al6s	ATOM	38095	N3	GUA	879	171.139	83.048	-41.588	1.00	41.76	Al6
ATOM	38043	02P ADE	877	171.018	76.806	-45.960	1.00	38.84	Al6s	ATOM	38096	C2	GUA	879	169.938	82.530	-41.729	1.00	41.76	Al6
ATOM	38044	05' ADE	877	173.545	76.752	-45.833	1.00	44.32	Al6s	ATOM	38097	N2	GUA	879	169.008	83.193	-42.433	1.00	41.76	Al6
ATOM	38045	C5' ADE	877	174.803	76.063	-45.754	1.00	44.32	Al6s	ATOM	38098	N1	GUA	879	169.560	81.327	-41.193	1.00	41.76	Al6
ATOM	38046	C4' ADE	877	175.944	77.033	-45.874	1.00	44.32	Al6s	ATOM	38099	C6	GUA	879	170.376	80.500	-40.437	1.00	41.76	Al6
ATOM	38047	04' ADE	877	175.744	77.822	-47.071	1.00	44.32	Al6s	ATOM	38100	06	GUA	879	169.937	79.447	-39.998	1.00	41.76	Al6
ATOM	38048	C1' ADE	877	176.163	79.148	-46.843	1.00	44.32	Al6s	ATOM	38101	C5	GUA	879	171.659	81.037	-40.281	1.00	41.76	Al6
ATOM	38049	N9	877	175.030	80.034	-47.109	1.00	38.84	Al6s	ATOM	38102	N7	GUA	879	172.764	80.541	-39.607	1.00	41.76	Al6
ATOM	38050	C4	877	175.111	81.348	-47.501	1.00	38.84	Al6s	ATOM	38103	C8	GUA	879	173.684	81.448	-39.788	1.00	41.76	Al6
ATOM	38051	N3	877	176.226	82.081	-47.677	1.00	38.84	Al6s	ATOM	38104	C2' GUA	879	173.445	84.945	-40.181	1.00	42.97	Al6	
ATOM	38052	C2	877	175.919	83.304	-48.088	1.00	38.84	Al6s	ATOM	38105	02' GUA	879	173.726	86.073	-40.979	1.00	42.97	Al6	
ATOM	38053	N1	877	174.721	83.835	-48.333	1.00	38.84	Al6s	ATOM	38106	C3' GUA	879	174.242	84.917	-38.885	1.00	42.97	Al6	
ATOM	38054	C6	877	173.625	83.068	-48.157	1.00	38.84	Al6s	ATOM	38107	03' GUA	879	174.312	86.184	-38.254	1.00	42.97	Al6	
ATOM	38055	N6	877	172.435	83.589	-48.428	1.00	38.84	Al6s	ATOM	38108	P' GUA	880	173.289	86.533	-37.065	1.00	40.90	Al6	
ATOM	38056	C5	877	173.809	81.760	-47.708	1.00	38.84	Al6s	ATOM	38109	01P GUA	880	173.795	87.794	-36.453	1.00	42.73	Al6	
ATOM	38057	N7	877	172.918	80.738	-47.420	1.00	38.84	Al6s	ATOM	38110	02P GUA	880	173.074	85.331	-36.205	1.00	42.73	Al6	
ATOM	38058	C8	877	173.686	79.740	-47.064	1.00	38.84	Al6s	ATOM	38111	05' GUA	880	171.922	86.835	-37.816	1.00	40.90	Al6	
ATOM	38059	C2' ADE	877	176.740	79.213	-45.431	1.00	44.32	Al6s	ATOM	38112	C5' GUA	880	171.844	87.886	-38.774	1.00	40.90	Al6	
ATOM	38060	02' ADE	877	178.117	78.957	-45.541	1.00	44.32	Al6s	ATOM	38113	C4' GUA	880	170.490	87.889	-39.444	1.00	40.90	Al6	
ATOM	38061	C3' ADE	877	176.053	78.043	-44.753	1.00	44.32	Al6s	ATOM	38114	04' GUA	880	170.270	86.629	-40.125	1.00	40.90	Al6	
ATOM	38062	03' ADE	877	176.852	77.509	-43.713	1.00	44.32	Al6s	ATOM	38115	C1' GUA	880	168.899	86.298	-40.077	1.00	40.90	Al6	
ATOM	38063	P' ADE	878	176.584	77.962	-42.192	1.00	44.57	Al6s	ATOM	38116	N9	GUA	880	168.775	85.020	-39.393	1.00	42.73	Al6
ATOM	38064	01P ADE	878	177.472	77.159	-41.304	1.00	33.32	Al6s	ATOM	38117	C4	GUA	880	167.645	84.250	-39.306	1.00	42.73	Al6
ATOM	38065	02P ADE	878	175.107	77.979	-41.949	1.00	33.32	Al6s	ATOM	38118	N3	GUA	880	166.434	84.559	-39.813	1.00	42.73	Al6
ATOM	38066	05' ADE	878	177.125	79.456	-42.122	1.00	44.57	Al6s	ATOM	38119	C2	GUA	880	165.549	83.606	-39.583	1.00	42.73	Al6
ATOM	38067	C5' ADE	878	178.531	79.724	-42.160	1.00	44.57	Al6s	ATOM	38120	N2	GUA	880	164.291	83.747	-40.014	1.00	42.73	Al6
ATOM	38068	C4' ADE	878	178.776	81.184	-42.440	1.00	44.57	Al6s	ATOM	38121	N1	GUA	880	165.832	82.443	-38.916	1.00	42.73	Al6
ATOM	38069	04' ADE	878	178.190	81.543	-43.715	1.00	44.57	Al6s	ATOM	38122	C6	GUA	880	167.071	82.106	-38.392	1.00	42.73	Al6
ATOM	38070	C1' ADE	878	177.665	82.853	-43.649	1.00	44.57	Al6s	ATOM	38123	06	GUA	880	167.223	81.025	-37.821	1.00	42.73	Al6
ATOM	38071	N9	878	176.221	82.778	-43.886	1.00	33.32	Al6s	ATOM	38124	C5	GUA	880	168.026	83.121	-38.621	1.00	42.73	Al6
ATOM	38072	C4	878	175.444	83.722	-44.504	1.00	33.32	Al6s	ATOM	38125	N7	GUA	880	169.361	83.191	-38.262	1.00	42.73	Al6

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ATOM	38126	C8	GUA	880	169.762	84.337	-38.736	1.00	42.73	Al6s	ATOM	38179	N9	GUA	883	164.800	85.934	-28.609	1.00	41.91	Al6s
ATOM	38127	C2	GUA	880	168.171	87.436	-39.369	1.00	40.90	Al6s	ATOM	38180	C4	GUA	883	166.138	85.777	-28.851	1.00	41.91	Al6s
ATOM	38128	O2	GUA	880	167.681	88.353	-40.330	1.00	40.90	Al6s	ATOM	38181	N3	GUA	883	166.914	84.770	-28.406	1.00	41.91	Al6s
ATOM	38129	C3	GUA	880	169.291	88.032	-38.533	1.00	40.90	Al6s	ATOM	38182	C2	GUA	883	166.168	84.900	-28.806	1.00	41.91	Al6s
ATOM	38130	O3	GUA	880	169.043	89.379	-38.212	1.00	40.90	Al6s	ATOM	38183	N2	GUA	883	169.073	83.983	-28.466	1.00	41.91	Al6s
ATOM	38131	P	CYT	881	168.424	89.723	-36.784	1.00	45.86	Al6s	ATOM	38184	N1	GUA	883	166.625	85.937	-29.572	1.00	41.91	Al6s
ATOM	38132	O1P	CYT	881	168.360	91.219	-36.684	1.00	40.38	Al6s	ATOM	38185	C6	GUA	883	167.845	86.985	-30.035	1.00	41.91	Al6s
ATOM	38133	O2P	CYT	881	169.186	88.953	-35.777	1.00	40.40.38	Al6s	ATOM	38186	O6	GUA	883	166.356	87.875	-30.708	1.00	41.91	Al6s
ATOM	38134	O5	CYT	881	166.938	89.164	-36.857	1.00	45.86	Al6s	ATOM	38187	C5	GUA	883	166.496	86.856	-29.627	1.00	41.91	Al6s
ATOM	38135	C5	CYT	881	165.963	89.793	-37.701	1.00	45.86	Al6s	ATOM	38188	N7	GUA	883	165.397	87.663	-29.887	1.00	41.91	Al6s
ATOM	38136	C4	CYT	881	164.644	89.079	-37.601	1.00	45.86	Al6s	ATOM	38189	C8	GUA	883	164.413	87.071	-29.271	1.00	41.91	Al6s
ATOM	38137	O4	CYT	881	164.794	87.727	-38.085	1.00	45.86	Al6s	ATOM	38190	C2	GUA	883	163.995	85.616	-26.351	1.00	43.37	Al6s
ATOM	38138	C1	CYT	881	163.979	86.857	-37.334	1.00	45.86	Al6s	ATOM	38191	O2	GUA	883	163.708	84.562	-25.460	1.00	43.37	Al6s
ATOM	38139	N1	CYT	881	164.841	85.854	-36.687	1.00	40.38	Al6s	ATOM	38192	C3	GUA	883	162.883	86.650	-26.400	1.00	43.37	Al6s
ATOM	38140	C6	CYT	881	166.182	86.068	-36.526	1.00	40.38	Al6s	ATOM	38193	O3	GUA	883	162.406	86.980	-25.114	1.00	43.37	Al6s
ATOM	38141	C2	CYT	881	164.261	84.664	-36.243	1.00	40.38	Al6s	ATOM	38194	P	ADE	884	163.180	88.090	-24.250	1.00	44.04	Al6s
ATOM	38142	O2	CYT	881	163.039	84.510	-36.378	1.00	40.38	Al6s	ATOM	38195	O1P	ADE	884	162.261	88.390	-23.133	1.00	34.00	Al6s
ATOM	38143	N3	CYT	881	165.040	83.715	-35.678	1.00	40.38	Al6s	ATOM	38196	O2P	ADE	884	163.635	89.191	-25.153	1.00	34.00	Al6s
ATOM	38144	N4	CYT	881	167.079	82.943	-35.027	1.00	40.38	Al6s	ATOM	38197	O5	ADE	884	164.449	87.298	-23.703	1.00	44.04	Al6s
ATOM	38145	N4	CYT	881	166.964	85.136	-35.968	1.00	40.38	Al6s	ATOM	38198	C5	ADE	884	163.903	85.655	-21.985	1.00	44.04	Al6s
ATOM	38146	C5	CYT	881	163.200	87.701	-36.331	1.00	45.86	Al6s	ATOM	38199	C4	ADE	884	164.243	84.630	-22.954	1.00	44.04	Al6s
ATOM	38147	C2	CYT	881	161.941	88.019	-36.877	1.00	45.86	Al6s	ATOM	38200	C1	ADE	884	164.435	83.383	-22.300	1.00	44.04	Al6s
ATOM	38148	O2	CYT	881	164.095	88.920	-36.201	1.00	45.86	Al6s	ATOM	38201	O1	ADE	884	165.857	83.056	-22.379	1.00	34.00	Al6s
ATOM	38149	C3	CYT	881	163.367	90.063	-35.799	1.00	45.86	Al6s	ATOM	38203	C4	ADE	884	166.478	81.971	-21.811	1.00	34.00	Al6s
ATOM	38150	O3	CYT	882	163.420	90.526	-34.264	1.00	33.44	Al6s	ATOM	38204	N3	ADE	884	165.909	80.999	-21.080	1.00	34.00	Al6s
ATOM	38151	P	URI	882	162.536	91.721	-34.141	1.00	47.61	Al6s	ATOM	38205	C2	ADE	884	166.824	80.116	-20.699	1.00	34.00	Al6s
ATOM	38152	O2P	URI	882	162.855	90.625	-33.872	1.00	47.61	Al6s	ATOM	38206	N1	ADE	884	166.137	80.094	-20.954	1.00	34.00	Al6s
ATOM	38153	O5	URI	882	162.736	89.313	-33.490	1.00	33.44	Al6s	ATOM	38207	C6	ADE	884	166.669	81.083	-21.696	1.00	34.00	Al6s
ATOM	38154	O5	URI	882	161.344	89.063	-33.658	1.00	33.44	Al6s	ATOM	38208	N6	ADE	884	169.971	81.053	-21.960	1.00	34.00	Al6s
ATOM	38155	C5	URI	882	160.975	87.726	-33.090	1.00	33.44	Al6s	ATOM	38209	C5	ADE	884	167.815	82.083	-22.149	1.00	34.00	Al6s
ATOM	38156	C4	URI	882	161.747	86.680	-33.725	1.00	33.44	Al6s	ATOM	38210	N7	ADE	884	168.038	83.221	-22.907	1.00	34.00	Al6s
ATOM	38157	O4	URI	882	161.844	85.565	-32.850	1.00	33.44	Al6s	ATOM	38211	C8	ADE	884	166.851	83.762	-23.018	1.00	34.00	Al6s
ATOM	38158	C1	URI	882	163.261	85.185	-32.705	1.00	47.61	Al6s	ATOM	38212	C2	ADE	884	164.031	83.574	-20.845	1.00	44.04	Al6s
ATOM	38159	N1	URI	882	164.261	86.120	-32.784	1.00	47.61	Al6s	ATOM	38213	C3	ADE	884	162.671	83.246	-20.701	1.00	44.04	Al6s
ATOM	38160	C6	URI	882	163.562	83.853	-32.453	1.00	47.61	Al6s	ATOM	38214	O2	ADE	884	163.311	85.056	-20.653	1.00	44.04	Al6s
ATOM	38161	O2	URI	882	162.724	82.977	-32.433	1.00	47.61	Al6s	ATOM	38215	O3	ADE	884	164.295	85.751	-18.163	1.00	58.69	Al6s
ATOM	38162	N3	URI	882	164.889	83.588	-32.236	1.00	47.61	Al6s	ATOM	38216	P	ADE	885	163.258	86.213	-17.212	1.00	54.98	Al6s
ATOM	38163	N3	URI	882	165.929	84.486	-32.267	1.00	47.61	Al6s	ATOM	38217	O1P	ADE	885	165.540	86.544	-18.342	1.00	54.98	Al6s
ATOM	38164	C4	URI	882	165.059	84.120	-31.951	1.00	47.61	Al6s	ATOM	38218	O2P	ADE	885	164.684	84.259	-17.782	1.00	58.69	Al6s
ATOM	38165	O4	URI	882	165.549	85.821	-32.584	1.00	47.61	Al6s	ATOM	38219	O5	ADE	885	163.689	83.340	-17.326	1.00	58.69	Al6s
ATOM	38166	C5	URI	882	161.213	85.985	-31.519	1.00	33.44	Al6s	ATOM	38220	C5	ADE	885	164.354	82.098	-16.804	1.00	58.69	Al6s
ATOM	38167	C2	URI	882	159.889	85.494	-31.435	1.00	33.44	Al6s	ATOM	38221	C4	ADE	885	165.082	81.480	-17.891	1.00	58.69	Al6s
ATOM	38168	O2	URI	882	161.248	87.503	-31.623	1.00	33.44	Al6s	ATOM	38222	O1	ADE	885	166.309	80.962	-17.419	1.00	58.69	Al6s
ATOM	38169	C3	URI	882	160.272	88.114	-30.813	1.00	33.44	Al6s	ATOM	38223	C1	ADE	885	167.379	81.730	-18.047	1.00	54.98	Al6s
ATOM	38170	O3	URI	882	159.490	89.336	-28.813	1.00	41.91	Al6s	ATOM	38224	N9	ADE	885	168.707	81.387	-18.114	1.00	54.98	Al6s
ATOM	38171	P	GUA	883	161.645	90.061	-28.606	1.00	41.91	Al6s	ATOM	38225	C4	ADE	885	169.288	80.292	-17.633	1.00	54.98	Al6s
ATOM	38172	O1P	GUA	883	160.872	86.856	-28.004	1.00	43.37	Al6s	ATOM	38226	N3	ADE	885	170.600	80.227	-17.877	1.00	54.98	Al6s
ATOM	38173	O2P	GUA	883	161.847	85.964	-27.277	1.00	43.37	Al6s	ATOM	38227	C2	ADE	885	171.338	81.221	-18.437	1.00	54.98	Al6s
ATOM	38174	O5	GUA	883	162.629	85.225	-28.246	1.00	43.37	Al6s	ATOM	38228	N1	ADE	885	170.720	82.326	-18.962	1.00	54.98	Al6s
ATOM	38175	C5	GUA	883	163.960	85.087	-27.779	1.00	43.37	Al6s	ATOM	38229	C6	ADE	885	171.453	83.258	-19.571	1.00	54.98	Al6s
ATOM	38176	C4	GUA	883							ATOM	38230	N6	ADE	885						
ATOM	38177	O4	GUA	883							ATOM	38231	C5	ADE	885						
ATOM	38178	C1	GUA	883							ATOM										

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ATOM	38232	N7	ADE	885	168.415	83.408	-19.125	1.00	54.98	Al6s	ATOM	38285	C4'	URI	888	175.874	86.369	-8.255	1.00	44.31	Al6s
ATOM	38233	C8'	ADE	885	167.275	82.946	-18.676	1.00	54.98	Al6s	ATOM	38286	O4'	URI	888	175.183	86.392	-9.526	1.00	44.31	Al6s
ATOM	38234	C2'	ADE	885	166.315	81.132	-15.903	1.00	58.69	Al6s	ATOM	38287	C1'	URI	888	174.926	87.727	-9.897	1.00	44.31	Al6s
ATOM	38235	O2'	ADE	885	165.758	79.980	-15.309	1.00	58.69	Al6s	ATOM	38288	N1	URI	888	173.484	87.885	-10.105	1.00	61.55	Al6s
ATOM	38236	C3'	ADE	885	165.405	82.334	-15.736	1.00	58.69	Al6s	ATOM	38289	C6	URI	888	172.573	87.021	-9.546	1.00	61.55	Al6s
ATOM	38237	O3'	ADE	885	164.838	82.386	-14.446	1.00	58.69	Al6s	ATOM	38290	C2	URI	888	173.077	88.947	-10.896	1.00	61.55	Al6s
ATOM	38238	P	ADE	886	165.632	83.128	-13.265	1.00	55.69	Al6s	ATOM	38291	O2	URI	888	173.860	89.730	-11.389	1.00	61.55	Al6s
ATOM	38239	O1P	ADE	886	164.687	83.218	-12.123	1.00	50.72	Al6s	ATOM	38292	N3	URI	888	171.721	89.062	-11.043	1.00	61.55	Al6s
ATOM	38240	O2P	ADE	886	166.276	84.378	-13.796	1.00	50.72	Al6s	ATOM	38293	C4	URI	888	170.756	88.238	-10.513	1.00	61.55	Al6s
ATOM	38241	O3'	ADE	886	166.765	82.083	-12.864	1.00	55.69	Al6s	ATOM	38294	O4	URI	888	169.576	88.458	-10.771	1.00	61.55	Al6s
ATOM	38242	C3'	ADE	886	166.422	80.767	-12.403	1.00	55.69	Al6s	ATOM	38295	C5	URI	888	171.258	87.158	-9.716	1.00	61.55	Al6s
ATOM	38243	C4'	ADE	886	167.659	79.916	-12.310	1.00	55.69	Al6s	ATOM	38296	C2'	URI	888	175.470	88.636	-8.797	1.00	44.31	Al6s
ATOM	38244	O4'	ADE	886	168.250	79.787	-13.628	1.00	55.69	Al6s	ATOM	38297	O2'	URI	888	176.745	89.077	-9.186	1.00	44.31	Al6s
ATOM	38245	C1'	ADE	886	169.657	79.808	-13.523	1.00	55.69	Al6s	ATOM	38298	C3'	URI	888	175.523	87.689	-7.607	1.00	44.31	Al6s
ATOM	38246	N9	ADE	886	170.136	80.986	-14.235	1.00	50.72	Al6s	ATOM	38299	O3'	URI	888	176.525	88.055	-6.687	1.00	44.31	Al6s
ATOM	38247	C4	ADE	886	171.409	81.179	-14.711	1.00	50.72	Al6s	ATOM	38300	P	CYT	889	176.203	89.140	-5.550	1.00	56.20	Al6s
ATOM	38248	N3	ADE	886	172.440	80.320	-14.653	1.00	50.72	Al6s	ATOM	38301	O1P	CYT	889	177.383	89.141	-4.640	1.00	35.03	Al6s
ATOM	38249	C2	ADE	886	173.677	82.044	-15.794	1.00	50.72	Al6s	ATOM	38302	O2P	CYT	889	174.840	88.904	-5.001	1.00	56.20	Al6s
ATOM	38250	N1	ADE	886	172.624	82.889	-15.826	1.00	50.72	Al6s	ATOM	38303	O5'	CYT	889	176.190	90.525	-6.328	1.00	56.20	Al6s
ATOM	38251	C6	ADE	886	172.788	84.094	-16.376	1.00	50.72	Al6s	ATOM	38304	C5'	CYT	889	177.404	91.060	-6.845	1.00	56.20	Al6s
ATOM	38252	N6	ADE	886	171.413	82.446	-15.268	1.00	50.72	Al6s	ATOM	38305	C4'	CYT	889	177.137	92.350	-7.560	1.00	56.20	Al6s
ATOM	38253	C5	ADE	886	170.158	83.035	-15.163	1.00	50.72	Al6s	ATOM	38306	O4'	CYT	889	176.301	92.108	-8.703	1.00	56.20	Al6s
ATOM	38254	N7	ADE	886	169.439	82.129	-14.547	1.00	50.72	Al6s	ATOM	38307	C1'	CYT	889	175.468	93.226	-8.919	1.00	56.20	Al6s
ATOM	38255	C8	ADE	886	170.020	79.877	-12.037	1.00	55.69	Al6s	ATOM	38308	N1	CYT	889	174.071	92.782	-8.876	1.00	35.03	Al6s
ATOM	38256	C2'	ADE	886	170.271	78.581	-11.541	1.00	55.69	Al6s	ATOM	38309	C6	CYT	889	173.692	91.677	-8.163	1.00	35.03	Al6s
ATOM	38257	O2'	ADE	886	168.762	80.491	-11.436	1.00	55.69	Al6s	ATOM	38310	C2	CYT	889	173.140	93.504	-9.605	1.00	35.03	Al6s
ATOM	38258	C3'	ADE	886	168.584	80.094	-10.081	1.00	55.69	Al6s	ATOM	38311	N3	CYT	889	173.515	94.538	-10.192	1.00	35.03	Al6s
ATOM	38259	O3'	ADE	886	168.716	81.178	-8.902	1.00	46.58	Al6s	ATOM	38312	C4	CYT	889	171.505	91.980	-8.981	1.00	35.03	Al6s
ATOM	38260	P	CYT	887	168.542	80.383	-7.662	1.00	52.01	Al6s	ATOM	38313	C4	CYT	889	170.238	91.579	-9.075	1.00	35.03	Al6s
ATOM	38261	O1P	CYT	887	167.815	82.323	-9.179	1.00	52.01	Al6s	ATOM	38314	N4	CYT	889	172.432	91.244	-8.189	1.00	35.03	Al6s
ATOM	38262	O2P	CYT	887	170.212	81.711	-9.003	1.00	46.58	Al6s	ATOM	38315	C5	CYT	889	175.801	94.269	-7.864	1.00	56.20	Al6s
ATOM	38263	O5'	CYT	887	171.317	80.803	-8.937	1.00	46.58	Al6s	ATOM	38316	C2'	CYT	889	176.769	95.134	-8.411	1.00	56.20	Al6s
ATOM	38264	C5'	CYT	887	172.548	81.427	-9.545	1.00	46.58	Al6s	ATOM	38317	O2'	CYT	889	176.399	93.408	-6.773	1.00	56.20	Al6s
ATOM	38265	C4'	CYT	887	172.340	81.655	-10.965	1.00	46.58	Al6s	ATOM	38318	C3'	CYT	889	177.330	94.154	-6.051	1.00	56.20	Al6s
ATOM	38266	O4'	CYT	887	173.065	82.806	-11.374	1.00	46.58	Al6s	ATOM	38319	O3'	CYT	889	177.024	94.557	-4.536	1.00	65.95	Al6s
ATOM	38267	C1'	CYT	887	172.110	83.787	-11.906	1.00	52.01	Al6s	ATOM	38320	P	ADE	890	178.170	93.974	-3.789	1.00	31.07	Al6s
ATOM	38268	N1	CYT	887	170.765	83.616	-11.735	1.00	52.01	Al6s	ATOM	38321	O1P	ADE	890	175.612	94.187	-4.131	1.00	31.07	Al6s
ATOM	38269	C6	CYT	887	172.602	84.927	-12.574	1.00	52.01	Al6s	ATOM	38322	O2P	ADE	890	177.221	96.137	-4.599	1.00	65.95	Al6s
ATOM	38270	C2	CYT	887	173.828	85.050	-12.744	1.00	52.01	Al6s	ATOM	38323	O5'	ADE	890	176.305	97.030	-3.957	1.00	65.95	Al6s
ATOM	38271	O2	CYT	887	171.728	85.862	-13.021	1.00	52.01	Al6s	ATOM	38324	C5'	ADE	890	175.691	97.975	-4.965	1.00	65.95	Al6s
ATOM	38272	N3	CYT	887	170.416	85.692	-12.824	1.00	52.01	Al6s	ATOM	38325	C4'	ADE	890	174.968	97.206	-5.943	1.00	65.95	Al6s
ATOM	38273	C4	CYT	887	169.892	84.533	-12.169	1.00	52.01	Al6s	ATOM	38326	O4'	ADE	890	173.781	97.875	-6.288	1.00	65.95	Al6s
ATOM	38274	N4	CYT	887	169.592	86.646	-13.254	1.00	52.01	Al6s	ATOM	38327	C1'	ADE	890	172.689	96.827	-6.408	1.00	31.07	Al6s
ATOM	38275	C5	CYT	887	173.799	83.352	-10.145	1.00	46.58	Al6s	ATOM	38328	N9	ADE	890	171.558	97.027	-7.191	1.00	31.07	Al6s
ATOM	38276	C2'	CYT	887	175.132	82.882	-10.113	1.00	46.58	Al6s	ATOM	38329	C4	ADE	890	171.201	98.074	-7.958	1.00	31.07	Al6s
ATOM	38277	O2'	CYT	887	172.957	82.788	-9.011	1.00	46.58	Al6s	ATOM	38330	N3	ADE	890	170.053	97.825	-8.585	1.00	31.07	Al6s
ATOM	38278	C3'	CYT	887	173.689	82.697	-7.809	1.00	46.58	Al6s	ATOM	38331	C2	ADE	890	169.281	96.736	-8.543	1.00	31.07	Al6s
ATOM	38279	O3'	CYT	888	173.429	83.777	-6.650	1.00	44.31	Al6s	ATOM	38332	N1	ADE	890	169.662	94.709	-7.764	1.00	31.07	Al6s
ATOM	38280	P	URI	888	174.194	83.311	-5.450	1.00	61.55	Al6s	ATOM	38333	C6	ADE	890	168.888	94.632	-7.718	1.00	31.07	Al6s
ATOM	38281	O1P	URI	888	171.965	84.026	-6.528	1.00	61.55	Al6s	ATOM	38334	N6	ADE	890	170.859	95.841	-7.044	1.00	31.07	Al6s
ATOM	38282	O2P	URI	888	174.100	85.098	-7.233	1.00	44.31	Al6s	ATOM	38335	C5	ADE	890	171.523	94.985	-6.178	1.00	31.07	Al6s
ATOM	38283	O5'	URI	888	175.501	85.128	-7.491	1.00	44.31	Al6s	ATOM	38336	N7	ADE	890	172.590	95.661	-5.820	1.00	31.07	Al6s
ATOM	38284	C5'	URI	888						Al6s	ATOM	38337	C8	ADE	890						Al6s

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ATOM	38338	C2' ADE	890	173.607	99.106	-5.395	1.00	65.95	Al6s	ATOM	38391	C4' GUA	893	174.279	104.370	-18.024	1.00	41.64	Al6s
ATOM	38339	O2' ADE	890	173.792	100.255	-6.169	1.00	65.95	Al6s	ATOM	38392	O4' GUA	893	173.403	104.273	-16.869	1.00	41.64	Al6s
ATOM	38340	C3' ADE	890	174.675	98.903	-4.329	1.00	65.95	Al6s	ATOM	38393	C1' GUA	893	172.579	105.428	-16.816	1.00	41.64	Al6s
ATOM	38341	O3' ADE	890	175.359	100.050	-3.741	1.00	65.95	Al6s	ATOM	38394	N9 GUA	893	172.701	106.061	-15.499	1.00	43.24	Al6s
ATOM	38342	P ADE	891	175.615	101.441	-4.563	1.00	42.43	Al6s	ATOM	38395	C4 GUA	893	171.992	107.151	-15.054	1.00	43.24	Al6s
ATOM	38343	O1P ADE	891	176.601	102.166	-3.700	1.00	39.75	Al6s	ATOM	38396	N3 GUA	893	171.041	107.806	-15.739	1.00	43.24	Al6s
ATOM	38344	O2P ADE	891	174.344	102.131	-4.942	1.00	39.75	Al6s	ATOM	38397	C2 GUA	893	170.559	108.831	-15.063	1.00	43.24	Al6s
ATOM	38345	O5' ADE	891	176.343	101.038	-5.916	1.00	42.43	Al6s	ATOM	38398	N2 GUA	893	169.604	109.589	-15.602	1.00	43.24	Al6s
ATOM	38346	C5' ADE	891	176.069	101.731	-7.150	1.00	42.43	Al6s	ATOM	38399	N1 GUA	893	170.979	109.191	-13.815	1.00	43.24	Al6s
ATOM	38347	C4' ADE	891	175.953	100.717	-8.261	1.00	42.43	Al6s	ATOM	38400	C6 GUA	893	171.964	108.935	-13.089	1.00	43.24	Al6s
ATOM	38348	O1' ADE	891	174.677	100.036	-8.187	1.00	42.43	Al6s	ATOM	38401	O6 GUA	893	172.288	108.956	-11.973	1.00	43.24	Al6s
ATOM	38349	C1' ADE	891	174.250	99.660	-9.477	1.00	42.43	Al6s	ATOM	38402	C5 GUA	893	172.481	107.422	-13.798	1.00	43.24	Al6s
ATOM	38350	N9 ADE	891	172.968	100.315	-9.739	1.00	39.75	Al6s	ATOM	38403	N7 GUA	893	173.458	106.507	-13.441	1.00	43.24	Al6s
ATOM	38351	C4 ADE	891	172.145	100.125	-10.823	1.00	39.75	Al6s	ATOM	38404	C8 GUA	893	173.550	105.716	-14.475	1.00	43.24	Al6s
ATOM	38352	N3 ADE	891	172.336	99.298	-11.862	1.00	39.75	Al6s	ATOM	38405	C2' GUA	893	173.003	106.345	-14.475	1.00	41.64	Al6s
ATOM	38353	C2 ADE	891	171.333	99.388	-12.718	1.00	39.75	Al6s	ATOM	38406	O2' GUA	893	172.171	106.099	-19.087	1.00	41.64	Al6s
ATOM	38354	N1 ADE	891	170.244	100.150	-12.665	1.00	39.75	Al6s	ATOM	38407	C3' GUA	893	174.420	105.863	-18.262	1.00	41.64	Al6s
ATOM	38355	C6 ADE	891	170.085	100.972	-11.615	1.00	39.75	Al6s	ATOM	38408	O3' GUA	893	174.781	106.179	-19.604	1.00	41.64	Al6s
ATOM	38356	N6 ADE	891	169.001	101.735	-11.568	1.00	39.75	Al6s	ATOM	38409	P GUA	894	175.532	107.577	-19.925	1.00	35.89	Al6s
ATOM	38357	C5 ADE	891	171.073	100.973	-10.635	1.00	39.75	Al6s	ATOM	38410	O1P GUA	894	176.119	107.503	-21.303	1.00	35.98	Al6s
ATOM	38358	N7 ADE	891	171.209	101.679	-9.454	1.00	39.75	Al6s	ATOM	38411	O2P GUA	894	176.403	107.961	-18.774	1.00	35.98	Al6s
ATOM	38359	C8 ADE	891	172.344	101.251	-8.962	1.00	39.75	Al6s	ATOM	38412	O5' GUA	894	174.362	108.652	-19.998	1.00	35.89	Al6s
ATOM	38360	C2' ADE	891	175.367	100.056	-10.544	1.00	42.43	Al6s	ATOM	38413	C5' GUA	894	173.381	108.595	-21.037	1.00	35.89	Al6s
ATOM	38361	O2' ADE	891	176.247	98.946	-10.566	1.00	42.43	Al6s	ATOM	38414	C4' GUA	894	172.379	109.698	-20.853	1.00	35.89	Al6s
ATOM	38362	C3' ADE	891	176.040	101.195	-9.690	1.00	42.43	Al6s	ATOM	38415	O4' GUA	894	171.678	109.509	-19.603	1.00	35.89	Al6s
ATOM	38363	O3' ADE	891	177.402	101.275	-10.041	1.00	42.43	Al6s	ATOM	38416	C1' GUA	894	171.409	110.757	-19.014	1.00	35.89	Al6s
ATOM	38364	P ADE	892	177.853	102.198	-11.265	1.00	41.13	Al6s	ATOM	38417	N9 GUA	894	172.094	110.785	-17.732	1.00	35.98	Al6s
ATOM	38365	O1P ADE	892	179.257	101.786	-11.534	1.00	47.62	Al6s	ATOM	38418	C4 GUA	894	171.884	111.683	-16.724	1.00	35.98	Al6s
ATOM	38366	O2P ADE	892	177.552	103.638	-10.948	1.00	47.62	Al6s	ATOM	38419	N3 GUA	894	171.039	112.731	-16.765	1.00	35.98	Al6s
ATOM	38367	O5' ADE	892	176.937	101.708	-12.484	1.00	41.13	Al6s	ATOM	38420	C2 GUA	894	171.013	113.392	-15.630	1.00	35.98	Al6s
ATOM	38368	C5' ADE	892	177.183	100.437	-13.134	1.00	41.13	Al6s	ATOM	38421	N2 GUA	894	170.220	114.460	-15.511	1.00	35.98	Al6s
ATOM	38369	O4' ADE	892	176.267	100.242	-14.320	1.00	41.13	Al6s	ATOM	38422	C6 GUA	894	172.658	111.980	-14.531	1.00	35.98	Al6s
ATOM	38370	C4' ADE	892	174.911	99.963	-13.886	1.00	41.13	Al6s	ATOM	38423	C6 GUA	894	172.739	113.054	-14.531	1.00	35.98	Al6s
ATOM	38371	C1' ADE	892	173.991	100.451	-14.850	1.00	41.13	Al6s	ATOM	38424	O6 GUA	894	173.262	111.759	-13.415	1.00	35.98	Al6s
ATOM	38372	N9 ADE	892	173.148	101.489	-14.254	1.00	47.62	Al6s	ATOM	38425	C5 GUA	894	172.678	111.260	-15.686	1.00	35.98	Al6s
ATOM	38373	C4 ADE	892	171.943	101.407	-15.834	1.00	47.62	Al6s	ATOM	38426	N7 GUA	894	173.408	110.136	-16.052	1.00	35.98	Al6s
ATOM	38374	N3 ADE	892	170.116	102.063	-16.046	1.00	47.62	Al6s	ATOM	38427	C8 GUA	894	171.878	111.835	-19.983	1.00	35.89	Al6s
ATOM	38375	C2 ADE	892	169.654	103.084	-15.371	1.00	47.62	Al6s	ATOM	38428	C2' GUA	894	170.809	112.162	-20.844	1.00	35.89	Al6s
ATOM	38376	N1 ADE	892	170.327	103.564	-14.308	1.00	47.62	Al6s	ATOM	38429	O2' GUA	894	172.955	111.092	-20.744	1.00	35.89	Al6s
ATOM	38377	C6 ADE	892	169.818	104.602	-13.644	1.00	47.62	Al6s	ATOM	38430	C3' GUA	894	173.129	111.645	-22.018	1.00	35.89	Al6s
ATOM	38378	N6 ADE	892	171.534	102.946	-13.968	1.00	47.62	Al6s	ATOM	38431	O3' GUA	894	174.384	112.579	-22.290	1.00	29.12	Al6s
ATOM	38379	C5 ADE	892	172.446	103.173	-12.946	1.00	47.62	Al6s	ATOM	38432	P ADE	895	174.413	112.870	-23.747	1.00	37.06	Al6s
ATOM	38380	N7 ADE	892	173.378	102.279	-13.155	1.00	47.62	Al6s	ATOM	38433	O1P ADE	895	175.507	111.973	-21.615	1.00	37.06	Al6s
ATOM	38381	C8 ADE	892	174.805	101.099	-15.964	1.00	41.13	Al6s	ATOM	38434	O2P ADE	895	174.007	113.910	-21.523	1.00	29.12	Al6s
ATOM	38382	O2' ADE	892	174.968	100.216	-17.048	1.00	41.13	Al6s	ATOM	38435	O5' ADE	895	173.003	114.759	-22.038	1.00	29.12	Al6s
ATOM	38383	C2' ADE	892	176.098	101.425	-15.242	1.00	41.13	Al6s	ATOM	38436	C5' ADE	895	172.696	115.846	-21.053	1.00	29.12	Al6s
ATOM	38384	C3' ADE	892	177.153	101.633	-16.136	1.00	41.13	Al6s	ATOM	38437	C4' ADE	895	172.228	115.244	-19.820	1.00	29.12	Al6s
ATOM	38385	O3' ADE	893	177.656	103.130	-16.394	1.00	41.64	Al6s	ATOM	38438	O4' ADE	895	172.582	116.065	-18.735	1.00	29.12	Al6s
ATOM	38386	P GUA	893	178.553	103.061	-17.570	1.00	43.24	Al6s	ATOM	38439	C1' ADE	895	173.382	115.278	-17.807	1.00	37.06	Al6s
ATOM	38387	O1P GUA	893	178.154	103.673	-15.091	1.00	43.24	Al6s	ATOM	38440	N9 ADE	895	173.526	115.505	-16.459	1.00	37.06	Al6s
ATOM	38388	O2P GUA	893	176.340	103.951	-16.783	1.00	41.64	Al6s	ATOM	38441	C4 ADE	895	172.958	116.477	-15.725	1.00	37.06	Al6s
ATOM	38389	O5' GUA	893	175.512	103.506	-17.863	1.00	41.64	Al6s	ATOM	38442	N3 ADE	895	173.338	116.389	-14.452	1.00	37.06	Al6s
ATOM	38390	C5' GUA	893						Al6s	ATOM	38443	C2 ADE	895						Al6s

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ATOM	38444	N1 ADE	895	174.152	115.510	-13.873	1.00	37.06	Al6s	ATOM	38497	O1P URI	898	181.537	126.866	-14.274	1.00	39.47	Al6s
ATOM	38445	C6 ADE	895	174.698	114.542	-14.635	1.00	37.06	Al6s	ATOM	38498	O2P URI	898	181.811	124.484	-15.227	1.00	39.47	Al6s
ATOM	38446	N6 ADE	895	175.505	113.651	-14.057	1.00	37.06	Al6s	ATOM	38499	O5 URI	898	182.467	124.953	-12.879	1.00	36.58	Al6s
ATOM	38447	C5 ADE	895	174.381	114.526	-16.003	1.00	37.06	Al6s	ATOM	38500	C5 URI	898	182.412	125.616	-11.614	1.00	36.58	Al6s
ATOM	38448	N7 ADE	895	174.770	113.693	-17.041	1.00	37.06	Al6s	ATOM	38501	C4 URI	898	183.171	124.835	-10.577	1.00	36.58	Al6s
ATOM	38449	C8 ADE	895	174.146	114.179	-18.085	1.00	37.06	Al6s	ATOM	38502	O4 URI	898	182.606	123.507	-10.472	1.00	36.58	Al6s
ATOM	38450	C2 ADE	895	173.324	117.276	-19.299	1.00	29.12	Al6s	ATOM	38503	C1 URI	898	183.618	122.576	-10.111	1.00	36.58	Al6s
ATOM	38451	O2 ADE	895	172.365	118.295	-19.513	1.00	29.12	Al6s	ATOM	38504	N1 URI	898	183.678	121.520	-11.135	1.00	39.47	Al6s
ATOM	38452	C3 ADE	895	173.841	116.743	-20.629	1.00	29.12	Al6s	ATOM	38505	C6 URI	898	183.190	121.716	-12.406	1.00	39.47	Al6s
ATOM	38453	O2 ADE	895	174.051	117.796	-21.571	1.00	29.12	Al6s	ATOM	38506	C2 URI	898	184.242	120.303	-10.774	1.00	39.47	Al6s
ATOM	38454	P ADE	896	175.450	118.610	-21.573	1.00	40.56	Al6s	ATOM	38507	O2 URI	898	184.706	119.089	-9.668	1.00	39.47	Al6s
ATOM	38455	O1P ADE	896	175.406	119.611	-22.679	1.00	37.93	Al6s	ATOM	38508	N3 URI	898	184.249	119.350	-11.757	1.00	39.47	Al6s
ATOM	38456	O2P ADE	896	176.575	117.633	-21.494	1.00	40.56	Al6s	ATOM	38509	C4 URI	898	183.776	119.482	-13.034	1.00	39.47	Al6s
ATOM	38457	O5 ADE	896	175.490	119.380	-20.178	1.00	40.56	Al6s	ATOM	38510	O4 URI	898	183.926	118.553	-13.826	1.00	39.47	Al6s
ATOM	38458	C5 ADE	896	174.753	120.592	-19.958	1.00	40.56	Al6s	ATOM	38511	C5 URI	898	183.216	120.764	-13.338	1.00	39.47	Al6s
ATOM	38459	C4 ADE	896	174.756	120.928	-18.490	1.00	40.56	Al6s	ATOM	38512	C2 URI	898	184.931	123.343	-9.993	1.00	36.58	Al6s
ATOM	38460	O4 ADE	896	174.269	119.770	-17.772	1.00	40.56	Al6s	ATOM	38513	O2 URI	898	185.221	123.633	-8.634	1.00	36.58	Al6s
ATOM	38461	C1 ADE	896	174.966	119.633	-16.549	1.00	40.56	Al6s	ATOM	38514	C3 URI	898	184.636	124.569	-10.851	1.00	36.58	Al6s
ATOM	38462	N9 ADE	896	175.753	118.408	-16.613	1.00	37.93	Al6s	ATOM	38515	O3 URI	898	185.476	125.649	-10.519	1.00	49.95	Al6s
ATOM	38463	C4 ADE	896	176.311	117.757	-15.547	1.00	37.93	Al6s	ATOM	38516	P GUA	899	186.797	125.887	-11.388	1.00	49.95	Al6s
ATOM	38464	N3 ADE	896	176.224	118.096	-14.256	1.00	37.93	Al6s	ATOM	38517	O1P GUA	899	187.536	127.018	-10.767	1.00	35.18	Al6s
ATOM	38465	C2 ADE	896	176.887	117.234	-13.499	1.00	37.93	Al6s	ATOM	38518	O2P GUA	899	186.365	125.984	-12.801	1.00	35.18	Al6s
ATOM	38466	N1 ADE	896	177.570	116.156	-13.859	1.00	37.93	Al6s	ATOM	38519	O5 GUA	899	187.621	124.524	-11.236	1.00	49.95	Al6s
ATOM	38467	C6 ADE	896	177.636	115.840	-15.169	1.00	37.93	Al6s	ATOM	38520	C5 GUA	899	188.325	124.241	-10.025	1.00	49.95	Al6s
ATOM	38468	N6 ADE	896	178.308	114.745	-15.531	1.00	37.93	Al6s	ATOM	38521	C4 GUA	899	188.828	122.808	-9.984	1.00	49.95	Al6s
ATOM	38469	C5 ADE	896	176.982	116.680	-16.073	1.00	37.93	Al6s	ATOM	38522	O4 GUA	899	187.793	121.872	-10.363	1.00	49.95	Al6s
ATOM	38470	N7 ADE	896	176.851	116.648	-17.452	1.00	37.93	Al6s	ATOM	38523	C1 GUA	899	188.386	120.628	-10.683	1.00	49.95	Al6s
ATOM	38471	C8 ADE	896	176.108	117.688	-17.720	1.00	37.93	Al6s	ATOM	38524	N9 GUA	899	187.903	120.178	-11.985	1.00	35.18	Al6s
ATOM	38472	C2 ADE	896	175.890	120.835	-16.405	1.00	40.56	Al6s	ATOM	38525	C4 GUA	899	187.972	118.897	-12.462	1.00	35.18	Al6s
ATOM	38473	O2 ADE	896	175.211	121.837	-15.681	1.00	40.56	Al6s	ATOM	38526	N3 GUA	899	188.483	117.843	-11.806	1.00	35.18	Al6s
ATOM	38474	C3 ADE	896	176.113	121.216	-17.859	1.00	40.56	Al6s	ATOM	38527	C2 GUA	899	188.416	116.742	-12.515	1.00	35.18	Al6s
ATOM	38475	O3 ADE	896	176.478	122.583	-17.978	1.00	40.56	Al6s	ATOM	38528	N2 GUA	899	188.881	115.602	-12.002	1.00	35.18	Al6s
ATOM	38476	P URI	897	177.960	123.053	-17.571	1.00	31.69	Al6s	ATOM	38529	C6 GUA	899	187.885	116.675	-13.775	1.00	35.18	Al6s
ATOM	38477	O1P URI	897	178.023	124.522	-17.846	1.00	40.02	Al6s	ATOM	38530	C6 GUA	899	187.340	117.749	-14.469	1.00	35.18	Al6s
ATOM	38478	O2P URI	897	178.948	122.136	-18.189	1.00	40.02	Al6s	ATOM	38531	O6 GUA	899	186.857	117.577	-15.599	1.00	35.18	Al6s
ATOM	38479	O5 URI	897	178.057	122.790	-16.000	1.00	31.69	Al6s	ATOM	38532	C5 GUA	899	187.419	118.942	-13.718	1.00	35.18	Al6s
ATOM	38480	C5 URI	897	177.494	123.727	-15.074	1.00	31.69	Al6s	ATOM	38533	N7 GUA	899	187.009	120.229	-14.032	1.00	35.18	Al6s
ATOM	38481	C4 URI	897	178.101	123.550	-13.711	1.00	31.69	Al6s	ATOM	38534	C8 GUA	899	187.313	120.928	-12.972	1.00	35.18	Al6s
ATOM	38482	O4 URI	897	177.833	122.210	-13.237	1.00	31.69	Al6s	ATOM	38535	C2 GUA	899	189.895	120.841	-10.691	1.00	49.95	Al6s
ATOM	38483	C1 URI	897	178.908	121.758	-12.440	1.00	31.69	Al6s	ATOM	38536	O2 GUA	899	190.410	120.399	-9.451	1.00	49.95	Al6s
ATOM	38484	N1 URI	897	179.443	120.521	-13.034	1.00	40.02	Al6s	ATOM	38537	C3 GUA	899	189.998	122.354	-10.834	1.00	49.95	Al6s
ATOM	38485	C6 URI	897	179.264	120.233	-14.368	1.00	40.02	Al6s	ATOM	38538	O3 GUA	899	191.237	122.774	-10.299	1.00	49.95	Al6s
ATOM	38486	C2 URI	897	180.128	119.638	-12.207	1.00	40.02	Al6s	ATOM	38539	P ADE	900	192.515	122.912	-11.263	1.00	46.11	Al6s
ATOM	38487	O2 URI	897	180.359	119.855	-11.039	1.00	40.02	Al6s	ATOM	38540	O1P ADE	900	193.574	123.571	-12.534	1.00	30.67	Al6s
ATOM	38488	N3 URI	897	180.546	118.487	-12.809	1.00	40.02	Al6s	ATOM	38541	O2P ADE	900	192.065	123.532	-10.547	1.00	30.67	Al6s
ATOM	38489	C4 URI	897	180.376	118.127	-14.119	1.00	40.02	Al6s	ATOM	38542	O5 ADE	900	192.982	121.408	-11.495	1.00	46.11	Al6s
ATOM	38490	O4 URI	897	180.695	116.989	-14.471	1.00	40.02	Al6s	ATOM	38543	C5 ADE	900	193.588	120.660	-10.430	1.00	46.11	Al6s
ATOM	38491	C5 URI	897	179.699	119.100	-14.923	1.00	40.02	Al6s	ATOM	38544	C4 ADE	900	192.403	119.208	-10.819	1.00	46.11	Al6s
ATOM	38492	C2 URI	897	179.923	122.895	-12.369	1.00	31.69	Al6s	ATOM	38545	O4 ADE	900	192.724	118.625	-10.979	1.00	46.11	Al6s
ATOM	38493	O2 URI	897	179.647	123.689	-11.245	1.00	31.69	Al6s	ATOM	38546	C1 ADE	900	192.396	117.738	-12.090	1.00	46.11	Al6s
ATOM	38494	C3 URI	897	179.604	123.667	-13.632	1.00	31.69	Al6s	ATOM	38547	N9 ADE	900	191.670	118.397	-13.181	1.00	30.67	Al6s
ATOM	38495	O3 URI	897	180.039	125.005	-13.536	1.00	31.69	Al6s	ATOM	38548	C4 ADE	900	191.068	117.795	-14.261	1.00	30.67	Al6s
ATOM	38496	P URI	898	181.503	125.388	-14.075	1.00	36.58	Al6s	ATOM	38549	N3 ADE	900	191.001	116.478	-14.534	1.00	30.67	Al6s

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ATOM	38550	C2	ADE	900	190.333	116.274	-15.669	1.00	30.67	Al6s	ATOM	38603	O3' GUA	902	199.270	115.387	-23.087	1.00	50.24	Al6s
ATOM	38551	N1/ADE		900	189.774	117.168	-16.496	1.00	30.67	Al6s	ATOM	38604	P GUA	903	200.428	116.403	-23.533	1.00	61.92	Al6s
ATOM	38552	C6 ADE		900	189.866	118.476	-16.192	1.00	30.67	Al6s	ATOM	38605	O1P GUA	903	201.378	116.465	-22.412	1.00	36.14	Al6s
ATOM	38553	N6 ADE		900	189.312	119.358	-17.012	1.00	30.67	Al6s	ATOM	38606	O2P GUA	903	199.858	117.660	-24.080	1.00	36.14	Al6s
ATOM	38554	C5 ADE		900	190.540	118.826	-15.022	1.00	30.67	Al6s	ATOM	38607	O5' GUA	903	201.123	115.619	-24.726	1.00	61.92	Al6s
ATOM	38555	N7 ADE		900	190.738	120.055	-14.433	1.00	30.67	Al6s	ATOM	38608	C5' GUA	903	201.061	116.115	-26.074	1.00	61.92	Al6s
ATOM	38556	C8 ADE		900	191.469	119.748	-13.351	1.00	30.67	Al6s	ATOM	38609	C4' GUA	903	201.194	114.976	-27.048	1.00	61.92	Al6s
ATOM	38557	C2' ADE		900	193.854	117.558	-12.503	1.00	46.11	Al6s	ATOM	38610	O4' GUA	903	202.073	113.982	-26.465	1.00	61.92	Al6s
ATOM	38558	O2' ADE		900	194.485	116.545	-11.740	1.00	46.11	Al6s	ATOM	38611	C1' GUA	903	201.694	112.693	-26.900	1.00	61.92	Al6s
ATOM	38559	C3/ADE		900	194.412	118.919	-12.145	1.00	46.11	Al6s	ATOM	38612	N9 GUA	903	201.491	111.831	-25.739	1.00	36.14	Al6s
ATOM	38560	O3' ADE		900	195.816	118.889	-12.088	1.00	46.11	Al6s	ATOM	38613	C4 GUA	903	201.831	110.499	-25.650	1.00	36.14	Al6s
ATOM	38561	P CYT		901	196.652	119.410	-13.352	1.00	53.42	Al6s	ATOM	38614	N3 GUA	903	202.405	109.760	-26.625	1.00	36.14	Al6s
ATOM	38562	O1P CYT		901	198.076	119.408	-12.900	1.00	39.37	Al6s	ATOM	38615	C2 GUA	903	202.612	108.507	-26.239	1.00	36.14	Al6s
ATOM	38563	O2P CYT		901	196.033	120.672	-13.848	1.00	39.37	Al6s	ATOM	38616	N2 GUA	903	203.164	107.624	-27.081	1.00	36.14	Al6s
ATOM	38564	O5' CYT		901	196.417	118.285	-14.456	1.00	53.42	Al6s	ATOM	38617	N1 GUA	903	202.287	108.022	-24.999	1.00	36.14	Al6s
ATOM	38565	C5' CYT		901	196.862	116.940	-14.234	1.00	53.42	Al6s	ATOM	38618	C6 GUA	903	201.687	108.756	-23.981	1.00	36.14	Al6s
ATOM	38566	C4' CYT		901	196.360	116.024	-15.327	1.00	53.42	Al6s	ATOM	38619	O6 GUA	903	201.414	108.202	-22.902	1.00	36.14	Al6s
ATOM	38567	O4' CYT		901	194.910	116.017	-15.318	1.00	53.42	Al6s	ATOM	38620	C5 GUA	903	201.459	110.108	-24.377	1.00	36.14	Al6s
ATOM	38568	C1' CYT		901	194.433	115.860	-16.639	1.00	53.42	Al6s	ATOM	38621	N7 GUA	903	200.894	111.168	-23.681	1.00	36.14	Al6s
ATOM	38569	N1 CYT		901	193.749	117.093	-17.037	1.00	39.37	Al6s	ATOM	38622	C8 GUA	903	200.936	112.168	-24.524	1.00	36.14	Al6s
ATOM	38570	C6 CYT		901	194.034	118.288	-16.442	1.00	39.37	Al6s	ATOM	38623	C2' GUA	903	200.471	112.847	-27.800	1.00	61.92	Al6s
ATOM	38571	C2 CYT		901	192.820	117.027	-18.073	1.00	39.37	Al6s	ATOM	38624	O2' GUA	903	200.918	112.889	-29.141	1.00	61.92	Al6s
ATOM	38572	O2 CYT		901	192.566	115.919	-18.575	1.00	39.37	Al6s	ATOM	38625	C3' GUA	903	199.928	114.201	-27.366	1.00	61.92	Al6s
ATOM	38573	N3 CYT		901	192.227	118.164	-18.509	1.00	39.37	Al6s	ATOM	38626	O3' GUA	903	199.203	114.804	-28.437	1.00	61.92	Al6s
ATOM	38574	C4 CYT		901	192.543	119.332	-17.951	1.00	39.37	Al6s	ATOM	38627	P GUA	904	197.671	115.235	-28.218	1.00	53.81	Al6s
ATOM	38575	N4 CYT		901	191.976	120.438	-18.447	1.00	39.37	Al6s	ATOM	38628	O1P GUA	904	197.155	114.369	-27.129	1.00	50.46	Al6s
ATOM	38576	C5 CYT		901	193.466	119.422	-16.867	1.00	39.37	Al6s	ATOM	38629	O2P GUA	904	196.956	115.267	-29.518	1.00	50.46	Al6s
ATOM	38577	C2' CYT		901	195.643	115.657	-17.547	1.00	53.42	Al6s	ATOM	38630	O5' GUA	904	197.814	116.729	-27.679	1.00	53.81	Al6s
ATOM	38578	O2' CYT		901	195.901	114.277	-17.697	1.00	53.42	Al6s	ATOM	38631	C5' GUA	904	196.766	117.342	-26.933	1.00	53.81	Al6s
ATOM	38579	C3' CYT		901	196.730	116.370	-16.763	1.00	53.42	Al6s	ATOM	38632	C4' GUA	904	195.907	118.184	-27.840	1.00	53.81	Al6s
ATOM	38580	O3' CYT		901	198.016	115.895	-17.125	1.00	53.42	Al6s	ATOM	38633	O4' GUA	904	194.592	118.268	-27.248	1.00	53.81	Al6s
ATOM	38581	P GUA		902	198.893	116.701	-18.213	1.00	50.24	Al6s	ATOM	38634	C1' GUA	904	194.037	119.546	-27.494	1.00	50.46	Al6s
ATOM	38582	O1P GUA		902	200.251	116.107	-18.116	1.00	49.35	Al6s	ATOM	38635	N9 GUA	904	193.976	120.254	-26.226	1.00	50.46	Al6s
ATOM	38583	O2P GUA		902	198.722	118.172	-18.100	1.00	49.35	Al6s	ATOM	38636	C4 GUA	904	193.240	121.371	-25.977	1.00	50.46	Al6s
ATOM	38584	O5' GUA		902	198.264	116.283	-19.609	1.00	50.24	Al6s	ATOM	38637	N3 GUA	904	192.421	121.980	-26.855	1.00	50.46	Al6s
ATOM	38585	C5' GUA		902	198.312	114.925	-20.062	1.00	50.24	Al6s	ATOM	38638	C2 GUA	904	191.862	123.048	-26.338	1.00	50.46	Al6s
ATOM	38586	C4' GUA		902	197.655	114.824	-21.406	1.00	50.24	Al6s	ATOM	38639	N2 GUA	904	191.019	123.775	-27.080	1.00	50.46	Al6s
ATOM	38587	O4' GUA		902	196.234	115.048	-21.264	1.00	50.24	Al6s	ATOM	38640	N1 GUA	904	192.092	123.485	-25.055	1.00	50.46	Al6s
ATOM	38588	C1' GUA		902	195.753	115.768	-22.384	1.00	50.24	Al6s	ATOM	38641	C6 GUA	904	192.939	122.874	-24.137	1.00	50.46	Al6s
ATOM	38589	N9 GUA		902	195.112	116.999	-21.914	1.00	49.35	Al6s	ATOM	38642	O6 GUA	904	193.086	123.360	-23.013	1.00	50.46	Al6s
ATOM	38590	C4 GUA		902	194.040	117.647	-22.497	1.00	49.35	Al6s	ATOM	38643	C5 GUA	904	193.538	121.725	-24.680	1.00	50.46	Al6s
ATOM	38591	N3 GUA		902	193.382	117.259	-23.610	1.00	49.35	Al6s	ATOM	38644	N7 GUA	904	194.432	120.828	-24.118	1.00	50.46	Al6s
ATOM	38592	C2 GUA		902	192.418	118.106	-23.931	1.00	49.35	Al6s	ATOM	38645	C8 GUA	904	194.660	119.969	-25.069	1.00	50.46	Al6s
ATOM	38593	N2 GUA		902	191.662	117.900	-25.017	1.00	49.35	Al6s	ATOM	38646	C2' GUA	904	194.940	120.292	-28.415	1.00	53.81	Al6s
ATOM	38594	N1 GUA		902	192.120	119.230	-23.221	1.00	49.35	Al6s	ATOM	38647	O2' GUA	904	194.590	120.099	-29.755	1.00	53.81	Al6s
ATOM	38595	C6 GUA		902	192.773	119.650	-22.077	1.00	49.35	Al6s	ATOM	38648	C3' GUA	904	196.316	119.634	-28.060	1.00	53.81	Al6s
ATOM	38596	O6 GUA		902	192.414	120.695	-21.518	1.00	49.35	Al6s	ATOM	38649	O3' GUA	904	197.280	119.838	-29.072	1.00	53.81	Al6s
ATOM	38597	C5 GUA		902	193.816	118.756	-21.715	1.00	49.35	Al6s	ATOM	38650	P GUA	905	198.190	121.167	-29.042	1.00	55.96	Al6s
ATOM	38598	N7 GUA		902	194.714	118.803	-20.658	1.00	49.35	Al6s	ATOM	38651	O1P GUA	905	199.057	121.071	-30.241	1.00	47.02	Al6s
ATOM	38599	C7 GUA		902	195.459	117.745	-20.815	1.00	49.35	Al6s	ATOM	38652	O2P GUA	905	198.817	121.306	-27.684	1.00	47.02	Al6s
ATOM	38600	C2' GUA		902	196.932	115.993	-23.338	1.00	50.24	Al6s	ATOM	38653	O5' GUA	905	197.172	122.376	-29.281	1.00	55.96	Al6s
ATOM	38601	O2' GUA		902	196.929	114.992	-24.339	1.00	50.24	Al6s	ATOM	38654	C5' GUA	905	196.549	122.576	-30.566	1.00	55.96	Al6s
ATOM	38602	C3' GUA		902	198.124	115.865	-22.403	1.00	50.24	Al6s	ATOM	38655	C4' GUA	905	195.709	123.845	-30.579	1.00	55.96	Al6s

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ATOM	38656	O4' GUA	905	194.552	123.721	-29.696	1.00	55.96	Al6S	ATOM	38709	C4	CYT	907	199.589	130.492	-23.326	1.00	39.29	Al
ATOM	38657	C1' GUA	905	194.247	124.981	-29.109	1.00	55.96	Al6S	ATOM	38710	N4	CYT	907	200.103	129.379	-22.809	1.00	39.29	Al
ATOM	38658	N9 GUA	905	194.525	124.888	-27.675	1.00	47.02	Al6S	ATOM	38711	C5	CYT	907	199.428	130.623	-24.738	1.00	39.29	Al
ATOM	38659	C4 GUA	905	194.207	125.806	-26.696	1.00	47.02	Al6S	ATOM	38712	C2' CYT	907	199.099	135.047	-24.870	1.00	71.15	Al	
ATOM	38660	N3 GUA	905	193.500	126.944	-26.864	1.00	47.02	Al6S	ATOM	38713	O2' CYT	907	198.610	136.318	-24.486	1.00	71.15	Al	
ATOM	38661	C2 GUA	905	193.375	127.626	-25.728	1.00	47.02	Al6S	ATOM	38714	C3' CYT	907	199.512	134.966	-26.328	1.00	71.15	Al	
ATOM	38662	N2 GUA	905	192.674	128.770	-25.699	1.00	47.02	Al6S	ATOM	38715	O3' CYT	907	200.183	136.132	-26.716	1.00	71.15	Al	
ATOM	38663	N1 GUA	905	193.924	127.231	-24.535	1.00	47.02	Al6S	ATOM	38716	P	CYT	908	201.781	136.193	-26.589	1.00	65.33	Al
ATOM	38664	C6 GUA	905	194.669	126.072	-24.343	1.00	47.02	Al6S	ATOM	38717	O1P	CYT	908	202.088	137.610	-26.968	1.00	32.65	Al
ATOM	38665	O6 GUA	905	195.150	125.824	-23.230	1.00	47.02	Al6S	ATOM	38718	O2P	CYT	908	202.414	135.071	-27.328	1.00	32.65	Al
ATOM	38666	C5 GUA	905	194.781	125.318	-25.540	1.00	47.02	Al6S	ATOM	38719	O5' CYT	908	202.079	135.923	-25.047	1.00	65.33	Al	
ATOM	38667	N7 GUA	905	195.403	124.101	-25.772	1.00	47.02	Al6S	ATOM	38720	C5' CYT	908	201.632	136.849	-24.063	1.00	65.33	Al	
ATOM	38668	C8 GUA	905	195.216	123.881	-27.043	1.00	47.02	Al6S	ATOM	38721	C4' CYT	908	202.072	136.435	-22.683	1.00	65.33	Al	
ATOM	38669	C2' GUA	905	195.185	125.998	-29.762	1.00	55.96	Al6S	ATOM	38722	O4' CYT	908	201.451	135.192	-22.281	1.00	65.33	Al	
ATOM	38670	O2' GUA	905	194.586	126.557	-30.916	1.00	55.96	Al6S	ATOM	38723	C1' CYT	908	202.157	134.681	-21.173	1.00	65.33	Al	
ATOM	38671	C3' GUA	905	196.378	125.125	-30.121	1.00	55.96	Al6S	ATOM	38724	N1	CYT	908	202.398	133.245	-21.337	1.00	32.65	Al
ATOM	38672	O3' GUA	905	197.205	125.721	-31.100	1.00	55.96	Al6S	ATOM	38725	C6	CYT	908	202.389	132.648	-22.561	1.00	32.65	Al
ATOM	38673	P	906	198.426	126.656	-30.623	1.00	63.15	Al6S	ATOM	38726	C2	CYT	908	202.667	132.488	-20.190	1.00	32.65	Al
ATOM	38674	O1P	906	199.196	127.094	-31.814	1.00	41.62	Al6S	ATOM	38727	O2	CYT	908	202.649	133.045	-19.090	1.00	32.65	Al
ATOM	38675	O2P	906	199.132	125.975	-29.514	1.00	41.62	Al6S	ATOM	38728	N3	CYT	908	202.942	131.177	-20.305	1.00	32.65	Al
ATOM	38676	O5' GUA	906	197.688	127.938	-30.047	1.00	63.15	Al6S	ATOM	38729	C4	CYT	908	202.955	130.609	-21.500	1.00	32.65	Al
ATOM	38677	C5' GUA	906	196.808	128.691	-30.887	1.00	63.15	Al6S	ATOM	38730	N4	CYT	908	203.255	129.328	-21.559	1.00	32.65	Al
ATOM	38678	C4' GUA	906	196.225	129.844	-30.126	1.00	63.15	Al6S	ATOM	38731	C5	CYT	908	202.665	131.340	-22.689	1.00	32.65	Al
ATOM	38679	O4' GUA	906	195.384	129.338	-29.062	1.00	63.15	Al6S	ATOM	38732	C2' CYT	908	203.467	135.450	-21.072	1.00	65.33	Al	
ATOM	38680	C1' GUA	906	195.451	130.208	-27.951	1.00	63.15	Al6S	ATOM	38733	O2' CYT	908	203.331	136.344	-19.987	1.00	65.33	Al	
ATOM	38681	N9 GUA	906	195.982	129.475	-26.808	1.00	41.62	Al6S	ATOM	38734	C3' CYT	908	203.535	136.147	-22.430	1.00	65.33	Al	
ATOM	38682	C4 GUA	906	195.980	129.921	-25.510	1.00	41.62	Al6S	ATOM	38735	O3' CYT	908	204.323	137.332	-22.380	1.00	65.33	Al	
ATOM	38683	N3 GUA	906	195.490	131.106	-25.085	1.00	41.62	Al6S	ATOM	38736	P	CYT	909	205.902	137.227	-22.053	1.00	49.41	Al
ATOM	38684	C2 GUA	906	195.624	131.260	-23.785	1.00	41.62	Al6S	ATOM	38737	O1P	CYT	909	206.524	138.543	-22.412	1.00	35.82	Al
ATOM	38685	N2 GUA	906	195.175	132.377	-23.212	1.00	41.62	Al6S	ATOM	38738	O2P	CYT	909	206.441	135.958	-22.642	1.00	35.82	Al
ATOM	38686	N1 GUA	906	196.200	130.326	-22.955	1.00	41.62	Al6S	ATOM	38739	O5' CYT	909	205.918	137.093	-20.465	1.00	49.41	Al	
ATOM	38687	C6 GUA	906	196.705	129.096	-23.361	1.00	41.62	Al6S	ATOM	38740	C5' CYT	909	207.057	136.605	-19.785	1.00	49.41	Al	
ATOM	38688	O6 GUA	906	197.186	128.321	-22.523	1.00	41.62	Al6S	ATOM	38741	C4' CYT	909	206.674	136.153	-18.409	1.00	49.41	Al	
ATOM	38689	C5 GUA	906	196.567	128.917	-24.774	1.00	41.62	Al6S	ATOM	38742	O4' CYT	909	205.707	135.085	-18.502	1.00	49.41	Al	
ATOM	38690	N7 GUA	906	196.936	127.858	-25.597	1.00	41.62	Al6S	ATOM	38743	C1' CYT	909	206.000	134.087	-17.542	1.00	49.41	Al	
ATOM	38691	C8 GUA	906	196.573	128.236	-26.793	1.00	41.62	Al6S	ATOM	38744	N1	CYT	909	206.257	132.821	-18.252	1.00	35.82	Al
ATOM	38692	C2' GUA	906	196.362	131.371	-28.329	1.00	63.15	Al6S	ATOM	38745	C6	CYT	909	206.200	132.757	-19.615	1.00	35.82	Al
ATOM	38693	O2' GUA	906	195.577	132.440	-28.818	1.00	63.15	Al6S	ATOM	38746	C2	CYT	909	206.563	131.669	-17.507	1.00	35.82	Al
ATOM	38694	C3' GUA	906	197.220	130.739	-29.411	1.00	63.15	Al6S	ATOM	38747	O2	CYT	909	206.642	131.752	-16.273	1.00	35.82	Al
ATOM	38695	O3' GUA	906	197.808	131.712	-30.253	1.00	63.15	Al6S	ATOM	38748	N3	CYT	909	206.774	130.500	-18.147	1.00	35.82	Al
ATOM	38696	P	907	199.253	132.293	-29.876	1.00	71.15	Al6S	ATOM	38749	C4	CYT	909	206.703	130.450	-19.474	1.00	35.82	Al
ATOM	38697	O1P	907	199.578	133.307	-30.901	1.00	39.29	Al6S	ATOM	38750	N4	CYT	909	206.911	129.278	-20.060	1.00	35.82	Al
ATOM	38698	O2P	907	200.198	131.166	-29.615	1.00	39.29	Al6S	ATOM	38751	C5	CYT	909	206.412	131.606	-20.261	1.00	35.82	Al
ATOM	38699	O5' CYT	907	199.010	133.037	-28.491	1.00	71.15	Al6S	ATOM	38752	C2' CYT	909	207.199	135.565	-16.723	1.00	49.41	Al	
ATOM	38700	C5' CYT	907	198.209	134.221	-28.432	1.00	71.15	Al6S	ATOM	38753	O2' CYT	909	206.790	135.168	-15.520	1.00	49.41	Al	
ATOM	38701	C4' CYT	907	198.181	134.771	-27.027	1.00	71.15	Al6S	ATOM	38754	C3' CYT	909	207.844	135.547	-17.678	1.00	49.41	Al	
ATOM	38702	O4' CYT	907	197.479	133.866	-26.139	1.00	71.15	Al6S	ATOM	38755	O3' CYT	909	208.592	136.553	-17.046	1.00	49.41	Al	
ATOM	38703	C1' CYT	907	197.973	134.025	-24.821	1.00	71.15	Al6S	ATOM	38756	P	GUA	910	210.161	136.641	-17.324	1.00	46.76	Al
ATOM	38704	N1	907	198.529	132.758	-24.340	1.00	39.29	Al6S	ATOM	38757	O1P	GUA	910	210.599	137.977	-16.872	1.00	30.32	Al
ATOM	38705	C6	907	198.892	131.759	-25.197	1.00	39.29	Al6S	ATOM	38758	O2P	GUA	910	210.432	136.231	-18.728	1.00	30.32	Al
ATOM	38706	C2	907	198.705	132.604	-22.962	1.00	39.29	Al6S	ATOM	38759	O5' GUA	910	210.735	135.546	-16.327	1.00	46.76	Al	
ATOM	38707	O2	907	198.378	133.533	-22.214	1.00	39.29	Al6S	ATOM	38760	C5' GUA	910	210.647	135.759	-14.926	1.00	46.76	Al	
ATOM	38708	N3	907	199.234	131.459	-22.483	1.00	39.29	Al6S	ATOM	38761	C4' GUA	910	211.035	134.519	-14.188	1.00	46.76	Al	

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ATOM	38762	O4' GUA	910	210.094	133.488	-14.531	1.00	46.76	Al6S	ATOM	38815	N7 ADE	912	213.579	130.708	-18.059	1.00	31.49	Al
ATOM	38763	C1' GUA	910	210.746	132.234	-14.539	1.00	46.76	Al6S	ATOM	38816	C8 ADE	912	213.569	129.553	-17.434	1.00	31.49	Al
ATOM	38764	N9 GUA	910	210.536	131.604	-15.841	1.00	30.32	Al6S	ATOM	38817	C2' ADE	912	214.472	126.928	-18.376	1.00	56.92	Al
ATOM	38765	C4 GUA	910	210.466	130.258	-16.069	1.00	30.32	Al6S	ATOM	38818	O2' ADE	912	214.032	124.934	-18.714	1.00	56.92	Al
ATOM	38766	N3 GUA	910	210.580	129.295	-15.133	1.00	30.32	Al6S	ATOM	38819	C3' ADE	912	215.310	126.190	-17.112	1.00	56.92	Al
ATOM	38767	C2 GUA	910	210.484	128.084	-15.660	1.00	30.32	Al6S	ATOM	38820	O3' ADE	912	216.207	125.099	-17.110	1.00	56.92	Al
ATOM	38768	N2 GUA	910	210.577	127.003	-14.871	1.00	30.32	Al6S	ATOM	38821	P CYT	913	217.712	125.320	-17.637	1.00	43.31	Al
ATOM	38769	N1 GUA	910	210.289	127.841	-17.002	1.00	30.32	Al6S	ATOM	38822	O1P CYT	913	218.445	124.073	-17.290	1.00	36.01	Al
ATOM	38770	C6 GUA	910	210.165	128.822	-17.984	1.00	30.32	Al6S	ATOM	38823	O2P CYT	913	218.222	126.633	-17.153	1.00	36.01	Al
ATOM	38771	O6 GUA	910	209.987	128.497	-19.161	1.00	30.32	Al6S	ATOM	38824	O5' CYT	913	217.552	125.426	-19.220	1.00	43.31	Al
ATOM	38772	C5 GUA	910	210.269	130.126	-17.432	1.00	30.32	Al6S	ATOM	38825	C5' CYT	913	217.286	124.256	-19.980	1.00	43.31	Al
ATOM	38773	N7 GUA	910	210.209	131.369	-18.045	1.00	30.32	Al6S	ATOM	38826	C4' CYT	913	216.856	124.612	-21.366	1.00	43.31	Al
ATOM	38774	C8 GUA	910	210.373	132.218	-17.066	1.00	30.32	Al6S	ATOM	38827	O4' CYT	913	215.831	125.628	-21.301	1.00	43.31	Al
ATOM	38775	C2' GUA	910	212.217	132.464	-14.192	1.00	46.76	Al6S	ATOM	38828	C1' CYT	913	215.846	127.814	-22.167	1.00	36.01	Al
ATOM	38776	O2' GUA	910	212.432	132.181	-12.827	1.00	46.76	Al6S	ATOM	38829	N1 CYT	913	216.058	127.814	-22.167	1.00	36.01	Al
ATOM	38777	C3' GUA	910	212.391	133.936	-14.539	1.00	46.76	Al6S	ATOM	38830	C6 CYT	913	216.362	128.217	-20.896	1.00	36.01	Al
ATOM	38778	O3' GUA	910	213.446	134.560	-13.808	1.00	46.76	Al6S	ATOM	38831	C2 CYT	913	215.956	128.759	-23.202	1.00	36.01	Al
ATOM	38779	P CYT	911	214.637	135.301	-14.604	1.00	47.70	Al6S	ATOM	38832	O2 CYT	913	215.661	128.374	-24.338	1.00	36.01	Al
ATOM	38780	O1P CYT	911	215.325	136.197	-13.638	1.00	61.89	Al6S	ATOM	38833	N3 CYT	913	216.179	130.060	-22.936	1.00	36.01	Al
ATOM	38781	O2P CYT	911	214.093	135.872	-15.871	1.00	61.89	Al6S	ATOM	38834	C4 CYT	913	216.480	130.441	-21.697	1.00	36.01	Al
ATOM	38782	O5' CYT	911	215.629	134.110	-14.967	1.00	47.70	Al6S	ATOM	38835	N4 CYT	913	216.690	131.739	-21.484	1.00	36.01	Al
ATOM	38783	C5' CYT	911	216.132	133.218	-13.951	1.00	47.70	Al6S	ATOM	38836	C5 CYT	913	216.578	129.508	-20.620	1.00	36.01	Al
ATOM	38784	C4' CYT	911	216.652	131.956	-14.595	1.00	47.70	Al6S	ATOM	38837	C2' CYT	913	216.985	125.855	-23.350	1.00	43.31	Al
ATOM	38785	O4' CYT	911	217.697	132.290	-15.548	1.00	47.70	Al6S	ATOM	38838	O2' CYT	913	216.439	124.904	-24.243	1.00	43.31	Al
ATOM	38786	C1' CYT	911	218.768	131.391	-15.381	1.00	47.70	Al6S	ATOM	38839	C3' CYT	913	217.883	125.219	-22.297	1.00	43.31	Al
ATOM	38787	N1 CYT	911	219.996	131.984	-15.926	1.00	61.89	Al6S	ATOM	38840	O3' CYT	913	218.748	124.244	-22.859	1.00	43.31	Al
ATOM	38788	C6 CYT	911	220.788	132.802	-15.171	1.00	61.89	Al6S	ATOM	38841	P ADE	914	220.264	124.643	-23.227	1.00	43.71	Al
ATOM	38789	C2 CYT	911	220.340	131.696	-17.251	1.00	61.89	Al6S	ATOM	38842	O1P ADE	914	220.815	123.445	-23.902	1.00	44.22	Al
ATOM	38790	O2 CYT	911	219.607	130.939	-17.917	1.00	61.89	Al6S	ATOM	38843	O2P ADE	914	220.961	125.177	-22.031	1.00	44.22	Al
ATOM	38791	N3 CYT	911	221.456	132.247	-17.775	1.00	61.89	Al6S	ATOM	38844	O5' ADE	914	220.115	125.805	-24.312	1.00	43.71	Al
ATOM	38792	C4 CYT	911	222.212	133.056	-17.034	1.00	61.89	Al6S	ATOM	38845	C5' ADE	914	219.850	125.484	-25.685	1.00	43.71	Al
ATOM	38793	N4 CYT	911	223.288	133.601	-17.603	1.00	61.89	Al6S	ATOM	38846	C4' ADE	914	219.568	126.733	-26.476	1.00	43.71	Al
ATOM	38794	C5 CYT	911	221.894	133.353	-15.681	1.00	61.89	Al6S	ATOM	38847	O1' ADE	914	218.560	127.479	-25.753	1.00	43.71	Al
ATOM	38795	C2' CYT	911	218.745	131.026	-13.904	1.00	47.70	Al6S	ATOM	38848	C4' ADE	914	218.812	128.873	-25.857	1.00	43.71	Al
ATOM	38796	O2' CYT	911	217.242	130.883	-13.679	1.00	47.70	Al6S	ATOM	38849	N9 ADE	914	219.208	129.376	-24.537	1.00	44.22	Al
ATOM	38797	C3' CYT	911	216.887	129.624	-14.220	1.00	47.70	Al6S	ATOM	38850	C4 ADE	914	219.295	130.701	-24.188	1.00	44.22	Al
ATOM	38798	O3' CYT	912	215.711	128.765	-13.555	1.00	56.92	Al6S	ATOM	38851	N3 ADE	914	219.059	131.764	-24.975	1.00	44.22	Al
ATOM	38799	P ADE	912	214.640	129.706	-13.135	1.00	31.49	Al6S	ATOM	38852	C2 ADE	914	219.238	132.892	-24.302	1.00	44.22	Al
ATOM	38800	O1P ADE	912	216.312	127.842	-12.542	1.00	31.49	Al6S	ATOM	38853	N1 ADE	914	219.587	133.063	-23.025	1.00	44.22	Al
ATOM	38801	O2P ADE	912	215.154	127.948	-14.804	1.00	56.92	Al6S	ATOM	38854	C6 ADE	914	219.809	131.970	-22.260	1.00	44.22	Al
ATOM	38802	O5' ADE	912	214.694	126.606	-14.674	1.00	56.92	Al6S	ATOM	38855	N5 ADE	914	220.128	132.140	-20.980	1.00	44.22	Al
ATOM	38803	C5' ADE	912	213.190	126.933	-16.511	1.00	56.92	Al6S	ATOM	38856	C6 ADE	914	219.675	130.717	-22.860	1.00	44.22	Al
ATOM	38804	C4' ADE	912	213.264	126.095	-16.019	1.00	56.92	Al6S	ATOM	38857	N7 ADE	914	219.854	129.426	-22.378	1.00	44.22	Al
ATOM	38805	O4' ADE	912	213.190	126.933	-16.511	1.00	56.92	Al6S	ATOM	38858	C8 ADE	914	219.565	128.668	-23.406	1.00	44.22	Al
ATOM	38806	C1' ADE	912	213.278	127.056	-17.920	1.00	56.92	Al6S	ATOM	38859	C2' ADE	914	219.950	129.039	-26.852	1.00	43.71	Al
ATOM	38807	N9 ADE	912	213.383	128.476	-18.265	1.00	31.49	Al6S	ATOM	38860	O2' ADE	914	219.379	129.190	-28.136	1.00	43.71	Al
ATOM	38808	C4 ADE	912	213.291	128.994	-19.529	1.00	31.49	Al6S	ATOM	38861	C3' ADE	914	220.704	127.732	-26.640	1.00	43.71	Al
ATOM	38809	N3 ADE	912	213.124	128.313	-20.665	1.00	31.49	Al6S	ATOM	38862	O3' ADE	914	221.630	127.429	-27.679	1.00	43.71	Al
ATOM	38810	C2 ADE	912	213.062	129.144	-21.730	1.00	31.49	Al6S	ATOM	38863	P ADE	915	223.214	127.524	-28.369	1.00	48.32	Al
ATOM	38811	N1 ADE	912	213.141	130.476	-21.730	1.00	31.49	Al6S	ATOM	38864	O1P ADE	915	223.971	127.093	-28.584	1.00	48.32	Al
ATOM	38812	C6 ADE	912	213.311	131.133	-20.570	1.00	31.49	Al6S	ATOM	38865	O2P ADE	915	223.462	126.827	-26.069	1.00	48.32	Al
ATOM	38813	N6 ADE	912	213.379	132.463	-20.607	1.00	31.49	Al6S	ATOM	38866	O5' ADE	915	223.460	129.086	-27.156	1.00	43.90	Al
ATOM	38814	C5 ADE	912	213.398	130.364	-19.391	1.00	31.49	Al6S	ATOM	38867	C5' ADE	915	223.390	130.001	-28.263	1.00	43.90	Al

ATOM	38868	C4' ADE	915	223.807	131.378	-27.821	1.00	43.90	Al6S	ATOM	38921	C4 CYT	917	228.933	129.148	-18.819	1.00	59.90	Al
ATOM	38869	O4' ADE	915	222.839	131.846	-26.853	1.00	43.90	Al6S	ATOM	38922	N4 CYT	917	228.178	128.059	-18.930	1.00	59.90	Al
ATOM	38870	C1' ADE	915	223.494	132.514	-25.793	1.00	43.90	Al6S	ATOM	38923	C5 CYT	917	229.490	129.755	-19.980	1.00	59.90	Al
ATOM	38871	N9 ADE	915	223.294	131.718	-24.581	1.00	48.32	Al6S	ATOM	38924	C2' CYT	917	232.847	131.795	-17.944	1.00	50.00	Al
ATOM	38872	C4 ADE	915	223.444	132.158	-23.291	1.00	48.32	Al6S	ATOM	38925	O2' CYT	917	233.485	132.656	-17.025	1.00	50.00	Al
ATOM	38873	N3 ADE	915	223.811	133.382	-22.888	1.00	48.32	Al6S	ATOM	38926	C3' CYT	917	233.556	131.708	-19.290	1.00	50.00	Al
ATOM	38874	C2 ADE	915	223.830	133.454	-21.562	1.00	48.32	Al6S	ATOM	38927	O3' CYT	917	234.963	131.667	-19.151	1.00	50.00	Al
ATOM	38875	N1 ADE	915	223.544	132.520	-20.663	1.00	48.32	Al6S	ATOM	38928	P GUA	918	235.685	130.254	-18.895	1.00	39.71	Al
ATOM	38876	C6 ADE	915	223.176	131.298	-21.099	1.00	48.32	Al6S	ATOM	38929	O1P GUA	918	237.153	130.492	-18.801	1.00	58.99	Al
ATOM	38877	N6 ADE	915	222.875	130.360	-20.196	1.00	48.32	Al6S	ATOM	38930	O2P GUA	918	235.157	129.286	-19.903	1.00	58.99	Al
ATOM	38878	C5 ADE	915	223.124	131.084	-22.485	1.00	48.32	Al6S	ATOM	38931	O5' GUA	918	235.179	129.809	-17.450	1.00	39.71	Al
ATOM	38879	N7 ADE	915	222.794	129.971	-23.251	1.00	48.32	Al6S	ATOM	38932	C5' GUA	918	235.717	130.413	-16.267	1.00	39.71	Al
ATOM	38880	C8 ADE	915	222.912	130.386	-24.483	1.00	48.32	Al6S	ATOM	38933	C4' GUA	918	235.040	129.863	-15.035	1.00	39.71	Al
ATOM	38881	C2' ADE	915	224.969	132.636	-26.169	1.00	43.90	Al6S	ATOM	38934	O4' GUA	918	233.611	130.088	-15.147	1.00	39.71	Al
ATOM	38882	O2' ADE	915	225.205	133.878	-26.804	1.00	43.90	Al6S	ATOM	38935	C1' GUA	918	232.917	129.037	-14.490	1.00	39.71	Al
ATOM	38883	C3' ADE	915	225.144	131.439	-27.099	1.00	43.90	Al6S	ATOM	38936	N9 GUA	918	232.082	128.318	-15.456	1.00	58.99	Al
ATOM	38884	O3' ADE	915	226.261	131.576	-27.977	1.00	43.90	Al6S	ATOM	38937	C4 GUA	918	231.096	127.411	-15.139	1.00	58.99	Al
ATOM	38885	P GUA	916	227.637	130.816	-27.631	1.00	67.71	Al6S	ATOM	38938	N3 GUA	918	230.719	127.062	-13.896	1.00	58.99	Al
ATOM	38886	O1P GUA	916	228.591	131.272	-28.657	1.00	51.07	Al6S	ATOM	38939	C2 GUA	918	229.767	126.165	-13.907	1.00	58.99	Al
ATOM	38887	O2P GUA	916	227.385	129.363	-27.447	1.00	51.07	Al6S	ATOM	38940	N2 GUA	918	229.276	125.720	-12.763	1.00	58.99	Al
ATOM	38888	O5' GUA	916	228.084	131.373	-26.204	1.00	67.71	Al6S	ATOM	38941	N1 GUA	918	229.224	125.638	-15.042	1.00	58.99	Al
ATOM	38889	C5' GUA	916	228.476	132.743	-26.037	1.00	67.71	Al6S	ATOM	38942	C6 GUA	918	229.588	125.979	-16.334	1.00	58.99	Al
ATOM	38890	C4' GUA	916	228.696	133.081	-24.570	1.00	67.71	Al6S	ATOM	38943	C5 GUA	918	229.025	125.442	-17.288	1.00	58.99	Al
ATOM	38891	O4' GUA	916	227.466	132.928	-23.818	1.00	67.71	Al6S	ATOM	38944	O6 GUA	918	230.615	126.954	-16.343	1.00	58.99	Al
ATOM	38892	C1' GUA	916	227.784	132.750	-22.449	1.00	67.71	Al6S	ATOM	38945	N7 GUA	918	231.271	127.569	-17.403	1.00	58.99	Al
ATOM	38893	N9 GUA	916	227.048	131.611	-21.908	1.00	51.07	Al6S	ATOM	38946	C8 GUA	918	232.129	128.371	-16.831	1.00	58.99	Al
ATOM	38894	C4 GUA	916	226.737	131.429	-20.590	1.00	51.07	Al6S	ATOM	38947	O2' GUA	918	233.961	128.092	-13.894	1.00	39.71	Al
ATOM	38895	N3 GUA	916	227.006	132.294	-19.592	1.00	51.07	Al6S	ATOM	38948	C2' GUA	918	234.223	128.383	-12.530	1.00	39.71	Al
ATOM	38896	C2 GUA	916	226.615	131.836	-18.422	1.00	51.07	Al6S	ATOM	38949	O3' GUA	918	235.156	128.366	-14.785	1.00	39.71	Al
ATOM	38897	N2 GUA	916	226.818	132.576	-17.321	1.00	51.07	Al6S	ATOM	38950	O3' GUA	918	236.338	127.966	-14.125	1.00	39.71	Al
ATOM	38898	N1 GUA	916	226.000	130.618	-18.247	1.00	51.07	Al6S	ATOM	38951	P GUA	919	238.134	126.341	-13.533	1.00	44.49	Al
ATOM	38899	C6 GUA	916	225.717	129.712	-19.267	1.00	51.07	Al6S	ATOM	38952	O1P GUA	919	236.917	126.195	-15.795	1.00	57.01	Al
ATOM	38900	O6 GUA	916	225.171	128.637	-19.006	1.00	51.07	Al6S	ATOM	38953	O2P GUA	919	235.781	125.513	-13.683	1.00	44.49	Al
ATOM	38901	C5 GUA	916	226.133	130.198	-20.522	1.00	51.07	Al6S	ATOM	38954	O5' GUA	919	235.585	125.512	-12.264	1.00	44.49	Al
ATOM	38902	N7 GUA	916	226.032	129.630	-21.780	1.00	51.07	Al6S	ATOM	38955	C4' GUA	919	234.358	124.719	-11.856	1.00	44.49	Al
ATOM	38903	C8 GUA	916	226.576	130.508	-22.573	1.00	51.07	Al6S	ATOM	38956	C5' GUA	919	233.208	125.012	-12.630	1.00	44.49	Al
ATOM	38904	C2' GUA	916	229.301	132.567	-22.324	1.00	67.71	Al6S	ATOM	38957	O4' GUA	919	232.207	124.048	-12.413	1.00	44.49	Al
ATOM	38905	O2' GUA	916	229.892	133.741	-21.801	1.00	67.71	Al6S	ATOM	38958	C1' GUA	919	231.588	123.549	-13.639	1.00	57.01	Al
ATOM	38906	C3' GUA	916	229.718	132.286	-23.765	1.00	67.71	Al6S	ATOM	38959	N9 GUA	919	230.580	122.608	-13.684	1.00	57.01	Al
ATOM	38907	O3' GUA	916	232.046	132.763	-23.969	1.00	67.71	Al6S	ATOM	38960	C4 GUA	919	229.960	122.060	-12.615	1.00	57.01	Al
ATOM	38908	P CYT	917	232.298	131.810	-23.647	1.00	50.00	Al6S	ATOM	38961	N3 GUA	919	229.064	121.158	-12.968	1.00	57.01	Al
ATOM	38909	O1P CYT	917	233.461	132.449	-24.304	1.00	59.90	Al6S	ATOM	38962	C2 GUA	919	228.337	120.536	-12.031	1.00	57.01	Al
ATOM	38910	O2P CYT	917	231.934	130.410	-23.971	1.00	59.90	Al6S	ATOM	38963	N2 GUA	919	228.811	120.803	-14.264	1.00	57.01	Al
ATOM	38911	O5' CYT	917	233.491	131.890	-22.072	1.00	50.00	Al6S	ATOM	38964	M1 GUA	919	229.436	121.345	-15.380	1.00	57.01	Al
ATOM	38912	C5' CYT	917	232.171	133.002	-21.490	1.00	50.00	Al6S	ATOM	38965	C6 GUA	919	229.139	120.937	-16.506	1.00	57.01	Al
ATOM	38913	C4' CYT	917	233.069	132.964	-19.984	1.00	50.00	Al6S	ATOM	38966	O6 GUA	919	230.386	122.340	-15.017	1.00	57.01	Al
ATOM	38914	O4' CYT	917	231.681	133.081	-19.565	1.00	50.00	Al6S	ATOM	38967	C5 GUA	919	231.213	123.134	-15.804	1.00	57.01	Al
ATOM	38915	C1' CYT	917	231.497	132.390	-18.343	1.00	50.00	Al6S	ATOM	38968	N7 GUA	919	231.899	123.842	-14.946	1.00	57.01	Al
ATOM	38916	N1 CYT	917	230.540	131.297	-18.552	1.00	59.90	Al6S	ATOM	38969	C8 GUA	919	232.895	122.893	-11.683	1.00	44.49	Al
ATOM	38917	C6 CYT	917	230.278	130.817	-19.803	1.00	59.90	Al6S	ATOM	38970	C2' GUA	919	232.507	122.962	-10.332	1.00	44.49	Al
ATOM	38918	C2 CYT	917	229.933	130.717	-17.431	1.00	59.90	Al6S	ATOM	38971	O2' GUA	919	234.377	123.204	-11.872	1.00	44.49	Al
ATOM	38919	O2 CYT	917	230.128	131.217	-16.308	1.00	59.90	Al6S	ATOM	38972	C3' GUA	919	235.083	122.655	-10.767	1.00	44.49	Al
ATOM	38920	N3 CYT	917	229.146	129.632	-17.598	1.00	59.90	Al6S	ATOM	38973	O3' GUA	919						Al

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ATOM	38974	P	URI	920	235.399	121.074	-10.727	1.00	41.54	Al6S	ATOM	39027	N3	GUA	922	240.458	113.676	-11.963	1.00	57.29	Al
ATOM	38975	OLP	URI	920	236.246	120.728	-9.544	1.00	49.88	Al6S	ATOM	39028	C2	GUA	922	241.135	114.679	-11.429	1.00	57.29	Al
ATOM	38976	O2P	URI	920	235.856	120.686	-12.087	1.00	49.88	Al6S	ATOM	39029	N2	GUA	922	242.401	114.498	-11.037	1.00	57.29	Al
ATOM	38977	O5	URI	920	233.978	120.414	-10.456	1.00	41.54	Al6S	ATOM	39030	N1	GUA	922	240.618	115.935	-11.237	1.00	57.29	Al
ATOM	38978	C5	URI	920	233.402	120.454	-9.139	1.00	41.54	Al6S	ATOM	39031	C6	GUA	922	239.328	116.331	-11.569	1.00	57.29	Al
ATOM	38979	C4	URI	920	232.247	119.493	-9.029	1.00	41.54	Al6S	ATOM	39032	O6	GUA	922	238.976	117.497	-11.382	1.00	57.29	Al
ATOM	38980	O4	URI	920	231.164	119.914	-9.900	1.00	41.54	Al6S	ATOM	39033	C5	GUA	922	238.580	115.258	-12.122	1.00	57.29	Al
ATOM	38981	C1	URI	920	230.548	118.777	-10.478	1.00	41.54	Al6S	ATOM	39034	N7	GUA	922	237.265	115.216	-12.568	1.00	57.29	Al
ATOM	38982	N1	URI	920	230.841	118.790	-11.921	1.00	49.88	Al6S	ATOM	39035	C8	GUA	922	237.107	113.994	-12.996	1.00	57.29	Al
ATOM	38983	C6	URI	920	231.761	119.666	-12.450	1.00	49.88	Al6S	ATOM	39036	C2	GUA	922	239.049	110.914	-12.194	1.00	42.30	Al
ATOM	38984	C2	URI	920	230.176	117.884	-12.736	1.00	49.88	Al6S	ATOM	39037	O2	GUA	922	237.873	110.526	-11.321	1.00	42.30	Al
ATOM	38985	O2	URI	920	229.356	117.085	-12.131	1.00	49.88	Al6S	ATOM	39038	C3	GUA	922	237.873	110.526	-11.321	1.00	42.30	Al
ATOM	38986	N3	URI	920	230.518	117.943	-14.061	1.00	49.88	Al6S	ATOM	39039	O3	GUA	922	238.087	109.263	-10.701	1.00	42.30	Al
ATOM	38987	C4	URI	920	231.438	118.780	-14.640	1.00	49.88	Al6S	ATOM	39040	P	ADE	923	238.600	109.199	-9.173	1.00	41.43	Al
ATOM	38988	O4	URI	920	231.713	118.635	-15.824	1.00	49.88	Al6S	ATOM	39041	OLP	ADE	923	238.963	107.797	-8.784	1.00	45.93	Al
ATOM	38989	C5	URI	920	232.071	119.688	-13.740	1.00	49.88	Al6S	ATOM	39042	O2P	ADE	923	237.617	109.954	-8.339	1.00	45.93	Al
ATOM	38990	C2	URI	920	231.159	117.549	-9.800	1.00	41.54	Al6S	ATOM	39043	O5	ADE	923	239.929	110.068	-9.200	1.00	41.43	Al
ATOM	38991	O2	URI	920	230.415	117.244	-8.637	1.00	41.54	Al6S	ATOM	39044	C5	ADE	923	241.182	109.476	-9.512	1.00	41.43	Al
ATOM	38992	C3	URI	920	232.540	118.063	-9.437	1.00	41.54	Al6S	ATOM	39045	C4	ADE	923	242.285	110.305	-8.928	1.00	41.43	Al
ATOM	38993	O3	URI	920	233.113	117.321	-8.384	1.00	41.54	Al6S	ATOM	39046	O4	ADE	923	242.163	111.660	-9.422	1.00	41.43	Al
ATOM	38994	P	GUA	921	233.987	116.025	-8.730	1.00	48.18	Al6S	ATOM	39047	C1	ADE	923	242.620	112.558	-8.436	1.00	41.43	Al
ATOM	38995	OLP	GUA	921	234.132	115.216	-7.480	1.00	53.83	Al6S	ATOM	39048	N9	ADE	923	241.596	113.584	-8.212	1.00	45.93	Al
ATOM	38996	O2P	GUA	921	235.199	116.458	-9.482	1.00	53.83	Al6S	ATOM	39049	C4	ADE	923	241.811	114.828	-7.666	1.00	45.93	Al
ATOM	38997	O5	GUA	921	233.066	115.219	-9.742	1.00	48.18	Al6S	ATOM	39050	N3	ADE	923	242.968	115.329	-7.209	1.00	45.93	Al
ATOM	38998	C5	GUA	921	231.983	114.419	-9.264	1.00	48.18	Al6S	ATOM	39051	C2	ADE	923	242.802	116.574	-6.782	1.00	45.93	Al
ATOM	38999	C4	GUA	921	231.537	113.463	-10.334	1.00	48.18	Al6S	ATOM	39052	N1	ADE	923	241.695	117.319	-6.759	1.00	45.93	Al
ATOM	39000	O4	GUA	921	230.943	114.200	-11.429	1.00	48.18	Al6S	ATOM	39053	C6	ADE	923	240.550	116.787	-7.216	1.00	45.93	Al
ATOM	39001	C1	GUA	921	231.292	113.592	-12.652	1.00	48.18	Al6S	ATOM	39054	N6	ADE	923	239.454	117.532	-7.178	1.00	45.93	Al
ATOM	39002	N9	GUA	921	232.107	114.554	-13.386	1.00	53.83	Al6S	ATOM	39055	C5	ADE	923	240.589	115.472	-7.701	1.00	45.93	Al
ATOM	39003	C4	GUA	921	232.363	114.596	-14.745	1.00	53.83	Al6S	ATOM	39056	N7	ADE	923	239.614	114.645	-8.237	1.00	45.93	Al
ATOM	39004	N3	GUA	921	231.913	113.726	-15.678	1.00	53.83	Al6S	ATOM	39057	C8	ADE	923	240.259	113.537	-8.516	1.00	45.93	Al
ATOM	39005	C2	GUA	921	232.311	114.060	-16.897	1.00	53.83	Al6S	ATOM	39058	C2	ADE	923	243.033	111.744	-7.210	1.00	41.43	Al
ATOM	39006	N2	GUA	921	231.957	113.321	-17.954	1.00	53.83	Al6S	ATOM	39059	O2	ADE	923	244.417	111.538	-7.309	1.00	41.43	Al
ATOM	39007	N1	GUA	921	233.087	115.147	-17.173	1.00	53.83	Al6S	ATOM	39060	C3	ADE	923	242.288	110.437	-7.417	1.00	41.43	Al
ATOM	39008	C6	GUA	921	233.566	116.049	-16.231	1.00	53.83	Al6S	ATOM	39061	O3	ADE	923	243.013	109.348	-6.857	1.00	41.43	Al
ATOM	39009	O6	GUA	921	234.266	117.004	-16.591	1.00	53.83	Al6S	ATOM	39062	P	GUA	924	242.581	108.728	-5.436	1.00	47.91	Al
ATOM	39010	C5	GUA	921	233.149	115.711	-14.928	1.00	53.83	Al6S	ATOM	39063	OLP	GUA	924	243.398	107.507	-5.199	1.00	55.05	Al
ATOM	39011	N7	GUA	921	233.399	116.343	-13.720	1.00	53.83	Al6S	ATOM	39064	O2P	GUA	924	241.098	108.622	-5.402	1.00	55.05	Al
ATOM	39012	C8	GUA	921	232.767	115.622	-12.838	1.00	53.83	Al6S	ATOM	39065	O5	GUA	924	243.067	109.833	-4.395	1.00	47.91	Al
ATOM	39013	C2	GUA	921	232.041	112.302	-12.310	1.00	48.18	Al6S	ATOM	39066	C5	GUA	924	244.466	109.942	-4.053	1.00	47.91	Al
ATOM	39014	O2	GUA	921	231.106	111.255	-12.135	1.00	48.18	Al6S	ATOM	39067	C4	GUA	924	244.731	111.193	-3.257	1.00	47.91	Al
ATOM	39015	C3	GUA	921	232.646	112.646	-10.965	1.00	48.18	Al6S	ATOM	39068	O4	GUA	924	244.468	112.367	-4.065	1.00	47.91	Al
ATOM	39016	O3	GUA	921	232.899	111.474	-10.209	1.00	48.18	Al6S	ATOM	39069	C1	GUA	924	243.969	113.405	-3.247	1.00	47.91	Al
ATOM	39017	P	GUA	922	234.283	111.327	-9.399	1.00	42.30	Al6S	ATOM	39070	N9	GUA	924	242.639	113.771	-3.718	1.00	55.05	Al
ATOM	39018	OLP	GUA	922	234.043	110.392	-8.244	1.00	57.29	Al6S	ATOM	39071	C4	GUA	924	242.028	115.000	-3.579	1.00	55.05	Al
ATOM	39019	O2P	GUA	922	234.838	112.681	-9.144	1.00	57.29	Al6S	ATOM	39072	N3	GUA	924	242.550	116.085	-2.969	1.00	55.05	Al
ATOM	39020	O5	GUA	922	235.248	110.563	-10.402	1.00	42.30	Al6S	ATOM	39073	C2	GUA	924	241.724	117.114	-3.009	1.00	55.05	Al
ATOM	39021	C5	GUA	922	235.424	111.005	-11.746	1.00	42.30	Al6S	ATOM	39074	N2	GUA	924	242.076	118.276	-2.465	1.00	55.05	Al
ATOM	39022	C4	GUA	922	236.709	110.452	-12.302	1.00	42.30	Al6S	ATOM	39075	N1	GUA	924	242.076	118.276	-2.465	1.00	55.05	Al
ATOM	39023	O4	GUA	922	237.068	111.301	-13.421	1.00	42.30	Al6S	ATOM	39076	C6	GUA	924	239.927	115.977	-4.214	1.00	55.05	Al
ATOM	39024	C1	GUA	922	238.373	111.812	-13.235	1.00	42.30	Al6S	ATOM	39077	O6	GUA	924	238.801	116.057	-4.704	1.00	55.05	Al
ATOM	39025	N9	GUA	922	238.235	113.219	-12.854	1.00	57.29	Al6S	ATOM	39078	C5	GUA	924	240.799	114.866	-4.187	1.00	55.05	Al
ATOM	39026	C4	GUA	922	239.193	114.032	-12.283	1.00	57.29	Al6S	ATOM	39079	N7	GUA	924	240.633	113.581	-4.685	1.00	55.05	Al

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ATOM	39080	C8	GUA	924	241.744	112.968	-4.383	1.00	55.05	Al6s	ATOM	39133	O4' URI	927	233.724	116.856	5.915	1.00	60.43	Al
ATOM	39081	C2' GUA	924	243.946	112.892	-1.811	1.00	47.91	Al6s	ATOM	39134	C1' URI	927	232.621	116.313	5.199	1.00	60.43	Al	
ATOM	39082	O2' GUA	924	245.137	113.335	-1.197	1.00	47.91	Al6s	ATOM	39135	N1 URI	927	233.078	115.135	4.431	1.00	52.17	Al	
ATOM	39083	C3' GUA	924	243.877	111.383	-2.021	1.00	47.91	Al6s	ATOM	39136	C6' URI	927	234.182	114.406	4.814	1.00	52.17	Al	
ATOM	39084	O3' GUA	924	244.377	110.617	-0.927	1.00	47.91	Al6s	ATOM	39137	C2' URI	927	232.351	114.768	3.308	1.00	52.17	Al	
ATOM	39085	P' GUA	925	243.340	109.970	0.126	1.00	52.45	Al6s	ATOM	39138	O2' URI	927	231.374	115.378	2.917	1.00	52.17	Al	
ATOM	39086	O1P GUA	925	244.083	109.098	1.086	1.00	58.72	Al6s	ATOM	39139	N3 URI	927	232.891	113.656	2.658	1.00	52.17	Al	
ATOM	39087	O2P GUA	925	242.203	109.386	-0.656	1.00	58.72	Al6s	ATOM	39140	C4 URI	927	233.897	112.884	2.994	1.00	52.17	Al	
ATOM	39088	O5' GUA	925	242.822	111.258	0.924	1.00	52.45	Al6s	ATOM	39141	O4 URI	927	234.166	111.889	2.313	1.00	52.17	Al	
ATOM	39089	C5' GUA	925	243.739	112.055	1.697	1.00	52.45	Al6s	ATOM	39142	C5' URI	927	234.602	113.325	4.152	1.00	52.17	Al	
ATOM	39090	C4' GUA	925	243.198	113.452	1.920	1.00	52.45	Al6s	ATOM	39143	C2' URI	927	231.558	115.940	6.231	1.00	60.43	Al	
ATOM	39091	O4' GUA	925	242.937	114.106	0.652	1.00	52.45	Al6s	ATOM	39144	O2' URI	927	230.689	117.036	6.440	1.00	60.43	Al	
ATOM	39092	C1' GUA	925	241.873	115.037	0.805	1.00	52.45	Al6s	ATOM	39145	C3' URI	927	232.408	115.694	7.462	1.00	60.43	Al	
ATOM	39093	N1 GUA	925	240.772	114.679	-0.105	1.00	58.72	Al6s	ATOM	39146	O3' URI	927	231.624	115.794	8.628	1.00	60.43	Al	
ATOM	39094	C6 GUA	925	240.707	113.444	-0.694	1.00	58.72	Al6s	ATOM	39147	P' GUA	928	231.019	114.458	9.275	1.00	47.58	Al	
ATOM	39095	C2 GUA	925	239.768	115.630	-0.343	1.00	58.72	Al6s	ATOM	39148	O1P GUA	928	230.635	114.769	10.675	1.00	53.95	Al	
ATOM	39096	O2 GUA	925	239.855	116.754	0.202	1.00	58.72	Al6s	ATOM	39149	O2P GUA	928	231.936	113.317	9.006	1.00	53.95	Al	
ATOM	39097	N3 GUA	925	238.731	115.302	-1.151	1.00	58.72	Al6s	ATOM	39150	O5' GUA	928	229.686	114.221	8.439	1.00	47.58	Al	
ATOM	39098	C4 GUA	925	238.671	114.087	-1.706	1.00	58.72	Al6s	ATOM	39151	C5' GUA	928	228.521	115.038	8.670	1.00	47.58	Al	
ATOM	39099	N4 GUA	925	237.622	113.803	-2.477	1.00	58.72	Al6s	ATOM	39152	C4' GUA	928	227.422	114.683	7.699	1.00	47.58	Al	
ATOM	39100	C5 GUA	925	239.684	113.110	-1.490	1.00	58.72	Al6s	ATOM	39153	O4' GUA	928	227.830	115.066	6.359	1.00	47.58	Al	
ATOM	39101	C2' GUA	925	241.392	114.965	2.251	1.00	52.45	Al6s	ATOM	39154	C1' GUA	928	227.297	114.147	5.422	1.00	47.58	Al	
ATOM	39102	O2' GUA	925	241.907	116.058	2.979	1.00	52.45	Al6s	ATOM	39155	N9 GUA	928	228.389	113.408	4.777	1.00	53.95	Al	
ATOM	39103	C3' GUA	925	241.891	113.588	2.675	1.00	52.45	Al6s	ATOM	39156	C4 GUA	928	228.311	112.719	3.579	1.00	53.95	Al	
ATOM	39104	O3' GUA	925	242.056	113.503	4.075	1.00	52.45	Al6s	ATOM	39157	N3 GUA	928	227.241	112.669	2.758	1.00	53.95	Al	
ATOM	39105	P' ADE	926	240.793	113.121	4.986	1.00	48.56	Al6s	ATOM	39158	C2 GUA	928	227.445	111.880	1.722	1.00	53.95	Al	
ATOM	39106	O1P ADE	926	241.262	112.897	6.386	1.00	65.25	Al6s	ATOM	39159	N2 GUA	928	226.484	111.716	0.814	1.00	53.95	Al	
ATOM	39107	O2P ADE	926	240.056	112.029	4.281	1.00	65.25	Al6s	ATOM	39160	N1 GUA	928	228.600	111.190	1.499	1.00	53.95	Al	
ATOM	39108	O5' ADE	926	239.908	114.448	4.944	1.00	48.56	Al6s	ATOM	39161	C6 GUA	928	229.717	111.216	2.320	1.00	53.95	Al	
ATOM	39109	C5' ADE	926	240.344	115.631	5.615	1.00	48.56	Al6s	ATOM	39162	O6 GUA	928	230.706	110.530	2.027	1.00	53.95	Al	
ATOM	39110	C4' ADE	926	239.227	116.640	5.691	1.00	48.56	Al6s	ATOM	39163	C5 GUA	928	229.521	112.077	3.446	1.00	53.95	Al	
ATOM	39111	O4' ADE	926	238.983	117.195	4.376	1.00	48.56	Al6s	ATOM	39164	N7 GUA	928	229.659	113.192	5.259	1.00	53.95	Al	
ATOM	39112	C1' ADE	926	237.595	117.427	4.214	1.00	48.56	Al6s	ATOM	39165	C8 GUA	928	226.407	113.180	6.210	1.00	47.58	Al	
ATOM	39113	N9 ADE	926	237.106	116.468	3.225	1.00	65.25	Al6s	ATOM	39166	C2' GUA	928	226.087	113.180	6.210	1.00	47.58	Al	
ATOM	39114	C4 ADE	926	235.971	116.567	2.460	1.00	65.25	Al6s	ATOM	39167	O2' GUA	928	225.087	113.679	7.578	1.00	47.58	Al	
ATOM	39115	N3 ADE	926	235.083	117.574	2.440	1.00	65.25	Al6s	ATOM	39168	C3' GUA	928	227.054	113.211	7.578	1.00	47.58	Al	
ATOM	39116	C2 ADE	926	234.106	117.312	1.582	1.00	65.25	Al6s	ATOM	39169	O3' GUA	928	226.138	112.745	8.560	1.00	47.58	Al	
ATOM	39117	N1 ADE	926	233.931	116.241	0.800	1.00	65.25	Al6s	ATOM	39170	P' URI	929	225.998	111.155	8.840	1.00	49.16	Al	
ATOM	39118	C6 ADE	926	234.846	115.250	0.849	1.00	65.25	Al6s	ATOM	39171	O1P URI	929	224.930	110.963	9.872	1.00	53.91	Al	
ATOM	39119	N6 ADE	926	235.680	114.175	0.075	1.00	65.25	Al6s	ATOM	39172	O2P URI	929	227.351	110.569	9.074	1.00	53.91	Al	
ATOM	39120	C5 ADE	926	235.923	115.405	1.715	1.00	65.25	Al6s	ATOM	39173	O5' URI	929	225.416	110.563	7.475	1.00	49.16	Al	
ATOM	39121	N7 ADE	926	237.008	114.592	1.997	1.00	65.25	Al6s	ATOM	39174	C5' URI	929	224.086	110.908	7.026	1.00	49.16	Al	
ATOM	39122	C8 ADE	926	237.679	115.265	2.890	1.00	65.25	Al6s	ATOM	39175	C4' URI	929	223.762	110.229	5.710	1.00	49.16	Al	
ATOM	39123	C2' ADE	926	236.925	117.157	5.563	1.00	48.56	Al6s	ATOM	39176	C4' URI	929	224.681	110.670	4.671	1.00	49.16	Al	
ATOM	39124	O2' ADE	926	236.866	118.342	6.335	1.00	48.56	Al6s	ATOM	39177	C1' URI	929	224.869	109.622	3.728	1.00	49.16	Al	
ATOM	39125	C3' ADE	926	237.872	116.138	6.169	1.00	48.56	Al6s	ATOM	39178	N1 URI	929	226.292	109.234	3.679	1.00	53.91	Al	
ATOM	39126	O3' ADE	926	237.747	116.112	7.581	1.00	48.56	Al6s	ATOM	39179	C6 URI	929	227.188	109.601	4.649	1.00	53.91	Al	
ATOM	39127	P' URI	927	236.853	114.968	8.275	1.00	60.43	Al6s	ATOM	39180	C2 URI	929	226.694	108.441	2.626	1.00	53.91	Al	
ATOM	39128	O1P URI	927	236.930	115.178	9.746	1.00	52.17	Al6s	ATOM	39181	O2 URI	929	225.949	108.124	1.720	1.00	53.91	Al	
ATOM	39129	O2P URI	927	237.264	113.653	7.710	1.00	52.17	Al6s	ATOM	39182	N3 URI	929	227.998	108.029	2.669	1.00	53.91	Al	
ATOM	39130	O5' URI	927	235.372	115.307	7.788	1.00	60.43	Al6s	ATOM	39183	C4 URI	929	228.925	108.325	3.623	1.00	53.91	Al	
ATOM	39131	C5' URI	927	234.771	116.582	8.100	1.00	60.43	Al6s	ATOM	39184	O4 URI	929	230.030	107.794	3.572	1.00	53.91	Al	
ATOM	39132	C4' URI	927	233.469	116.776	7.343	1.00	60.43	Al6s	ATOM	39185	C5 URI	929	228.456	109.180	4.657	1.00	53.91	Al	

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ATOM	39186	C2' URI	929	224.012	108.439	4.179	1.00	49.16	Al6s	ATOM	39239	O5' URI	932	225.316	95.818	5.231	1.00	57.14	A
ATOM	39187	O2' URI	929	222.778	108.455	3.493	1.00	49.16	Al6s	ATOM	39240	C5' URI	932	226.172	95.002	4.403	1.00	57.14	A
ATOM	39188	C3' URI	929	223.856	108.715	5.665	1.00	49.16	Al6s	ATOM	39241	C4' URI	932	227.616	95.128	4.836	1.00	57.14	A
ATOM	39189	O3' URI	929	222.706	108.071	6.164	1.00	49.16	Al6s	ATOM	39242	O4' URI	932	228.014	96.520	4.763	1.00	57.14	A
ATOM	39190	P GUA	930	222.760	106.493	6.460	1.00	57.47	Al6s	ATOM	39243	C1' URI	932	228.917	96.818	5.812	1.00	57.14	A
ATOM	39191	O1P GUA	930	221.495	106.044	7.096	1.00	55.37	Al6s	ATOM	39244	N1 URI	932	228.314	97.861	6.662	1.00	61.80	A
ATOM	39192	O2P GUA	930	224.063	106.212	7.124	1.00	55.37	Al6s	ATOM	39245	C6 URI	932	226.976	98.189	6.564	1.00	61.80	A
ATOM	39193	O5' GUA	930	222.824	105.830	5.017	1.00	57.47	Al6s	ATOM	39246	C2 URI	932	229.131	98.510	7.568	1.00	61.80	A
ATOM	39194	C5' GUA	930	221.630	105.842	4.135	1.00	57.47	Al6s	ATOM	39247	O2 URI	932	230.312	98.248	7.696	1.00	61.80	A
ATOM	39195	C4' GUA	930	221.971	104.963	2.949	1.00	57.47	Al6s	ATOM	39248	N3 URI	932	228.510	99.473	8.326	1.00	61.80	A
ATOM	39196	O4' GUA	930	223.161	105.459	2.282	1.00	57.47	Al6s	ATOM	39249	C4 URI	932	227.184	99.844	8.278	1.00	61.80	A
ATOM	39197	C1' GUA	930	223.951	104.371	1.837	1.00	57.47	Al6s	ATOM	39250	O4 URI	932	226.769	100.718	9.044	1.00	61.80	A
ATOM	39198	N9 GUA	930	225.265	104.453	2.475	1.00	55.37	Al6s	ATOM	39251	C5 URI	932	226.404	99.130	7.320	1.00	61.80	A
ATOM	39199	C4 GUA	930	226.401	103.739	2.126	1.00	55.37	Al6s	ATOM	39252	C2' URI	932	229.199	95.514	6.558	1.00	57.14	A
ATOM	39200	N3 GUA	930	226.508	102.852	1.111	1.00	55.37	Al6s	ATOM	39253	O2' URI	932	230.346	94.920	5.995	1.00	57.14	A
ATOM	39201	C2 GUA	930	227.722	102.331	1.034	1.00	55.37	Al6s	ATOM	39254	C3' URI	932	227.942	94.708	6.259	1.00	57.14	A
ATOM	39202	N2 GUA	930	228.007	101.441	0.077	1.00	55.37	Al6s	ATOM	39255	O3' URI	932	228.173	93.305	6.347	1.00	57.14	A
ATOM	39203	N1 GUA	930	228.745	102.647	1.885	1.00	55.37	Al6s	ATOM	39256	P URI	933	227.938	92.542	7.750	1.00	61.35	A
ATOM	39204	C6 GUA	930	228.661	103.554	2.933	1.00	55.37	Al6s	ATOM	39257	O1P URI	933	228.236	91.095	7.536	1.00	62.71	A
ATOM	39205	O6 GUA	930	229.643	103.763	3.636	1.00	55.37	Al6s	ATOM	39258	O2P URI	933	226.618	92.939	8.294	1.00	62.71	A
ATOM	39206	C5 GUA	930	227.368	104.129	3.027	1.00	55.37	Al6s	ATOM	39259	O5' URI	933	229.058	93.162	8.701	1.00	61.35	A
ATOM	39207	N7 GUA	930	226.867	105.079	3.909	1.00	55.37	Al6s	ATOM	39260	C5' URI	933	230.456	92.980	8.410	1.00	61.35	A
ATOM	39208	C8 GUA	930	225.622	105.240	3.544	1.00	55.37	Al6s	ATOM	39261	C4' URI	933	231.307	93.788	9.360	1.00	61.35	A
ATOM	39209	C2' GUA	930	223.202	103.081	2.174	1.00	57.47	Al6s	ATOM	39262	O4' URI	933	231.106	95.209	9.129	1.00	61.35	A
ATOM	39210	O2' GUA	930	222.456	102.625	1.063	1.00	57.47	Al6s	ATOM	39263	C1' URI	933	231.235	95.913	10.356	1.00	61.35	A
ATOM	39211	C3' GUA	930	222.318	103.534	3.324	1.00	57.47	Al6s	ATOM	39264	N1 URI	933	229.969	96.605	10.656	1.00	62.71	A
ATOM	39212	O3' GUA	930	221.175	102.711	3.487	1.00	57.47	Al6s	ATOM	39265	C6 URI	933	228.781	96.246	10.054	1.00	62.71	A
ATOM	39213	P GUA	931	221.163	101.612	4.660	1.00	61.85	Al6s	ATOM	39266	C2 URI	933	230.006	97.640	11.582	1.00	62.71	A
ATOM	39214	O1P GUA	931	219.883	100.851	4.571	1.00	64.62	Al6s	ATOM	39267	O2 URI	933	231.027	97.998	12.141	1.00	62.71	A
ATOM	39215	O2P GUA	931	221.515	102.330	5.915	1.00	64.62	Al6s	ATOM	39268	N3 URI	933	228.798	98.243	11.830	1.00	62.71	A
ATOM	39216	O5' GUA	931	222.356	100.614	4.297	1.00	61.85	Al6s	ATOM	39269	C4 URI	933	227.585	97.935	11.266	1.00	62.71	A
ATOM	39217	C5' GUA	931	222.339	99.868	3.062	1.00	61.85	Al6s	ATOM	39270	O4 URI	933	226.590	98.588	11.586	1.00	62.71	A
ATOM	39218	C4' GUA	931	223.721	99.354	2.715	1.00	61.85	Al6s	ATOM	39271	C5 URI	933	227.621	96.858	10.321	1.00	62.71	A
ATOM	39219	O4' GUA	931	224.643	100.467	2.606	1.00	61.85	Al6s	ATOM	39272	C2' URI	933	231.581	94.890	11.438	1.00	61.35	A
ATOM	39220	C1' GUA	931	225.938	100.050	2.993	1.00	61.85	Al6s	ATOM	39273	O2' URI	933	232.984	94.814	11.588	1.00	61.35	A
ATOM	39221	N9 GUA	931	226.406	100.895	4.083	1.00	64.62	Al6s	ATOM	39274	C3' URI	933	231.016	93.612	10.841	1.00	61.35	A
ATOM	39222	C4 GUA	931	227.689	100.930	4.553	1.00	64.62	Al6s	ATOM	39275	O3' URI	933	231.625	92.463	11.402	1.00	61.35	A
ATOM	39223	N3 GUA	931	228.719	100.210	4.068	1.00	64.62	Al6s	ATOM	39276	P URI	934	230.959	91.775	12.692	1.00	66.03	A
ATOM	39224	C2 GUA	931	229.830	100.440	4.726	1.00	64.62	Al6s	ATOM	39277	O1P URI	934	231.749	90.567	13.045	1.00	66.11	A
ATOM	39225	N2 GUA	931	230.945	99.806	4.360	1.00	64.62	Al6s	ATOM	39278	O2P URI	934	229.495	91.655	12.447	1.00	66.11	A
ATOM	39226	N1 GUA	931	229.928	101.309	5.786	1.00	64.62	Al6s	ATOM	39279	O5' URI	934	231.178	92.848	13.847	1.00	66.03	A
ATOM	39227	C6 GUA	931	228.878	102.063	6.304	1.00	64.62	Al6s	ATOM	39280	C5' URI	934	232.501	93.165	14.318	1.00	66.03	A
ATOM	39228	O6 GUA	931	229.072	102.819	7.265	1.00	64.62	Al6s	ATOM	39281	C4' URI	934	232.448	94.298	15.317	1.00	66.03	A
ATOM	39229	C5 GUA	931	227.675	101.825	5.598	1.00	64.62	Al6s	ATOM	39282	O4' URI	934	231.842	95.466	14.699	1.00	66.03	A
ATOM	39230	N7 GUA	931	226.404	102.356	5.775	1.00	64.62	Al6s	ATOM	39283	C1' URI	934	231.083	96.176	15.661	1.00	66.03	A
ATOM	39231	C8 GUA	931	225.685	101.779	4.851	1.00	64.62	Al6s	ATOM	39284	N1 URI	934	229.678	96.222	15.225	1.00	66.11	A
ATOM	39232	C2' GUA	931	225.864	98.581	3.409	1.00	61.85	Al6s	ATOM	39285	C6 URI	934	229.114	95.205	14.484	1.00	66.11	A
ATOM	39233	O2' GUA	931	226.348	97.774	2.357	1.00	61.85	Al6s	ATOM	39286	C2 URI	934	228.919	97.320	15.616	1.00	66.11	A
ATOM	39234	C3' GUA	931	224.378	98.416	3.711	1.00	61.85	Al6s	ATOM	39287	O2 URI	934	229.382	98.267	16.227	1.00	66.11	A
ATOM	39235	O3' GUA	931	223.946	97.083	3.526	1.00	61.85	Al6s	ATOM	39288	N3 URI	934	227.593	97.267	15.260	1.00	66.11	A
ATOM	39236	P URI	932	223.808	96.115	4.799	1.00	57.14	Al6s	ATOM	39289	C4 URI	934	226.960	96.264	14.560	1.00	66.11	A
ATOM	39237	O1P URI	932	223.212	94.844	4.312	1.00	61.80	Al6s	ATOM	39290	O4 URI	934	225.732	96.299	14.440	1.00	66.11	A
ATOM	39238	O2P URI	932	223.126	96.882	5.882	1.00	61.80	Al6s	ATOM	39291	C5 URI	934	227.818	95.190	14.147	1.00	66.11	A

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ATOM	39292	C2' URI	934	231.244	95.460	17.005	1.00	66.03	Al6S	ATOM	39345	C4' URI	937	227.000	101.768	16.341	1.00	67.40	A
ATOM	39293	O2' URI	934	232.269	96.107	17.731	1.00	66.03	Al6S	ATOM	39346	O4' URI	937	228.337	101.752	16.880	1.00	67.40	A
ATOM	39294	C3' URI	934	231.612	94.045	16.564	1.00	66.03	Al6S	ATOM	39347	C1' URI	937	229.219	102.456	16.034	1.00	67.40	A
ATOM	39295	O3' URI	934	232.355	93.321	17.545	1.00	66.03	Al6S	ATOM	39348	N1' URI	937	230.260	101.488	15.633	1.00	72.70	A
ATOM	39296	P ADE	935	231.613	92.232	18.466	1.00	82.92	Al6S	ATOM	39349	C6' URI	937	231.494	101.496	16.241	1.00	72.70	A
ATOM	39297	O1P ADE	935	232.614	91.774	19.463	1.00	88.11	Al6S	ATOM	39350	O2' URI	937	229.964	100.544	14.650	1.00	72.70	A
ATOM	39298	O2P ADE	935	230.932	91.231	17.604	1.00	88.11	Al6S	ATOM	39351	O2' URI	937	228.895	100.490	14.076	1.00	72.70	A
ATOM	39299	O5' ADE	935	230.505	93.091	19.222	1.00	82.92	Al6S	ATOM	39352	N3' URI	937	230.973	99.656	14.374	1.00	72.70	A
ATOM	39300	C5' ADE	935	229.524	92.471	20.082	1.00	82.92	Al6S	ATOM	39353	C4' URI	937	232.214	99.600	14.960	1.00	72.70	A
ATOM	39301	C4' ADE	935	229.032	93.470	21.104	1.00	82.92	Al6S	ATOM	39354	O4' URI	937	232.976	98.678	14.670	1.00	72.70	A
ATOM	39302	O4' ADE	935	230.082	93.722	22.063	1.00	82.92	Al6S	ATOM	39355	C5' URI	937	232.452	100.607	15.949	1.00	67.40	A
ATOM	39303	C1' ADE	935	230.096	95.089	22.411	1.00	82.92	Al6S	ATOM	39356	C2' URI	937	228.414	103.084	14.890	1.00	67.40	A
ATOM	39304	N9 ADE	935	231.469	95.579	22.251	1.00	88.11	Al6S	ATOM	39357	O2' URI	937	228.789	104.412	14.601	1.00	67.40	A
ATOM	39305	C4 ADE	935	232.050	96.645	22.897	1.00	88.11	Al6S	ATOM	39358	C3' URI	937	226.955	102.903	15.333	1.00	67.40	A
ATOM	39306	N3 ADE	935	231.473	97.487	23.769	1.00	88.11	Al6S	ATOM	39359	O3' URI	937	226.141	104.018	15.787	1.00	67.40	A
ATOM	39307	C2 ADE	935	232.354	98.386	24.214	1.00	88.11	Al6S	ATOM	39360	P URI	938	226.680	105.106	16.859	1.00	67.49	A
ATOM	39308	N1 ADE	935	233.647	98.532	23.908	1.00	88.11	Al6S	ATOM	39361	O1P URI	938	226.857	106.410	16.167	1.00	57.02	A
ATOM	39309	C6 ADE	935	234.200	97.674	23.026	1.00	88.11	Al6S	ATOM	39362	O2P URI	938	227.776	104.565	17.704	1.00	57.02	A
ATOM	39310	N6 ADE	935	233.492	97.825	22.719	1.00	88.11	Al6S	ATOM	39363	O5' URI	938	225.415	105.288	17.803	1.00	67.49	A
ATOM	39311	C5 ADE	935	233.370	96.667	22.480	1.00	88.11	Al6S	ATOM	39364	C5' URI	938	224.774	104.146	18.403	1.00	67.49	A
ATOM	39312	N7 ADE	935	233.612	95.648	21.570	1.00	88.11	Al6S	ATOM	39365	C4' URI	938	223.506	104.574	19.091	1.00	67.49	A
ATOM	39313	C8 ADE	935	232.457	95.041	21.462	1.00	88.11	Al6S	ATOM	39366	O4' URI	938	223.806	105.762	19.871	1.00	67.49	A
ATOM	39314	C2' ADE	935	228.966	95.801	21.654	1.00	82.92	Al6S	ATOM	39367	C1' URI	938	222.692	107.920	19.260	1.00	57.02	A
ATOM	39315	O2' ADE	935	227.881	95.979	22.540	1.00	82.92	Al6S	ATOM	39368	N1' URI	938	223.085	107.920	19.260	1.00	57.02	A
ATOM	39316	C3' ADE	935	228.661	94.822	20.516	1.00	82.92	Al6S	ATOM	39369	C6' URI	938	224.279	108.080	18.650	1.00	57.02	A
ATOM	39317	O3' ADE	935	227.267	94.781	20.174	1.00	82.92	Al6S	ATOM	39370	C2' URI	938	222.184	108.962	19.339	1.00	57.02	A
ATOM	39318	P ADE	936	226.785	95.072	18.661	1.00	63.15	Al6S	ATOM	39371	O2' URI	938	221.124	108.864	19.934	1.00	57.02	A
ATOM	39319	O1P ADE	936	225.473	94.405	18.462	1.00	77.60	Al6S	ATOM	39372	N3' URI	938	222.566	110.120	18.075	1.00	57.02	A
ATOM	39320	O2P ADE	936	227.910	94.764	17.739	1.00	77.60	Al6S	ATOM	39373	C4' URI	938	223.738	110.341	18.716	1.00	57.02	A
ATOM	39321	O5' ADE	936	226.531	96.643	18.664	1.00	63.15	Al6S	ATOM	39374	O4' URI	938	223.937	111.439	17.513	1.00	57.02	A
ATOM	39322	C5' ADE	936	225.636	97.237	19.625	1.00	63.15	Al6S	ATOM	39375	C5' URI	938	224.627	109.922	18.005	1.00	57.02	A
ATOM	39323	C4' ADE	936	226.098	98.628	19.999	1.00	63.15	Al6S	ATOM	39376	C2' URI	938	221.584	105.974	19.054	1.00	67.49	A
ATOM	39324	O4' ADE	936	227.323	98.553	20.762	1.00	63.15	Al6S	ATOM	39377	O2' URI	938	220.661	105.318	19.907	1.00	67.49	A
ATOM	39325	C1' ADE	936	228.122	99.690	20.488	1.00	63.15	Al6S	ATOM	39378	C3' URI	938	222.383	105.027	18.176	1.00	67.49	A
ATOM	39326	N9 ADE	936	229.448	99.233	20.079	1.00	77.60	Al6S	ATOM	39379	O3' URI	938	221.579	103.974	17.687	1.00	67.49	A
ATOM	39327	C4 ADE	936	230.648	99.645	20.607	1.00	77.60	Al6S	ATOM	39380	P CYT	939	220.917	104.116	16.231	1.00	57.20	A
ATOM	39328	N3 ADE	936	230.842	100.537	21.593	1.00	77.60	Al6S	ATOM	39381	O1P CYT	939	220.094	102.904	16.009	1.00	55.73	A
ATOM	39329	C2 ADE	936	232.135	100.676	21.846	1.00	77.60	Al6S	ATOM	39382	O2P CYT	939	222.024	104.434	15.291	1.00	55.73	A
ATOM	39330	N1 ADE	936	233.181	100.078	21.268	1.00	77.60	Al6S	ATOM	39383	O5' CYT	939	219.990	105.417	17.333	1.00	57.20	A
ATOM	39331	C6 ADE	936	232.950	99.186	20.278	1.00	77.60	Al6S	ATOM	39384	C5' CYT	939	218.965	105.500	17.333	1.00	57.20	A
ATOM	39332	N6 ADE	936	233.991	98.578	19.639	1.00	77.60	Al6S	ATOM	39385	C4' CYT	939	218.286	106.856	17.333	1.00	57.20	A
ATOM	39333	C5 ADE	936	231.621	98.946	19.918	1.00	77.60	Al6S	ATOM	39386	O4' CYT	939	219.191	107.923	17.737	1.00	57.20	A
ATOM	39334	N7 ADE	936	231.050	98.110	18.970	1.00	77.60	Al6S	ATOM	39387	C1' CYT	939	218.719	109.164	17.216	1.00	57.20	A
ATOM	39335	C8 ADE	936	229.763	98.315	19.106	1.00	77.60	Al6S	ATOM	39388	N1' CYT	939	219.751	109.781	16.356	1.00	55.73	A
ATOM	39336	C2' ADE	936	227.402	100.549	19.445	1.00	63.15	Al6S	ATOM	39389	C6 CYT	939	220.832	109.069	15.912	1.00	55.73	A
ATOM	39337	O2' ADE	936	226.794	101.658	20.071	1.00	63.15	Al6S	ATOM	39390	C2 CYT	939	219.585	111.134	15.965	1.00	55.73	A
ATOM	39338	C3' ADE	936	226.416	99.552	18.838	1.00	63.15	Al6S	ATOM	39391	O2 CYT	939	218.602	111.770	16.382	1.00	55.73	A
ATOM	39339	O3' ADE	936	225.233	100.181	18.365	1.00	63.15	Al6S	ATOM	39392	N3' CYT	939	220.529	111.699	15.140	1.00	55.73	A
ATOM	39340	P URI	937	224.472	99.586	17.081	1.00	67.40	Al6S	ATOM	39393	C4 CYT	939	221.594	110.983	14.700	1.00	55.73	A
ATOM	39341	O1P URI	937	223.115	100.181	17.134	1.00	72.70	Al6S	ATOM	39394	N4 CYT	939	222.382	111.576	13.880	1.00	55.73	A
ATOM	39342	O2P URI	937	224.624	98.103	17.023	1.00	72.70	Al6S	ATOM	39395	C5 CYT	939	221.732	109.623	15.084	1.00	55.73	A
ATOM	39343	O5' URI	937	225.235	100.218	15.832	1.00	67.40	Al6S	ATOM	39396	C2' CYT	939	217.488	108.857	16.363	1.00	57.20	A
ATOM	39344	C5' URI	937	226.655	100.386	15.845	1.00	67.40	Al6S	ATOM	39397	O2' CYT	939	216.298	109.139	17.081	1.00	57.20	A

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ATOM	39398	C3' CYT	939	217.706	107.382	16.038	1.00	57.20	Al6S	ATOM	39451	O4' ADE	942	214.951	111.940	2.461	1.00	67.25	A
ATOM	39399	O3' CYT	939	216.531	106.728	15.592	1.00	57.20	Al6S	ATOM	39452	C1' ADE	942	215.119	110.579	2.138	1.00	67.25	A
ATOM	39400	P' GUA	940	216.384	106.385	14.024	1.00	55.30	Al6S	ATOM	39453	N9 ADE	942	215.711	109.906	3.258	1.00	56.69	A
ATOM	39401	O1P GUA	940	215.390	105.281	13.927	1.00	52.65	Al6S	ATOM	39454	C4 ADE	942	216.816	109.091	3.251	1.00	56.69	A
ATOM	39402	O2P GUA	940	217.750	106.189	13.455	1.00	52.65	Al6S	ATOM	39455	N3 ADE	942	217.532	108.736	2.169	1.00	56.69	A
ATOM	39403	O5' GUA	940	215.808	107.729	13.390	1.00	55.30	Al6S	ATOM	39456	C2 ADE	942	218.543	107.948	2.520	1.00	56.69	A
ATOM	39404	C5' GUA	940	214.676	108.357	13.966	1.00	55.30	Al6S	ATOM	39457	N1 ADE	942	218.888	107.948	3.793	1.00	56.69	A
ATOM	39405	C4' GUA	940	214.717	109.845	13.744	1.00	55.30	Al6S	ATOM	39458	C6 ADE	942	218.136	107.867	4.795	1.00	56.69	A
ATOM	39406	O4' GUA	940	215.960	110.384	14.260	1.00	55.30	Al6S	ATOM	39459	N6 ADE	942	218.458	107.403	6.004	1.00	56.69	A
ATOM	39407	C1' GUA	940	216.308	111.554	13.535	1.00	55.30	Al6S	ATOM	39460	C5 ADE	942	217.048	108.713	4.560	1.00	56.69	A
ATOM	39408	N9 GUA	940	217.607	111.354	12.890	1.00	52.65	Al6S	ATOM	39461	N7 ADE	942	216.105	109.273	5.408	1.00	56.69	A
ATOM	39409	C4 GUA	940	218.284	112.277	12.119	1.00	52.65	Al6S	ATOM	39462	C8 ADE	942	215.331	109.962	4.603	1.00	56.69	A
ATOM	39410	N3 GUA	940	217.883	113.535	11.857	1.00	52.65	Al6S	ATOM	39463	C2' ADE	942	213.809	110.010	1.586	1.00	67.25	A
ATOM	39411	C2 GUA	940	218.738	114.175	11.080	1.00	52.65	Al6S	ATOM	39464	O2' ADE	942	213.953	109.772	0.207	1.00	67.25	A
ATOM	39412	N2 GUA	940	218.497	115.441	10.739	1.00	52.65	Al6S	ATOM	39465	C3' ADE	942	212.800	111.081	1.984	1.00	67.25	A
ATOM	39413	N1 GUA	940	219.891	113.625	10.583	1.00	52.65	Al6S	ATOM	39466	O3' ADE	942	211.644	111.321	1.159	1.00	67.25	A
ATOM	39414	C6 GUA	940	220.321	112.330	10.826	1.00	52.65	Al6S	ATOM	39467	P' GUA	943	211.739	111.367	-0.463	1.00	42.88	A
ATOM	39415	O6 GUA	940	221.370	111.926	10.313	1.00	52.65	Al6S	ATOM	39468	O1P GUA	943	211.906	109.980	-0.989	1.00	56.90	A
ATOM	39416	C5 GUA	940	219.416	111.629	11.679	1.00	52.65	Al6S	ATOM	39469	O2P GUA	943	210.551	112.147	-0.869	1.00	56.90	A
ATOM	39417	N7 GUA	940	219.382	110.334	12.180	1.00	52.65	Al6S	ATOM	39470	O5' GUA	943	212.984	112.292	-0.837	1.00	42.88	A
ATOM	39418	C8 GUA	940	218.382	110.216	12.896	1.00	52.65	Al6S	ATOM	39471	C5' GUA	943	214.111	111.766	-1.567	1.00	42.88	A
ATOM	39419	C2' GUA	940	215.205	111.780	12.498	1.00	55.30	Al6S	ATOM	39472	C4' GUA	943	214.310	112.496	-2.875	1.00	42.88	A
ATOM	39420	O2' GUA	940	214.216	112.645	13.030	1.00	55.30	Al6S	ATOM	39473	O4' GUA	943	213.350	112.043	-3.864	1.00	42.88	A
ATOM	39421	C3' GUA	940	214.666	110.370	12.319	1.00	55.30	Al6S	ATOM	39474	C1' GUA	943	213.187	113.054	-4.853	1.00	42.88	A
ATOM	39422	O3' GUA	940	213.358	110.396	11.767	1.00	55.30	Al6S	ATOM	39475	N9 GUA	943	211.769	113.329	-5.076	1.00	56.90	A
ATOM	39423	P' ADE	941	213.141	110.002	10.220	1.00	58.04	Al6S	ATOM	39476	C4 GUA	943	211.268	114.151	-6.060	1.00	56.90	A
ATOM	39424	O1P ADE	941	211.676	109.950	9.968	1.00	52.20	Al6S	ATOM	39477	N3 GUA	943	211.999	114.819	-6.979	1.00	56.90	A
ATOM	39425	O2P ADE	941	213.977	108.802	9.926	1.00	52.20	Al6S	ATOM	39478	C2 GUA	943	211.242	115.549	-7.779	1.00	56.90	A
ATOM	39426	O5' ADE	941	213.729	111.245	9.419	1.00	58.04	Al6S	ATOM	39479	N2 GUA	943	211.813	116.285	-8.748	1.00	56.90	A
ATOM	39427	C5' ADE	941	213.220	112.577	9.619	1.00	58.04	Al6S	ATOM	39480	N1 GUA	943	209.876	115.614	-7.685	1.00	56.90	A
ATOM	39428	C4' ADE	941	214.035	113.566	8.813	1.00	58.04	Al6S	ATOM	39481	C6 GUA	943	209.105	114.935	-6.748	1.00	56.90	A
ATOM	39429	O4' ADE	941	215.394	113.571	9.320	1.00	58.04	Al6S	ATOM	39482	O6 GUA	943	207.880	115.072	-6.749	1.00	56.90	A
ATOM	39430	C1' ADE	941	216.313	113.667	8.245	1.00	58.04	Al6S	ATOM	39483	C5 GUA	943	209.906	114.150	-5.882	1.00	56.90	A
ATOM	39431	N9 ADE	941	217.142	112.455	8.254	1.00	52.20	Al6S	ATOM	39484	N7 GUA	943	210.686	112.867	-4.814	1.00	56.90	A
ATOM	39432	C4 ADE	941	218.270	112.223	7.507	1.00	52.20	Al6S	ATOM	39485	C8 GUA	943	209.550	113.338	-4.814	1.00	56.90	A
ATOM	39433	N3 ADE	941	218.848	113.056	6.621	1.00	52.20	Al6S	ATOM	39486	C2' GUA	943	213.919	114.306	-4.374	1.00	42.88	A
ATOM	39434	C2 ADE	941	219.926	112.486	6.080	1.00	52.20	Al6S	ATOM	39487	O2' GUA	943	215.101	114.464	-5.127	1.00	42.88	A
ATOM	39435	N1 ADE	941	220.453	111.262	6.310	1.00	52.20	Al6S	ATOM	39488	C3' GUA	943	214.131	114.003	-2.889	1.00	42.88	A
ATOM	39436	C6 ADE	941	219.841	110.452	7.206	1.00	52.20	Al6S	ATOM	39489	O3' GUA	943	215.215	114.738	-2.352	1.00	42.88	A
ATOM	39437	N6 ADE	941	220.351	109.241	7.430	1.00	52.20	Al6S	ATOM	39490	P' GUA	944	214.927	116.180	-1.705	1.00	38.22	A
ATOM	39438	C5 ADE	941	218.692	110.942	7.848	1.00	52.20	Al6S	ATOM	39491	O1P GUA	944	216.191	116.663	-1.081	1.00	58.55	A
ATOM	39439	N7 ADE	941	217.852	110.383	8.797	1.00	52.20	Al6S	ATOM	39492	O2P GUA	944	213.696	116.039	-0.880	1.00	58.55	A
ATOM	39440	C8 ADE	941	216.955	111.314	9.005	1.00	52.20	Al6S	ATOM	39493	O5' GUA	944	214.557	117.125	-2.931	1.00	38.22	A
ATOM	39441	C2' ADE	941	215.505	113.870	6.957	1.00	58.04	Al6S	ATOM	39494	C5' GUA	944	215.550	117.496	-3.892	1.00	38.22	A
ATOM	39442	O2' ADE	941	215.418	115.254	6.660	1.00	58.04	Al6S	ATOM	39495	C4' GUA	944	214.953	118.399	-4.934	1.00	38.22	A
ATOM	39443	C3' ADE	941	214.165	113.239	7.330	1.00	58.04	Al6S	ATOM	39496	O4' GUA	944	213.919	117.678	-5.632	1.00	38.22	A
ATOM	39444	O3' ADE	941	213.067	113.765	6.579	1.00	58.04	Al6S	ATOM	39497	C1' GUA	944	212.854	118.553	-5.958	1.00	38.22	A
ATOM	39445	P' ADE	942	212.133	112.771	5.723	1.00	67.25	Al6S	ATOM	39498	N1 GUA	944	211.627	118.017	-5.343	1.00	58.55	A
ATOM	39446	O1P ADE	942	210.964	113.550	5.215	1.00	56.69	Al6S	ATOM	39499	C6 GUA	944	211.704	117.174	-4.266	1.00	58.55	A
ATOM	39447	O2P ADE	942	211.906	111.528	6.517	1.00	56.69	Al6S	ATOM	39500	C2' GUA	944	210.384	118.381	-5.867	1.00	58.55	A
ATOM	39448	O5' ADE	942	213.065	112.387	4.485	1.00	67.25	Al6S	ATOM	39501	O2' GUA	944	210.334	119.142	-6.848	1.00	58.55	A
ATOM	39449	C5' ADE	942	213.109	113.200	3.287	1.00	67.25	Al6S	ATOM	39502	N3 GUA	944	209.260	117.893	-5.283	1.00	58.55	A
ATOM	39450	C4' ADE	942	213.607	112.359	2.142	1.00	67.25	Al6S	ATOM	39503	C4' GUA	944	209.357	117.076	-4.222	1.00	58.55	A

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ATOM	39504	N4	CYT	944	208.235	116.622	-3.669	1.00	58.55	Al6s	ATOM	39557	O5	CYT	947	220.758	116.900	2.820	1.00	44.03	Al
ATOM	39505	C5	CYT	944	210.608	116.689	-3.681	1.00	58.55	Al6s	ATOM	39558	O5	CYT	947	221.191	116.455	4.116	1.00	44.03	Al
ATOM	39506	C2	CYT	944	213.242	119.958	-5.485	1.00	38.22	Al6s	ATOM	39559	C4	CYT	947	222.247	115.388	3.988	1.00	44.03	Al
ATOM	39507	O2	CYT	944	213.750	120.674	-6.589	1.00	38.22	Al6s	ATOM	39560	O4	CYT	947	221.676	114.231	3.324	1.00	44.03	Al
ATOM	39508	C3	CYT	944	214.291	119.662	-4.412	1.00	38.22	Al6s	ATOM	39561	C1	CYT	947	222.673	113.593	2.541	1.00	44.03	Al
ATOM	39509	O3	CYT	944	215.281	120.691	-4.303	1.00	38.22	Al6s	ATOM	39562	N1	CYT	947	222.257	113.614	1.123	1.00	64.12	Al
ATOM	39510	P	ADE	945	215.123	121.861	-3.211	1.00	63.24	Al6s	ATOM	39563	C6	CYT	947	221.466	114.616	0.631	1.00	64.12	Al
ATOM	39511	O1P	ADE	945	213.965	122.683	-3.657	1.00	58.97	Al6s	ATOM	39564	C2	CYT	947	222.705	112.536	0.280	1.00	64.12	Al
ATOM	39512	O2P	ADE	945	216.450	122.507	-3.014	1.00	58.97	Al6s	ATOM	39565	O2	CYT	947	223.407	111.689	0.754	1.00	64.12	Al
ATOM	39513	O5	ADE	945	214.735	121.087	-1.870	1.00	63.24	Al6s	ATOM	39566	N3	CYT	947	222.367	112.624	-1.029	1.00	64.12	Al
ATOM	39514	C5	ADE	945	214.765	121.747	-0.582	1.00	63.24	Al6s	ATOM	39567	C4	CYT	947	221.613	113.615	-1.503	1.00	64.12	Al
ATOM	39515	C4	ADE	945	213.716	121.158	0.337	1.00	63.24	Al6s	ATOM	39568	N4	CYT	947	221.328	113.613	-2.809	1.00	64.12	Al
ATOM	39516	O4	ADE	945	212.409	121.506	-0.170	1.00	63.24	Al6s	ATOM	39569	C5	CYT	947	221.124	114.655	-0.664	1.00	64.12	Al
ATOM	39517	C1	ADE	945	211.648	120.336	-0.384	1.00	63.24	Al6s	ATOM	39570	C2	CYT	947	223.980	114.356	2.754	1.00	44.03	Al
ATOM	39518	N9	ADE	945	210.876	120.531	-1.609	1.00	58.97	Al6s	ATOM	39571	O2	CYT	947	224.702	113.746	3.796	1.00	44.03	Al
ATOM	39519	C4	ADE	945	209.598	120.089	-1.855	1.00	58.97	Al6s	ATOM	39572	C3	CYT	947	223.470	115.730	3.152	1.00	44.03	Al
ATOM	39520	N3	ADE	945	208.817	119.355	-1.046	1.00	58.97	Al6s	ATOM	39573	O3	CYT	947	224.446	116.493	3.848	1.00	44.03	Al
ATOM	39521	C2	ADE	945	207.628	119.161	-1.600	1.00	58.97	Al6s	ATOM	39574	P	GU	948	224.949	117.830	3.217	1.00	49.62	Al
ATOM	39522	N1	ADE	945	207.171	119.579	-2.783	1.00	58.97	Al6s	ATOM	39575	O1P	GU	948	224.033	118.963	3.686	1.00	75.98	Al
ATOM	39523	C6	ADE	945	207.989	120.302	-3.576	1.00	58.97	Al6s	ATOM	39576	O2P	GU	948	225.147	117.686	1.758	1.00	75.98	Al
ATOM	39524	N6	ADE	945	207.547	120.706	-4.767	1.00	58.97	Al6s	ATOM	39577	O5	GU	948	226.386	118.107	3.876	1.00	49.62	Al
ATOM	39525	C5	ADE	945	209.265	120.585	-3.103	1.00	58.97	Al6s	ATOM	39578	C5	GU	948	226.563	118.060	5.311	1.00	49.62	Al
ATOM	39526	N7	ADE	945	210.320	121.303	-3.650	1.00	58.97	Al6s	ATOM	39579	C4	GU	948	227.132	119.367	5.824	1.00	49.62	Al
ATOM	39527	C8	ADE	945	211.254	121.231	-2.734	1.00	58.97	Al6s	ATOM	39580	O4	GU	948	228.581	119.320	5.419	1.00	49.62	Al
ATOM	39528	C2	ADE	945	212.629	119.170	-0.442	1.00	63.24	Al6s	ATOM	39581	C1	GU	948	229.085	120.546	5.419	1.00	49.62	Al
ATOM	39529	O2	ADE	945	211.998	117.992	0.020	1.00	63.24	Al6s	ATOM	39582	N9	GU	948	230.467	120.374	4.993	1.00	75.98	Al
ATOM	39530	C3	ADE	945	213.730	119.639	0.505	1.00	63.24	Al6s	ATOM	39583	C4	GU	948	231.546	120.332	5.829	1.00	75.98	Al
ATOM	39531	O3	ADE	945	213.345	119.300	1.834	1.00	63.24	Al6s	ATOM	39584	N3	GU	948	231.501	120.405	7.171	1.00	75.98	Al
ATOM	39532	P	ADE	946	214.462	119.127	2.972	1.00	45.78	Al6s	ATOM	39585	C2	GU	948	232.700	120.355	7.706	1.00	75.98	Al
ATOM	39533	O1P	ADE	946	213.886	118.303	4.066	1.00	48.69	Al6s	ATOM	39586	N2	GU	948	232.836	120.408	9.034	1.00	75.98	Al
ATOM	39534	O2P	ADE	946	214.990	120.486	3.271	1.00	48.69	Al6s	ATOM	39587	N1	GU	948	233.854	120.250	6.983	1.00	75.98	Al
ATOM	39535	O5	ADE	946	215.588	118.246	2.274	1.00	45.78	Al6s	ATOM	39588	C6	GU	948	233.928	120.180	5.600	1.00	75.98	Al
ATOM	39536	C5	ADE	946	215.440	116.821	2.166	1.00	45.78	Al6s	ATOM	39589	O6	GU	948	235.033	120.103	5.043	1.00	75.98	Al
ATOM	39537	C4	ADE	946	216.304	116.130	3.191	1.00	45.78	Al6s	ATOM	39590	C5	GU	948	232.642	120.219	5.011	1.00	75.98	Al
ATOM	39538	O4	ADE	946	216.001	114.713	3.169	1.00	45.78	Al6s	ATOM	39591	N7	GU	948	232.257	120.166	3.679	1.00	75.98	Al
ATOM	39539	C1	ADE	946	217.197	113.964	3.313	1.00	45.78	Al6s	ATOM	39592	C8	GU	948	230.957	120.254	3.717	1.00	75.98	Al
ATOM	39540	N9	ADE	946	217.468	113.329	2.025	1.00	48.69	Al6s	ATOM	39593	C2	GU	948	228.086	121.006	4.370	1.00	49.62	Al
ATOM	39541	C4	ADE	946	218.367	112.325	1.775	1.00	48.69	Al6s	ATOM	39594	O2	GU	948	228.250	122.385	4.108	1.00	49.62	Al
ATOM	39542	N3	ADE	946	219.155	111.697	2.662	1.00	48.69	Al6s	ATOM	39595	C3	GU	948	226.772	120.638	5.056	1.00	49.62	Al
ATOM	39543	C2	ADE	946	219.917	110.798	2.048	1.00	48.69	Al6s	ATOM	39596	O3	GU	948	226.433	121.676	5.959	1.00	49.62	Al
ATOM	39544	N1	ADE	946	219.972	110.483	0.748	1.00	48.69	Al6s	ATOM	39597	P	CYT	949	225.209	122.659	5.619	1.00	57.90	Al
ATOM	39545	C6	ADE	946	219.163	111.138	-0.110	1.00	48.69	Al6s	ATOM	39598	O1P	CYT	949	224.921	122.614	4.148	1.00	45.65	Al
ATOM	39546	N6	ADE	946	219.213	110.833	-1.405	1.00	48.69	Al6s	ATOM	39599	O2P	CYT	949	225.483	123.962	6.247	1.00	45.65	Al
ATOM	39547	C5	ADE	946	218.314	112.106	0.412	1.00	48.69	Al6s	ATOM	39600	O5	CYT	949	224.024	122.016	6.450	1.00	57.90	Al
ATOM	39548	N7	ADE	946	217.384	112.942	-0.186	1.00	48.69	Al6s	ATOM	39601	C5	CYT	949	223.689	120.629	6.350	1.00	57.90	Al
ATOM	39549	C8	ADE	946	216.905	113.640	0.810	1.00	48.69	Al6s	ATOM	39602	C4	CYT	949	222.298	120.424	6.880	1.00	57.90	Al
ATOM	39550	C2	ADE	946	218.314	114.954	3.641	1.00	45.78	Al6s	ATOM	39603	O4	CYT	949	221.715	119.236	6.307	1.00	57.90	Al
ATOM	39551	O2	ADE	946	218.431	115.019	5.043	1.00	45.78	Al6s	ATOM	39604	C1	CYT	949	220.844	118.641	7.249	1.00	57.90	Al
ATOM	39552	C3	ADE	946	217.804	116.210	2.950	1.00	45.78	Al6s	ATOM	39605	N1	CYT	949	221.426	117.364	7.669	1.00	45.65	Al
ATOM	39553	O3	ADE	946	218.390	117.405	3.454	1.00	45.78	Al6s	ATOM	39606	C6	CYT	949	222.754	117.103	7.501	1.00	45.65	Al
ATOM	39554	P	CYT	947	219.662	118.049	2.697	1.00	44.03	Al6s	ATOM	39607	C2	CYT	949	220.602	116.438	8.275	1.00	45.65	Al
ATOM	39555	O1P	CYT	947	220.127	119.197	3.528	1.00	64.12	Al6s	ATOM	39608	O2	CYT	949	219.395	116.695	8.369	1.00	45.65	Al
ATOM	39556	O2P	CYT	947	219.341	118.281	1.248	1.00	64.12	Al6s	ATOM	39609	N3	CYT	949	221.127	115.281	8.743	1.00	45.65	Al

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ATOM	39610	C4	CYT	949	222.429	115.039	8.593	1.00	45.65	Al6S	ATOM	39663	OlP	ADE	952	226.568	123.606	12.589	1.00	66.50	Al
ATOM	39611	N4	CYT	949	222.914	113.886	9.068	1.00	45.65	Al6S	ATOM	39664	O2P	ADE	952	228.871	122.465	12.808	1.00	66.50	Al
ATOM	39612	C5	CYT	949	223.294	115.967	7.946	1.00	45.65	Al6S	ATOM	39665	O5	ADE	952	227.943	123.889	14.632	1.00	57.54	Al
ATOM	39613	C2	CYT	949	220.780	119.567	8.459	1.00	57.90	Al6S	ATOM	39666	C5	ADE	952	228.141	125.306	14.426	1.00	57.54	Al
ATOM	39614	O2	CYT	949	219.732	120.502	8.303	1.00	57.90	Al6S	ATOM	39667	C4	ADE	952	227.759	126.071	15.675	1.00	57.54	Al
ATOM	39615	C3	CYT	949	222.139	120.235	8.380	1.00	57.90	Al6S	ATOM	39668	O4	ADE	952	227.881	127.484	15.416	1.00	57.54	Al
ATOM	39616	O3	CYT	949	222.186	121.429	9.140	1.00	57.90	Al6S	ATOM	39669	C1	ADE	952	226.647	128.129	15.599	1.00	57.54	Al
ATOM	39617	P	GUA	950	222.763	121.383	10.643	1.00	48.78	Al6S	ATOM	39670	N9	ADE	952	226.232	128.583	14.279	1.00	66.50	Al
ATOM	39618	OlP	GUA	950	223.116	122.793	10.963	1.00	41.21	Al6S	ATOM	39671	C4	ADE	952	226.011	129.883	13.920	1.00	66.50	Al
ATOM	39619	O2P	GUA	950	223.781	120.319	10.815	1.00	41.21	Al6S	ATOM	39672	N3	ADE	952	226.056	130.956	14.720	1.00	66.50	Al
ATOM	39620	O5	GUA	950	221.515	120.909	11.507	1.00	48.78	Al6S	ATOM	39673	C1	ADE	952	225.840	132.065	14.017	1.00	66.50	Al
ATOM	39621	C5	GUA	950	219.542	121.257	12.848	1.00	48.78	Al6S	ATOM	39674	N1	ADE	952	225.598	132.207	12.698	1.00	66.50	Al
ATOM	39622	O4	GUA	950	218.967	119.974	12.490	1.00	48.78	Al6S	ATOM	39675	C6	ADE	952	225.549	131.099	11.926	1.00	66.50	Al
ATOM	39623	C4	GUA	950	219.002	119.104	13.604	1.00	48.78	Al6S	ATOM	39676	N6	ADE	952	225.298	131.237	10.625	1.00	66.50	Al
ATOM	39624	C1	GUA	950	219.962	118.041	13.315	1.00	41.21	Al6S	ATOM	39677	C5	ADE	952	225.766	129.863	12.551	1.00	66.50	Al
ATOM	39625	N9	GUA	950	219.911	116.729	13.748	1.00	41.21	Al6S	ATOM	39678	N7	ADE	952	226.054	127.840	13.128	1.00	66.50	Al
ATOM	39626	C4	GUA	950	219.944	116.175	14.510	1.00	41.21	Al6S	ATOM	39679	C8	ADE	952	225.714	127.190	16.361	1.00	57.54	Al
ATOM	39627	N3	GUA	950	219.177	114.893	14.744	1.00	41.21	Al6S	ATOM	39680	C2	ADE	952	225.645	127.531	17.718	1.00	57.54	Al
ATOM	39628	C2	GUA	950	218.324	114.178	15.477	1.00	41.21	Al6S	ATOM	39681	O2	ADE	952	226.319	125.817	16.073	1.00	57.54	Al
ATOM	39629	N2	GUA	950	220.264	114.217	14.272	1.00	41.21	Al6S	ATOM	39682	C3	ADE	952	226.261	124.807	17.109	1.00	57.54	Al
ATOM	39630	N1	GUA	950	221.260	114.764	13.480	1.00	41.21	Al6S	ATOM	39683	O3	ADE	952	226.967	125.056	18.548	1.00	49.71	Al
ATOM	39631	C6	GUA	950	222.181	114.059	13.090	1.00	41.21	Al6S	ATOM	39684	P	GUA	953	225.907	124.974	19.576	1.00	49.71	Al
ATOM	39632	O6	GUA	950	221.034	116.129	13.224	1.00	41.21	Al6S	ATOM	39685	OlP	GUA	953	227.992	126.280	18.457	1.00	84.52	Al
ATOM	39633	C5	GUA	950	221.777	117.035	12.477	1.00	41.21	Al6S	ATOM	39686	O2P	GUA	953	227.958	123.815	18.739	1.00	49.71	Al
ATOM	39634	N7	GUA	950	221.107	118.152	12.559	1.00	41.21	Al6S	ATOM	39687	O5	GUA	953	228.439	123.084	17.558	1.00	49.71	Al
ATOM	39635	C8	GUA	950	219.447	119.933	14.802	1.00	48.78	Al6S	ATOM	39688	C5	GUA	953	229.850	122.566	17.814	1.00	49.71	Al
ATOM	39636	C2	GUA	950	218.291	120.481	15.400	1.00	48.78	Al6S	ATOM	39689	C4	GUA	953	230.916	123.379	17.252	1.00	49.71	Al
ATOM	39637	O2	GUA	950	220.316	120.990	14.131	1.00	48.78	Al6S	ATOM	39690	O1	GUA	953	232.080	123.167	18.026	1.00	49.71	Al
ATOM	39638	C3	GUA	950	221.311	122.121	16.308	1.00	64.49	Al6S	ATOM	39691	C1	GUA	953	232.983	124.306	17.870	1.00	84.52	Al
ATOM	39639	O3	GUA	950	221.422	120.686	16.748	1.00	43.27	Al6S	ATOM	39692	N9	GUA	953	234.105	124.338	17.078	1.00	84.52	Al
ATOM	39640	P	ADE	951	220.641	123.111	17.187	1.00	43.27	Al6S	ATOM	39693	C4	GUA	953	235.572	123.317	16.328	1.00	84.52	Al
ATOM	39641	OlP	ADE	951	222.769	122.690	16.011	1.00	64.49	Al6S	ATOM	39694	N3	GUA	953	236.668	123.647	15.673	1.00	84.52	Al
ATOM	39642	O2P	ADE	951	223.470	122.341	14.820	1.00	64.49	Al6S	ATOM	39695	C2	GUA	953	236.258	124.887	15.739	1.00	84.52	Al
ATOM	39643	O5	ADE	951	224.820	121.767	15.152	1.00	64.49	Al6S	ATOM	39696	N1	GUA	953	235.797	125.955	16.502	1.00	84.52	Al
ATOM	39645	C4	ADE	951	224.667	120.594	15.995	1.00	64.49	Al6S	ATOM	39697	C6	GUA	953	236.405	127.033	16.487	1.00	84.52	Al
ATOM	39646	O4	ADE	951	225.221	119.459	15.356	1.00	64.49	Al6S	ATOM	39698	O6	GUA	953	234.622	125.610	17.221	1.00	84.52	Al
ATOM	39647	C1	ADE	951	224.363	118.305	15.643	1.00	43.27	Al6S	ATOM	39700	C5	GUA	953	233.849	126.359	18.098	1.00	84.52	Al
ATOM	39648	N9	ADE	951	224.690	116.967	15.564	1.00	43.27	Al6S	ATOM	39701	N7	GUA	953	231.564	122.927	19.445	1.00	49.71	Al
ATOM	39649	C4	ADE	951	225.859	116.427	15.250	1.00	43.27	Al6S	ATOM	39702	C8	GUA	953	230.304	122.092	19.184	1.00	49.71	Al
ATOM	39650	N3	ADE	951	225.811	115.092	15.633	1.00	43.27	Al6S	ATOM	39703	O2	GUA	953	229.661	120.737	19.069	1.00	49.71	Al
ATOM	39651	C2	ADE	951	223.640	114.869	16.017	1.00	43.27	Al6S	ATOM	39704	C2	GUA	954	229.778	119.636	19.805	1.00	61.56	Al
ATOM	39652	N1	ADE	951	222.561	116.275	15.979	1.00	43.27	Al6S	ATOM	39705	C3	GUA	954	228.391	119.788	19.296	1.00	84.84	Al
ATOM	39653	C6	ADE	951	223.532	117.154	16.291	1.00	43.27	Al6S	ATOM	39706	O3	GUA	954	230.039	119.722	21.268	1.00	84.84	Al
ATOM	39654	N6	ADE	951	223.055	118.341	16.074	1.00	43.27	Al6S	ATOM	39707	P	ADE	954	230.378	118.274	19.257	1.00	61.56	Al
ATOM	39655	C5	ADE	951	225.316	119.809	13.872	1.00	64.49	Al6S	ATOM	39708	OlP	ADE	954	231.769	118.006	19.370	1.00	61.56	Al
ATOM	39656	N7	ADE	951	226.324	119.053	13.222	1.00	64.49	Al6S	ATOM	39709	O2P	ADE	954	231.963	116.766	20.175	1.00	61.56	Al
ATOM	39657	C8	ADE	951	225.585	121.314	13.922	1.00	64.49	Al6S	ATOM	39710	O5	ADE	954	231.181	115.710	19.581	1.00	61.56	Al
ATOM	39658	C2	ADE	951	226.958	121.614	14.121	1.00	64.49	Al6S	ATOM	39711	C4	ADE	954	231.810	114.475	19.828	1.00	61.56	Al
ATOM	39659	O2	ADE	951	227.595	122.916	13.423	1.00	57.54	Al6S	ATOM	39712	C5	ADE	954	231.802	113.677	18.597	1.00	84.84	Al
ATOM	39660	C3	ADE	951						Al6S	ATOM	39713	O4	ADE	954						Al
ATOM	39661	O3	ADE	951						Al6S	ATOM	39714	C1	ADE	954						Al
ATOM	39662	P	ADE	952						Al6S	ATOM	39715	N9	ADE	954						Al

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ATOM	39716	C4	ADE	954	232.838	113.426	17.723	1.00	84.84	Al6s	ATOM	39769	C3	CYT	956	234.429	111.842	28.758	1.00	84.03	A
ATOM	39717	N3	ADE	954	234.103	113.875	17.796	1.00	84.84	Al6s	ATOM	39770	C3	CYT	956	233.421	110.882	29.037	1.00	84.03	A
ATOM	39718	C2	ADE	954	234.824	113.423	16.774	1.00	84.84	Al6s	ATOM	39771	P	CYT	957	231.923	111.138	28.497	1.00	71.94	A
ATOM	39719	N1	ADE	954	234.458	112.633	15.763	1.00	84.84	Al6s	ATOM	39772	O1P	CYT	957	230.038	110.203	29.286	1.00	64.21	A
ATOM	39720	C6	ADE	954	233.182	112.197	15.716	1.00	84.84	Al6s	ATOM	39773	O2P	CYT	957	231.951	111.043	27.012	1.00	64.21	A
ATOM	39721	N6	ADE	954	232.814	111.408	14.705	1.00	84.84	Al6s	ATOM	39774	O5	CYT	957	231.634	112.674	28.853	1.00	71.94	A
ATOM	39722	C5	ADE	954	232.311	112.607	16.743	1.00	84.84	Al6s	ATOM	39775	C5	CYT	957	231.702	113.132	30.219	1.00	71.94	A
ATOM	39723	N7	ADE	954	230.970	112.351	16.985	1.00	84.84	Al6s	ATOM	39776	C4	CYT	957	231.385	114.610	30.332	1.00	71.94	A
ATOM	39724	C8	ADE	954	230.718	113.008	18.089	1.00	84.84	Al6s	ATOM	39777	O4	CYT	957	232.436	115.418	29.749	1.00	71.94	A
ATOM	39725	C2	ADE	954	233.155	114.742	20.517	1.00	61.56	Al6s	ATOM	39778	C1	CYT	957	231.883	116.625	29.245	1.00	71.94	A
ATOM	39726	O2	ADE	954	233.028	114.471	21.897	1.00	61.56	Al6s	ATOM	39779	N1	CYT	957	232.182	116.701	27.808	1.00	64.21	A
ATOM	39727	C3	ADE	954	233.379	116.229	20.245	1.00	61.56	Al6s	ATOM	39780	C6	CYT	957	232.359	115.556	27.083	1.00	64.21	A
ATOM	39728	O3	ADE	954	234.060	116.884	21.322	1.00	61.56	Al6s	ATOM	39781	C2	CYT	957	232.305	117.967	27.185	1.00	64.21	A
ATOM	39729	P	ADE	955	235.664	116.782	21.469	1.00	53.05	Al6s	ATOM	39782	O2	CYT	957	232.101	119.005	27.843	1.00	64.21	A
ATOM	39730	O1P	ADE	955	236.054	117.847	22.425	1.00	67.65	Al6s	ATOM	39783	N3	CYT	957	232.642	118.019	25.877	1.00	64.21	A
ATOM	39731	O2P	ADE	955	236.274	116.751	20.115	1.00	67.65	Al6s	ATOM	39784	C4	CYT	957	232.841	116.886	25.193	1.00	64.21	A
ATOM	39732	O5	ADE	955	235.912	115.381	22.184	1.00	53.05	Al6s	ATOM	39785	N4	CYT	957	233.203	116.984	23.917	1.00	64.21	A
ATOM	39733	C5	ADE	955	236.040	114.176	21.421	1.00	53.05	Al6s	ATOM	39786	C5	CYT	957	232.686	115.602	25.791	1.00	64.21	A
ATOM	39734	C4	ADE	955	236.963	113.225	22.123	1.00	53.05	Al6s	ATOM	39787	C2	CYT	957	230.388	116.614	29.551	1.00	71.94	A
ATOM	39735	O4	ADE	955	238.278	113.821	22.176	1.00	53.05	Al6s	ATOM	39788	O2	CYT	957	230.191	117.334	30.753	1.00	71.94	A
ATOM	39736	C1	ADE	955	238.905	113.496	23.404	1.00	53.05	Al6s	ATOM	39789	C3	CYT	957	230.109	115.120	29.692	1.00	71.94	A
ATOM	39737	N9	ADE	955	239.330	114.742	24.044	1.00	67.65	Al6s	ATOM	39790	O3	CYT	957	228.986	114.870	30.517	1.00	71.94	A
ATOM	39738	C4	ADE	955	240.489	114.933	24.758	1.00	67.65	Al6s	ATOM	39791	P	CYT	958	227.677	114.188	29.887	1.00	76.14	A
ATOM	39739	N3	ADE	955	241.437	114.022	25.035	1.00	67.65	Al6s	ATOM	39792	O1P	CYT	958	228.012	112.786	29.512	1.00	56.92	A
ATOM	39740	C2	ADE	955	242.423	114.572	25.728	1.00	67.65	Al6s	ATOM	39793	O2P	CYT	958	227.045	116.429	28.680	1.00	76.14	A
ATOM	39741	N1	ADE	955	242.568	115.839	26.141	1.00	67.65	Al6s	ATOM	39794	O5	CYT	958	227.407	115.045	28.573	1.00	76.14	A
ATOM	39742	C6	ADE	955	241.605	116.733	25.837	1.00	67.65	Al6s	ATOM	39795	C5	CYT	958	227.192	117.124	27.352	1.00	76.14	A
ATOM	39743	N6	ADE	955	240.494	116.270	25.116	1.00	67.65	Al6s	ATOM	39796	C4	CYT	958	228.576	117.047	26.916	1.00	76.14	A
ATOM	39744	C5	ADE	955	239.350	116.907	24.656	1.00	67.65	Al6s	ATOM	39797	O4	CYT	958	228.627	116.928	25.504	1.00	76.14	A
ATOM	39745	N7	ADE	955	238.692	115.959	24.033	1.00	67.65	Al6s	ATOM	39798	C1	CYT	958	229.852	115.521	23.924	1.00	56.92	A
ATOM	39746	C8	ADE	955	238.356	111.274	24.109	1.00	53.05	Al6s	ATOM	39799	N1	CYT	958	229.852	115.521	23.924	1.00	56.92	A
ATOM	39747	O2	ADE	955	233.950	112.623	24.218	1.00	53.05	Al6s	ATOM	39800	C6	CYT	958	229.852	115.521	23.924	1.00	56.92	A
ATOM	39748	C2	ADE	955	233.950	112.623	24.218	1.00	53.05	Al6s	ATOM	39801	C2	CYT	958	229.852	115.521	23.924	1.00	56.92	A
ATOM	39749	C3	ADE	955	233.950	112.623	24.218	1.00	53.05	Al6s	ATOM	39802	O2	CYT	958	229.852	115.521	23.924	1.00	56.92	A
ATOM	39750	O3	ADE	955	233.950	112.623	24.218	1.00	53.05	Al6s	ATOM	39803	N3	CYT	958	229.852	115.521	23.924	1.00	56.92	A
ATOM	39751	P	CYT	956	234.310	112.049	24.476	1.00	84.03	Al6s	ATOM	39804	O4	CYT	958	230.431	114.297	23.675	1.00	56.92	A
ATOM	39752	O1P	CYT	956	233.478	110.828	24.311	1.00	53.44	Al6s	ATOM	39805	C4	CYT	958	230.478	113.204	24.520	1.00	56.92	A
ATOM	39753	O2P	CYT	956	233.761	113.370	24.118	1.00	53.44	Al6s	ATOM	39806	C5	CYT	958	229.853	113.409	25.784	1.00	56.92	A
ATOM	39754	O5	CYT	956	234.807	112.128	25.981	1.00	84.03	Al6s	ATOM	39807	C2	CYT	958	227.191	117.018	24.982	1.00	76.14	A
ATOM	39755	C5	CYT	956	235.468	111.012	26.588	1.00	84.03	Al6s	ATOM	39808	O2	CYT	958	226.913	118.358	24.613	1.00	76.14	A
ATOM	39756	C4	CYT	956	235.641	111.255	28.061	1.00	84.03	Al6s	ATOM	39809	C3	CYT	958	226.396	116.543	26.194	1.00	76.14	A
ATOM	39757	O4	CYT	956	236.682	112.242	28.279	1.00	84.03	Al6s	ATOM	39810	O3	CYT	958	225.041	116.981	26.193	1.00	76.14	A
ATOM	39758	C1	CYT	956	236.343	113.059	29.398	1.00	84.03	Al6s	ATOM	39811	P	CYT	959	223.898	116.028	25.575	1.00	75.37	A
ATOM	39759	N1	CYT	956	236.151	114.442	28.903	1.00	53.44	Al6s	ATOM	39812	O1P	CYT	959	224.149	115.986	24.109	1.00	52.24	A
ATOM	39760	C6	CYT	956	236.007	114.706	27.569	1.00	53.44	Al6s	ATOM	39813	O2P	CYT	959	222.572	116.473	26.077	1.00	52.24	A
ATOM	39761	C2	CYT	956	236.092	115.495	29.844	1.00	53.44	Al6s	ATOM	39814	O5	CYT	959	224.195	114.583	26.182	1.00	75.37	A
ATOM	39762	O2	CYT	956	236.280	115.244	31.053	1.00	53.44	Al6s	ATOM	39815	C5	CYT	959	223.179	113.568	26.177	1.00	75.37	A
ATOM	39763	N3	CYT	956	235.843	116.755	29.407	1.00	53.44	Al6s	ATOM	39816	C4	CYT	959	223.797	112.204	26.012	1.00	75.37	A
ATOM	39764	C4	CYT	956	235.686	116.991	28.103	1.00	53.44	Al6s	ATOM	39817	O4	CYT	959	224.453	112.120	24.721	1.00	75.37	A
ATOM	39765	N4	CYT	956	235.435	118.249	27.718	1.00	53.44	Al6s	ATOM	39818	C1	CYT	959	225.793	111.701	24.895	1.00	75.37	A
ATOM	39766	C5	CYT	956	235.778	115.951	27.131	1.00	53.44	Al6s	ATOM	39819	N1	CYT	959	226.634	112.309	23.847	1.00	52.24	A
ATOM	39767	C2	CYT	956	235.052	112.497	29.983	1.00	84.03	Al6s	ATOM	39820	C6	CYT	959	226.397	113.583	23.362	1.00	52.24	A
ATOM	39768	O2	CYT	956	235.360	111.577	31.017	1.00	84.03	Al6s	ATOM	39821	C2	CYT	959	227.672	111.541	23.336	1.00	52.24	A

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ATOM	39822	O2	URI	959	227.953	110.435	23.763	1.00	52.24	Al6s	ATOM	39875	O2P	CYT	962	222.546	101.044	25.978	1.00	66.55	AJ
ATOM	39823	N3	URI	959	228.372	112.120	22.308	1.00	52.24	Al6s	ATOM	39876	O5'	CYT	962	224.256	99.689	24.720	1.00	66.40	AJ
ATOM	39824	O4	URI	959	228.158	113.363	21.748	1.00	52.24	Al6s	ATOM	39877	C5'	CYT	962	224.650	98.818	23.667	1.00	66.40	AJ
ATOM	39825	C4	URI	959	228.747	113.657	20.707	1.00	52.24	Al6s	ATOM	39878	C4'	CYT	962	226.159	98.520	23.801	1.00	66.40	AJ
ATOM	39826	C5	URI	959	227.106	114.121	22.359	1.00	52.24	Al6s	ATOM	39879	O4'	CYT	962	226.923	99.743	23.646	1.00	66.40	AJ
ATOM	39827	C2'	URI	959	226.165	112.049	26.335	1.00	75.37	Al6s	ATOM	39880	C1'	CYT	962	228.085	99.682	24.453	1.00	66.40	AJ
ATOM	39828	O2'	URI	959	227.189	111.187	26.798	1.00	75.37	Al6s	ATOM	39881	N1	CYT	962	228.100	100.836	25.374	1.00	66.55	AJ
ATOM	39829	C3'	URI	959	224.839	111.807	27.050	1.00	75.37	Al6s	ATOM	39882	C6	CYT	962	226.980	101.592	25.580	1.00	66.55	AJ
ATOM	39830	O3'	URI	959	224.717	110.413	27.294	1.00	75.37	Al6s	ATOM	39883	C2	CYT	962	229.302	101.159	26.038	1.00	66.55	AJ
ATOM	39831	P	ADE	960	223.845	109.895	28.535	1.00	65.02	Al6s	ATOM	39884	O2	CYT	962	230.305	100.450	25.852	1.00	66.55	AJ
ATOM	39832	O1P	ADE	960	223.647	111.041	29.466	1.00	58.14	Al6s	ATOM	39885	N3	CYT	962	229.337	102.235	26.861	1.00	66.55	AJ
ATOM	39833	O2P	ADE	960	224.467	108.635	29.026	1.00	58.14	Al6s	ATOM	39886	C4	CYT	962	228.244	102.978	27.033	1.00	66.55	AJ
ATOM	39834	O5'	ADE	960	222.428	109.537	27.894	1.00	65.02	Al6s	ATOM	39887	N4	CYT	962	228.336	104.047	27.826	1.00	66.55	AJ
ATOM	39835	C5'	ADE	960	222.270	108.395	27.017	1.00	65.02	Al6s	ATOM	39888	C5	CYT	962	227.007	102.662	26.389	1.00	66.55	AJ
ATOM	39836	C4'	ADE	960	221.127	108.629	26.060	1.00	65.02	Al6s	ATOM	39889	C2'	CYT	962	228.085	98.330	25.162	1.00	66.40	AJ
ATOM	39837	O4'	ADE	960	221.301	109.921	25.435	1.00	65.02	Al6s	ATOM	39890	O2'	CYT	962	228.854	97.431	24.390	1.00	66.40	AJ
ATOM	39838	C1'	ADE	960	220.793	109.880	24.122	1.00	58.14	Al6s	ATOM	39891	C3'	CYT	962	226.605	97.973	25.142	1.00	66.40	AJ
ATOM	39839	N9	ADE	960	221.778	110.482	23.231	1.00	58.14	Al6s	ATOM	39892	O3'	CYT	962	226.373	96.576	25.260	1.00	66.40	AJ
ATOM	39840	C4	ADE	960	222.971	109.947	22.812	1.00	58.14	Al6s	ATOM	39893	P	ADE	963	226.071	95.950	26.713	1.00	75.73	AJ
ATOM	39841	N3	ADE	960	223.481	108.744	23.125	1.00	58.14	Al6s	ATOM	39894	O1P	ADE	963	225.665	94.537	26.513	1.00	68.86	AJ
ATOM	39842	C2	ADE	960	224.667	108.574	22.545	1.00	58.14	Al6s	ATOM	39895	O2P	ADE	963	225.166	96.883	27.443	1.00	68.86	AJ
ATOM	39843	N1	ADE	960	225.347	109.406	21.741	1.00	58.14	Al6s	ATOM	39896	O5'	ADE	963	227.489	95.963	27.446	1.00	75.73	AJ
ATOM	39844	C6	ADE	960	224.803	110.608	21.445	1.00	58.14	Al6s	ATOM	39897	C5'	ADE	963	228.549	95.104	26.995	1.00	75.73	AJ
ATOM	39845	N6	ADE	960	225.472	111.438	20.637	1.00	58.14	Al6s	ATOM	39898	C4'	ADE	963	229.828	95.374	27.756	1.00	75.73	AJ
ATOM	39846	C5	ADE	960	223.553	110.913	22.006	1.00	58.14	Al6s	ATOM	39899	O4'	ADE	963	230.320	96.712	27.479	1.00	75.73	AJ
ATOM	39847	N7	ADE	960	222.742	112.038	21.917	1.00	58.14	Al6s	ATOM	39900	C1'	ADE	963	231.049	97.190	28.598	1.00	75.73	AJ
ATOM	39848	C8	ADE	960	221.703	111.729	22.654	1.00	58.14	Al6s	ATOM	39901	N9	ADE	963	230.443	98.439	29.064	1.00	68.86	AJ
ATOM	39849	C2'	ADE	960	220.353	108.447	23.807	1.00	65.02	Al6s	ATOM	39902	C4	ADE	963	231.092	99.443	29.759	1.00	68.86	AJ
ATOM	39850	O2'	ADE	960	218.947	108.383	23.874	1.00	65.02	Al6s	ATOM	39903	N3	ADE	963	232.375	99.434	30.157	1.00	68.86	AJ
ATOM	39851	C3'	ADE	960	221.025	107.636	24.915	1.00	65.02	Al6s	ATOM	39904	C2	ADE	963	232.659	100.578	30.795	1.00	68.86	AJ
ATOM	39852	O3'	ADE	960	220.176	106.555	25.282	1.00	65.02	Al6s	ATOM	39905	N1	ADE	963	231.868	101.628	31.054	1.00	68.86	AJ
ATOM	39853	P	CYT	961	220.804	105.202	25.872	1.00	69.70	Al6s	ATOM	39906	C6	ADE	963	230.584	101.585	30.641	1.00	68.86	AJ
ATOM	39854	O1P	CYT	961	219.739	104.169	25.970	1.00	69.70	Al6s	ATOM	39907	N6	ADE	963	229.799	102.630	30.900	1.00	68.86	AJ
ATOM	39855	O2P	CYT	961	221.556	105.586	27.083	1.00	80.18	Al6s	ATOM	39908	C5	ADE	963	230.154	100.431	29.959	1.00	68.86	AJ
ATOM	39856	O5'	CYT	961	221.848	104.726	24.766	1.00	69.70	Al6s	ATOM	39909	N7	ADE	963	228.928	100.066	29.421	1.00	68.86	AJ
ATOM	39857	C5'	CYT	961	221.403	104.190	23.504	1.00	69.70	Al6s	ATOM	39910	C8	ADE	963	229.150	98.878	28.906	1.00	68.86	AJ
ATOM	39858	C4'	CYT	961	222.550	103.524	22.777	1.00	69.70	Al6s	ATOM	39911	C2'	ADE	963	231.020	96.099	29.663	1.00	75.73	AJ
ATOM	39859	O4'	CYT	961	223.548	104.510	22.421	1.00	69.70	Al6s	ATOM	39912	O2'	ADE	963	232.197	95.325	29.542	1.00	75.73	AJ
ATOM	39860	C1'	CYT	961	224.839	103.935	22.502	1.00	69.70	Al6s	ATOM	39913	C3'	ADE	963	229.774	95.319	29.269	1.00	75.73	AJ
ATOM	39861	N1	CYT	961	225.661	104.747	23.425	1.00	80.18	Al6s	ATOM	39914	O3'	ADE	963	229.800	93.996	29.766	1.00	75.73	AJ
ATOM	39862	C6	CYT	961	225.073	105.603	24.312	1.00	80.18	Al6s	ATOM	39915	P	ADE	964	228.960	93.641	31.089	1.00	96.25	AJ
ATOM	39863	C2	CYT	961	227.066	104.640	23.372	1.00	80.18	Al6s	ATOM	39916	O1P	ADE	964	228.909	92.153	31.173	1.00	70.69	AJ
ATOM	39864	O2	CYT	961	227.590	103.850	22.564	1.00	80.18	Al6s	ATOM	39917	O2P	ADE	964	227.700	94.418	31.062	1.00	70.69	AJ
ATOM	39865	N3	CYT	961	227.814	105.401	25.040	1.00	80.18	Al6s	ATOM	39918	O5'	ADE	964	229.833	94.228	32.288	1.00	96.25	AJ
ATOM	39866	C4	CYT	961	227.224	106.242	24.009	1.00	80.18	Al6s	ATOM	39919	C5'	ADE	964	231.072	93.605	32.684	1.00	96.25	AJ
ATOM	39867	N4	CYT	961	228.002	106.989	25.830	1.00	80.18	Al6s	ATOM	39920	C4'	ADE	964	231.907	94.566	33.494	1.00	96.25	AJ
ATOM	39868	C5	CYT	961	225.808	106.361	25.132	1.00	80.18	Al6s	ATOM	39921	O4'	ADE	964	232.076	95.783	32.722	1.00	96.25	AJ
ATOM	39869	C2'	CYT	961	224.677	102.469	22.912	1.00	69.70	Al6s	ATOM	39922	C1'	ADE	964	232.067	96.908	33.585	1.00	96.25	AJ
ATOM	39870	O2'	CYT	961	224.699	101.644	21.762	1.00	69.70	Al6s	ATOM	39923	N9	ADE	964	230.909	97.735	33.261	1.00	70.69	AJ
ATOM	39871	C3'	CYT	961	223.310	102.482	23.575	1.00	69.70	Al6s	ATOM	39924	C4	ADE	964	230.713	99.035	33.649	1.00	70.69	AJ
ATOM	39872	O3'	CYT	961	222.679	101.220	23.496	1.00	69.70	Al6s	ATOM	39925	N3	ADE	964	231.570	99.778	34.377	1.00	70.69	AJ
ATOM	39873	P	CYT	962	222.758	100.222	24.747	1.00	66.40	Al6s	ATOM	39926	C2	ADE	964	231.102	100.994	34.600	1.00	70.69	AJ
ATOM	39874	O1P	CYT	962	221.869	99.059	24.459	1.00	66.55	Al6s	ATOM	39927	N2	ADE	964	231.831	101.867	35.309	1.00	70.69	AJ

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ATOM	39928	N1	GUU	964	229.885	101.443	34.143	1.00	70.69	Al6S	ATOM	39981	P	CYT	967	225.756	99.867	45.832	1.00106.83	Al	
ATOM	39929	C6	GUU	964	228.988	100.691	33.391	1.00	70.69	Al6S	ATOM	39982	O1P	CYT	967	225.918	99.869	47.310	1.00	91.77	Al
ATOM	39930	O6	GUU	964	227.915	101.190	33.028	1.00	70.69	Al6S	ATOM	39983	O2P	CYT	967	225.200	98.661	45.155	1.00	91.77	Al
ATOM	39931	C5	GUU	964	229.481	99.387	33.146	1.00	70.69	Al6S	ATOM	39984	O5	CYT	967	224.858	101.127	45.439	1.00106.83	Al	
ATOM	39932	N7	GUU	964	228.915	98.331	32.445	1.00	70.69	Al6S	ATOM	39985	C5	CYT	967	225.073	102.407	46.068	1.00106.83	Al	
ATOM	39933	C8	GUU	964	229.796	97.373	32.537	1.00	70.69	Al6S	ATOM	39986	C4	CYT	967	223.940	103.362	45.755	1.00106.83	Al	
ATOM	39934	C2	GUU	964	231.968	96.390	35.016	1.00	96.25	Al6S	ATOM	39987	O4	CYT	967	223.939	103.686	44.340	1.00106.83	Al	
ATOM	39935	O2	GUU	964	223.266	96.307	35.567	1.00	96.25	Al6S	ATOM	39988	C1	CYT	967	222.606	103.904	43.900	1.00106.83	Al	
ATOM	39936	C3	GUU	964	231.297	95.041	34.802	1.00	96.25	Al6S	ATOM	39989	N1	CYT	967	222.286	102.935	42.826	1.00	91.77	Al
ATOM	39937	O3	GUU	964	231.529	94.148	35.880	1.00	96.25	Al6S	ATOM	39990	C6	CYT	967	222.823	101.673	42.823	1.00	91.77	Al
ATOM	39938	P	GUU	965	230.547	94.179	37.155	1.00	87.77	Al6S	ATOM	39991	C2	CYT	967	221.409	103.328	41.803	1.00	91.77	Al
ATOM	39939	O1P	GUU	965	230.947	93.048	38.040	1.00	76.66	Al6S	ATOM	39992	O2	CYT	967	220.931	104.480	41.825	1.00	91.77	Al
ATOM	39940	O2P	GUU	965	229.143	94.257	36.657	1.00	76.66	Al6S	ATOM	39993	N3	CYT	967	221.104	102.445	40.820	1.00	91.77	Al
ATOM	39941	O5	GUU	965	230.911	95.551	37.890	1.00	87.77	Al6S	ATOM	39994	C4	CYT	967	221.634	101.218	40.832	1.00	91.77	Al
ATOM	39942	C5	GUU	965	232.119	95.663	38.675	1.00	87.77	Al6S	ATOM	39995	N4	CYT	967	221.302	100.383	39.846	1.00	91.77	Al
ATOM	39943	C4	GUU	965	232.151	96.966	39.451	1.00	87.77	Al6S	ATOM	39996	C5	CYT	967	222.526	100.793	41.857	1.00	91.77	Al
ATOM	39944	O4	GUU	965	232.243	98.086	38.533	1.00	87.77	Al6S	ATOM	39997	C2	CYT	967	221.687	103.759	45.113	1.00106.83	Al	
ATOM	39945	C1	GUU	965	231.573	99.211	39.078	1.00	87.77	Al6S	ATOM	39998	O2	CYT	967	221.430	105.041	45.654	1.00106.83	Al	
ATOM	39946	N9	GUU	965	230.426	99.514	38.229	1.00	76.66	Al6S	ATOM	39999	C3	CYT	967	222.525	102.875	46.032	1.00106.83	Al	
ATOM	39947	C4	GUU	965	229.781	100.721	38.149	1.00	76.66	Al6S	ATOM	40000	O3	CYT	967	222.152	103.012	47.399	1.00106.83	Al	
ATOM	39948	N3	GUU	965	230.126	101.844	38.812	1.00	76.66	Al6S	ATOM	40001	P	URI	968	221.442	101.780	48.155	1.00142.68	Al	
ATOM	39949	C2	GUU	965	229.300	102.841	38.553	1.00	76.66	Al6S	ATOM	40002	O1P	URI	968	222.285	101.450	49.329	1.00112.10	Al	
ATOM	39950	N2	GUU	965	229.499	104.038	39.132	1.00	76.66	Al6S	ATOM	40003	O2P	URI	968	221.111	100.717	47.168	1.00112.10	Al	
ATOM	39951	N1	GUU	965	228.221	102.740	37.710	1.00	76.66	Al6S	ATOM	40004	O5	URI	968	220.087	102.408	48.703	1.00142.68	Al	
ATOM	39952	C6	GUU	965	227.846	101.593	37.018	1.00	76.66	Al6S	ATOM	40005	C5	URI	968	218.803	101.969	48.219	1.00142.68	Al	
ATOM	39953	O6	GUU	965	226.845	101.611	36.287	1.00	76.66	Al6S	ATOM	40006	C4	URI	968	218.188	103.044	47.360	1.00142.68	Al	
ATOM	39954	C5	GUU	965	228.725	100.517	37.285	1.00	76.66	Al6S	ATOM	40007	C1	URI	968	218.867	103.078	46.085	1.00142.68	Al	
ATOM	39955	N7	GUU	965	228.718	99.211	36.815	1.00	76.66	Al6S	ATOM	40008	C1	URI	968	217.948	103.419	45.067	1.00142.68	Al	
ATOM	39956	C8	GUU	965	229.748	98.655	37.392	1.00	76.66	Al6S	ATOM	40009	N1	URI	968	218.032	102.406	43.998	1.00112.10	Al	
ATOM	39957	C2	GUU	965	231.071	98.818	40.465	1.00	87.77	Al6S	ATOM	40010	C6	URI	968	218.576	101.160	44.236	1.00112.10	Al	
ATOM	39958	O2	GUU	965	231.981	99.236	41.464	1.00	87.77	Al6S	ATOM	40011	C2	URI	968	217.572	102.746	42.731	1.00112.10	Al	
ATOM	39959	C3	GUU	965	230.953	97.306	40.324	1.00	87.77	Al6S	ATOM	40012	O2	URI	968	217.055	103.818	42.473	1.00112.10	Al	
ATOM	39960	O3	GUU	965	230.944	96.650	41.581	1.00	87.77	Al6S	ATOM	40013	N3	URI	968	217.741	101.775	41.773	1.00112.10	Al	
ATOM	39961	P	CYT	966	229.535	96.249	42.246	1.00	94.92	Al6S	ATOM	40014	C4	URI	968	218.302	100.525	41.942	1.00112.10	Al	
ATOM	39962	O1P	CYT	966	229.870	95.549	43.505	1.00	89.76	Al6S	ATOM	40015	O4	URI	968	218.439	99.784	40.967	1.00112.10	Al	
ATOM	39963	O2P	CYT	966	228.706	95.558	41.228	1.00	89.76	Al6S	ATOM	40016	C5	URI	968	218.726	100.238	43.277	1.00112.10	Al	
ATOM	39964	O5	CYT	966	228.850	97.652	42.591	1.00	94.92	Al6S	ATOM	40017	C2	URI	968	216.578	103.646	45.713	1.00142.68	Al	
ATOM	39965	C5	CYT	966	229.508	98.583	43.472	1.00	94.92	Al6S	ATOM	40018	O2	URI	968	216.421	105.036	45.909	1.00142.68	Al	
ATOM	39966	C4	CYT	966	228.874	99.961	43.403	1.00	94.92	Al6S	ATOM	40019	C3	URI	968	216.711	102.888	47.035	1.00142.68	Al	
ATOM	39967	O4	CYT	966	228.904	100.465	42.040	1.00	94.92	Al6S	ATOM	40020	O3	URI	968	216.003	103.502	48.123	1.00142.68	Al	
ATOM	39968	C1	CYT	966	227.842	101.393	41.854	1.00	94.92	Al6S	ATOM	40021	P	URI	969	214.401	103.693	48.078	1.00	94.79	Al
ATOM	39969	N1	CYT	966	226.936	100.919	40.783	1.00	89.76	Al6S	ATOM	40022	O1P	URI	969	213.808	102.681	48.992	1.00130.54	Al	
ATOM	39970	C6	CYT	966	226.825	99.588	40.480	1.00	89.76	Al6S	ATOM	40023	O2P	URI	969	213.928	103.772	46.673	1.00130.54	Al	
ATOM	39971	C2	CYT	966	226.155	101.869	40.094	1.00	89.76	Al6S	ATOM	40024	O5	URI	969	214.202	105.133	48.734	1.00130.54	Al	
ATOM	39972	O2	CYT	966	226.291	103.077	40.365	1.00	89.76	Al6S	ATOM	40025	C5	URI	969	215.150	106.177	48.468	1.00	94.79	Al
ATOM	39973	N3	CYT	966	225.275	101.443	39.156	1.00	89.76	Al6S	ATOM	40026	C4	URI	969	214.444	107.435	48.033	1.00	94.79	Al
ATOM	39974	C4	CYT	966	225.163	100.138	38.888	1.00	89.76	Al6S	ATOM	40027	O4	URI	969	213.318	107.086	47.186	1.00	94.79	Al
ATOM	39975	N4	CYT	966	224.272	99.763	37.972	1.00	89.76	Al6S	ATOM	40028	C1	URI	969	212.336	108.104	47.274	1.00	94.79	Al
ATOM	39976	C5	CYT	966	225.957	99.159	39.552	1.00	89.76	Al6S	ATOM	40029	N1	URI	969	210.984	107.518	47.260	1.00130.54	Al	
ATOM	39977	C2	CYT	966	227.081	101.483	43.173	1.00	94.92	Al6S	ATOM	40030	C6	URI	969	210.778	106.162	47.384	1.00130.54	Al	
ATOM	39978	O2	CYT	966	227.563	102.593	43.907	1.00	94.92	Al6S	ATOM	40031	C2	URI	969	209.907	108.386	47.085	1.00130.54	Al	
ATOM	39979	C3	CYT	966	227.420	100.143	43.817	1.00	94.92	Al6S	ATOM	40032	O2	URI	969	210.029	109.598	47.017	1.00130.54	Al	
ATOM	39980	O3	CYT	966	227.216	100.197	45.225	1.00	94.92	Al6S	ATOM	40033	N3	URI	969	208.681	107.781	46.999	1.00130.54	Al	

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ATOM	40034	C4	URI	969	208.413	106.433	47.082	1.00130.54	Al6S	ATOM	40087	O1P	CYT	972	219.870	116.593	45.701	1.0068.99	Al
ATOM	40035	O4	URI	969	207.258	106.036	46.903	1.00130.54	Al6S	ATOM	40088	O2P	CYT	972	218.246	115.125	44.352	1.0068.99	Al
ATOM	40036	C5	URI	969	209.565	105.606	47.304	1.00130.54	Al6S	ATOM	40089	O5	CYT	972	218.806	117.448	43.627	1.00106.10	Al
ATOM	40037	C2	URI	969	212.687	109.037	48.437	1.0094.79	Al6S	ATOM	40090	C5	CYT	972	217.527	117.968	43.931	1.00106.10	Al
ATOM	40038	O2	URI	969	213.015	110.299	47.901	1.0094.79	Al6S	ATOM	40091	C4	CYT	972	216.872	118.517	42.684	1.00106.10	Al
ATOM	40039	C3	URI	969	213.824	108.279	49.135	1.0094.79	Al6S	ATOM	40092	O4	CYT	972	216.979	117.548	41.612	1.00106.10	Al
ATOM	40040	O3	URI	969	214.817	109.074	49.818	1.0094.79	Al6S	ATOM	40093	C1	CYT	972	215.743	117.458	40.922	1.00106.10	Al
ATOM	40041	P	GUA	970	215.599	110.272	49.058	1.00140.99	Al6S	ATOM	40094	N1	CYT	972	215.219	116.080	41.102	1.0068.99	Al
ATOM	40042	O1P	GUA	970	216.856	110.429	49.827	1.0077.09	Al6S	ATOM	40095	C6	CYT	972	216.014	115.095	41.627	1.0068.99	Al
ATOM	40043	O2P	GUA	970	214.715	111.451	48.880	1.0077.09	Al6S	ATOM	40096	C2	CYT	972	213.896	115.780	40.709	1.0068.99	Al
ATOM	40044	O5	GUA	970	215.992	110.646	47.640	1.00140.99	Al6S	ATOM	40097	O2	CYT	972	213.165	116.692	40.266	1.0068.99	Al
ATOM	40045	C5	GUA	970	216.352	110.470	46.499	1.00140.99	Al6S	ATOM	40098	N3	CYT	972	213.445	114.505	40.828	1.0068.99	Al
ATOM	40046	C4	GUA	970	217.146	109.652	45.495	1.00140.99	Al6S	ATOM	40099	C4	CYT	972	214.241	113.556	41.325	1.0068.99	Al
ATOM	40047	O4	GUA	970	216.512	108.359	45.344	1.00140.99	Al6S	ATOM	40100	N4	CYT	972	213.751	112.314	41.413	1.0068.99	Al
ATOM	40048	C1	GUA	970	216.669	107.900	44.017	1.00140.99	Al6S	ATOM	40101	C5	CYT	972	215.572	113.835	41.753	1.0068.99	Al
ATOM	40049	N9	GUA	970	215.413	107.296	43.564	1.0077.09	Al6S	ATOM	40102	C2	CYT	972	214.830	118.555	41.476	1.00106.10	Al
ATOM	40050	C4	GUA	970	214.139	107.829	43.608	1.0077.09	Al6S	ATOM	40103	O2	CYT	972	214.942	119.743	40.716	1.00106.10	Al
ATOM	40051	N3	GUA	970	213.805	109.080	43.999	1.0077.09	Al6S	ATOM	40104	C3	CYT	972	215.385	118.712	42.876	1.00106.10	Al
ATOM	40052	C2	GUA	970	212.485	109.265	43.997	1.0077.09	Al6S	ATOM	40105	O3	CYT	972	215.094	119.941	43.498	1.00106.10	Al
ATOM	40053	N2	GUA	970	211.966	110.456	44.363	1.0077.09	Al6S	ATOM	40106	P	ADP	973	214.189	119.938	44.818	1.00129.52	Al
ATOM	40054	N1	GUA	970	211.576	108.295	43.640	1.0077.09	Al6S	ATOM	40107	O1P	ADP	973	214.389	121.241	45.507	1.0063.20	Al
ATOM	40055	C6	GUA	970	211.902	107.004	43.234	1.0077.09	Al6S	ATOM	40108	O2P	ADP	973	214.461	118.667	45.547	1.0063.20	Al
ATOM	40056	O6	GUA	970	211.007	106.199	42.953	1.0077.09	Al6S	ATOM	40109	O5	ADP	973	212.709	119.842	44.243	1.00129.52	Al
ATOM	40057	C5	GUA	970	213.303	106.799	43.219	1.0077.09	Al6S	ATOM	40110	C5	ADP	973	212.195	120.942	43.349	1.00129.52	Al
ATOM	40058	N7	GUA	970	214.033	105.673	42.873	1.0077.09	Al6S	ATOM	40111	C4	ADP	973	210.702	120.709	43.249	1.00129.52	Al
ATOM	40059	C8	GUA	970	215.274	106.017	43.077	1.0077.09	Al6S	ATOM	40112	O4	ADP	973	210.368	119.519	42.497	1.00129.52	Al
ATOM	40060	C2	GUA	970	217.384	108.970	43.187	1.00140.99	Al6S	ATOM	40113	C1	ADP	973	209.243	118.887	43.079	1.00129.52	Al
ATOM	40061	O2	GUA	970	218.705	108.525	42.957	1.00140.99	Al6S	ATOM	40114	N9	ADP	973	209.854	117.564	43.529	1.0063.20	Al
ATOM	40062	C3	GUA	970	217.251	110.212	44.079	1.00140.99	Al6S	ATOM	40115	C4	ADP	973	208.868	116.464	43.718	1.0063.20	Al
ATOM	40063	O3	GUA	970	218.251	111.255	43.959	1.00140.99	Al6S	ATOM	40116	N3	ADP	973	207.526	116.385	43.537	1.0063.20	Al
ATOM	40064	P	ADP	971	219.845	110.924	44.000	1.0087.21	Al6S	ATOM	40117	C2	ADP	973	207.084	115.154	43.815	1.0063.20	Al
ATOM	40065	O1P	ADP	971	220.298	110.330	42.717	1.0073.66	Al6S	ATOM	40118	N1	ADP	973	207.771	114.074	44.227	1.0063.20	Al
ATOM	40066	O2P	ADP	971	220.183	110.235	45.269	1.0087.21	Al6S	ATOM	40119	C6	ADP	973	209.109	114.188	44.401	1.0063.20	Al
ATOM	40067	O5	ADP	971	220.480	112.382	44.069	1.0087.21	Al6S	ATOM	40120	N6	ADP	973	209.794	113.118	44.813	1.0063.20	Al
ATOM	40068	C5	ADP	971	221.771	112.677	43.496	1.0087.21	Al6S	ATOM	40121	C5	ADP	973	209.701	115.444	44.135	1.0063.20	Al
ATOM	40069	C4	ADP	971	221.638	113.748	42.430	1.0087.21	Al6S	ATOM	40122	N7	ADP	973	211.013	115.896	44.213	1.0063.20	Al
ATOM	40070	O4	ADP	971	221.557	113.147	41.110	1.0087.21	Al6S	ATOM	40123	C8	ADP	973	210.936	117.156	43.849	1.0063.20	Al
ATOM	40072	N9	ADP	971	220.633	113.871	40.305	1.0087.21	Al6S	ATOM	40124	C2	ADP	973	208.759	119.760	44.237	1.00129.52	Al
ATOM	40073	C4	ADP	971	219.534	112.954	39.954	1.0073.66	Al6S	ATOM	40125	O2	ADP	973	207.717	120.608	43.801	1.00129.52	Al
ATOM	40074	N3	ADP	971	218.315	113.262	39.386	1.0073.66	Al6S	ATOM	40126	C3	ADP	973	209.027	120.517	44.592	1.00129.52	Al
ATOM	40075	C2	ADP	971	217.866	114.472	39.012	1.0073.66	Al6S	ATOM	40127	O3	ADP	973	210.782	121.756	45.220	1.00130.81	Al
ATOM	40076	N1	ADP	971	216.640	114.381	38.500	1.0073.66	Al6S	ATOM	40128	P	URI	974	209.914	121.872	46.812	1.00130.81	Al
ATOM	40077	C6	ADP	971	215.869	113.302	38.331	1.0073.66	Al6S	ATOM	40129	O1P	URI	974	210.211	123.305	47.084	1.0064.87	Al
ATOM	40078	N6	ADP	971	216.350	112.039	38.714	1.0073.66	Al6S	ATOM	40130	O2P	URI	974	210.832	120.816	47.333	1.0064.87	Al
ATOM	40079	C5	ADP	971	215.585	111.016	38.539	1.0073.66	Al6S	ATOM	40131	O5	URI	974	208.453	121.513	47.327	1.00130.81	Al
ATOM	40080	N7	ADP	971	217.637	112.059	39.273	1.0073.66	Al6S	ATOM	40132	C5	URI	974	207.350	122.402	47.101	1.00130.81	Al
ATOM	40081	C8	ADP	971	218.408	111.010	39.752	1.0073.66	Al6S	ATOM	40133	C4	URI	974	206.052	121.693	47.379	1.00130.81	Al
ATOM	40082	C2	ADP	971	219.519	111.587	40.137	1.0073.66	Al6S	ATOM	40134	C1	URI	974	205.904	120.611	46.422	1.00130.81	Al
ATOM	40083	O2	ADP	971	220.199	115.106	41.107	1.0087.21	Al6S	ATOM	40135	O1	URI	974	205.260	119.508	47.041	1.00130.81	Al
ATOM	40084	C3	ADP	971	221.013	116.222	40.787	1.0087.21	Al6S	ATOM	40136	N1	URI	974	206.199	118.378	47.103	1.0064.87	Al
ATOM	40085	O3	ADP	971	220.401	114.626	42.541	1.0087.21	Al6S	ATOM	40137	C6	URI	974	207.568	118.569	47.169	1.0064.87	Al
ATOM	40086	P	CYT	972	220.573	115.680	43.481	1.0087.21	Al6S	ATOM	40138	C2	URI	974	205.655	117.099	47.130	1.0064.87	Al
ATOM	40086	P	CYT	972	219.327	116.153	44.388	1.00106.10	Al6S	ATOM	40139	O2	URI	974	204.456	116.882	47.044	1.0064.87	Al

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ATOM	40140	N3	URI	974	206.567	116.083	47.266	1.00	64.87	Al6S	ATOM	40193	O2P	URI	977	203.858	114.074	59.419	1.00112.59	Al
ATOM	40141	C4	URI	974	207.938	116.204	47.372	1.00	64.87	Al6S	ATOM	40194	O5' URI	977	202.673	111.946	59.976	1.00143.05	Al	
ATOM	40142	O4	URI	974	208.632	115.193	47.592	1.00	64.87	Al6S	ATOM	40195	C5' URI	977	201.532	111.163	60.371	1.00143.05	Al	
ATOM	40143	C5	URI	974	208.432	117.556	47.301	1.00	64.87	Al6S	ATOM	40196	C4' URI	977	201.934	109.730	60.642	1.00143.05	Al	
ATOM	40144	C2' URI	974	204.907	119.924	48.466	1.00130.81	Al6S	ATOM	40197	O4' URI	977	202.334	109.086	59.402	1.00143.05	Al			
ATOM	40145	O2' URI	974	203.583	120.415	48.545	1.00130.81	Al6S	ATOM	40198	C1' URI	977	203.355	108.135	59.665	1.00143.05	Al			
ATOM	40146	C3' URI	974	205.957	120.989	48.725	1.00130.81	Al6S	ATOM	40199	N1 URI	977	204.569	108.521	58.923	1.00112.59	Al			
ATOM	40147	O3' URI	974	205.620	121.808	49.825	1.00130.81	Al6S	ATOM	40200	C6 URI	977	204.883	109.849	58.694	1.00112.59	Al			
ATOM	40148	P	GUA	975	206.139	121.391	51.290	1.00113.48	Al6S	ATOM	40201	C2 URI	977	205.409	107.508	58.477	1.00112.59	Al		
ATOM	40149	O1P	GUA	975	205.526	122.363	52.231	1.00103.42	Al6S	ATOM	40202	O2 URI	977	205.165	106.321	58.632	1.00112.59	Al		
ATOM	40150	O2P	GUA	975	207.620	121.244	51.244	1.00103.42	Al6S	ATOM	40203	N3 URI	977	206.549	107.941	57.839	1.00112.59	Al		
ATOM	40151	O5' GUA	975	205.501	119.949	51.546	1.00113.48	Al6S	ATOM	40204	C4 URI	977	206.928	109.250	57.598	1.00112.59	Al			
ATOM	40152	C5' GUA	975	204.081	119.822	51.698	1.00113.48	Al6S	ATOM	40205	O4 URI	977	208.008	109.479	57.046	1.00112.59	Al			
ATOM	40153	C4' GUA	975	203.641	118.374	51.746	1.00113.48	Al6S	ATOM	40206	C5 URI	977	206.001	110.234	58.067	1.00112.59	Al			
ATOM	40154	O4' GUA	975	204.304	117.600	50.713	1.00113.48	Al6S	ATOM	40207	C2' URI	977	203.595	108.122	61.178	1.00143.05	Al			
ATOM	40155	C1' GUA	975	204.114	116.226	50.996	1.00113.48	Al6S	ATOM	40208	O2' URI	977	202.843	107.080	61.773	1.00143.05	Al			
ATOM	40156	N9 GUA	975	205.366	115.492	50.872	1.00103.42	Al6S	ATOM	40209	C3' URI	977	203.114	109.514	61.579	1.00143.05	Al			
ATOM	40157	C4 GUA	975	205.471	114.121	50.948	1.00103.42	Al6S	ATOM	40210	O3' URI	977	202.763	109.607	62.958	1.00143.05	Al			
ATOM	40158	N3 GUA	975	204.443	113.262	51.115	1.00103.42	Al6S	ATOM	40211	P	978	203.838	110.181	64.016	1.00164.00	Al			
ATOM	40159	C2 GUA	975	204.848	112.010	51.176	1.00103.42	Al6S	ATOM	40212	O1P ADE	978	203.138	110.351	65.315	1.00177.23	Al			
ATOM	40160	N2 GUA	975	203.950	111.033	51.346	1.00103.42	Al6S	ATOM	40213	O2P ADE	978	204.538	111.345	63.407	1.00177.23	Al			
ATOM	40161	N1 GUA	975	206.163	111.622	51.077	1.00103.42	Al6S	ATOM	40214	O5' ADE	978	204.888	108.991	64.174	1.00164.00	Al			
ATOM	40162	C6 GUA	975	207.241	112.485	50.901	1.00103.42	Al6S	ATOM	40215	C5' ADE	978	204.462	107.676	64.597	1.00164.00	Al			
ATOM	40163	O6 GUA	975	208.388	112.024	50.816	1.00103.42	Al6S	ATOM	40216	C4' ADE	978	205.541	106.652	64.319	1.00164.00	Al			
ATOM	40164	C5 GUA	975	206.815	113.848	50.839	1.00103.42	Al6S	ATOM	40217	O4' ADE	978	205.772	106.574	62.886	1.00164.00	Al			
ATOM	40165	N7 GUA	975	207.545	115.024	50.682	1.00103.42	Al6S	ATOM	40218	C1' ADE	978	207.155	106.370	62.629	1.00164.00	Al			
ATOM	40166	C8 GUA	975	206.643	115.973	50.701	1.00103.42	Al6S	ATOM	40219	N9 ADE	978	207.667	107.545	61.914	1.00177.23	Al			
ATOM	40167	C2' GUA	975	203.621	116.118	52.436	1.00113.48	Al6S	ATOM	40220	C6 ADE	978	208.843	107.633	61.201	1.00177.23	Al			
ATOM	40168	O2' GUA	975	202.250	115.768	52.418	1.00113.48	Al6S	ATOM	40221	N3 ADE	978	209.747	106.661	60.991	1.00177.23	Al			
ATOM	40169	C3' GUA	975	203.903	117.519	52.978	1.00113.48	Al6S	ATOM	40222	C2 ADE	978	210.769	107.120	60.270	1.00177.23	Al			
ATOM	40170	O3' GUA	975	203.041	117.779	54.087	1.00113.48	Al6S	ATOM	40223	N1 ADE	978	210.974	108.346	59.771	1.00177.23	Al			
ATOM	40171	P	CYT	976	203.417	117.191	55.545	1.00142.64	Al6S	ATOM	40224	C6 ADE	978	210.045	109.300	59.998	1.00177.23	Al		
ATOM	40172	O1P	CYT	976	202.411	117.749	56.487	1.00112.01	Al6S	ATOM	40225	N6 ADE	978	210.248	110.522	59.501	1.00177.23	Al		
ATOM	40173	O2P	CYT	976	204.866	117.411	55.804	1.00112.01	Al6S	ATOM	40226	C5 ADE	978	208.914	108.942	60.751	1.00177.23	Al		
ATOM	40174	O5' CYT	976	203.178	115.617	55.426	1.00142.64	Al6S	ATOM	40227	N7 ADE	978	207.801	109.663	61.157	1.00177.23	Al			
ATOM	40175	C5' CYT	976	201.843	115.088	55.332	1.00142.64	Al6S	ATOM	40228	C8 ADE	978	207.093	108.794	61.836	1.00177.23	Al			
ATOM	40176	C4' CYT	976	201.806	113.621	55.702	1.00142.64	Al6S	ATOM	40229	C2' ADE	978	207.847	106.188	63.982	1.00164.00	Al			
ATOM	40177	O4' CYT	976	202.394	112.810	54.654	1.00142.64	Al6S	ATOM	40230	O2' ADE	978	207.932	104.811	64.296	1.00164.00	Al			
ATOM	40178	C1' CYT	976	202.877	111.601	55.216	1.00142.64	Al6S	ATOM	40231	C3' ADE	978	206.910	106.953	64.909	1.00164.00	Al			
ATOM	40179	N1 CYT	976	204.283	111.384	54.817	1.00112.01	Al6S	ATOM	40232	O3' ADE	978	207.028	106.550	66.267	1.00164.00	Al			
ATOM	40180	C6 CYT	976	205.158	112.428	54.682	1.00112.01	Al6S	ATOM	40233	P	979	208.021	107.352	67.247	1.00201.09	Al			
ATOM	40181	C2 CYT	976	204.717	110.065	54.591	1.00112.01	Al6S	ATOM	40234	O1P	979	207.528	107.127	68.629	1.00201.09	Al			
ATOM	40182	O2 CYT	976	203.903	109.133	54.708	1.00112.01	Al6S	ATOM	40235	O2P	979	208.175	108.743	66.744	1.00201.09	Al			
ATOM	40183	N3 CYT	976	206.008	109.841	54.254	1.00112.01	Al6S	ATOM	40236	O5' GUA	979	209.420	106.603	67.078	1.00201.09	Al			
ATOM	40184	C4 CYT	976	206.854	110.864	54.135	1.00112.01	Al6S	ATOM	40237	C5' GUA	979	209.668	105.351	67.751	1.00201.09	Al			
ATOM	40185	N4 CYT	976	208.118	110.592	53.809	1.00112.01	Al6S	ATOM	40238	C4' GUA	979	211.041	104.810	67.407	1.00201.09	Al			
ATOM	40186	C5 CYT	976	206.440	112.214	54.348	1.00112.01	Al6S	ATOM	40239	O1' GUA	979	211.094	104.448	66.002	1.00201.09	Al			
ATOM	40187	C2' CYT	976	202.692	111.672	56.734	1.00142.64	Al6S	ATOM	40240	C1' GUA	979	212.409	104.651	65.506	1.00201.09	Al			
ATOM	40188	O2' CYT	976	201.555	110.913	57.096	1.00142.64	Al6S	ATOM	40241	N9 GUA	979	212.362	105.661	64.452	1.00201.09	Al			
ATOM	40189	C3' CYT	976	202.523	113.173	56.969	1.00142.64	Al6S	ATOM	40242	C4 GUA	979	213.404	106.029	63.629	1.00201.09	Al			
ATOM	40190	O3' CYT	976	201.765	113.434	58.150	1.00142.64	Al6S	ATOM	40243	N3 GUA	979	214.647	105.494	63.630	1.00201.09	Al			
ATOM	40191	P	URI	977	202.505	113.481	59.582	1.00143.05	Al6S	ATOM	40244	C2 GUA	979	215.437	106.075	62.741	1.00201.09	Al		
ATOM	40192	O1P	URI	977	201.548	114.100	60.533	1.00112.59	Al6S	ATOM	40245	N2	GUA	979	216.708	105.665	62.607	1.00201.09	Al	

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ATOM	40246	N1	GUA	979	215.040	107.100	61.918	1.00201.03	AL6S	ATOM	40299	O2' GUA	981	223.040	112.607	65.400	1.00169.08	AL
ATOM	40247	C6	GUA	979	213.767	107.666	61.898	1.00201.03	AL6S	ATOM	40300	C3' GUA	981	221.800	112.287	67.487	1.00169.08	AL
ATOM	40248	O6	GUA	979	213.514	108.592	61.115	1.00201.03	AL6S	ATOM	40301	O3' GUA	981	222.933	112.895	68.107	1.00169.08	AL
ATOM	40249	C5	GUA	979	212.908	107.050	62.846	1.00201.03	AL6S	ATOM	40302	P ADE	982	222.920	114.476	68.424	1.00181.16	AL
ATOM	40250	N7	GUA	979	211.577	107.304	63.152	1.00201.03	AL6S	ATOM	40303	O1P ADE	982	224.301	114.980	68.210	1.00186.60	AL
ATOM	40251	C8	GUA	979	211.295	106.455	64.102	1.00201.03	AL6S	ATOM	40304	O2P ADE	982	222.268	114.670	69.741	1.00186.60	AL
ATOM	40252	C2' GUA	979	213.275	105.129	66.673	1.00201.09	AL6S	ATOM	40305	O5' ADE	982	221.966	115.099	67.305	1.00181.16	AL	
ATOM	40253	O2' GUA	979	213.959	104.029	67.241	1.00201.09	AL6S	ATOM	40306	C5' ADE	982	222.454	116.052	66.330	1.00181.16	AL	
ATOM	40254	C3' GUA	979	212.232	105.739	67.603	1.00201.09	AL6S	ATOM	40307	C4' ADE	982	221.862	115.756	64.967	1.00181.16	AL	
ATOM	40255	O3' GUA	979	212.691	105.786	68.948	1.00201.09	AL6S	ATOM	40308	O1' ADE	982	220.414	115.691	65.056	1.00181.16	AL	
ATOM	40256	P	GUA	980	213.292	107.160	69.534	1.00201.02	AL6S	ATOM	40309	C1' ADE	982	219.846	116.093	63.821	1.00181.16	AL
ATOM	40257	O1P GUA	980	213.664	106.906	70.949	1.00186.91	AL6S	ATOM	40310	N9 ADE	982	218.829	117.124	64.061	1.00186.60	AL	
ATOM	40258	O2P GUA	980	212.343	108.259	69.210	1.00186.91	AL6S	ATOM	40311	C4 ADE	982	217.600	116.950	64.663	1.00186.60	AL	
ATOM	40259	O5' GUA	980	214.631	107.407	68.700	1.00201.02	AL6S	ATOM	40312	N3 ADE	982	217.091	115.831	65.180	1.00186.60	AL	
ATOM	40260	C5' GUA	980	215.734	106.473	68.751	1.00201.02	AL6S	ATOM	40313	C2 ADE	982	215.870	116.031	65.673	1.00186.60	AL	
ATOM	40261	C4' GUA	980	216.725	106.774	67.646	1.00201.02	AL6S	ATOM	40314	N1 ADE	982	215.152	117.158	65.704	1.00186.60	AL	
ATOM	40262	O4' GUA	980	216.024	106.733	66.377	1.00201.02	AL6S	ATOM	40315	C6 ADE	982	215.688	118.278	65.175	1.00186.60	AL	
ATOM	40263	C1' GUA	980	216.523	107.742	65.516	1.00201.02	AL6S	ATOM	40316	N6 ADE	982	214.966	119.402	65.198	1.00186.60	AL	
ATOM	40264	N9 GUA	980	215.423	108.643	65.172	1.00186.91	AL6S	ATOM	40317	C5 ADE	982	216.983	118.189	64.623	1.00186.60	AL	
ATOM	40265	C4 GUA	980	215.412	109.573	64.157	1.00186.91	AL6S	ATOM	40318	N7 ADE	982	217.809	119.128	64.021	1.00186.60	AL	
ATOM	40266	N3 GUA	980	216.430	109.837	63.311	1.00186.91	AL6S	ATOM	40319	C8 ADE	982	218.887	118.454	63.714	1.00186.60	AL	
ATOM	40267	C2 GUA	980	216.113	110.775	62.437	1.00186.91	AL6S	ATOM	40320	C2' ADE	982	220.983	116.508	62.882	1.00181.16	AL	
ATOM	40268	N2 GUA	980	217.018	111.179	61.538	1.00186.91	AL6S	ATOM	40321	O2' ADE	982	221.263	115.458	61.978	1.00181.16	AL	
ATOM	40269	N1 GUA	980	214.889	111.396	62.385	1.00186.91	AL6S	ATOM	40322	O3' ADE	982	222.127	116.768	63.859	1.00181.16	AL	
ATOM	40270	C6 GUA	980	213.826	111.140	63.243	1.00186.91	AL6S	ATOM	40323	O3' ADE	982	223.398	116.556	63.248	1.00181.16	AL	
ATOM	40271	O6 GUA	980	212.760	111.754	63.105	1.00186.91	AL6S	ATOM	40324	P ADE	983	223.912	117.546	62.084	1.00196.80	AL	
ATOM	40272	C5 GUA	980	214.157	110.145	64.198	1.00186.91	AL6S	ATOM	40325	O1P ADE	983	223.391	117.024	60.793	1.00198.89	AL	
ATOM	40273	N7 GUA	980	213.401	109.603	65.228	1.00186.91	AL6S	ATOM	40326	O2P ADE	983	225.370	117.719	62.266	1.00198.89	AL	
ATOM	40274	C8 GUA	980	214.191	108.721	65.779	1.00186.91	AL6S	ATOM	40327	O5' ADE	983	223.212	118.946	62.390	1.00196.80	AL	
ATOM	40275	C2' GUA	980	217.688	108.431	66.227	1.00201.02	AL6S	ATOM	40328	C5' ADE	983	222.098	119.409	61.601	1.00196.80	AL	
ATOM	40276	O2' GUA	980	218.901	107.841	65.807	1.00201.02	AL6S	ATOM	40329	C4' ADE	983	222.287	120.861	61.231	1.00196.80	AL	
ATOM	40277	C3' GUA	980	217.370	108.154	67.691	1.00201.02	AL6S	ATOM	40330	O4' ADE	983	222.398	121.641	62.449	1.00196.80	AL	
ATOM	40278	O3' GUA	980	218.552	108.154	68.488	1.00201.02	AL6S	ATOM	40331	C1' ADE	983	223.291	122.720	62.244	1.00196.80	AL	
ATOM	40279	P	GUA	981	218.822	109.358	69.521	1.00169.08	AL6S	ATOM	40332	N9 ADE	983	224.371	122.636	63.231	1.00198.89	AL
ATOM	40280	O1P GUA	981	219.536	108.766	70.681	1.00156.52	AL6S	ATOM	40333	C4 ADE	983	224.774	123.642	64.079	1.00198.89	AL	
ATOM	40281	O2P GUA	981	217.545	110.091	69.736	1.00156.52	AL6S	ATOM	40334	N3 ADE	983	224.255	124.879	64.187	1.00198.89	AL	
ATOM	40282	O5' GUA	981	219.823	110.341	68.759	1.00169.08	AL6S	ATOM	40335	C2 ADE	983	224.905	125.582	65.110	1.00198.89	AL	
ATOM	40283	C5' GUA	981	221.248	110.083	68.711	1.00169.08	AL6S	ATOM	40336	N1 ADE	983	225.939	125.221	65.878	1.00198.89	AL	
ATOM	40284	C4' GUA	981	221.858	110.762	67.503	1.00169.08	AL6S	ATOM	40337	C6 ADE	983	226.439	123.973	65.743	1.00198.89	AL	
ATOM	40285	O4' GUA	981	220.086	110.354	66.343	1.00169.08	AL6S	ATOM	40338	N6 ADE	983	227.477	123.614	66.502	1.00198.89	AL	
ATOM	40286	C1' GUA	981	220.926	111.447	65.456	1.00169.08	AL6S	ATOM	40339	C5 ADE	983	225.834	123.124	64.802	1.00198.89	AL	
ATOM	40287	N9 GUA	981	219.505	111.784	65.400	1.00156.52	AL6S	ATOM	40340	N7 ADE	983	226.090	121.812	64.428	1.00198.89	AL	
ATOM	40288	C4 GUA	981	218.874	112.504	64.416	1.00156.52	AL6S	ATOM	40341	C8 ADE	983	225.197	121.569	63.499	1.00198.89	AL	
ATOM	40289	N3 GUA	981	219.455	113.013	63.313	1.00156.52	AL6S	ATOM	40342	C2' ADE	983	223.783	122.661	60.795	1.00196.80	AL	
ATOM	40290	C2 GUA	981	218.593	113.668	62.562	1.00156.52	AL6S	ATOM	40343	O2' ADE	983	223.016	123.557	60.014	1.00196.80	AL	
ATOM	40291	N2 GUA	981	219.009	114.244	61.428	1.00156.52	AL6S	ATOM	40344	C3' ADE	983	223.545	121.196	60.437	1.00196.80	AL	
ATOM	40292	N1 GUA	981	217.263	113.811	62.867	1.00156.52	AL6S	ATOM	40345	O3' ADE	983	223.344	121.029	59.028	1.00196.80	AL	
ATOM	40293	C6 GUA	981	216.644	113.294	63.998	1.00156.52	AL6S	ATOM	40346	P	984	224.460	120.284	58.129	1.00173.72	AL	
ATOM	40294	O6 GUA	981	215.438	113.481	64.181	1.00156.52	AL6S	ATOM	40347	O1P	984	224.151	120.602	56.713	1.00189.81	AL	
ATOM	40295	C5 GUA	981	217.557	112.589	64.813	1.00156.52	AL6S	ATOM	40348	O2P	984	224.541	118.863	58.557	1.00189.81	AL	
ATOM	40296	N7 GUA	981	217.360	111.925	66.014	1.00156.52	AL6S	ATOM	40349	O5' CYT	984	225.840	120.996	58.500	1.00173.72	AL	
ATOM	40297	C8 GUA	981	218.539	111.464	66.324	1.00156.52	AL6S	ATOM	40350	C5' CYT	984	226.034	122.413	58.293	1.00173.72	AL	
ATOM	40298	C2' GUA	981	221.759	112.607	65.998	1.00169.08	AL6S	ATOM	40351	C4' CYT	984	227.274	122.885	59.025	1.00173.72	AL	

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ATOM	40352	O4' CYT	984	227.163	122.494	60.418	1.00173.72	Al6S	ATOM	40405	O3' CYT	986	240.448	118.399	57.047	1.00186.26	Al
ATOM	40353	C1' CYT	984	228.434	122.116	60.918	1.00173.72	Al6S	ATOM	40406	P GUA	987	240.953	117.256	56.034	1.00150.57	Al
ATOM	40354	N1 CYT	984	228.355	120.711	61.367	1.00189.81	Al6S	ATOM	40407	O1P GUA	987	242.287	117.661	55.518	1.00153.73	Al
ATOM	40355	C6 CYT	984	227.850	119.742	60.542	1.00189.81	Al6S	ATOM	40408	O2P GUA	987	239.856	116.954	55.077	1.00153.73	Al
ATOM	40356	C2 CYT	984	228.802	120.378	62.657	1.00189.81	Al6S	ATOM	40409	O5' GUA	987	241.158	115.990	56.978	1.00150.57	Al
ATOM	40357	O2 CYT	984	229.265	121.270	63.390	1.00189.81	Al6S	ATOM	40410	C5' GUA	987	241.295	114.679	56.430	1.00150.57	Al
ATOM	40358	N3 CYT	984	228.718	119.090	63.070	1.00189.81	Al6S	ATOM	40411	C4' GUA	987	241.396	113.664	57.538	1.00150.57	Al
ATOM	40359	C4 CYT	984	228.217	118.158	62.254	1.00189.81	Al6S	ATOM	40412	O4' GUA	987	240.219	113.731	58.383	1.00150.57	Al
ATOM	40360	N4 CYT	984	228.143	116.904	62.706	1.00189.81	Al6S	ATOM	40413	C1' GUA	987	239.851	112.423	58.351	1.00150.57	Al
ATOM	40361	C5 CYT	984	227.766	118.468	60.940	1.00189.81	Al6S	ATOM	40414	N9 GUA	987	238.486	112.162	58.414	1.00153.73	Al
ATOM	40362	C2' CYT	984	229.464	122.350	59.811	1.00173.72	Al6S	ATOM	40415	C4 GUA	987	237.806	110.960	58.414	1.00153.73	Al
ATOM	40363	O2' CYT	984	230.083	123.606	60.000	1.00173.72	Al6S	ATOM	40416	N3 GUA	987	238.288	109.802	58.916	1.00153.73	Al
ATOM	40364	C3' CYT	984	228.535	122.288	58.558	1.00173.72	Al6S	ATOM	40417	C2 GUA	987	237.401	108.822	58.834	1.00153.73	Al
ATOM	40365	O3' CYT	984	229.161	123.036	57.484	1.00173.72	Al6S	ATOM	40418	N2 GUA	987	237.710	107.602	59.299	1.00153.73	Al
ATOM	40366	P CYT	985	230.245	122.347	56.514	1.00177.14	Al6S	ATOM	40419	N1 GUA	987	236.145	108.965	58.294	1.00153.73	Al
ATOM	40367	O1P CYT	985	230.665	123.361	55.507	1.00132.39	Al6S	ATOM	40420	C6 GUA	987	235.628	110.144	57.768	1.00153.73	Al
ATOM	40368	O2P CYT	985	229.686	121.046	56.055	1.00132.39	Al6S	ATOM	40421	O6 GUA	987	234.479	110.161	57.299	1.00153.73	Al
ATOM	40369	O5' CYT	985	232.327	123.115	57.958	1.00177.14	Al6S	ATOM	40422	C5 GUA	987	236.566	111.209	57.858	1.00153.73	Al
ATOM	40370	C4' CYT	985	233.450	122.559	58.806	1.00177.14	Al6S	ATOM	40423	N7 GUA	987	237.612	113.062	57.777	1.00153.73	Al
ATOM	40371	C4' CYT	985	232.901	121.959	60.007	1.00177.14	Al6S	ATOM	40424	C8 GUA	987	240.881	111.441	58.227	1.00150.57	Al
ATOM	40372	O4' CYT	985	233.666	120.819	60.361	1.00177.14	Al6S	ATOM	40425	C2' GUA	987	241.843	111.129	59.215	1.00150.57	Al
ATOM	40373	C1' CYT	985	232.790	119.637	60.338	1.00132.39	Al6S	ATOM	40426	O2' GUA	987	241.448	111.229	57.050	1.00150.57	Al
ATOM	40374	N1 CYT	985	231.623	119.637	59.627	1.00132.39	Al6S	ATOM	40427	C3' GUA	987	242.786	111.875	56.721	1.00150.57	Al
ATOM	40375	C6 CYT	985	233.175	118.500	61.058	1.00132.39	Al6S	ATOM	40428	O3' GUA	988	243.105	111.193	55.302	1.00126.18	Al
ATOM	40376	C2 CYT	985	234.238	118.526	61.705	1.00132.39	Al6S	ATOM	40429	P GUA	988	244.497	111.561	54.934	1.00140.95	Al
ATOM	40377	O2 CYT	985	232.381	117.403	61.032	1.00132.39	Al6S	ATOM	40430	O1P GUA	988	241.995	111.512	54.369	1.00140.95	Al
ATOM	40378	N3 CYT	985	231.246	117.416	60.339	1.00132.39	Al6S	ATOM	40431	O2P GUA	988	243.065	109.635	56.624	1.00126.18	Al
ATOM	40379	C4 CYT	985	230.491	116.314	59.591	1.00132.39	Al6S	ATOM	40432	O5' GUA	988	243.879	109.093	56.673	1.00126.18	Al
ATOM	40380	N4 CYT	985	230.831	118.560	59.591	1.00132.39	Al6S	ATOM	40433	C5' GUA	988	243.275	107.820	57.205	1.00126.18	Al
ATOM	40381	C5 CYT	985	234.819	120.690	59.366	1.00177.14	Al6S	ATOM	40434	C4' GUA	988	241.967	108.095	57.777	1.00126.18	Al
ATOM	40382	C2' CYT	985	235.990	121.254	58.165	1.00177.14	Al6S	ATOM	40435	O1' GUA	988	239.925	107.334	56.883	1.00140.95	Al
ATOM	40383	O2' CYT	985	234.279	121.456	58.165	1.00177.14	Al6S	ATOM	40436	C4' GUA	988	238.810	106.543	56.694	1.00140.95	Al
ATOM	40384	C3' CYT	985	235.325	121.977	57.358	1.00177.14	Al6S	ATOM	40437	N9 GUA	988	237.463	104.785	56.816	1.00140.95	Al
ATOM	40385	O3' CYT	986	236.052	121.024	56.290	1.00186.26	Al6S	ATOM	40438	C4 GUA	988	237.117	103.552	57.217	1.00140.95	Al
ATOM	40386	P CYT	986	235.943	121.885	55.469	1.00170.00	Al6S	ATOM	40439	N3 GUA	988	236.551	105.445	56.030	1.00140.95	Al
ATOM	40387	O1P CYT	986	236.962	120.069	57.183	1.00186.26	Al6S	ATOM	40440	C2 GUA	988	235.833	107.225	55.805	1.00140.95	Al
ATOM	40388	O2P CYT	986	238.147	120.569	57.830	1.00186.26	Al6S	ATOM	40441	N2 GUA	988	237.961	107.291	55.906	1.00140.95	Al
ATOM	40389	O5' CYT	986	238.849	119.454	58.566	1.00186.26	Al6S	ATOM	40442	N1 GUA	988	238.517	108.532	55.623	1.00140.95	Al
ATOM	40390	C5' CYT	986	237.973	118.939	59.602	1.00186.26	Al6S	ATOM	40443	C6 GUA	988	239.676	108.516	56.225	1.00140.95	Al
ATOM	40391	C4' CYT	986	238.178	117.543	59.751	1.00186.26	Al6S	ATOM	40444	O6 GUA	988	242.447	105.949	57.797	1.00126.18	Al
ATOM	40392	O4' CYT	986	236.901	116.839	59.528	1.00170.00	Al6S	ATOM	40445	C5 GUA	988	243.010	106.724	56.187	1.00126.18	Al
ATOM	40393	C1' CYT	986	236.919	117.384	58.745	1.00170.00	Al6S	ATOM	40446	N7 GUA	988	244.174	105.966	55.874	1.00126.18	Al
ATOM	40394	N1 CYT	986	236.708	115.584	60.132	1.00170.00	Al6S	ATOM	40447	C8 GUA	988	244.240	105.154	54.486	1.00140.50	Al
ATOM	40395	C6 CYT	986	237.611	115.106	60.840	1.00170.00	Al6S	ATOM	40448	O2' GUA	988	245.570	104.496	54.398	1.00140.17	Al
ATOM	40396	C2 CYT	986	235.547	114.925	59.926	1.00170.00	Al6S	ATOM	40449	O2' GUA	988	243.796	106.063	53.395	1.00140.17	Al
ATOM	40397	O2 CYT	986	233.539	115.465	59.157	1.00170.00	Al6S	ATOM	40450	C3' GUA	988	243.139	104.016	54.662	1.00140.50	Al
ATOM	40398	N3 CYT	986	234.470	114.774	58.981	1.00170.00	Al6S	ATOM	40451	P GUA	989	243.313	102.968	55.634	1.00140.50	Al
ATOM	40399	C4 CYT	986	234.766	116.739	58.534	1.00170.00	Al6S	ATOM	40452	O1P GUA	989	242.269	101.897	55.441	1.00140.50	Al
ATOM	40400	N4 CYT	986	239.262	117.114	58.764	1.00186.26	Al6S	ATOM	40453	C3' GUA	989					
ATOM	40401	C5 CYT	986	240.507	117.016	59.427	1.00186.26	Al6S	ATOM	40454	O2P GUA	989					
ATOM	40402	C2' CYT	986	239.209	118.235	57.730	1.00186.26	Al6S	ATOM	40455	O5' GUA	989					
ATOM	40403	O2' CYT	986						ATOM	40456	C5' GUA	989					
ATOM	40404	C3' CYT	986						ATOM	40457	C4' GUA	989					

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ATOM	40458	O4' GUA	989	240.965	102.392	55.841	1.00140.50	Al6S	ATOM	40511	C5 GUA	991	239.015	105.100	46.743	1.00123.24	Al
ATOM	40459	C1' GUA	989	239.966	101.864	54.981	1.00140.50	Al6S	ATOM	40512	N7 GUA	991	239.995	104.242	47.225	1.00123.24	Al
ATOM	40460	N9 GUA	989	239.288	102.980	54.322	1.00140.17	Al6S	ATOM	40513	C8 GUA	991	239.799	103.129	46.574	1.00123.24	Al
ATOM	40461	C4 GUA	989	238.064	102.941	53.686	1.00140.17	Al6S	ATOM	40514	C2' GUA	991	239.049	102.154	43.471	1.00119.74	Al
ATOM	40462	N3 GUA	989	237.272	101.854	53.548	1.00140.17	Al6S	ATOM	40515	O2' GUA	991	238.164	101.853	42.411	1.00119.74	Al
ATOM	40463	C2 GUA	989	236.159	102.132	52.887	1.00140.17	Al6S	ATOM	40516	C3' GUA	991	240.090	101.065	43.716	1.00119.74	Al
ATOM	40464	N2 GUA	989	235.262	101.161	52.656	1.00140.17	Al6S	ATOM	40517	O3' GUA	991	240.561	100.491	42.504	1.00119.74	Al
ATOM	40465	N1 GUA	989	235.843	103.381	52.404	1.00140.17	Al6S	ATOM	40518	P ADE	992	241.751	101.211	41.698	1.00107.82	Al
ATOM	40466	C6 GUA	989	236.639	104.516	52.534	1.00140.17	Al6S	ATOM	40519	O1P ADE	992	242.066	100.327	40.554	1.0095.68	Al
ATOM	40467	O6 GUA	989	236.258	105.598	52.062	1.00140.17	Al6S	ATOM	40520	O2P ADE	992	242.823	101.578	42.652	1.0095.68	Al
ATOM	40468	C5 GUA	989	237.843	104.230	53.237	1.00140.17	Al6S	ATOM	40521	O5' ADE	992	241.080	102.556	41.159	1.00107.82	Al
ATOM	40469	N7 GUA	989	238.907	105.059	53.573	1.00140.17	Al6S	ATOM	40522	C5' ADE	992	241.828	103.499	40.361	1.00107.82	Al
ATOM	40470	C8 GUA	989	239.737	104.278	54.213	1.00140.17	Al6S	ATOM	40523	C4' ADE	992	240.944	104.103	39.287	1.00107.82	Al
ATOM	40471	C2' GUA	989	240.655	100.914	53.997	1.00140.50	Al6S	ATOM	40524	O4' ADE	992	240.504	103.059	38.386	1.00107.82	Al
ATOM	40472	O2' GUA	989	240.565	99.581	54.464	1.00140.50	Al6S	ATOM	40525	C1' ADE	992	239.163	103.289	37.999	1.00107.82	Al
ATOM	40473	C3' GUA	989	242.081	101.450	54.005	1.00140.50	Al6S	ATOM	40526	N9 ADE	992	238.384	102.123	38.413	1.0095.68	Al
ATOM	40474	O3' GUA	989	243.051	100.496	53.608	1.00140.50	Al6S	ATOM	40527	C4 ADE	992	237.227	101.649	37.844	1.0095.68	Al
ATOM	40475	P URI	990	243.629	100.546	52.111	1.00144.63	Al6S	ATOM	40528	N3 ADE	992	236.544	102.180	36.816	1.0095.68	Al
ATOM	40476	O1P URI	990	244.703	99.529	52.003	1.0076.93	Al6S	ATOM	40529	C2 ADE	992	235.483	101.430	36.524	1.0095.68	Al
ATOM	40477	O2P URI	990	243.930	101.964	51.781	1.0076.93	Al6S	ATOM	40530	N1 ADE	992	235.063	100.289	37.098	1.0095.68	Al
ATOM	40478	O5' URI	990	242.393	100.068	51.227	1.00144.63	Al6S	ATOM	40531	C6 ADE	992	235.776	99.782	38.127	1.0095.68	Al
ATOM	40479	C5' URI	990	241.914	98.709	51.307	1.00144.63	Al6S	ATOM	40532	N6 ADE	992	235.371	98.641	38.693	1.0095.68	Al
ATOM	40480	C4' URI	990	240.718	98.510	50.403	1.00144.63	Al6S	ATOM	40533	C5 ADE	992	236.916	100.490	38.539	1.0095.68	Al
ATOM	40481	O4' URI	990	239.556	99.187	50.954	1.00144.63	Al6S	ATOM	40534	N7 ADE	992	237.842	100.255	39.434	1.0095.68	Al
ATOM	40482	C1' URI	990	238.742	99.673	49.897	1.00144.63	Al6S	ATOM	40535	C8 ADE	992	238.683	101.252	39.432	1.00107.82	Al
ATOM	40483	N1 URI	990	238.727	101.144	50.413	1.0076.93	Al6S	ATOM	40536	C2' ADE	992	238.714	104.619	38.606	1.00107.82	Al
ATOM	40484	C6 URI	990	239.803	101.867	49.472	1.0076.93	Al6S	ATOM	40537	O2' ADE	992	238.866	105.642	37.642	1.00107.82	Al
ATOM	40485	C2 URI	990	237.597	101.787	49.472	1.0076.93	Al6S	ATOM	40538	C3' ADE	992	239.670	104.761	39.787	1.00107.82	Al
ATOM	40486	O2 URI	990	236.615	101.184	49.064	1.0076.93	Al6S	ATOM	40539	O3' ADE	992	239.926	106.122	40.107	1.00107.82	Al
ATOM	40487	N3 URI	990	237.657	103.163	49.490	1.0076.93	Al6S	ATOM	40540	P ADE	993	239.919	106.593	41.642	1.0099.71	Al
ATOM	40488	C4 URI	990	238.706	103.948	49.927	1.0076.93	Al6S	ATOM	40541	O1P ADE	993	241.081	107.500	41.842	1.0067.78	Al
ATOM	40489	O4 URI	990	238.616	105.181	49.863	1.0076.93	Al6S	ATOM	40542	O2P ADE	993	239.785	105.358	42.477	1.0067.78	Al
ATOM	40490	C5 URI	990	239.832	103.208	50.417	1.0076.93	Al6S	ATOM	40543	O5' ADE	993	238.598	107.476	41.764	1.0099.71	Al
ATOM	40491	C2' URI	990	239.377	99.221	48.586	1.00144.63	Al6S	ATOM	40544	C5' ADE	993	237.043	108.602	40.292	1.0099.71	Al
ATOM	40492	O2' URI	990	238.805	98.004	48.150	1.00144.63	Al6S	ATOM	40545	C4' ADE	993	236.932	107.384	39.515	1.0099.71	Al
ATOM	40493	C3' URI	990	240.832	99.076	48.997	1.00144.63	Al6S	ATOM	40546	O4' ADE	993	235.618	106.862	39.619	1.0099.71	Al
ATOM	40494	O3' URI	990	241.572	98.283	48.091	1.00144.63	Al6S	ATOM	40547	C1' ADE	993	235.699	105.507	40.175	1.0067.78	Al
ATOM	40495	P URI	991	242.350	99.005	46.886	1.00119.74	Al6S	ATOM	40548	N9 ADE	993	234.845	104.449	39.936	1.0067.78	Al
ATOM	40496	O1P GUA	991	242.849	97.927	45.996	1.00123.24	Al6S	ATOM	40549	C4 ADE	993	233.171	103.229	39.170	1.0067.78	Al
ATOM	40497	O2P GUA	991	243.305	99.996	47.449	1.00123.24	Al6S	ATOM	40550	N3 ADE	993	233.565	102.105	39.785	1.0067.78	Al
ATOM	40498	O5' GUA	991	241.201	99.814	46.129	1.00119.74	Al6S	ATOM	40551	C2 ADE	993	234.687	102.144	40.536	1.0067.78	Al
ATOM	40499	C5' GUA	991	240.152	99.115	45.424	1.00119.74	Al6S	ATOM	40552	N1 ADE	993	235.090	101.024	41.143	1.0067.78	Al
ATOM	40500	C4' GUA	991	239.331	100.071	44.580	1.00119.74	Al6S	ATOM	40553	C6 ADE	993	235.523	103.749	41.313	1.0067.78	Al
ATOM	40501	O4' GUA	991	238.480	100.896	45.416	1.00119.74	Al6S	ATOM	40554	N6 ADE	993	236.664	105.020	41.020	1.0067.78	Al
ATOM	40502	C1' GUA	991	238.279	102.153	44.792	1.00119.74	Al6S	ATOM	40555	C5 ADE	993	234.793	107.846	40.447	1.0099.71	Al
ATOM	40503	N9 GUA	991	238.753	103.201	45.686	1.00123.24	Al6S	ATOM	40556	N7 ADE	993	235.871	108.548	41.259	1.0099.71	Al
ATOM	40504	C4 GUA	991	238.241	104.472	45.791	1.00123.24	Al6S	ATOM	40557	C8 ADE	993	235.462	109.855	41.649	1.0099.71	Al
ATOM	40505	N3 GUA	991	237.199	104.968	45.091	1.00123.24	Al6S	ATOM	40558	C2' ADE	993	234.637	110.062	43.016	1.0068.48	Al
ATOM	40506	C2 GUA	991	236.945	106.228	45.407	1.00123.24	Al6S	ATOM	40559	O3' ADE	993	234.396	111.523	43.127	1.0068.48	Al
ATOM	40507	N2 GUA	991	235.943	106.879	44.801	1.00123.24	Al6S	ATOM	40560	C3' ADE	993					Al
ATOM	40508	N1 GUA	991	237.654	106.941	46.342	1.00123.24	Al6S	ATOM	40561	O3' ADE	994					Al
ATOM	40509	C6 GUA	991	238.724	106.448	47.083	1.00123.24	Al6S	ATOM	40562	P ADE	994					Al
ATOM	40510	O6 GUA	991	239.282	107.171	47.921	1.00123.24	Al6S	ATOM	40563	O1P ADE	994					Al

ATOM	40564	O2P	ADE	994	235.322	109.340	44.122	1.00	68.48	Al6s	ATOM	40617	C2	CYT	996	232.413	103.097	50.478	1.00	79.35	Al
ATOM	40565	O5'	ADE	994	233.245	109.329	42.763	1.00	93.79	Al6s	ATOM	40618	O2	CYT	996	232.997	102.004	50.571	1.00	79.35	Al
ATOM	40566	C5'	ADE	994	232.218	109.928	41.945	1.00	93.79	Al6s	ATOM	40619	N3	CYT	996	233.079	104.271	50.599	1.00	79.35	Al
ATOM	40567	C4'	ADE	994	231.106	108.936	41.703	1.00	93.79	Al6s	ATOM	40620	C4	CYT	996	232.414	105.430	50.506	1.00	79.35	Al
ATOM	40568	O4'	ADE	994	231.677	107.764	41.072	1.00	93.79	Al6s	ATOM	40621	N4	CYT	996	233.115	106.566	50.612	1.00	79.35	Al
ATOM	40569	C1'	ADE	994	231.062	106.594	41.577	1.00	93.79	Al6s	ATOM	40622	C5	CYT	996	231.000	105.477	50.295	1.00	79.35	Al
ATOM	40570	N9	ADE	994	232.083	105.816	42.271	1.00	68.48	Al6s	ATOM	40623	C2'	CYT	996	229.715	101.350	51.412	1.00	114.63	Al
ATOM	40571	C4	ADE	994	232.066	104.458	42.462	1.00	68.48	Al6s	ATOM	40624	O2'	CYT	996	229.710	99.936	51.433	1.00	114.63	Al
ATOM	40572	N3	ADE	994	231.122	103.592	42.057	1.00	68.48	Al6s	ATOM	40625	C3'	CYT	996	228.313	101.935	51.340	1.00	114.63	Al
ATOM	40573	C2	ADE	994	231.448	102.350	42.406	1.00	68.48	Al6s	ATOM	40626	O3'	CYT	996	227.401	101.243	52.173	1.00	114.63	Al
ATOM	40574	N1	ADE	994	232.527	101.910	43.065	1.00	68.48	Al6s	ATOM	40627	P	CYT	997	227.143	101.770	53.668	1.00	160.45	Al
ATOM	40575	C6	ADE	994	233.457	102.811	43.460	1.00	68.48	Al6s	ATOM	40628	O1P	CYT	997	226.098	100.876	54.228	1.00	84.04	Al
ATOM	40576	N6	ADE	994	234.539	102.377	44.116	1.00	68.48	Al6s	ATOM	40629	O2P	CYT	997	226.914	103.242	53.637	1.00	84.04	Al
ATOM	40577	C5	ADE	994	233.229	104.161	43.150	1.00	68.48	Al6s	ATOM	40630	O5'	CYT	997	228.526	101.496	54.415	1.00	160.45	Al
ATOM	40578	N7	ADE	994	233.964	105.313	43.398	1.00	68.48	Al6s	ATOM	40631	C5'	CYT	997	228.967	100.149	54.683	1.00	160.45	Al
ATOM	40579	C8	ADE	994	233.244	106.265	42.861	1.00	68.48	Al6s	ATOM	40632	C4'	CYT	997	230.307	100.151	55.389	1.00	160.45	Al
ATOM	40580	C2'	ADE	994	229.946	107.024	42.522	1.00	93.79	Al6s	ATOM	40633	O4'	CYT	997	231.326	100.703	54.514	1.00	160.45	Al
ATOM	40581	O2'	ADE	994	228.716	107.036	41.825	1.00	93.79	Al6s	ATOM	40634	C1'	CYT	997	232.311	101.372	55.288	1.00	160.45	Al
ATOM	40582	C3'	ADE	994	230.432	108.400	42.957	1.00	93.79	Al6s	ATOM	40635	N1	CYT	997	232.339	102.799	54.914	1.00	84.04	Al
ATOM	40583	O3'	ADE	994	229.370	109.234	43.393	1.00	93.79	Al6s	ATOM	40636	C6	CYT	997	233.568	103.482	54.948	1.00	84.04	Al
ATOM	40584	P	GUA	995	229.157	109.491	44.964	1.00	104.44	Al6s	ATOM	40637	C2	CYT	997	234.602	102.857	55.250	1.00	84.04	Al
ATOM	40585	O1P	GUA	995	227.915	110.303	45.082	1.00	79.69	Al6s	ATOM	40638	O2	CYT	997	233.597	102.804	54.657	1.00	84.04	Al
ATOM	40586	O2P	GUA	995	230.435	110.003	45.531	1.00	79.69	Al6s	ATOM	40639	N3	CYT	997	232.469	105.446	54.346	1.00	84.04	Al
ATOM	40587	O5'	GUA	995	228.902	108.041	45.576	1.00	104.44	Al6s	ATOM	40640	C4	CYT	997	232.547	106.758	54.092	1.00	84.04	Al
ATOM	40588	C5'	GUA	995	227.852	107.208	45.064	1.00	104.44	Al6s	ATOM	40641	N4	CYT	997	231.210	104.774	54.287	1.00	84.04	Al
ATOM	40589	C4'	GUA	995	228.131	105.756	45.367	1.00	104.44	Al6s	ATOM	40642	C5	CYT	997	231.924	101.220	56.757	1.00	160.45	Al
ATOM	40590	O4'	GUA	995	229.432	105.399	44.843	1.00	104.44	Al6s	ATOM	40643	O2'	CYT	997	232.619	100.131	57.328	1.00	160.45	Al
ATOM	40591	C1'	GUA	995	230.039	104.436	45.684	1.00	79.69	Al6s	ATOM	40644	C3'	CYT	997	230.422	100.987	56.654	1.00	160.45	Al
ATOM	40592	N9	GUA	995	231.280	104.997	46.207	1.00	79.69	Al6s	ATOM	40645	O3'	CYT	997	229.905	100.354	57.813	1.00	160.45	Al
ATOM	40593	C4	GUA	995	232.354	104.279	46.673	1.00	79.69	Al6s	ATOM	40646	P	URI	998	229.419	101.257	59.054	1.00	150.32	Al
ATOM	40594	N3	GUA	995	233.451	102.931	46.705	1.00	79.69	Al6s	ATOM	40647	O1P	URI	998	229.037	100.311	60.133	1.00	132.07	Al
ATOM	40595	C2	GUA	995	233.602	102.530	47.215	1.00	79.69	Al6s	ATOM	40648	O2P	URI	998	228.431	102.259	58.576	1.00	132.07	Al
ATOM	40596	N2	GUA	995	234.575	103.389	47.670	1.00	79.69	Al6s	ATOM	40649	O5'	URI	998	230.735	102.042	59.501	1.00	150.32	Al
ATOM	40597	N1	GUA	995	234.490	104.779	47.656	1.00	79.69	Al6s	ATOM	40650	C5'	URI	998	231.874	101.326	60.015	1.00	150.32	Al
ATOM	40598	C6	GUA	995	235.417	105.457	48.109	1.00	79.69	Al6s	ATOM	40651	C4'	URI	998	233.054	102.252	60.206	1.00	150.32	Al
ATOM	40599	O6	GUA	995	233.268	105.221	47.096	1.00	79.69	Al6s	ATOM	40652	O4'	URI	998	233.960	104.143	59.154	1.00	150.32	Al
ATOM	40600	C5	GUA	995	232.786	106.508	46.885	1.00	79.69	Al6s	ATOM	40653	N1	URI	998	233.128	105.146	58.468	1.00	132.07	Al
ATOM	40601	N7	GUA	995	231.606	106.327	46.354	1.00	79.69	Al6s	ATOM	40654	C1'	URI	998	233.741	106.331	58.074	1.00	132.07	Al
ATOM	40602	C8	GUA	995	229.054	104.108	46.804	1.00	104.44	Al6s	ATOM	40655	N3	URI	998	234.934	106.546	58.227	1.00	132.07	Al
ATOM	40603	C2'	GUA	995	228.197	105.367	46.834	1.00	104.44	Al6s	ATOM	40656	O2	URI	998	232.904	107.120	57.264	1.00	132.07	Al
ATOM	40604	O2'	GUA	995	226.902	105.115	47.361	1.00	104.44	Al6s	ATOM	40657	N3	URI	998	231.549	107.254	57.494	1.00	132.07	Al
ATOM	40605	C3'	GUA	995	226.620	105.358	48.922	1.00	114.63	Al6s	ATOM	40658	O4	URI	998	230.923	108.065	56.782	1.00	132.07	Al
ATOM	40606	P	CYT	996	227.283	106.633	49.331	1.00	79.35	Al6s	ATOM	40659	C5	URI	998	230.993	105.864	57.672	1.00	132.07	Al
ATOM	40607	O1P	CYT	996	227.349	104.130	49.624	1.00	114.63	Al6s	ATOM	40660	C2'	URI	998	235.256	104.074	61.170	1.00	150.32	Al
ATOM	40608	O5'	CYT	996	227.971	101.802	49.864	1.00	114.63	Al6s	ATOM	40661	O2'	URI	998	232.879	103.440	61.142	1.00	150.32	Al
ATOM	40609	C4'	CYT	996	229.235	102.028	49.185	1.00	114.63	Al6s	ATOM	40662	O3'	URI	998	233.019	103.092	62.522	1.00	150.32	Al
ATOM	40610	O4'	CYT	996	230.309	101.834	50.092	1.00	114.63	Al6s	ATOM	40663	P	GUA	999	232.611	104.158	63.665	1.00	167.43	Al
ATOM	40611	C1'	CYT	996	231.025	103.116	50.248	1.00	79.35	Al6s	ATOM	40664	O1P	GUA	999	232.508	103.410	64.944	1.00	167.43	Al
ATOM	40612	N1	CYT	996	230.354	104.310	50.171	1.00	79.35	Al6s	ATOM	40665	O2P	GUA	999	231.461	104.981	63.204	1.00	167.43	Al

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ATOM	40670	OS' GUA	999	233.885	105.108	63.762	1.00167.43	Al6S	ATOM	40723	N3 GUA	1001	233.739	119.140	65.028	1.00183.63	Al
ATOM	40671	CS' GUA	999	235.172	104.562	64.100	1.00167.43	Al6S	ATOM	40724	C2 GUA	1001	232.703	119.619	64.355	1.00183.63	Al
ATOM	40672	CA' GUA	999	236.199	105.660	64.235	1.00167.43	Al6S	ATOM	40725	N2 GUA	1001	232.619	120.934	64.102	1.00183.63	Al
ATOM	40673	CA' GUA	999	236.541	106.206	62.933	1.00167.43	Al6S	ATOM	40726	N1 GUA	1001	231.675	118.845	63.879	1.00183.63	Al
ATOM	40674	CI' GUA	999	236.872	107.582	63.068	1.00167.43	Al6S	ATOM	40727	C6 GUA	1001	231.576	117.465	64.026	1.00183.63	Al
ATOM	40675	N9 GUA	999	235.971	108.382	62.236	1.00146.35	Al6S	ATOM	40728	C5 GUA	1001	230.601	116.864	63.566	1.00183.63	Al
ATOM	40676	C4 GUA	999	236.060	109.744	62.012	1.00146.35	Al6S	ATOM	40729	O6 GUA	1001	232.684	116.936	64.733	1.00183.63	Al
ATOM	40677	N3 GUA	999	237.011	110.573	62.503	1.00146.35	Al6S	ATOM	40730	N7 GUA	1001	232.977	115.626	65.087	1.00183.63	Al
ATOM	40678	C2 GUA	999	236.821	111.828	62.124	1.00146.35	Al6S	ATOM	40731	C8 GUA	1001	234.104	115.710	65.739	1.00183.63	Al
ATOM	40679	N2 GUA	999	237.675	112.783	62.519	1.00146.35	Al6S	ATOM	40732	C2' GUA	1001	235.560	118.708	67.384	1.00151.98	Al
ATOM	40680	N1 GUA	999	235.779	112.238	61.330	1.00146.35	Al6S	ATOM	40733	O2' GUA	1001	236.757	119.460	67.446	1.00151.98	Al
ATOM	40681	C6 GUA	999	234.788	111.407	60.813	1.00146.35	Al6S	ATOM	40734	C3' GUA	1001	235.139	118.141	68.733	1.00151.98	Al
ATOM	40682	O6 GUA	999	233.889	111.885	60.109	1.00146.35	Al6S	ATOM	40735	O3' GUA	1001	235.333	119.029	69.821	1.00151.98	Al
ATOM	40683	C5 GUA	999	234.982	110.053	61.208	1.00146.35	Al6S	ATOM	40736	P GUA	1002	234.121	119.289	70.844	1.00201.05	Al
ATOM	40684	N7 GUA	999	234.240	108.915	60.917	1.00146.35	Al6S	ATOM	40737	O1P GUA	1002	234.339	120.611	71.481	1.00148.09	Al
ATOM	40685	C8 GUA	999	236.863	107.950	61.542	1.00167.43	Al6S	ATOM	40738	O2P GUA	1002	233.970	118.079	71.633	1.00148.09	Al
ATOM	40686	C2' GUA	999	236.741	107.945	61.549	1.00167.43	Al6S	ATOM	40739	O5' GUA	1002	232.839	119.393	69.903	1.00201.05	Al
ATOM	40687	O2' GUA	999	238.012	107.912	65.172	1.00167.43	Al6S	ATOM	40740	C5' GUA	1002	232.616	120.549	69.069	1.00201.05	Al
ATOM	40688	C3' GUA	999	235.783	106.870	65.052	1.00167.43	Al6S	ATOM	40741	C4' GUA	1002	231.275	120.447	68.376	1.00201.05	Al
ATOM	40689	O3' GUA	999	235.872	106.651	66.454	1.00167.43	Al6S	ATOM	40742	O4' GUA	1002	231.328	119.462	67.310	1.00201.05	Al
ATOM	40690	P GUA	1000	234.736	107.256	67.425	1.00159.12	Al6S	ATOM	40743	CI' GUA	1002	230.070	118.811	67.196	1.00201.05	Al
ATOM	40691	O1P GUA	1000	235.028	106.778	68.798	1.00156.58	Al6S	ATOM	40744	N9 GUA	1002	230.263	117.365	67.335	1.00148.09	Al
ATOM	40692	O2P GUA	1000	233.404	106.981	66.819	1.00156.58	Al6S	ATOM	40745	C4 GUA	1002	229.339	116.380	67.043	1.00148.09	Al
ATOM	40693	O5' GUA	1000	234.991	108.830	67.387	1.00159.12	Al6S	ATOM	40746	N3 GUA	1002	228.084	116.577	66.580	1.00148.09	Al
ATOM	40694	CS' GUA	1000	236.332	109.363	67.381	1.00159.12	Al6S	ATOM	40747	C2 GUA	1002	227.437	115.437	66.404	1.00148.09	Al
ATOM	40695	CA' GUA	1000	236.365	110.688	66.656	1.00159.12	Al6S	ATOM	40748	N2 GUA	1002	226.177	115.450	65.951	1.00148.09	Al
ATOM	40696	CA' GUA	1000	235.816	110.517	65.322	1.00159.12	Al6S	ATOM	40749	N1 GUA	1002	227.976	114.199	66.660	1.00148.09	Al
ATOM	40697	CI' GUA	1000	235.065	111.665	64.954	1.00156.58	Al6S	ATOM	40750	O6 GUA	1002	229.262	115.187	67.331	1.00148.09	Al
ATOM	40698	N9 GUA	1000	232.699	111.988	64.080	1.00156.58	Al6S	ATOM	40751	C6 GUA	1002	229.647	112.809	67.339	1.00148.09	Al
ATOM	40699	C4 GUA	1000	232.860	113.200	63.506	1.00156.58	Al6S	ATOM	40752	C5 GUA	1002	229.972	115.187	67.331	1.00148.09	Al
ATOM	40700	N3 GUA	1000	231.736	113.646	62.971	1.00156.58	Al6S	ATOM	40753	N7 GUA	1002	231.263	115.412	67.790	1.00148.09	Al
ATOM	40701	C2 GUA	1000	231.720	114.829	62.355	1.00156.58	Al6S	ATOM	40754	C8 GUA	1002	231.392	116.712	67.777	1.00148.09	Al
ATOM	40702	N2 GUA	1000	230.547	112.962	62.999	1.00156.58	Al6S	ATOM	40755	C2' GUA	1002	229.132	119.416	68.245	1.00201.05	Al
ATOM	40703	N1 GUA	1000	230.356	111.713	63.581	1.00156.58	Al6S	ATOM	40756	O2' GUA	1002	228.319	120.401	67.638	1.00201.05	Al
ATOM	40704	C6 GUA	1000	229.239	111.184	63.550	1.00156.58	Al6S	ATOM	40757	C3' GUA	1002	230.118	120.000	69.253	1.00201.05	Al
ATOM	40705	O6 GUA	1000	231.555	111.218	64.156	1.00156.58	Al6S	ATOM	40758	O3' GUA	1002	229.571	121.074	70.007	1.00201.05	Al
ATOM	40706	C5 GUA	1000	231.805	110.028	64.827	1.00156.58	Al6S	ATOM	40759	P URI	1003	228.946	120.782	71.460	1.00200.54	Al
ATOM	40707	N7 GUA	1000	233.070	110.095	65.147	1.00156.58	Al6S	ATOM	40760	O1P URI	1003	228.488	122.090	72.006	1.00156.38	Al
ATOM	40708	C8 GUA	1000	235.210	112.685	66.084	1.00159.12	Al6S	ATOM	40761	O2P URI	1003	229.929	119.975	72.230	1.00156.38	Al
ATOM	40709	C2' GUA	1000	236.269	113.579	65.792	1.00159.12	Al6S	ATOM	40762	O5' URI	1003	227.676	119.866	71.138	1.00200.54	Al
ATOM	40710	O2' GUA	1000	235.514	111.783	67.274	1.00159.12	Al6S	ATOM	40763	C5' URI	1003	226.338	120.327	71.409	1.00200.54	Al
ATOM	40711	C3' GUA	1000	236.206	112.471	68.303	1.00159.12	Al6S	ATOM	40764	CA' URI	1003	225.980	121.454	70.468	1.00200.54	Al
ATOM	40712	O3' GUA	1000	235.373	113.198	69.470	1.00151.98	Al6S	ATOM	40765	O4' URI	1003	225.806	120.949	69.117	1.00200.54	Al
ATOM	40713	P GUA	1001	233.585	112.420	70.717	1.00183.63	Al6S	ATOM	40766	CI' URI	1003	224.848	121.748	68.434	1.00200.54	Al
ATOM	40714	O1P GUA	1001	233.986	113.444	68.987	1.00183.63	Al6S	ATOM	40767	N1 URI	1003	223.779	120.889	67.889	1.00156.38	Al
ATOM	40715	O2P GUA	1001	236.112	114.601	69.624	1.00151.98	Al6S	ATOM	40768	C6 URI	1003	223.515	119.639	68.409	1.00156.38	Al
ATOM	40716	O5' GUA	1001	235.364	115.823	69.723	1.00151.98	Al6S	ATOM	40769	C2 URI	1003	223.033	121.387	66.822	1.00156.38	Al
ATOM	40717	CS' GUA	1001	236.985	116.889	68.855	1.00151.98	Al6S	ATOM	40770	O3 URI	1003	222.056	120.545	66.358	1.00156.38	Al
ATOM	40718	CA' GUA	1001	235.110	116.397	67.494	1.00151.98	Al6S	ATOM	40771	N2 URI	1003	221.747	119.292	66.832	1.00156.38	Al
ATOM	40719	CA' GUA	1001	235.775	117.426	66.571	1.00151.98	Al6S	ATOM	40772	C4 URI	1003	220.848	118.653	66.293	1.00156.38	Al
ATOM	40720	CI' GUA	1001	234.573	116.998	65.852	1.00183.63	Al6S	ATOM	40773	O4 URI	1003	222.551	118.848	67.931	1.00156.38	Al
ATOM	40721	N9 GUA	1001	233.665	117.797	65.180	1.00183.63	Al6S	ATOM	40774	C5 URI	1003	224.336	122.806	69.415	1.00200.54	Al
ATOM	40722	CA GUA	1001					Al6S	ATOM	40775	C2' URI	1003					Al

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ATOM	40776	02' URI	1003	225.004	124.033	69.182	1.00200.54	Al65	ATOM	40829	C1' CYT	1006	210.666	128.072	71.402	1.00201.09	Al
ATOM	40777	C3' URI	1003	224.682	122.183	70.764	1.00200.54	Al65	ATOM	40830	N1 CYT	1006	211.543	126.907	71.629	1.00141.18	Al
ATOM	40778	03' URI	1003	224.868	123.175	71.765	1.00200.54	Al65	ATOM	40831	C6 CYT	1006	212.902	127.055	71.739	1.00141.18	Al
ATOM	40779	P GUA	1004	224.179	122.993	73.205	1.00174.66	Al65	ATOM	40832	C2 CYT	1006	210.960	125.636	71.747	1.00141.18	Al
ATOM	40780	01P GUA	1004	225.224	122.444	74.106	1.00170.13	Al65	ATOM	40833	02 CYT	1006	209.725	125.522	71.622	1.00141.18	Al
ATOM	40781	02P GUA	1004	222.889	122.266	73.053	1.00170.13	Al65	ATOM	40834	N3 CYT	1006	211.755	124.566	71.988	1.00141.18	Al
ATOM	40782	05' GUA	1004	223.869	124.488	73.659	1.00174.66	Al65	ATOM	40835	C4 CYT	1006	213.076	124.725	72.105	1.00141.18	Al
ATOM	40783	C5' GUA	1004	222.621	125.126	73.322	1.00174.66	Al65	ATOM	40836	N4 CYT	1006	213.816	123.640	72.354	1.00141.18	Al
ATOM	40784	C4' GUA	1004	222.826	126.104	72.191	1.00174.66	Al65	ATOM	40837	C5 CYT	1006	213.697	126.003	71.976	1.00141.18	Al
ATOM	40785	04' GUA	1004	223.225	125.371	71.002	1.00174.66	Al65	ATOM	40838	C2' CYT	1006	210.305	128.769	72.713	1.00201.09	Al
ATOM	40786	C1' GUA	1004	222.641	125.964	69.850	1.00174.66	Al65	ATOM	40839	02' CYT	1006	208.984	129.268	72.641	1.00201.09	Al
ATOM	40787	N9 GUA	1004	221.741	124.993	69.226	1.00170.13	Al65	ATOM	40840	C3' CYT	1006	211.361	129.866	72.776	1.00201.09	Al
ATOM	40788	C4 GUA	1004	221.040	125.167	68.053	1.00170.13	Al65	ATOM	40841	03' CYT	1006	210.960	130.953	73.598	1.00201.09	Al
ATOM	40789	N3 GUA	1004	221.070	126.264	67.267	1.00170.13	Al65	ATOM	40842	P CYT	1007	211.242	130.891	75.181	1.00200.42	Al
ATOM	40790	C2 GUA	1004	220.275	126.142	66.220	1.00170.13	Al65	ATOM	40843	01P CYT	1007	210.925	132.228	75.392	1.00138.30	Al
ATOM	40791	N2 GUA	1004	220.180	127.146	65.337	1.00170.13	Al65	ATOM	40844	02P CYT	1007	212.592	130.303	75.392	1.00138.30	Al
ATOM	40792	N1 GUA	1004	219.515	125.028	65.961	1.00170.13	Al65	ATOM	40845	05' CYT	1007	210.171	129.841	75.718	1.00200.42	Al
ATOM	40793	C6 GUA	1004	219.471	123.886	66.754	1.00170.13	Al65	ATOM	40846	C5' CYT	1007	208.757	130.082	75.575	1.00200.42	Al
ATOM	40794	C5 GUA	1004	218.753	122.936	66.428	1.00170.13	Al65	ATOM	40847	C4' CYT	1007	207.977	128.826	75.891	1.00200.42	Al
ATOM	40795	C5 GUA	1004	220.315	124.006	67.883	1.00170.13	Al65	ATOM	40848	04' CYT	1007	208.318	127.793	74.928	1.00200.42	Al
ATOM	40796	N7 GUA	1004	220.559	123.115	68.919	1.00170.13	Al65	ATOM	40849	C1' CYT	1007	208.334	126.525	75.568	1.00200.42	Al
ATOM	40797	C8 GUA	1004	221.407	123.740	69.690	1.00170.13	Al65	ATOM	40850	N1 CYT	1007	209.701	125.967	75.485	1.00138.30	Al
ATOM	40798	C2' GUA	1004	221.891	127.213	70.312	1.00174.66	Al65	ATOM	40851	C6 CYT	1007	210.786	126.782	75.300	1.00138.30	Al
ATOM	40799	02' GUA	1004	222.721	128.352	70.181	1.00174.66	Al65	ATOM	40852	C2 CYT	1007	209.876	124.577	75.621	1.00138.30	Al
ATOM	40800	C3' GUA	1004	221.583	126.864	71.761	1.00174.66	Al65	ATOM	40853	02 CYT	1007	208.876	123.850	75.774	1.00138.30	Al
ATOM	40801	03' GUA	1004	221.346	128.020	72.549	1.00174.66	Al65	ATOM	40854	N3 CYT	1007	211.132	124.064	75.584	1.00138.30	Al
ATOM	40802	P CYT	1005	219.858	128.326	73.077	1.00200.24	Al65	ATOM	40855	C4 CYT	1007	212.182	124.874	75.416	1.00138.30	Al
ATOM	40803	01P CYT	1005	219.796	129.776	73.406	1.00168.30	Al65	ATOM	40856	N4 CYT	1007	213.400	124.326	75.400	1.00138.30	Al
ATOM	40804	02P CYT	1005	219.537	127.322	74.124	1.00168.30	Al65	ATOM	40857	C5 CYT	1007	212.030	126.285	75.261	1.00138.30	Al
ATOM	40805	05' CYT	1005	218.922	128.045	71.813	1.00200.24	Al65	ATOM	40858	C2' CYT	1007	207.896	126.733	77.019	1.00200.42	Al
ATOM	40806	C5' CYT	1005	219.071	128.801	70.587	1.00200.24	Al65	ATOM	40859	02' CYT	1007	206.511	126.477	77.148	1.00200.42	Al
ATOM	40807	C4' CYT	1005	218.019	128.397	69.569	1.00200.24	Al65	ATOM	40860	C3' CYT	1007	208.268	128.194	77.244	1.00200.42	Al
ATOM	40808	04' CYT	1005	218.245	127.037	69.115	1.00200.24	Al65	ATOM	40861	03' CYT	1007	207.540	128.192	78.310	1.00200.42	Al
ATOM	40809	C1' CYT	1005	217.002	126.423	68.813	1.00200.24	Al65	ATOM	40862	P CYT	1008	208.053	128.597	79.823	1.00166.08	Al
ATOM	40810	N1 CYT	1005	216.895	125.148	69.563	1.00168.30	Al65	ATOM	40863	01P CYT	1008	207.156	129.384	80.711	1.00158.27	Al
ATOM	40811	C6 CYT	1005	217.963	124.658	70.267	1.00168.30	Al65	ATOM	40864	02P CYT	1008	209.520	128.838	79.867	1.00158.27	Al
ATOM	40812	C2 CYT	1005	215.679	124.435	69.540	1.00168.30	Al65	ATOM	40865	05' CYT	1008	207.798	127.048	80.101	1.00166.08	Al
ATOM	40813	02 CYT	1005	214.718	124.892	68.900	1.00168.30	Al65	ATOM	40866	C5' CYT	1008	206.458	126.540	80.255	1.00166.08	Al
ATOM	40814	N3 CYT	1005	215.585	123.267	70.219	1.00168.30	Al65	ATOM	40867	C4' CYT	1008	206.859	124.159	79.922	1.00166.08	Al
ATOM	40815	C4 CYT	1005	216.636	122.803	70.900	1.00168.30	Al65	ATOM	40868	04' CYT	1008	206.859	124.159	79.922	1.00166.08	Al
ATOM	40816	N4 CYT	1005	216.494	121.647	71.555	1.00168.30	Al65	ATOM	40869	C1' CYT	1008	207.587	123.126	80.569	1.00166.08	Al
ATOM	40817	C5 CYT	1005	217.878	123.502	70.941	1.00168.30	Al65	ATOM	40870	N1 CYT	1008	208.947	123.074	80.000	1.00158.27	Al
ATOM	40818	C2' CYT	1005	215.889	127.442	69.091	1.00200.24	Al65	ATOM	40871	C6 CYT	1008	209.550	124.205	79.520	1.00158.27	Al
ATOM	40819	02' CYT	1005	215.499	128.039	67.872	1.00200.24	Al65	ATOM	40872	C2 CYT	1008	209.631	121.848	79.982	1.00158.27	Al
ATOM	40820	C3' CYT	1005	216.574	128.420	70.042	1.00200.24	Al65	ATOM	40873	02 CYT	1008	209.056	120.825	80.393	1.00158.27	Al
ATOM	40821	03' CYT	1005	216.028	129.731	69.925	1.00200.24	Al65	ATOM	40874	N3 CYT	1008	210.901	121.810	79.513	1.00158.27	Al
ATOM	40822	P CYT	1006	215.452	130.479	71.228	1.00201.09	Al65	ATOM	40875	C4 CYT	1008	211.482	129.926	79.063	1.00158.27	Al
ATOM	40823	01P CYT	1006	215.486	131.940	70.924	1.00141.18	Al65	ATOM	40876	N4 CYT	1008	212.739	122.844	78.618	1.00158.27	Al
ATOM	40824	02P CYT	1006	216.160	129.964	72.432	1.00141.18	Al65	ATOM	40877	C5 CYT	1008	210.803	124.177	79.050	1.00158.27	Al
ATOM	40825	05' CYT	1006	213.936	129.994	71.317	1.00201.09	Al65	ATOM	40878	C2' CYT	1008	207.633	123.458	82.061	1.00166.08	Al
ATOM	40826	C5' CYT	1006	212.853	130.866	70.934	1.00201.09	Al65	ATOM	40879	02' CYT	1008	206.594	122.776	82.733	1.00166.08	Al
ATOM	40827	C4' CYT	1006	211.526	130.254	71.314	1.00201.09	Al65	ATOM	40880	C3' CYT	1008	207.451	124.972	82.046	1.00166.08	Al
ATOM	40828	04' CYT	1006	211.354	129.008	70.590	1.00201.09	Al65	ATOM	40881	03' CYT	1008	206.984	125.498	83.284	1.00166.08	Al

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ATOM	40882	P	GUA	1009	208.023	126.233	84.274	1.00200.80	Al65	ATOM	40935	N3	GUA	1011	215.579	117.229	89.050	1.00141.03	Al
ATOM	40883	01P	GUA	1009	207.279	126.626	85.497	1.00188.33	Al65	ATOM	40936	C2	GUA	1011	214.549	116.447	89.346	1.00141.03	Al
ATOM	40884	02P	GUA	1009	208.774	127.265	83.508	1.00188.33	Al65	ATOM	40937	N2	GUA	1011	214.762	115.242	89.904	1.00141.03	Al
ATOM	40885	05' GUA	1009	209.045	125.079	84.677	1.00200.80	Al65	ATOM	40938	N1	GUA	1011	213.236	116.788	89.117	1.00141.03	Al	
ATOM	40886	C5' GUA	1009	208.575	123.841	85.249	1.00200.80	Al65	ATOM	40939	C6	GUA	1011	212.806	117.987	88.553	1.00141.03	Al	
ATOM	40887	C4' GUA	1009	209.708	122.849	85.362	1.00200.80	Al65	ATOM	40940	O6	GUA	1011	211.593	118.194	88.388	1.00141.03	Al	
ATOM	40888	O4' GUA	1009	210.197	122.517	84.035	1.00200.80	Al65	ATOM	40941	C5	GUA	1011	213.903	118.838	88.234	1.00141.03	Al	
ATOM	40889	C1' GUA	1009	211.604	122.338	83.193	1.00188.33	Al65	ATOM	40942	N7	GUA	1011	213.924	120.105	87.668	1.00141.03	Al	
ATOM	40890	N9	GUA	1009	212.221	123.331	83.193	1.00188.33	Al65	ATOM	40943	C8	GUA	1011	215.191	120.409	87.598	1.00141.03	Al
ATOM	40891	C4	GUA	1009	213.542	123.374	82.807	1.00188.33	Al65	ATOM	40944	C2' GUA	1011	218.110	118.802	86.894	1.00182.60	Al	
ATOM	40892	N3	GUA	1009	214.504	122.497	83.167	1.00188.33	Al65	ATOM	40945	O2' GUA	1011	219.280	118.101	87.267	1.00182.60	Al	
ATOM	40893	C2	GUA	1009	215.678	122.809	82.644	1.00188.33	Al65	ATOM	40946	C3' GUA	1011	218.391	120.029	86.034	1.00182.60	Al	
ATOM	40894	N2	GUA	1009	216.749	122.045	82.901	1.00188.33	Al65	ATOM	40947	O3' GUA	1011	219.473	119.816	85.128	1.00182.60	Al	
ATOM	40895	N1	GUA	1009	215.892	123.895	81.831	1.00188.33	Al65	ATOM	40948	P	ADE	1012	219.207	119.075	83.726	1.00186.36	Al
ATOM	40896	C6	GUA	1009	214.919	124.813	81.449	1.00188.33	Al65	ATOM	40949	01P	ADE	1012	220.482	119.079	82.968	1.00147.17	Al
ATOM	40897	O6	GUA	1009	215.223	125.764	80.715	1.00188.33	Al65	ATOM	40950	02P	ADE	1012	217.991	119.658	83.112	1.00147.17	Al
ATOM	40898	C5	GUA	1009	213.652	124.490	82.002	1.00188.33	Al65	ATOM	40951	O5' ADE	1012	218.880	117.571	84.139	1.00186.36	Al	
ATOM	40899	N7	GUA	1009	212.426	125.131	81.878	1.00188.33	Al65	ATOM	40952	C5' ADE	1012	219.911	116.707	84.650	1.00186.36	Al	
ATOM	40900	C8	GUA	1009	211.609	124.410	82.596	1.00188.33	Al65	ATOM	40953	C4' ADE	1012	219.361	115.325	84.921	1.00186.36	Al	
ATOM	40901	C2' GUA	1009	211.609	124.410	82.596	1.00188.33	Al65	ATOM	40954	O4' ADE	1012	218.393	115.378	86.001	1.00186.36	Al		
ATOM	40902	O2' GUA	1009	212.051	122.484	85.529	1.00200.80	Al65	ATOM	40955	C1' ADE	1012	217.413	114.371	85.808	1.00186.36	Al		
ATOM	40903	C3' GUA	1009	212.120	121.204	86.123	1.00200.80	Al65	ATOM	40956	N9	ADE	1012	216.082	114.984	85.797	1.00147.17	Al	
ATOM	40904	O3' GUA	1009	210.935	123.345	86.111	1.00200.80	Al65	ATOM	40957	C4	ADE	1012	214.926	114.375	86.226	1.00147.17	Al	
ATOM	40905	P	CYT	1010	210.788	123.192	87.519	1.00200.80	Al65	ATOM	40958	N3	ADE	1012	214.797	113.139	86.742	1.00147.17	Al
ATOM	40906	01P	CYT	1010	211.130	124.427	88.496	1.00195.63	Al65	ATOM	40959	C2	ADE	1012	213.525	112.884	87.040	1.00147.17	Al
ATOM	40907	02P	CYT	1010	210.442	124.140	89.779	1.00124.55	Al65	ATOM	40960	N1	ADE	1012	212.446	113.653	86.890	1.00147.17	Al
ATOM	40908	O5' CYT	1010	210.853	125.710	87.783	1.00124.55	Al65	ATOM	40961	C6	ADE	1012	212.608	114.898	86.364	1.00147.17	Al	
ATOM	40909	C5' CYT	1010	212.703	124.309	88.739	1.00195.63	Al65	ATOM	40962	N6	ADE	1012	211.531	115.671	86.206	1.00147.17	Al	
ATOM	40910	C4' CYT	1010	213.507	125.477	89.015	1.00195.63	Al65	ATOM	40963	C5	ADE	1012	213.913	115.293	86.011	1.00147.17	Al	
ATOM	40911	O4' CYT	1010	214.840	125.068	89.597	1.00195.63	Al65	ATOM	40964	N7	ADE	1012	214.420	116.466	85.465	1.00147.17	Al	
ATOM	40912	C1' CYT	1010	215.553	123.411	91.096	1.00195.63	Al65	ATOM	40965	C8	ADE	1012	215.707	116.234	85.361	1.00147.17	Al	
ATOM	40913	N1	CYT	1010	214.800	122.166	91.369	1.00124.55	Al65	ATOM	40966	C2' ADE	1012	217.735	113.637	84.504	1.00186.36	Al	
ATOM	40914	C6	CYT	1010	213.464	122.075	91.085	1.00124.55	Al65	ATOM	40967	O2' ADE	1012	218.397	112.423	84.805	1.00186.36	Al	
ATOM	40915	C2	CYT	1010	215.478	121.066	91.943	1.00124.55	Al65	ATOM	40968	C3' ADE	1012	218.619	114.649	83.778	1.00186.36	Al	
ATOM	40916	O2	CYT	1010	216.698	121.156	92.179	1.00124.55	Al65	ATOM	40969	O3' ADE	1012	219.510	114.006	82.871	1.00186.36	Al	
ATOM	40917	N3	CYT	1010	214.784	119.938	92.220	1.00124.55	Al65	ATOM	40970	P	GUA	1013	219.453	114.363	81.303	1.00190.57	Al
ATOM	40918	C4	CYT	1010	213.478	119.871	91.948	1.00124.55	Al65	ATOM	40971	01P	GUA	1013	220.251	113.326	80.600	1.00147.23	Al
ATOM	40919	N4	CYT	1010	212.835	118.740	92.250	1.00124.55	Al65	ATOM	40972	02P	GUA	1013	219.818	115.794	81.154	1.00147.23	Al
ATOM	40920	C5	CYT	1010	212.773	120.960	91.356	1.00124.55	Al65	ATOM	40973	O5' GUA	1013	217.919	114.193	80.893	1.00190.57	Al	
ATOM	40921	C2' CYT	1010	216.467	123.347	89.869	1.00195.63	Al65	ATOM	40974	C5' GUA	1013	217.146	113.061	81.345	1.00190.57	Al		
ATOM	40922	O2' CYT	1010	217.667	124.042	90.151	1.00195.63	Al65	ATOM	40975	C4' GUA	1013	215.685	113.435	81.479	1.00190.57	Al		
ATOM	40923	C3' CYT	1010	215.612	124.025	88.802	1.00195.63	Al65	ATOM	40976	O4' GUA	1013	215.589	114.706	82.174	1.00190.57	Al		
ATOM	40924	O3' CYT	1010	216.405	124.634	87.787	1.00195.63	Al65	ATOM	40977	C1' GUA	1013	214.932	116.725	81.691	1.00190.57	Al		
ATOM	40925	P	GUA	1011	216.330	124.088	86.274	1.00182.60	Al65	ATOM	40978	N9	GUA	1013	214.473	115.436	81.179	1.00147.23	Al
ATOM	40926	01P	GUA	1011	217.183	124.984	85.454	1.00141.03	Al65	ATOM	40979	C4	GUA	1013	214.191	117.883	81.116	1.00147.23	Al
ATOM	40927	02P	GUA	1011	214.904	123.892	85.903	1.00141.03	Al65	ATOM	40980	N3	GUA	1013	212.911	118.029	81.522	1.00147.23	Al
ATOM	40928	O5' GUA	1011	217.025	122.656	86.332	1.00182.60	Al65	ATOM	40981	C2	GUA	1013	212.468	119.260	81.330	1.00147.23	Al	
ATOM	40929	C5' GUA	1011	218.424	122.519	86.647	1.00182.60	Al65	ATOM	40982	N2	GUA	1013	211.212	119.580	81.674	1.00147.23	Al	
ATOM	40930	C4' GUA	1011	218.724	121.100	87.064	1.00182.60	Al65	ATOM	40983	N1	GUA	1013	213.222	120.270	80.784	1.00147.23	Al	
ATOM	40931	O4' GUA	1011	217.901	120.776	88.214	1.00182.60	Al65	ATOM	40984	C6	GUA	1013	214.541	120.145	80.359	1.00147.23	Al	
ATOM	40932	C1' GUA	1011	217.470	119.429	88.135	1.00182.60	Al65	ATOM	40985	O6	GUA	1013	215.130	121.124	79.880	1.00147.23	Al	
ATOM	40933	N9	GUA	1011	216.011	119.417	88.082	1.00141.03	Al65	ATOM	40986	C5	GUA	1013	215.030	118.824	80.557	1.00147.23	Al
ATOM	40934	C4	GUA	1011	215.184	118.400	88.501	1.00141.03	Al65	ATOM	40987	N7	GUA	1013	216.273	118.272	80.276	1.00147.23	Al

ATOM	40988	C8	GUA	1013	216.170	117.029	80.661	1.00147.23	Al6S	ATOM	41041	O2P	GUA	1016	208.417	115.016	69.917	1.00121.05	Al
ATOM	40989	C2' GUA	1013	213.783	114.592	80.621	1.00190.57	Al6S	ATOM	41042	O5' GUA	1016	207.211	117.041	69.115	1.00170.11	Al		
ATOM	40990	O2' GUA	1013	212.679	113.918	81.193	1.00190.57	Al6S	ATOM	41043	C5' GUA	1016	206.056	117.805	68.725	1.00170.11	Al		
ATOM	40991	C3' GUA	1013	214.906	113.654	80.188	1.00190.57	Al6S	ATOM	41044	C4' GUA	1016	206.455	119.216	68.359	1.00170.11	Al		
ATOM	40992	O3' GUA	1013	214.385	112.432	79.673	1.00190.57	Al6S	ATOM	41045	O4' GUA	1016	207.125	119.828	69.493	1.00170.11	Al		
ATOM	40993	P	GUA	1014	213.809	112.382	78.171	1.00189.46	Al6S	ATOM	41046	C1' GUA	1016	208.097	120.751	69.030	1.00170.11	Al	
ATOM	40994	O1P	GUA	1014	213.342	110.993	77.915	1.00131.11	Al6S	ATOM	41047	N9	GUA	1016	209.417	120.349	69.509	1.00121.05	Al
ATOM	40995	O2P	GUA	1014	214.813	112.997	77.266	1.00131.11	Al6S	ATOM	41048	C4	GUA	1016	210.517	121.169	69.584	1.00121.05	Al
ATOM	40996	O5' GUA	1014	212.537	113.342	78.208	1.00189.46	Al6S	ATOM	41049	N3	GUA	1016	210.549	122.480	69.255	1.00121.05	Al	
ATOM	40997	C5' GUA	1014	211.284	112.894	78.755	1.00189.46	Al6S	ATOM	41050	O2	GUA	1016	211.751	123.001	69.416	1.00121.05	Al	
ATOM	40998	C4' GUA	1014	210.195	113.893	78.451	1.00189.46	Al6S	ATOM	41051	N2	GUA	1016	211.957	124.292	69.130	1.00121.05	Al	
ATOM	40999	O4' GUA	1014	210.472	115.136	79.145	1.00189.46	Al6S	ATOM	41052	N1	GUA	1016	212.841	122.293	69.868	1.00121.05	Al	
ATOM	41000	C1' GUA	1014	210.026	116.230	78.361	1.00189.46	Al6S	ATOM	41053	C6	GUA	1016	212.834	120.944	70.213	1.00121.05	Al	
ATOM	41001	N9	GUA	1014	211.163	117.104	78.078	1.00131.11	Al6S	ATOM	41054	O6	GUA	1016	213.875	120.405	70.608	1.00121.05	Al
ATOM	41002	C4	GUA	1014	211.095	118.413	77.661	1.00131.11	Al6S	ATOM	41055	C5	GUA	1016	211.542	120.368	70.041	1.00121.05	Al
ATOM	41003	N3	GUA	1014	209.964	119.123	77.454	1.00131.11	Al6S	ATOM	41056	N7	GUA	1016	211.094	119.070	70.262	1.00121.05	Al
ATOM	41004	C2	GUA	1014	210.219	120.352	77.035	1.00131.11	Al6S	ATOM	41057	C8	GUA	1016	209.828	119.107	69.939	1.00121.05	Al
ATOM	41005	N2	GUA	1014	209.208	121.196	76.777	1.00131.11	Al6S	ATOM	41058	C2' GUA	1016	208.060	120.745	67.504	1.00170.11	Al	
ATOM	41006	N1	GUA	1014	211.486	120.848	76.838	1.00131.11	Al6S	ATOM	41059	C2' GUA	1016	207.277	121.829	67.045	1.00170.11	Al	
ATOM	41007	C6	GUA	1014	212.665	120.140	77.048	1.00131.11	Al6S	ATOM	41060	C3' GUA	1016	207.446	119.381	67.216	1.00170.11	Al	
ATOM	41008	O6	GUA	1014	213.755	120.687	76.844	1.00131.11	Al6S	ATOM	41061	O3' GUA	1016	206.842	119.342	65.929	1.00170.11	Al	
ATOM	41009	C5	GUA	1014	212.405	118.814	77.495	1.00131.11	Al6S	ATOM	41062	P	ADP	1017	207.765	119.128	64.627	1.00187.07	Al
ATOM	41010	N7	GUA	1014	213.279	117.782	77.812	1.00131.11	Al6S	ATOM	41063	O1P	ADP	1017	206.861	118.908	63.468	1.00181.32	Al
ATOM	41011	C8	GUA	1014	212.501	116.791	78.155	1.00131.11	Al6S	ATOM	41064	O2P	ADP	1017	208.799	118.111	64.952	1.00181.32	Al
ATOM	41012	C2' GUA	1014	209.397	115.668	77.085	1.00189.46	Al6S	ATOM	41065	O5' ADE	1017	208.494	120.534	64.429	1.00187.07	Al		
ATOM	41013	O2' GUA	1014	207.994	115.596	77.239	1.00189.46	Al6S	ATOM	41066	C4' ADE	1017	207.748	121.701	64.027	1.00187.07	Al		
ATOM	41014	C3' GUA	1014	210.055	114.297	76.991	1.00189.46	Al6S	ATOM	41067	O4' ADE	1017	209.367	123.264	64.937	1.00187.07	Al		
ATOM	41015	O3' GUA	1015	209.548	113.165	74.679	1.00196.48	Al6S	ATOM	41068	C1' ADE	1017	210.665	123.732	64.612	1.00187.07	Al		
ATOM	41016	P	GUA	1015	208.881	111.900	74.281	1.00135.58	Al6S	ATOM	41069	N9	ADP	1017	211.647	122.888	65.293	1.00181.32	Al
ATOM	41017	O1P	GUA	1015	211.003	113.335	74.429	1.00135.58	Al6S	ATOM	41070	C4	ADP	1017	212.917	123.268	65.654	1.00181.32	Al
ATOM	41018	O2P	GUA	1015	208.787	114.380	73.984	1.00196.48	Al6S	ATOM	41071	N3	ADP	1017	213.492	124.470	65.469	1.00181.32	Al
ATOM	41019	O5' GUA	1015	207.354	114.505	74.073	1.00196.48	Al6S	ATOM	41072	C2	ADP	1017	214.739	124.470	65.935	1.00181.32	Al	
ATOM	41020	C5' GUA	1015	206.919	115.892	73.658	1.00196.48	Al6S	ATOM	41073	C2	ADP	1017	215.425	123.480	66.520	1.00181.32	Al	
ATOM	41021	C4' GUA	1015	207.534	116.866	74.544	1.00196.48	Al6S	ATOM	41074	N1	ADP	1017	214.816	122.285	66.692	1.00181.32	Al	
ATOM	41022	O4' GUA	1015	207.835	118.050	73.821	1.00196.48	Al6S	ATOM	41075	C6	ADP	1017	215.498	121.299	67.279	1.00181.32	Al	
ATOM	41023	C1' GUA	1015	209.280	118.274	73.859	1.00135.58	Al6S	ATOM	41076	N6	ADP	1017	213.492	122.154	66.238	1.00181.32	Al	
ATOM	41024	N9	GUA	1015	209.919	119.475	73.648	1.00135.58	Al6S	ATOM	41077	C5	ADP	1017	212.599	121.091	66.253	1.00181.32	Al
ATOM	41025	C4	GUA	1015	209.320	120.656	73.389	1.00135.58	Al6S	ATOM	41078	N7	ADP	1017	211.522	121.578	65.687	1.00181.32	Al
ATOM	41026	N3	GUA	1015	210.197	121.632	73.218	1.00135.58	Al6S	ATOM	41079	C8	ADP	1017	210.824	123.662	63.093	1.00187.07	Al
ATOM	41027	C2	GUA	1015	209.765	122.870	72.943	1.00135.58	Al6S	ATOM	41080	C2' ADE	1017	210.560	124.932	62.529	1.00187.07	Al	
ATOM	41028	N2	GUA	1015	211.559	121.464	73.301	1.00135.58	Al6S	ATOM	41081	O2' ADE	1017	209.792	124.932	62.529	1.00187.07	Al	
ATOM	41029	N1	GUA	1015	211.559	121.464	73.301	1.00135.58	Al6S	ATOM	41082	C3' ADE	1017	209.792	122.603	62.721	1.00187.07	Al	
ATOM	41030	C6	GUA	1015	212.203	120.259	73.566	1.00135.58	Al6S	ATOM	41083	O3' ADE	1017	209.351	122.730	61.373	1.00187.07	Al	
ATOM	41031	O6	GUA	1015	213.440	120.219	73.615	1.00135.58	Al6S	ATOM	41084	P	GUA	1018	210.117	121.931	60.206	1.00178.21	Al
ATOM	41032	C5	GUA	1015	211.267	119.196	73.748	1.00135.58	Al6S	ATOM	41085	O1P	GUA	1018	209.279	122.038	58.986	1.00178.81	Al
ATOM	41033	N7	GUA	1015	211.473	117.849	74.023	1.00135.58	Al6S	ATOM	41086	O2P	GUA	1018	210.498	120.587	60.715	1.00178.81	Al
ATOM	41034	C8	GUA	1015	210.269	117.343	74.085	1.00135.58	Al6S	ATOM	41087	O5' GUA	1018	211.451	122.775	59.976	1.00178.21	Al	
ATOM	41035	C2' GUA	1015	207.336	117.858	72.388	1.00196.48	Al6S	ATOM	41088	C5' GUA	1018	211.413	124.049	59.298	1.00178.21	Al		
ATOM	41036	O2' GUA	1015	206.049	118.427	72.244	1.00196.48	Al6S	ATOM	41089	C4' GUA	1018	212.798	124.658	59.228	1.00178.21	Al		
ATOM	41037	C3' GUA	1015	207.337	116.340	72.265	1.00196.48	Al6S	ATOM	41090	O4' GUA	1018	213.262	124.959	60.567	1.00178.21	Al		
ATOM	41038	O3' GUA	1015	206.463	115.884	71.240	1.00196.48	Al6S	ATOM	41091	C1' GUA	1018	214.666	124.773	60.638	1.00178.21	Al		
ATOM	41039	P	GUA	1016	207.053	115.595	69.769	1.00170.11	Al6S	ATOM	41092	N9	GUA	1018	214.959	123.813	61.702	1.00178.81	Al
ATOM	41040	O1P	GUA	1016	206.015	114.846	69.013	1.00121.05	Al6S	ATOM	41093	C4	GUA	1018	216.207	123.467	62.175	1.00178.81	Al

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ATOM	41094	N3	GUA	1018	217.391	123.930	61.715	1.00178.81	Al6S	ATOM	41147	P	CYT	1021	219.677	112.955	54.381	1.00134.28	A
ATOM	41095	C2	GUA	1018	218.416	123.416	62.378	1.00178.81	Al6S	ATOM	41148	OlP	CYT	1021	220.684	112.708	53.317	1.00123.05	A
ATOM	41096	N2	GUA	1018	219.671	123.751	62.040	1.00178.81	Al6S	ATOM	41149	OlP	CYT	1021	218.256	113.189	54.010	1.00123.05	A
ATOM	41097	N1	GUA	1018	218.287	122.533	63.420	1.00178.81	Al6S	ATOM	41150	OlP	CYT	1021	219.734	111.728	55.394	1.00134.28	A
ATOM	41098	C6	GUA	1018	217.080	122.053	63.918	1.00178.81	Al6S	ATOM	41151	C5	CYT	1021	220.997	111.176	55.803	1.00134.28	A
ATOM	41099	O6	GUA	1018	217.077	121.282	64.881	1.00178.81	Al6S	ATOM	41152	C4	CYT	1021	220.783	109.993	56.714	1.00134.28	A
ATOM	41100	C5	GUA	1018	215.974	122.575	63.201	1.00178.81	Al6S	ATOM	41153	O4	CYT	1021	220.199	110.434	57.968	1.00134.28	A
ATOM	41101	N7	GUA	1018	214.614	122.343	63.353	1.00178.81	Al6S	ATOM	41154	C1	CYT	1021	219.317	109.435	58.460	1.00134.28	A
ATOM	41102	C8	GUA	1018	214.052	123.094	62.445	1.00178.81	Al6S	ATOM	41155	N1	CYT	1021	217.961	110.007	58.574	1.00123.05	A
ATOM	41103	C2	GUA	1018	215.162	124.347	59.254	1.00178.21	Al6S	ATOM	41156	C6	CYT	1021	217.661	111.219	58.015	1.00123.05	A
ATOM	41104	O2	GUA	1018	215.672	125.476	58.570	1.00178.21	Al6S	ATOM	41157	C2	CYT	1021	216.970	109.284	59.268	1.00123.05	A
ATOM	41105	C3	GUA	1018	213.892	123.790	58.619	1.00178.21	Al6S	ATOM	41158	O2	CYT	1021	217.253	108.174	59.753	1.00123.05	A
ATOM	41106	O3	GUA	1018	213.935	123.906	57.199	1.00178.21	Al6S	ATOM	41159	N3	CYT	1021	215.727	109.811	59.382	1.00123.05	A
ATOM	41107	P	CYT	1019	214.394	122.647	56.309	1.00200.97	Al6S	ATOM	41160	C4	CYT	1021	215.452	110.998	58.831	1.00123.05	A
ATOM	41108	OlP	CYT	1019	214.834	123.173	54.991	1.00166.52	Al6S	ATOM	41161	N4	CYT	1021	214.213	111.482	58.971	1.00123.05	A
ATOM	41109	O2P	CYT	1019	213.325	121.619	56.368	1.00166.52	Al6S	ATOM	41162	C5	CYT	1021	216.432	111.743	58.113	1.00123.05	A
ATOM	41110	O5	CYT	1019	215.671	122.075	57.072	1.00200.97	Al6S	ATOM	41163	C2	CYT	1021	219.362	108.256	57.489	1.00134.28	A
ATOM	41111	C5	CYT	1019	216.965	122.698	56.944	1.00200.97	Al6S	ATOM	41164	O2	CYT	1021	220.275	107.288	57.963	1.00134.28	A
ATOM	41112	C4	CYT	1019	218.021	121.824	57.578	1.00200.97	Al6S	ATOM	41165	C3	CYT	1021	219.824	108.932	56.204	1.00134.28	A
ATOM	41113	O4	CYT	1019	217.791	121.759	59.009	1.00200.97	Al6S	ATOM	41166	O3	CYT	1021	220.440	108.019	55.309	1.00134.28	A
ATOM	41114	C1	CYT	1019	218.072	120.449	59.484	1.00200.97	Al6S	ATOM	41167	P	URI	1022	219.523	107.156	54.311	1.00143.50	A
ATOM	41115	N1	CYT	1019	216.843	119.892	60.102	1.00166.52	Al6S	ATOM	41168	OlP	URI	1022	220.438	106.308	53.500	1.00155.45	A
ATOM	41116	C6	CYT	1019	215.638	120.531	59.971	1.00166.52	Al6S	ATOM	41169	O2P	URI	1022	218.575	108.077	53.629	1.00155.45	A
ATOM	41117	O2	CYT	1019	216.928	118.690	60.834	1.00166.52	Al6S	ATOM	41170	O5	URI	1022	218.686	106.207	55.282	1.00143.50	A
ATOM	41118	C2	CYT	1019	218.026	118.116	60.935	1.00166.52	Al6S	ATOM	41171	C5	URI	1022	219.354	105.240	56.113	1.00143.50	A
ATOM	41119	N3	CYT	1019	215.807	118.187	61.407	1.00166.52	Al6S	ATOM	41172	C4	URI	1022	218.394	104.630	57.111	1.00143.50	A
ATOM	41120	C4	CYT	1019	214.642	118.826	61.273	1.00166.52	Al6S	ATOM	41173	O4	URI	1022	217.917	105.639	58.041	1.00143.50	A
ATOM	41121	N4	CYT	1019	213.566	118.295	61.857	1.00166.52	Al6S	ATOM	41174	C1	URI	1022	216.598	105.315	58.457	1.00143.50	A
ATOM	41122	C5	CYT	1019	214.526	120.038	60.534	1.00166.52	Al6S	ATOM	41175	N1	URI	1022	215.690	106.413	58.089	1.00155.45	A
ATOM	41123	C2	CYT	1019	218.596	119.627	58.302	1.00200.97	Al6S	ATOM	41176	C6	URI	1022	215.976	107.283	57.062	1.00155.45	A
ATOM	41124	O2	CYT	1019	220.010	119.630	58.308	1.00200.97	Al6S	ATOM	41177	C2	URI	1022	214.518	106.534	58.811	1.00155.45	A
ATOM	41125	C3	CYT	1019	218.001	120.376	57.115	1.00200.97	Al6S	ATOM	41178	O2	URI	1022	214.219	105.775	59.717	1.00155.45	A
ATOM	41126	O3	CYT	1019	218.744	120.191	55.917	1.00200.97	Al6S	ATOM	41179	N3	URI	1022	213.702	107.569	58.427	1.00155.45	A
ATOM	41127	P	CYT	1020	218.261	119.094	54.845	1.00180.24	Al6S	ATOM	41180	C4	URI	1022	213.926	108.472	57.411	1.00155.45	A
ATOM	41128	OlP	CYT	1020	219.115	119.259	53.641	1.00153.18	Al6S	ATOM	41181	O4	URI	1022	215.101	109.362	57.198	1.00155.45	A
ATOM	41129	O2P	CYT	1020	216.784	119.184	54.713	1.00153.18	Al6S	ATOM	41182	C5	URI	1022	216.200	104.011	57.768	1.00143.50	A
ATOM	41130	O5	CYT	1020	218.615	117.698	55.529	1.00180.24	Al6S	ATOM	41183	C2	URI	1022	216.427	102.922	56.642	1.00143.50	A
ATOM	41131	C5	CYT	1020	219.976	117.364	55.869	1.00180.24	Al6S	ATOM	41184	O2	URI	1022	217.122	104.013	56.557	1.00143.50	A
ATOM	41132	C4	CYT	1020	220.019	116.110	56.713	1.00180.24	Al6S	ATOM	41185	C3	URI	1022	217.321	102.713	56.033	1.00143.50	A
ATOM	41133	O4	CYT	1020	219.354	116.347	57.979	1.00180.24	Al6S	ATOM	41186	O3	URI	1022	216.490	102.256	54.737	1.00141.11	A
ATOM	41134	C1	CYT	1020	218.702	115.162	58.408	1.00180.24	Al6S	ATOM	41187	P	ADE	1023	217.175	101.068	54.169	1.00123.93	A
ATOM	41135	N1	CYT	1020	217.274	115.461	58.663	1.00153.18	Al6S	ATOM	41188	OlP	ADE	1023	216.275	103.459	53.884	1.00123.93	A
ATOM	41136	C6	CYT	1020	216.672	116.550	58.091	1.00153.18	Al6S	ATOM	41189	O2P	ADE	1023	215.077	101.802	55.322	1.00141.11	A
ATOM	41137	C2	CYT	1020	216.537	114.617	59.518	1.00153.18	Al6S	ATOM	41190	O5	ADE	1023	214.938	100.563	56.049	1.00141.11	A
ATOM	41138	O2	CYT	1020	217.084	113.620	60.006	1.00153.18	Al6S	ATOM	41191	C5	ADE	1023	213.573	100.480	56.694	1.00141.11	A
ATOM	41139	N3	CYT	1020	215.245	114.911	59.783	1.00153.18	Al6S	ATOM	41192	C4	ADE	1023	213.442	101.535	57.678	1.00141.11	A
ATOM	41140	C4	CYT	1020	214.678	115.986	59.232	1.00153.18	Al6S	ATOM	41193	O4	ADE	1023	212.107	102.008	57.702	1.00141.11	A
ATOM	41141	N4	CYT	1020	213.407	116.246	59.535	1.00153.18	Al6S	ATOM	41194	C1	ADE	1023	212.108	103.418	57.338	1.00123.93	A
ATOM	41142	C5	CYT	1020	215.391	116.846	58.347	1.00153.18	Al6S	ATOM	41195	N9	ADE	1023	211.067	104.297	57.517	1.00123.93	A
ATOM	41143	C2	CYT	1020	218.969	114.070	57.367	1.00180.24	Al6S	ATOM	41196	C4	ADE	1023	209.863	104.037	58.058	1.00123.93	A
ATOM	41144	O2	CYT	1020	220.028	113.252	57.824	1.00180.24	Al6S	ATOM	41197	N3	ADE	1023	209.106	105.129	58.064	1.00123.93	A
ATOM	41145	C3	CYT	1020	219.329	114.889	56.128	1.00180.24	Al6S	ATOM	41198	C2	ADE	1023	209.391	106.360	57.621	1.00123.93	A
ATOM	41146	O3	CYT	1020	220.213	114.197	55.250	1.00180.24	Al6S	ATOM	41199	N1	ADE	1023					A

ATOM	41200	C6	ADE	1023	210.609	106.589	57.081	1.00123.93	Al6s	ATOM	41253	O1P	ADE	1026	200.711	103.610	47.564	1.00	96.47	Al
ATOM	41201	N6	ADE	1023	210.893	107.817	56.638	1.00123.93	Al6s	ATOM	41254	O2P	ADE	1026	203.275	103.659	47.454	1.00	96.47	Al
ATOM	41202	C5	ADE	1023	211.508	105.510	57.019	1.00123.93	Al6s	ATOM	41255	O5	ADE	1026	201.968	105.749	47.905	1.00124.24	Al	
ATOM	41203	N7	ADE	1023	212.806	105.399	56.537	1.00123.93	Al6s	ATOM	41256	C5	ADE	1026	200.784	106.470	48.281	1.00124.24	Al	
ATOM	41204	C8	ADE	1023	213.115	104.144	56.751	1.00123.93	Al6s	ATOM	41257	C4	ADE	1026	200.847	107.916	47.840	1.00124.24	Al	
ATOM	41205	C2	ADE	1023	211.297	101.164	56.715	1.00141.11	Al6s	ATOM	41258	O4	ADE	1026	201.676	108.708	48.728	1.00124.24	Al	
ATOM	41206	O2	ADE	1023	210.648	100.118	57.410	1.00141.11	Al6s	ATOM	41259	C1	ADE	1026	202.058	109.899	48.056	1.00124.24	Al	
ATOM	41207	C3	ADE	1023	212.382	100.671	55.768	1.00141.11	Al6s	ATOM	41260	N9	ADE	1026	203.510	110.072	48.119	1.00	96.47	Al
ATOM	41208	O3	ADE	1023	212.013	99.463	55.117	1.00141.11	Al6s	ATOM	41261	C4	ADE	1026	204.152	111.269	47.903	1.00	96.47	Al
ATOM	41209	P	GUA	1024	211.602	99.491	53.564	1.00171.93	Al6s	ATOM	41262	N3	ADE	1026	203.586	112.465	47.658	1.00	96.47	Al
ATOM	41210	O1P	GUA	1024	211.606	98.073	53.119	1.00114.03	Al6s	ATOM	41263	C2	ADE	1026	204.516	113.395	47.460	1.00	96.47	Al
ATOM	41211	O2P	GUA	1024	212.466	100.482	52.868	1.00114.03	Al6s	ATOM	41264	N1	ADE	1026	205.847	113.278	47.478	1.00	96.47	Al
ATOM	41212	O5	GUA	1024	210.104	100.044	53.557	1.00171.93	Al6s	ATOM	41265	C6	ADE	1026	206.387	112.064	47.731	1.00	96.47	Al
ATOM	41213	C5	GUA	1024	208.991	99.167	53.829	1.00171.93	Al6s	ATOM	41266	N6	ADE	1026	207.718	111.948	47.747	1.00	96.47	Al
ATOM	41214	C4	GUA	1024	207.748	99.959	54.181	1.00171.93	Al6s	ATOM	41267	C5	ADE	1026	205.504	110.988	47.961	1.00	96.47	Al
ATOM	41215	O4	GUA	1024	208.065	100.885	55.255	1.00171.93	Al6s	ATOM	41268	N7	ADE	1026	205.715	109.643	48.243	1.00	96.47	Al
ATOM	41216	C1	GUA	1024	207.242	102.036	55.149	1.00171.93	Al6s	ATOM	41269	C8	ADE	1026	204.504	109.147	48.337	1.00	96.47	Al
ATOM	41217	N9	GUA	1024	208.072	103.210	54.910	1.00114.03	Al6s	ATOM	41270	C2	ADE	1026	201.617	109.770	46.598	1.00124.24	Al	
ATOM	41218	C4	GUA	1024	207.616	104.502	54.883	1.00114.03	Al6s	ATOM	41271	O2	ADE	1026	200.459	110.552	46.370	1.00124.24	Al	
ATOM	41219	N3	GUA	1024	206.340	104.890	55.093	1.00114.03	Al6s	ATOM	41272	C3	ADE	1026	201.380	108.268	46.461	1.00124.24	Al	
ATOM	41220	C2	GUA	1024	206.200	106.199	54.994	1.00114.03	Al6s	ATOM	41273	O3	ADE	1026	200.475	108.005	45.396	1.00124.24	Al	
ATOM	41221	N2	GUA	1024	204.991	106.750	55.166	1.00114.03	Al6s	ATOM	41274	P	CYT	1027	201.048	107.530	43.965	1.00132.75	Al	
ATOM	41222	N1	GUA	1024	207.233	107.062	54.717	1.00114.03	Al6s	ATOM	41275	O1P	CYT	1027	199.936	107.681	42.986	1.00	96.49	Al
ATOM	41223	C6	GUA	1024	208.555	106.685	54.500	1.00114.03	Al6s	ATOM	41276	O2P	CYT	1027	201.705	106.203	44.139	1.00	96.49	Al
ATOM	41224	O6	GUA	1024	209.410	107.548	54.265	1.00114.03	Al6s	ATOM	41277	O5	CYT	1027	202.180	108.593	43.594	1.00132.75	Al	
ATOM	41225	C5	GUA	1024	208.717	105.275	54.595	1.00114.03	Al6s	ATOM	41278	C5	CYT	1027	201.896	110.007	43.577	1.00132.75	Al	
ATOM	41226	N7	GUA	1024	209.849	104.483	54.446	1.00114.03	Al6s	ATOM	41279	O4	CYT	1027	203.165	110.814	43.774	1.00132.75	Al	
ATOM	41227	C8	GUA	1024	209.419	103.266	54.646	1.00114.03	Al6s	ATOM	41280	C4	CYT	1027	204.109	110.072	44.595	1.00132.75	Al	
ATOM	41228	C2	GUA	1024	206.330	101.845	53.945	1.00171.93	Al6s	ATOM	41281	C1	CYT	1027	205.439	110.411	44.226	1.00132.75	Al	
ATOM	41229	O2	GUA	1024	205.074	101.356	54.371	1.00171.93	Al6s	ATOM	41282	N1	CYT	1027	206.170	109.190	43.824	1.00	96.49	Al
ATOM	41230	C3	GUA	1024	207.130	100.854	53.113	1.00171.93	Al6s	ATOM	41283	C6	CYT	1027	205.502	108.037	43.511	1.00	96.49	Al
ATOM	41231	P	CYT	1025	205.908	100.897	50.799	1.00150.42	Al6s	ATOM	41284	C2	CYT	1027	207.581	109.231	43.755	1.00	96.49	Al
ATOM	41232	O1P	CYT	1025	204.894	100.043	50.122	1.00155.14	Al6s	ATOM	41285	O2	CYT	1027	208.174	110.286	44.048	1.00	96.49	Al
ATOM	41233	O2P	CYT	1025	207.180	101.224	50.101	1.00155.14	Al6s	ATOM	41286	N3	CYT	1027	208.256	108.123	43.365	1.00	96.49	Al
ATOM	41234	O5	CYT	1025	205.209	102.273	51.212	1.00150.42	Al6s	ATOM	41287	C4	CYT	1027	207.587	107.011	43.046	1.00	96.49	Al
ATOM	41235	C5	CYT	1025	203.891	102.287	51.801	1.00150.42	Al6s	ATOM	41288	N4	CYT	1027	208.291	105.951	42.642	1.00	96.49	Al
ATOM	41236	C5	CYT	1025	203.287	103.675	51.743	1.00150.42	Al6s	ATOM	41289	C5	CYT	1027	206.163	106.938	43.121	1.00	96.49	Al
ATOM	41237	C4	CYT	1025	204.079	104.602	52.531	1.00150.42	Al6s	ATOM	41290	C2	CYT	1027	205.358	111.431	43.094	1.00132.75	Al	
ATOM	41238	O4	CYT	1025	203.973	105.904	51.976	1.00150.42	Al6s	ATOM	41291	O2	CYT	1027	205.489	112.728	43.638	1.00132.75	Al	
ATOM	41239	C1	CYT	1025	205.314	106.416	51.644	1.00155.14	Al6s	ATOM	41292	C3	CYT	1027	203.965	111.168	42.532	1.00132.75	Al	
ATOM	41240	N1	CYT	1025	205.314	106.416	51.644	1.00155.14	Al6s	ATOM	41293	O3	CYT	1027	203.448	112.326	41.891	1.00132.75	Al	
ATOM	41241	C6	CYT	1025	206.351	105.570	51.358	1.00155.14	Al6s	ATOM	41294	P	ADE	1028	204.060	112.788	40.479	1.00113.00	Al	
ATOM	41242	C2	CYT	1025	205.506	107.807	51.605	1.00155.14	Al6s	ATOM	41295	O1P	ADE	1028	203.401	114.072	40.097	1.00	90.56	Al
ATOM	41243	O2	CYT	1025	204.557	108.553	51.888	1.00155.14	Al6s	ATOM	41296	O2P	ADE	1028	204.013	111.623	39.551	1.00	90.56	Al
ATOM	41244	N3	CYT	1025	206.715	108.300	51.261	1.00155.14	Al6s	ATOM	41297	O5	ADE	1028	205.584	113.098	40.819	1.00113.00	Al	
ATOM	41245	C4	CYT	1025	207.714	107.466	50.965	1.00155.14	Al6s	ATOM	41298	C5	ADE	1028	206.595	113.093	39.800	1.00113.00	Al	
ATOM	41246	N4	CYT	1025	208.887	108.000	50.610	1.00155.14	Al6s	ATOM	41299	C4	ADE	1028	207.951	113.294	40.425	1.00113.00	Al	
ATOM	41247	C5	CYT	1025	207.555	106.047	51.016	1.00155.14	Al6s	ATOM	41300	O4	ADE	1028	208.220	112.212	41.351	1.00113.00	Al	
ATOM	41248	C2	CYT	1025	203.092	105.819	50.732	1.00150.42	Al6s	ATOM	41301	C1	ADE	1028	209.594	111.869	41.303	1.00113.00	Al	
ATOM	41249	O2	CYT	1025	201.782	106.236	51.056	1.00150.42	Al6s	ATOM	41302	N9	ADE	1028	209.700	110.481	40.849	1.00	90.56	Al
ATOM	41250	C3	CYT	1025	203.189	104.339	50.377	1.00150.42	Al6s	ATOM	41303	C4	ADE	1028	210.859	109.789	40.580	1.00	90.56	Al
ATOM	41251	O3	CYT	1025	202.055	103.908	49.634	1.00150.42	Al6s	ATOM	41304	N3	ADE	1028	212.123	110.239	40.680	1.00	90.56	Al
ATOM	41252	P	ADE	1026	202.008	104.158	48.044	1.00124.24	Al6s	ATOM	41305	C2	ADE	1028	212.991	109.287	40.329	1.00	90.56	Al

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ATOM	41306	N1	ADE	1028	212.754	108.030	39.919	1.00	90.56	Al65	ATOM	41359	O2' GUA	1030	213.551	107.694	29.188	1.00	78.87	Al
ATOM	41307	C6	ADE	1028	211.470	107.611	39.828	1.00	90.56	Al65	ATOM	41360	C3' GUA	1030	212.895	109.906	30.071	1.00	78.87	Al
ATOM	41308	N6	ADE	1028	211.228	106.361	39.419	1.00	90.56	Al65	ATOM	41361	O3' GUA	1030	213.432	110.553	28.932	1.00	78.87	Al
ATOM	41309	C5' ADE	1028	210.457	108.525	40.173	1.00	90.56	Al65	ATOM	41362	P URI	1031	212.599	111.763	28.270	1.00	82.33	Al	
ATOM	41310	N7	ADE	1028	209.074	108.420	40.190	1.00	90.56	Al65	ATOM	41363	O1P URI	1031	213.029	113.041	28.902	1.00	72.08	Al
ATOM	41311	C8	ADE	1028	208.674	109.600	40.597	1.00	90.56	Al65	ATOM	41364	O2P URI	1031	211.161	111.387	28.300	1.00	72.08	Al
ATOM	41312	C2' ADE	1028	210.277	112.848	40.350	1.00	113.00	Al65	ATOM	41365	O5' URI	1031	213.062	111.807	26.746	1.00	82.33	Al	
ATOM	41313	O2' ADE	1028	210.801	113.932	41.088	1.00	113.00	Al65	ATOM	41366	C5' URI	1031	212.978	110.642	25.892	1.00	82.33	Al	
ATOM	41314	C3' ADE	1028	209.116	113.265	39.459	1.00	113.00	Al65	ATOM	41367	C4' URI	1031	214.319	110.395	25.245	1.00	82.33	Al	
ATOM	41315	O3' ADE	1028	209.325	114.535	38.871	1.00	113.00	Al65	ATOM	41368	O1' URI	1031	214.671	111.530	24.425	1.00	82.33	Al	
ATOM	41316	P GUA	1029	209.542	114.641	37.286	1.00	89.42	Al65	ATOM	41369	C1' URI	1031	216.066	111.722	24.462	1.00	82.33	Al	
ATOM	41317	O1P GUA	1029	210.133	115.975	37.003	1.00	75.21	Al65	ATOM	41370	N1 URI	1031	216.344	113.165	24.446	1.00	72.08	Al	
ATOM	41318	O2P GUA	1029	208.281	114.262	36.603	1.00	75.21	Al65	ATOM	41371	C6 URI	1031	215.432	114.078	24.920	1.00	72.08	Al	
ATOM	41319	O5' GUA	1029	210.620	113.510	36.970	1.00	89.42	Al65	ATOM	41372	C2 URI	1031	217.548	113.586	23.905	1.00	72.08	Al	
ATOM	41320	C5' GUA	1029	212.001	113.670	37.368	1.00	89.42	Al65	ATOM	41373	O2 URI	1031	218.396	112.814	23.496	1.00	72.08	Al	
ATOM	41321	O4' GUA	1029	212.820	111.296	37.607	1.00	89.42	Al65	ATOM	41374	N3 URI	1031	217.721	114.948	23.859	1.00	72.08	Al	
ATOM	41322	O4' GUA	1029	212.445	111.236	37.607	1.00	89.42	Al65	ATOM	41375	C4 URI	1031	216.837	115.912	24.295	1.00	72.08	Al	
ATOM	41323	C1' GUA	1029	212.450	110.169	36.744	1.00	89.42	Al65	ATOM	41376	O4 URI	1031	217.120	117.100	24.155	1.00	72.08	Al	
ATOM	41324	N9	GUA	1029	211.067	109.737	36.571	1.00	75.21	Al65	ATOM	41377	C5 URI	1031	215.631	115.401	24.861	1.00	82.33	Al
ATOM	41325	C4	GUA	1029	210.638	108.540	36.052	1.00	75.21	Al65	ATOM	41378	C2' URI	1031	216.678	110.866	25.576	1.00	82.33	Al
ATOM	41326	N3	GUA	1029	211.427	107.528	35.633	1.00	75.21	Al65	ATOM	41379	O2' URI	1031	217.575	109.938	25.029	1.00	82.33	Al
ATOM	41327	C2	GUA	1029	210.720	106.517	35.149	1.00	75.21	Al65	ATOM	41380	C3' URI	1031	215.446	110.262	26.256	1.00	82.33	Al
ATOM	41328	N2	GUA	1029	211.344	105.434	34.671	1.00	75.21	Al65	ATOM	41381	O3' URI	1031	215.536	108.893	26.701	1.00	82.33	Al
ATOM	41329	N1	GUA	1029	209.348	106.494	35.093	1.00	75.21	Al65	ATOM	41382	P GUA	1032	215.774	107.690	25.639	1.00	81.15	Al
ATOM	41330	C6	GUA	1029	208.514	107.523	35.528	1.00	75.21	Al65	ATOM	41383	O1P GUA	1032	216.831	106.795	26.164	1.00	66.32	Al
ATOM	41331	O6	GUA	1029	207.281	107.402	35.439	1.00	75.21	Al65	ATOM	41384	O2P GUA	1032	215.913	108.247	24.275	1.00	66.32	Al
ATOM	41332	C5	GUA	1029	209.261	108.620	36.039	1.00	75.21	Al65	ATOM	41385	O5' GUA	1032	214.429	106.830	25.663	1.00	81.15	Al
ATOM	41333	N7	GUA	1029	208.833	109.834	36.556	1.00	75.21	Al65	ATOM	41386	C5' GUA	1032	214.504	105.417	25.390	1.00	81.15	Al
ATOM	41334	C8	GUA	1029	209.934	110.460	36.863	1.00	75.21	Al65	ATOM	41387	C4' GUA	1032	213.146	104.802	25.081	1.00	81.15	Al
ATOM	41335	C2' GUA	1029	213.009	110.633	35.403	1.00	89.42	Al65	ATOM	41388	O4' GUA	1032	212.350	104.621	26.284	1.00	81.15	Al	
ATOM	41336	O2' GUA	1029	214.405	110.421	35.370	1.00	89.42	Al65	ATOM	41389	C1' GUA	1032	210.997	104.409	25.910	1.00	81.15	Al	
ATOM	41337	C3' GUA	1029	212.616	112.104	35.416	1.00	89.42	Al65	ATOM	41390	N9 GUA	1032	210.131	105.417	26.517	1.00	66.32	Al	
ATOM	41338	O3' GUA	1029	213.345	112.906	34.502	1.00	89.42	Al65	ATOM	41391	C4 GUA	1032	208.761	105.423	26.421	1.00	66.32	Al	
ATOM	41339	P GUA	1030	212.722	113.188	33.049	1.00	78.87	Al65	ATOM	41392	N3 GUA	1032	208.014	104.478	25.811	1.00	66.32	Al	
ATOM	41340	O1P GUA	1030	213.660	114.079	32.322	1.00	70.69	Al65	ATOM	41393	C2 GUA	1032	206.734	104.779	25.824	1.00	66.32	Al	
ATOM	41341	O2P GUA	1030	211.301	113.602	32.318	1.00	70.69	Al65	ATOM	41394	N2 GUA	1032	205.860	103.942	25.240	1.00	66.32	Al	
ATOM	41342	O5' GUA	1030	212.749	111.749	32.362	1.00	78.87	Al65	ATOM	41395	N1 GUA	1032	206.219	105.918	26.406	1.00	66.32	Al	
ATOM	41343	C5' GUA	1030	214.007	111.112	32.081	1.00	78.87	Al65	ATOM	41396	C6 GUA	1032	206.970	106.903	27.046	1.00	66.32	Al	
ATOM	41344	C4' GUA	1030	213.809	109.845	31.282	1.00	78.87	Al65	ATOM	41397	O6 GUA	1032	206.408	107.893	27.533	1.00	66.32	Al	
ATOM	41345	O4' GUA	1030	213.202	108.818	32.115	1.00	78.87	Al65	ATOM	41398	C5 GUA	1032	208.354	106.590	27.029	1.00	66.32	Al	
ATOM	41346	C1' GUA	1030	212.420	107.953	31.304	1.00	78.87	Al65	ATOM	41399	N7 GUA	1032	209.444	107.288	27.534	1.00	66.32	Al	
ATOM	41347	N9	GUA	1030	211.015	108.098	31.670	1.00	70.69	Al65	ATOM	41400	C8 GUA	1032	210.476	106.548	27.219	1.00	66.32	Al
ATOM	41348	C4	GUA	1030	210.017	107.206	31.365	1.00	70.69	Al65	ATOM	41401	C2' GUA	1032	210.912	104.581	24.393	1.00	81.15	Al
ATOM	41349	N3	GUA	1030	210.186	106.004	30.775	1.00	70.69	Al65	ATOM	41402	O2' GUA	1032	210.945	103.316	23.764	1.00	81.15	Al
ATOM	41350	C2	GUA	1030	209.035	105.407	30.537	1.00	70.69	Al65	ATOM	41403	C3' GUA	1032	212.156	105.411	24.092	1.00	81.15	Al
ATOM	41351	N2	GUA	1030	209.018	104.203	29.948	1.00	70.69	Al65	ATOM	41404	O3' GUA	1032	212.463	105.274	22.705	1.00	81.15	Al
ATOM	41352	N1	GUA	1030	207.816	105.949	30.856	1.00	70.69	Al65	ATOM	41405	P CYT	1033	211.583	106.086	21.614	1.00	69.76	Al
ATOM	41353	C6	GUA	1030	207.622	107.186	31.463	1.00	70.69	Al65	ATOM	41406	O1P CYT	1033	212.186	105.859	20.272	1.00	63.17	Al
ATOM	41354	O6	GUA	1030	206.478	107.591	31.685	1.00	70.69	Al65	ATOM	41407	O2P CYT	1033	211.377	107.481	22.100	1.00	63.17	Al
ATOM	41355	C5	GUA	1030	208.846	107.830	31.732	1.00	70.69	Al65	ATOM	41408	O5' CYT	1033	210.171	105.341	21.602	1.00	69.76	Al
ATOM	41356	N7	GUA	1030	209.106	109.061	32.325	1.00	70.69	Al65	ATOM	41409	C5' CYT	1033	210.014	104.047	20.962	1.00	69.76	Al
ATOM	41357	C8	GUA	1030	210.407	109.170	32.286	1.00	70.69	Al65	ATOM	41410	C4' CYT	1033	208.558	103.789	20.613	1.00	69.76	Al
ATOM	41358	C2' GUA	1030	212.555	108.437	29.859	1.00	78.87	Al65	ATOM	41411	O4' CYT	1033	207.764	103.790	21.830	1.00	69.76	Al	

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ATOM	41412	C1	CYT	1033	206.494	104.372	21.576	1.00	69.76	Al6S	ATOM	41465	O2	GUA	1035	203.410	115.337	13.231	1.00	58.14	Al
ATOM	41413	N1	CYT	1033	206.354	105.579	22.417	1.00	63.17	Al6S	ATOM	41466	C3	GUA	1035	203.765	112.917	12.708	1.00	58.14	Al
ATOM	41414	C6	CYT	1033	207.458	106.281	22.823	1.00	63.17	Al6S	ATOM	41467	O3	GUA	1035	202.447	113.111	12.225	1.00	58.14	Al
ATOM	41415	C2	CYT	1033	205.066	106.007	22.791	1.00	63.17	Al6S	ATOM	41468	P	CYT	1036	202.177	113.073	10.662	1.00	75.29	Al
ATOM	41416	O2	CYT	1033	204.075	105.341	22.432	1.00	63.17	Al6S	ATOM	41469	O1P	CYT	1036	203.326	113.765	10.044	1.00	92.24	Al
ATOM	41417	N3	CYT	1033	204.939	107.132	23.538	1.00	63.17	Al6S	ATOM	41470	O2P	CYT	1036	200.805	113.562	10.415	1.00	92.24	Al
ATOM	41418	C4	CYT	1033	206.026	107.813	23.917	1.00	63.17	Al6S	ATOM	41471	O5	CYT	1036	202.249	111.515	10.362	1.00	75.29	Al
ATOM	41419	N4	CYT	1033	205.854	108.924	24.641	1.00	63.17	Al6S	ATOM	41472	C5	CYT	1036	201.977	110.563	11.420	1.00	75.29	Al
ATOM	41420	C5	CYT	1033	207.341	107.389	23.566	1.00	63.17	Al6S	ATOM	41473	C4	CYT	1036	200.512	110.593	11.764	1.00	75.29	Al
ATOM	41421	C2	CYT	1033	206.414	104.695	20.082	1.00	69.76	Al6S	ATOM	41474	O4	CYT	1036	199.782	110.019	10.650	1.00	75.29	Al
ATOM	41422	O2	CYT	1033	205.739	103.662	19.390	1.00	69.76	Al6S	ATOM	41475	C1	CYT	1036	198.636	109.354	11.124	1.00	75.29	Al
ATOM	41423	C3	CYT	1033	207.888	104.818	19.711	1.00	69.76	Al6S	ATOM	41476	N1	CYT	1036	198.738	107.930	10.747	1.00	92.24	Al
ATOM	41424	O3	CYT	1033	208.109	104.564	18.327	1.00	69.76	Al6S	ATOM	41477	C6	CYT	1036	199.268	107.012	11.617	1.00	92.24	Al
ATOM	41425	P	URI	1034	207.968	105.766	17.269	1.00	67.20	Al6S	ATOM	41478	C2	CYT	1036	198.264	107.518	9.481	1.00	92.24	Al
ATOM	41426	O1P	URI	1034	208.279	105.198	15.934	1.00	83.41	Al6S	ATOM	41479	O2	CYT	1036	197.825	108.368	8.686	1.00	92.24	Al
ATOM	41427	O2P	URI	1034	208.725	106.944	17.761	1.00	83.41	Al6S	ATOM	41480	N3	CYT	1036	198.306	106.205	9.160	1.00	92.24	Al
ATOM	41428	O5	URI	1034	206.424	106.157	17.316	1.00	67.20	Al6S	ATOM	41481	C4	CYT	1036	198.807	105.318	10.030	1.00	92.24	Al
ATOM	41429	C5	URI	1034	205.416	105.252	16.828	1.00	67.20	Al6S	ATOM	41482	N4	CYT	1036	198.820	104.026	9.676	1.00	92.24	Al
ATOM	41430	C4	URI	1034	204.040	105.807	17.092	1.00	67.20	Al6S	ATOM	41483	C5	CYT	1036	198.319	105.713	11.305	1.00	75.29	Al
ATOM	41431	O4	URI	1034	203.810	105.872	18.521	1.00	67.20	Al6S	ATOM	41484	C2	CYT	1036	198.573	109.598	12.632	1.00	75.29	Al
ATOM	41432	C1	URI	1034	202.996	106.995	18.819	1.00	67.20	Al6S	ATOM	41485	O2	CYT	1036	197.859	110.799	12.842	1.00	75.29	Al
ATOM	41433	N1	URI	1034	203.715	107.899	19.737	1.00	83.41	Al6S	ATOM	41486	C3	CYT	1036	200.030	109.804	12.973	1.00	75.29	Al
ATOM	41434	C6	URI	1034	205.089	107.857	19.877	1.00	83.41	Al6S	ATOM	41487	O3	CYT	1036	200.170	110.547	14.187	1.00	51.70	Al
ATOM	41435	C2	URI	1034	202.961	108.827	20.448	1.00	83.41	Al6S	ATOM	41488	P	ADE	1037	199.976	109.805	15.614	1.00	51.70	Al
ATOM	41436	O2	URI	1034	201.745	108.885	20.384	1.00	83.41	Al6S	ATOM	41489	O1P	ADE	1037	201.068	110.256	16.501	1.00	63.39	Al
ATOM	41437	N3	URI	1034	203.686	109.685	21.236	1.00	83.41	Al6S	ATOM	41490	O2P	ADE	1037	199.736	108.340	15.422	1.00	63.39	Al
ATOM	41438	C4	URI	1034	205.053	109.714	21.397	1.00	83.41	Al6S	ATOM	41491	O5	ADE	1037	198.647	110.448	16.194	1.00	51.70	Al
ATOM	41439	O4	URI	1034	205.562	110.612	22.072	1.00	83.41	Al6S	ATOM	41492	C5	ADE	1037	197.351	109.954	15.807	1.00	51.70	Al
ATOM	41440	C5	URI	1034	205.763	108.709	20.661	1.00	83.41	Al6S	ATOM	41493	C4	ADE	1037	196.276	110.763	16.483	1.00	51.70	Al
ATOM	41441	C2	URI	1034	202.641	107.679	17.496	1.00	67.20	Al6S	ATOM	41494	O4	ADE	1037	196.345	110.548	17.922	1.00	51.70	Al
ATOM	41442	O2	URI	1034	203.369	107.223	17.072	1.00	67.20	Al6S	ATOM	41495	C1	ADE	1037	196.164	111.780	18.598	1.00	51.70	Al
ATOM	41443	C3	URI	1034	203.771	107.217	16.583	1.00	67.20	Al6S	ATOM	41496	N9	ADE	1037	197.441	112.160	19.216	1.00	63.39	Al
ATOM	41444	O3	URI	1034	203.318	107.193	15.233	1.00	67.20	Al6S	ATOM	41497	C4	ADE	1037	197.663	113.232	20.052	1.00	63.39	Al
ATOM	41445	P	GUA	1035	204.101	108.016	14.083	1.00	58.14	Al6S	ATOM	41498	N3	ADE	1037	196.762	114.118	20.503	1.00	63.39	Al
ATOM	41446	O1P	GUA	1035	203.289	107.826	12.897	1.00	60.95	Al6S	ATOM	41499	C2	ADE	1037	197.346	115.033	21.284	1.00	63.39	Al
ATOM	41447	O2P	GUA	1035	205.540	107.634	14.031	1.00	60.95	Al6S	ATOM	41500	N1	ADE	1037	198.630	115.159	21.631	1.00	63.39	Al
ATOM	41448	O5	GUA	1035	203.985	109.563	14.457	1.00	58.14	Al6S	ATOM	41501	C6	ADE	1037	199.511	114.260	21.154	1.00	63.39	Al
ATOM	41449	C5	GUA	1035	204.231	110.529	13.431	1.00	58.14	Al6S	ATOM	41502	N6	ADE	1037	200.794	114.400	21.481	1.00	63.39	Al
ATOM	41450	C4	GUA	1035	203.747	111.883	13.835	1.00	58.14	Al6S	ATOM	41503	C5	ADE	1037	199.016	113.226	20.324	1.00	63.39	Al
ATOM	41451	O4	GUA	1035	204.633	112.431	14.812	1.00	58.14	Al6S	ATOM	41504	N7	ADE	1037	199.636	112.159	19.691	1.00	63.39	Al
ATOM	41452	C1	GUA	1035	204.409	113.815	14.821	1.00	58.14	Al6S	ATOM	41505	C8	ADE	1037	198.662	111.557	19.057	1.00	63.39	Al
ATOM	41453	N9	GUA	1035	205.511	114.503	15.476	1.00	60.95	Al6S	ATOM	41506	C2	ADE	1037	195.743	112.802	17.539	1.00	51.70	Al
ATOM	41454	C4	GUA	1035	205.416	115.741	16.033	1.00	60.95	Al6S	ATOM	41507	O2	ADE	1037	194.335	112.772	17.383	1.00	51.70	Al
ATOM	41455	N3	GUA	1035	204.309	116.510	16.044	1.00	60.95	Al6S	ATOM	41508	C3	ADE	1037	196.439	112.260	16.304	1.00	51.70	Al
ATOM	41456	C2	GUA	1035	204.512	117.651	16.657	1.00	60.95	Al6S	ATOM	41509	O3	ADE	1037	195.849	112.729	15.112	1.00	51.70	Al
ATOM	41457	N2	GUA	1035	203.522	118.528	16.747	1.00	60.95	Al6S	ATOM	41510	P	URI	1038	196.359	114.113	14.471	1.00	47.04	Al
ATOM	41458	N1	GUA	1035	205.706	118.012	17.226	1.00	60.95	Al6S	ATOM	41511	O1P	URI	1038	195.286	114.648	13.579	1.00	70.92	Al
ATOM	41459	C6	GUA	1035	206.859	117.230	17.233	1.00	60.95	Al6S	ATOM	41512	O2P	URI	1038	197.728	113.898	13.925	1.00	70.92	Al
ATOM	41460	O6	GUA	1035	207.884	117.642	17.793	1.00	60.95	Al6S	ATOM	41513	O5	URI	1038	196.495	115.107	15.710	1.00	47.04	Al
ATOM	41461	C5	GUA	1035	206.656	116.003	16.561	1.00	60.95	Al6S	ATOM	41514	C5	URI	1038	197.206	116.351	15.569	1.00	47.04	Al
ATOM	41462	N7	GUA	1035	207.528	114.948	16.320	1.00	60.95	Al6S	ATOM	41515	C4	URI	1038	197.120	117.158	16.840	1.00	47.04	Al
ATOM	41463	C8	GUA	1035	206.804	114.080	15.670	1.00	60.95	Al6S	ATOM	41516	O4	URI	1038	197.692	116.413	17.952	1.00	47.04	Al
ATOM	41464	C2	GUA	1035	204.274	114.210	13.357	1.00	58.14	Al6S	ATOM	41517	C1	URI	1038	198.343	117.313	18.841	1.00	47.04	Al

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ATOM	41518	N1	URI	1038	199.759	116.914	18.977	1.00	70.92	Al65	ATOM	41571	C8	GUA	1040	203.176	123.912	17.008	1.00	63.45	A
ATOM	41519	C6	URI	1038	200.215	115.724	18.458	1.00	70.92	Al65	ATOM	41572	C2'	GUA	1040	204.786	126.794	17.747	1.00	54.07	A
ATOM	41520	C2	URI	1038	200.636	117.782	19.631	1.00	70.92	Al65	ATOM	41573	C2'	GUA	1040	205.612	127.589	18.570	1.00	54.07	A
ATOM	41521	O2	URI	1038	200.289	118.837	20.137	1.00	70.92	Al65	ATOM	41574	C3'	GUA	1040	203.435	127.444	17.467	1.00	54.07	A
ATOM	41522	N3	URI	1038	201.939	117.364	19.668	1.00	70.92	Al65	ATOM	41575	O3'	GUA	1040	203.513	128.859	17.345	1.00	54.07	A
ATOM	41523	C4	URI	1038	202.456	116.199	19.145	1.00	70.92	Al65	ATOM	41576	P	CYT	1041	203.458	129.541	15.892	1.00	60.10	A
ATOM	41524	O4	URI	1038	203.671	116.015	19.174	1.00	70.92	Al65	ATOM	41577	O1P	CYT	1041	203.475	131.022	16.031	1.00	70.95	A
ATOM	41525	C5	URI	1038	201.497	115.348	18.521	1.00	70.92	Al65	ATOM	41578	O2P	CYT	1041	202.368	128.894	15.129	1.00	70.95	A
ATOM	41526	C2'	URI	1038	198.165	118.731	18.279	1.00	47.04	Al65	ATOM	41579	O5'	CYT	1041	204.846	129.097	15.267	1.00	60.10	A
ATOM	41527	O2'	URI	1038	197.069	119.365	18.895	1.00	47.04	Al65	ATOM	41580	C5'	CYT	1041	206.072	129.386	15.954	1.00	60.10	A
ATOM	41528	C3'	URI	1038	197.902	118.460	18.809	1.00	47.04	Al65	ATOM	41581	C4'	CYT	1041	207.203	128.554	15.396	1.00	60.10	A
ATOM	41529	O3'	URI	1038	197.152	119.504	16.226	1.00	47.04	Al65	ATOM	41582	O4'	CYT	1041	207.084	127.172	15.821	1.00	60.10	A
ATOM	41530	P	GUA	1039	197.912	120.778	15.612	1.00	56.41	Al65	ATOM	41583	C1'	CYT	1041	207.586	126.326	14.808	1.00	60.10	A
ATOM	41531	O1P	GUA	1039	196.902	121.623	14.922	1.00	64.03	Al65	ATOM	41584	N1	CYT	1041	206.496	125.457	14.338	1.00	70.95	A
ATOM	41532	O2P	GUA	1039	199.093	120.292	14.855	1.00	64.03	Al65	ATOM	41585	C6	CYT	1041	205.230	125.944	14.168	1.00	70.95	A
ATOM	41533	O5'	GUA	1039	198.473	121.550	16.893	1.00	56.41	Al65	ATOM	41586	C2	CYT	1041	206.781	124.118	14.047	1.00	70.95	A
ATOM	41534	C5'	GUA	1039	197.586	122.167	17.849	1.00	56.41	Al65	ATOM	41587	O2	CYT	1041	207.938	123.697	14.219	1.00	70.95	A
ATOM	41535	C4'	GUA	1039	198.367	122.994	18.848	1.00	56.41	Al65	ATOM	41588	N3	CYT	1041	205.793	123.316	13.588	1.00	70.95	A
ATOM	41536	O4'	GUA	1039	199.213	122.128	19.645	1.00	56.41	Al65	ATOM	41589	C4	CYT	1041	204.564	123.801	13.424	1.00	70.95	A
ATOM	41537	C1'	GUA	1039	200.402	122.820	20.002	1.00	56.41	Al65	ATOM	41590	N4	CYT	1041	203.620	122.970	12.979	1.00	70.95	A
ATOM	41538	N9	GUA	1039	201.557	122.028	19.587	1.00	64.03	Al65	ATOM	41591	C5	CYT	1041	204.245	125.160	13.714	1.00	70.95	A
ATOM	41539	C4	GUA	1039	202.861	122.183	20.011	1.00	64.03	Al65	ATOM	41592	C2'	CYT	1041	208.109	127.214	13.680	1.00	60.10	A
ATOM	41540	N3	GUA	1039	203.310	123.089	20.909	1.00	64.03	Al65	ATOM	41593	O2'	CYT	1041	209.477	127.471	13.891	1.00	60.10	A
ATOM	41541	C2	GUA	1039	204.617	122.975	21.114	1.00	64.03	Al65	ATOM	41594	C3'	CYT	1041	207.926	128.477	13.884	1.00	60.10	A
ATOM	41542	N2	GUA	1039	205.239	123.767	21.997	1.00	64.03	Al65	ATOM	41595	O3'	CYT	1041	207.926	129.610	13.318	1.00	60.10	A
ATOM	41543	N1	GUA	1039	205.418	122.070	20.474	1.00	64.03	Al65	ATOM	41596	P	CYT	1042	207.608	130.001	11.793	1.00	56.53	A
ATOM	41544	C6	GUA	1039	204.987	121.144	19.538	1.00	64.03	Al65	ATOM	41597	O1P	CYT	1042	208.205	131.349	11.512	1.00	62.72	A
ATOM	41545	O6	GUA	1039	205.807	120.393	18.999	1.00	64.03	Al65	ATOM	41598	O2P	CYT	1042	206.150	128.870	11.573	1.00	62.72	A
ATOM	41546	C5	GUA	1039	202.748	120.480	18.507	1.00	64.03	Al65	ATOM	41599	O5'	CYT	1042	208.395	128.870	10.978	1.00	56.53	A
ATOM	41547	N7	GUA	1039	201.563	120.988	18.692	1.00	64.03	Al65	ATOM	41600	C5'	CYT	1042	209.807	128.620	11.218	1.00	56.53	A
ATOM	41548	C8	GUA	1039	200.357	124.216	19.373	1.00	56.41	Al65	ATOM	41601	O4'	CYT	1042	210.290	127.376	10.479	1.00	56.53	A
ATOM	41549	O2'	GUA	1039	200.040	125.158	20.380	1.00	56.41	Al65	ATOM	41602	C4'	CYT	1042	209.767	126.162	11.081	1.00	56.53	A
ATOM	41550	C2'	GUA	1039	199.303	124.048	18.273	1.00	56.41	Al65	ATOM	41603	C1'	CYT	1042	208.185	124.830	9.971	1.00	62.72	A
ATOM	41551	C3'	GUA	1039	198.592	125.258	18.021	1.00	56.41	Al65	ATOM	41604	N1	CYT	1042	207.219	125.739	10.298	1.00	62.72	A
ATOM	41552	O3'	GUA	1039	199.172	126.326	16.965	1.00	54.07	Al65	ATOM	41605	C6	CYT	1042	207.833	123.576	9.505	1.00	62.72	A
ATOM	41553	P	GUA	1040	198.515	127.640	17.221	1.00	63.45	Al65	ATOM	41606	C2	CYT	1042	208.724	122.766	9.240	1.00	62.72	A
ATOM	41554	O1P	GUA	1040	199.074	125.720	15.614	1.00	63.45	Al65	ATOM	41607	O2	CYT	1042	206.529	123.272	9.351	1.00	62.72	A
ATOM	41555	O2P	GUA	1040	200.720	126.438	17.342	1.00	54.07	Al65	ATOM	41608	N3	CYT	1042	205.594	124.175	9.650	1.00	62.72	A
ATOM	41556	O5'	GUA	1040	201.133	127.109	18.547	1.00	54.07	Al65	ATOM	41609	C4	CYT	1042	204.319	123.850	9.451	1.00	62.72	A
ATOM	41557	C5'	GUA	1040	202.637	127.072	18.699	1.00	54.07	Al65	ATOM	41610	N4	CYT	1042	205.925	125.454	10.156	1.00	62.72	A
ATOM	41558	C4'	GUA	1040	203.108	125.752	19.081	1.00	54.07	Al65	ATOM	41611	C5	CYT	1042	210.093	125.751	8.759	1.00	56.53	A
ATOM	41559	O4'	GUA	1040	204.388	125.529	18.518	1.00	54.07	Al65	ATOM	41612	C2'	CYT	1042	211.427	125.353	8.558	1.00	56.53	A
ATOM	41560	C1'	GUA	1040	205.311	123.475	17.321	1.00	63.45	Al65	ATOM	41613	O2'	CYT	1042	209.940	127.244	9.007	1.00	56.53	A
ATOM	41561	N9	GUA	1040	204.301	124.355	17.656	1.00	63.45	Al65	ATOM	41614	C3'	CYT	1042	210.811	127.990	8.189	1.00	56.53	A
ATOM	41562	C4	GUA	1040	206.593	123.530	17.739	1.00	63.45	Al65	ATOM	41615	O3'	CYT	1043	210.339	128.404	6.719	1.00	45.77	A
ATOM	41563	N3	GUA	1040	207.315	122.537	17.241	1.00	63.45	Al65	ATOM	41616	P	GUA	1043	211.303	129.404	6.183	1.00	68.56	A
ATOM	41564	C2	GUA	1040	208.620	122.428	17.539	1.00	63.45	Al65	ATOM	41617	O1P	GUA	1043	208.895	127.732	6.768	1.00	68.56	A
ATOM	41565	N2	GUA	1040	206.815	121.575	16.407	1.00	63.45	Al65	ATOM	41618	O2P	GUA	1043	211.773	127.058	5.888	1.00	45.77	A
ATOM	41566	N1	GUA	1040	205.502	121.504	15.961	1.00	63.45	Al65	ATOM	41619	O5'	GUA	1043	211.503	126.402	5.794	1.00	45.77	A
ATOM	41567	C6	GUA	1040	205.157	120.596	15.192	1.00	63.45	Al65	ATOM	41620	C5'	GUA	1043	211.657	125.117	5.005	1.00	45.77	A
ATOM	41568	O6	GUA	1040	204.722	122.552	16.484	1.00	63.45	Al65	ATOM	41621	C4'	GUA	1043	210.812	124.176	5.711	1.00	45.77	A
ATOM	41569	C5	GUA	1040	203.381	122.841	16.296	1.00	63.45	Al65	ATOM	41622	O4'	GUA	1043	210.064	123.413	4.774	1.00	45.77	A
ATOM	41570	N7	GUA	1040						Al65	ATOM	41623	C1'	GUA	1043						A

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ATOM	41624	N9	GUA	1043	208.640	123.666	4.999	1.00	68.56	Al6S	ATOM	41677	C3' CYT	1045	205.671	125.799	-6.259	1.00	36.93	AJ	
ATOM	41625	C4	GUA	1043	207.583	122.952	4.481	1.00	68.56	Al6S	ATOM	41678	O3' CYT	1045	205.757	125.959	-7.651	1.00	36.93	AJ	
ATOM	41626	N3	GUA	1043	207.670	121.894	3.655	1.00	68.56	Al6S	ATOM	41679	P	GUA	1046	205.481	127.391	-8.295	1.00	44.67	AJ
ATOM	41627	C2	GUA	1043	206.481	121.413	3.343	1.00	68.56	Al6S	ATOM	41680	O1P	GUA	1046	204.020	127.631	-8.207	1.00	75.75	AJ
ATOM	41628	N2	GUA	1043	206.385	120.360	2.520	1.00	68.56	Al6S	ATOM	41681	O2P	GUA	1046	206.146	127.430	-9.625	1.00	75.75	AJ
ATOM	41629	N1	GUA	1043	205.300	121.926	3.812	1.00	68.56	Al6S	ATOM	41682	O5'	GUA	1046	206.250	128.372	-7.769	1.00	44.67	AJ
ATOM	41630	C6	GUA	1043	205.186	123.011	4.665	1.00	68.56	Al6S	ATOM	41683	C5'	GUA	1046	206.616	129.734	-7.663	1.00	44.67	AJ
ATOM	41631	O6	GUA	1043	204.072	123.383	5.043	1.00	68.56	Al6S	ATOM	41684	C4'	GUA	1046	206.872	130.541	-6.407	1.00	44.67	AJ
ATOM	41632	C5	GUA	1043	206.454	123.546	4.996	1.00	68.56	Al6S	ATOM	41685	O4'	GUA	1046	205.598	130.759	-5.754	1.00	44.67	AJ
ATOM	41633	N7	GUA	1043	206.789	124.625	5.801	1.00	68.56	Al6S	ATOM	41686	C1'	GUA	1046	205.639	130.211	-4.456	1.00	44.67	AJ
ATOM	41634	C8	GUA	1043	208.091	124.659	5.774	1.00	68.56	Al6S	ATOM	41687	N9	GUA	1046	204.311	129.716	-4.115	1.00	75.75	AJ
ATOM	41635	C2'	GUA	1043	210.524	123.826	3.376	1.00	45.77	Al6S	ATOM	41688	C4	GUA	1046	203.669	129.919	-2.924	1.00	75.75	AJ
ATOM	41636	O2'	GUA	1043	211.565	122.967	2.971	1.00	45.77	Al6S	ATOM	41689	N3	GUA	1046	204.156	130.611	-1.878	1.00	75.75	AJ
ATOM	41637	C3'	GUA	1043	211.032	125.233	3.628	1.00	45.77	Al6S	ATOM	41690	C2	GUA	1046	203.326	130.610	-0.861	1.00	75.75	AJ
ATOM	41638	O3'	GUA	1043	211.979	125.616	2.658	1.00	45.77	Al6S	ATOM	41691	N2	GUA	1046	203.667	131.221	0.262	1.00	75.75	AJ
ATOM	41639	P	URI	1044	211.523	126.558	1.445	1.00	56.72	Al6S	ATOM	41692	N1	GUA	1046	202.103	129.998	-0.868	1.00	75.75	AJ
ATOM	41640	O1P	URI	1044	212.723	126.691	0.573	1.00	73.43	Al6S	ATOM	41693	C6	GUA	1046	201.573	129.285	-1.934	1.00	75.75	AJ
ATOM	41641	O2P	URI	1044	210.873	127.781	1.995	1.00	73.43	Al6S	ATOM	41694	O6	GUA	1046	200.453	128.771	-1.832	1.00	75.75	AJ
ATOM	41642	O5'	URI	1044	210.406	125.688	0.704	1.00	56.72	Al6S	ATOM	41695	C5	GUA	1046	202.467	129.264	-3.038	1.00	75.75	AJ
ATOM	41643	C5'	URI	1044	210.716	124.387	0.150	1.00	56.72	Al6S	ATOM	41696	N7	GUA	1046	202.348	128.669	-4.285	1.00	75.75	AJ
ATOM	41644	C4'	URI	1044	209.482	123.754	-0.454	1.00	56.72	Al6S	ATOM	41697	C8	GUA	1046	203.464	128.968	-4.891	1.00	75.75	AJ
ATOM	41645	O4'	URI	1044	208.584	123.315	0.591	1.00	56.72	Al6S	ATOM	41698	C2'	GUA	1046	206.759	129.169	-4.465	1.00	44.67	AJ
ATOM	41646	C1'	URI	1044	207.243	123.444	0.142	1.00	56.72	Al6S	ATOM	41699	O2'	GUA	1046	207.265	128.915	-3.172	1.00	44.67	AJ
ATOM	41647	N1	URI	1044	206.486	124.262	1.105	1.00	73.43	Al6S	ATOM	41700	C3'	GUA	1046	207.776	129.846	-5.376	1.00	44.67	AJ
ATOM	41648	C6	URI	1044	207.084	125.273	1.821	1.00	73.43	Al6S	ATOM	41701	O3'	GUA	1046	208.449	130.788	-4.518	1.00	44.67	AJ
ATOM	41649	C2	URI	1044	205.139	123.987	1.261	1.00	73.43	Al6S	ATOM	41702	P	URI	1047	209.823	131.499	-4.964	1.00	53.87	AJ
ATOM	41650	O2	URI	1044	204.571	123.090	0.664	1.00	73.43	Al6S	ATOM	41703	O1P	URI	1047	210.290	130.937	-6.257	1.00	79.70	AJ
ATOM	41651	N3	URI	1044	204.481	124.798	2.146	1.00	73.43	Al6S	ATOM	41704	O2P	URI	1047	210.717	131.474	-3.781	1.00	79.70	AJ
ATOM	41652	C4	URI	1044	205.016	125.826	2.887	1.00	73.43	Al6S	ATOM	41705	O5'	URI	1047	209.363	132.999	-5.217	1.00	53.87	AJ
ATOM	41653	O4	URI	1044	204.293	126.452	3.664	1.00	73.43	Al6S	ATOM	41706	C5'	URI	1047	208.156	133.240	-5.936	1.00	53.87	AJ
ATOM	41654	C5	URI	1044	206.413	126.041	2.682	1.00	73.43	Al6S	ATOM	41707	O4'	URI	1047	207.637	134.625	-5.685	1.00	53.87	AJ
ATOM	41655	C2'	URI	1044	207.258	124.023	-1.279	1.00	56.72	Al6S	ATOM	41708	O4'	URI	1047	207.236	134.863	-4.324	1.00	53.87	AJ
ATOM	41656	O2'	URI	1044	207.080	123.001	-2.240	1.00	56.72	Al6S	ATOM	41709	C1'	URI	1047	206.993	136.241	-4.235	1.00	53.87	AJ
ATOM	41657	C3'	URI	1044	208.642	124.650	-1.352	1.00	56.72	Al6S	ATOM	41710	N1	URI	1047	206.914	136.663	-2.830	1.00	79.70	AJ
ATOM	41658	O3'	URI	1044	209.121	124.615	-2.680	1.00	56.72	Al6S	ATOM	41711	C6	URI	1047	207.749	136.149	-1.869	1.00	79.70	AJ
ATOM	41659	P	CYT	1045	209.266	125.978	-3.510	1.00	36.93	Al6S	ATOM	41712	C2	URI	1047	205.961	137.623	-2.509	1.00	79.70	AJ
ATOM	41660	O1P	CYT	1045	210.542	125.865	-4.270	1.00	66.12	Al6S	ATOM	41713	O2	URI	1047	205.190	138.102	-3.328	1.00	79.70	AJ
ATOM	41661	O2P	CYT	1045	209.038	127.141	-2.610	1.00	66.12	Al6S	ATOM	41714	N3	URI	1047	205.945	138.005	-1.193	1.00	79.70	AJ
ATOM	41662	O5'	CYT	1045	208.059	125.941	-4.544	1.00	36.93	Al6S	ATOM	41715	C4	URI	1047	206.760	137.536	-0.185	1.00	79.70	AJ
ATOM	41663	C5'	CYT	1045	207.937	124.871	-5.488	1.00	36.93	Al6S	ATOM	41716	O4	URI	1047	206.615	137.968	0.960	1.00	79.70	AJ
ATOM	41664	C4'	CYT	1045	206.486	124.608	-5.793	1.00	36.93	Al6S	ATOM	41717	C5	URI	1047	207.708	136.544	-0.592	1.00	79.70	AJ
ATOM	41665	O4'	CYT	1045	205.825	124.156	-4.588	1.00	36.93	Al6S	ATOM	41718	C2'	URI	1047	208.103	136.909	-5.052	1.00	53.87	AJ
ATOM	41666	C1'	CYT	1045	204.495	124.637	-4.571	1.00	36.93	Al6S	ATOM	41719	O2'	URI	1047	207.592	138.058	-5.697	1.00	53.87	AJ
ATOM	41667	N1	CYT	1045	204.309	125.450	-3.351	1.00	66.12	Al6S	ATOM	41720	C3'	URI	1047	208.599	135.758	-5.952	1.00	53.87	AJ
ATOM	41668	C6	CYT	1045	205.246	126.371	-2.972	1.00	66.12	Al6S	ATOM	41721	O3'	URI	1047	208.750	135.981	-7.366	1.00	53.87	AJ
ATOM	41669	C2	CYT	1045	203.154	125.265	-2.581	1.00	66.12	Al6S	ATOM	41722	P	CYT	1048	207.462	136.210	-8.317	1.00	52.30	AJ
ATOM	41670	O2	CYT	1045	202.321	124.411	-2.930	1.00	66.12	Al6S	ATOM	41723	O1P	CYT	1048	208.012	136.264	-9.701	1.00	70.73	AJ
ATOM	41671	N3	CYT	1045	202.977	126.016	-1.470	1.00	66.12	Al6S	ATOM	41724	O2P	CYT	1048	206.598	137.328	-7.837	1.00	70.73	AJ
ATOM	41672	C4	CYT	1045	203.900	126.907	-1.112	1.00	66.12	Al6S	ATOM	41725	O5'	CYT	1048	206.642	134.848	-8.179	1.00	52.30	AJ
ATOM	41673	N4	CYT	1045	203.685	127.615	-0.004	1.00	66.12	Al6S	ATOM	41726	C5'	CYT	1048	206.657	133.859	-9.227	1.00	52.30	AJ
ATOM	41674	C5	CYT	1045	205.084	127.110	-1.871	1.00	66.12	Al6S	ATOM	41727	C4'	CYT	1048	205.303	133.197	-9.349	1.00	52.30	AJ
ATOM	41675	C2'	CYT	1045	204.261	125.401	-5.876	1.00	36.93	Al6S	ATOM	41728	O4'	CYT	1048	205.024	132.430	-8.154	1.00	52.30	AJ
ATOM	41676	O2'	CYT	1045	203.708	124.534	-6.844	1.00	36.93	Al6S	ATOM	41729	C1'	CYT	1048	203.625	132.416	-7.930	1.00	52.30	AJ

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ATOM	41730	N1	CYT	1048	203.351	132.745	-6.518	1.00	70.73	Al65	ATOM	41783	C2' GUA	1050	195.285	133.138	-6.839	1.00	33.05	Al
ATOM	41731	C6	CYT	1048	204.229	133.491	-5.782	1.00	70.73	Al65	ATOM	41784	O2' GUA	1050	196.000	131.972	-6.497	1.00	33.05	Al
ATOM	41732	C2	CYT	1048	202.183	132.257	-5.932	1.00	70.73	Al65	ATOM	41785	C3' GUA	1050	194.623	133.013	-8.205	1.00	33.05	Al
ATOM	41733	O2	CYT	1048	201.381	131.621	-6.530	1.00	70.73	Al65	ATOM	41786	O3' GUA	1050	194.089	131.711	-8.443	1.00	33.05	Al
ATOM	41734	N3	CYT	1048	201.952	132.493	-4.623	1.00	70.73	Al65	ATOM	41787	P	1051	192.524	131.454	-8.218	1.00	56.88	Al
ATOM	41735	C4	CYT	1048	202.830	133.193	-3.905	1.00	70.73	Al65	ATOM	41788	O1P CYT	1051	192.254	130.027	-8.496	1.00	51.62	Al
ATOM	41736	N4	CYT	1048	202.579	133.367	-2.605	1.00	70.73	Al65	ATOM	41789	O2P CYT	1051	191.773	132.517	-8.972	1.00	51.62	Al
ATOM	41737	C5	CYT	1048	204.010	133.735	-4.485	1.00	70.73	Al65	ATOM	41790	O5' CYT	1051	192.354	131.652	-6.648	1.00	56.88	Al
ATOM	41738	C2'	CYT	1048	202.942	133.287	-8.992	1.00	52.30	Al65	ATOM	41791	C5' CYT	1051	192.953	130.725	-5.727	1.00	56.88	Al
ATOM	41739	O2'	CYT	1048	202.404	132.441	-9.981	1.00	52.30	Al65	ATOM	41792	C4' CYT	1051	192.499	131.019	-4.317	1.00	56.88	Al
ATOM	41740	C3'	CYT	1048	204.099	134.116	-9.540	1.00	52.30	Al65	ATOM	41793	C4' CYT	1051	193.064	132.279	-3.874	1.00	56.88	Al
ATOM	41741	O3'	CYT	1048	203.902	134.348	-10.932	1.00	52.30	Al65	ATOM	41794	C1' CYT	1051	192.141	132.955	-3.036	1.00	56.88	Al
ATOM	41742	P	ADP	1049	203.156	135.677	-11.435	1.00	45.52	Al65	ATOM	41795	N1	1051	191.777	134.239	-3.667	1.00	51.62	Al
ATOM	41743	O1P	ADP	1049	202.952	135.614	-12.905	1.00	59.07	Al65	ATOM	41796	C6	1051	191.846	134.411	-5.021	1.00	51.62	Al
ATOM	41744	O2P	ADP	1049	203.880	136.826	-10.847	1.00	59.07	Al65	ATOM	41797	C2	1051	191.357	135.287	-2.848	1.00	51.62	Al
ATOM	41745	O5'	ADP	1049	201.719	135.571	-10.770	1.00	45.52	Al65	ATOM	41798	O2	1051	191.291	135.094	-1.619	1.00	51.62	Al
ATOM	41746	C5'	ADP	1049	199.372	134.935	-10.825	1.00	45.52	Al65	ATOM	41799	N3	1051	191.030	136.481	-3.411	1.00	51.62	Al
ATOM	41747	C4'	ADP	1049	199.208	134.959	-9.378	1.00	45.52	Al65	ATOM	41800	C4	1051	191.106	136.638	-4.735	1.00	51.62	Al
ATOM	41748	O4'	ADP	1049	198.992	136.279	-8.923	1.00	45.52	Al65	ATOM	41801	N4	1051	190.777	137.828	-5.252	1.00	51.62	Al
ATOM	41749	C1'	ADP	1049	199.976	136.518	-7.869	1.00	59.07	Al65	ATOM	41802	C5	1051	191.522	135.582	-5.590	1.00	51.62	Al
ATOM	41750	N9	ADP	1049	199.805	136.351	-6.515	1.00	59.07	Al65	ATOM	41803	C2'	1051	190.936	132.041	-2.855	1.00	56.88	Al
ATOM	41751	C4	ADP	1049	198.689	135.974	-5.871	1.00	59.07	Al65	ATOM	41804	O2'	1051	191.112	131.287	-1.671	1.00	56.88	Al
ATOM	41752	N3	ADP	1049	198.910	135.887	-4.562	1.00	59.07	Al65	ATOM	41805	C3' CYT	1051	191.005	131.198	-1.123	1.00	56.88	Al
ATOM	41753	C2	ADP	1049	200.030	136.121	-3.876	1.00	59.07	Al65	ATOM	41806	O3' CYT	1051	190.313	129.967	-4.005	1.00	56.88	Al
ATOM	41754	N1	ADP	1049	201.131	136.509	-4.553	1.00	59.07	Al65	ATOM	41807	P	1052	188.715	129.960	-4.115	1.00	56.25	Al
ATOM	41755	C6	ADP	1049	202.249	136.756	-3.870	1.00	59.07	Al65	ATOM	41808	O1P	1052	188.234	128.600	-3.759	1.00	37.38	Al
ATOM	41756	N6	ADP	1049	201.032	136.632	-5.942	1.00	59.07	Al65	ATOM	41809	O2P	1052	188.327	130.580	-5.407	1.00	37.38	Al
ATOM	41757	C5	ADP	1049	201.955	136.993	-6.907	1.00	59.07	Al65	ATOM	41810	O5' URI	1052	188.284	130.936	-2.942	1.00	56.25	Al
ATOM	41758	N7	ADP	1049	201.280	136.919	-8.028	1.00	59.07	Al65	ATOM	41811	C5' URI	1052	187.034	131.622	-2.962	1.00	56.25	Al
ATOM	41759	C8	ADP	1049	199.202	137.221	-10.104	1.00	45.52	Al65	ATOM	41812	C4' URI	1052	186.946	132.533	-1.771	1.00	56.25	Al
ATOM	41760	C2'	ADP	1049	198.440	138.387	-10.002	1.00	45.52	Al65	ATOM	41813	C1' URI	1052	187.424	134.790	-1.383	1.00	56.25	Al
ATOM	41761	O2'	ADP	1049	199.004	136.319	-11.329	1.00	45.52	Al65	ATOM	41814	N1	1052	187.398	135.759	-2.488	1.00	37.38	Al
ATOM	41762	C3'	ADP	1049	197.841	136.334	-12.199	1.00	45.52	Al65	ATOM	41815	C6	1052	187.681	135.368	-3.768	1.00	37.38	Al
ATOM	41763	O3'	ADP	1049	196.352	136.062	-11.631	1.00	33.05	Al65	ATOM	41816	C6	1052	187.094	137.081	-2.206	1.00	37.38	Al
ATOM	41764	P	GUA	1050	195.388	136.245	-12.757	1.00	47.67	Al65	ATOM	41817	C2	1052	186.798	137.481	-1.094	1.00	37.38	Al
ATOM	41765	O1P	GUA	1050	196.204	136.882	-10.415	1.00	47.67	Al65	ATOM	41818	O2	1052	187.141	137.924	-3.284	1.00	37.38	Al
ATOM	41766	O2P	GUA	1050	196.344	134.530	-11.196	1.00	33.05	Al65	ATOM	41819	N3	1052	187.442	137.536	-4.581	1.00	37.38	Al
ATOM	41767	O5'	GUA	1050	195.247	133.994	-10.452	1.00	33.05	Al65	ATOM	41820	C4	1052	187.556	138.490	-5.418	1.00	37.38	Al
ATOM	41768	C5'	GUA	1050	195.741	133.365	-9.173	1.00	33.05	Al65	ATOM	41821	O4	1052	187.709	136.216	-4.794	1.00	37.38	Al
ATOM	41769	C4'	GUA	1050	196.566	134.316	-8.457	1.00	33.05	Al65	ATOM	41822	C5	1052	186.040	134.489	-0.811	1.00	56.25	Al
ATOM	41770	O4'	GUA	1050	196.247	134.303	-7.071	1.00	33.05	Al65	ATOM	41823	C2' URI	1052	186.197	134.198	0.564	1.00	56.25	Al
ATOM	41771	C1'	GUA	1050	195.666	135.615	-6.738	1.00	47.67	Al65	ATOM	41824	O2' URI	1052	185.635	133.269	-1.624	1.00	56.25	Al
ATOM	41772	N9	GUA	1050	195.277	135.382	-5.504	1.00	47.67	Al65	ATOM	41825	C3' URI	1052	184.694	132.440	-0.964	1.00	56.25	Al
ATOM	41773	C4	GUA	1050	194.776	136.091	-3.340	1.00	47.67	Al65	ATOM	41826	O3' URI	1052	184.694	132.440	-0.964	1.00	56.25	Al
ATOM	41774	N3	GUA	1050	195.277	135.382	-4.343	1.00	47.67	Al65	ATOM	41827	P	1053	183.127	132.646	-1.239	1.00	63.56	Al
ATOM	41775	C2	GUA	1050	194.776	136.091	-3.340	1.00	47.67	Al65	ATOM	41828	O1P	1053	182.425	131.420	-0.736	1.00	34.17	Al
ATOM	41776	N2	GUA	1050	194.693	135.556	-2.121	1.00	47.67	Al65	ATOM	41829	O2P	1053	182.932	133.077	-2.649	1.00	34.17	Al
ATOM	41777	N1	GUA	1050	194.312	137.375	-3.463	1.00	47.67	Al65	ATOM	41830	O5' CYT	1053	182.776	133.887	-0.307	1.00	63.56	Al
ATOM	41778	C6	GUA	1050	194.230	138.106	-4.646	1.00	47.67	Al65	ATOM	41831	C5' CYT	1053	183.252	133.945	1.060	1.00	63.56	Al
ATOM	41779	O6	GUA	1050	193.842	139.258	-4.655	1.00	47.67	Al65	ATOM	41832	C4' CYT	1053	183.053	135.364	1.632	1.00	63.56	Al
ATOM	41780	C5	GUA	1050	194.814	137.361	-5.728	1.00	47.67	Al65	ATOM	41833	O4' CYT	1053	183.987	136.262	1.031	1.00	63.56	Al
ATOM	41781	N7	GUA	1050	194.955	137.708	-7.063	1.00	47.67	Al65	ATOM	41834	C1' CYT	1053	183.369	137.529	0.889	1.00	63.56	Al
ATOM	41782	C8	GUA	1050	195.473	136.649	-7.619	1.00	47.67	Al65	ATOM	41835	N1	1053	183.399	137.920	-0.529	1.00	34.17	Al

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ATOM	41836	C6	CYT	1053	183.709	137.017	-1.504	1.00	34.17	Al65	ATOM	41889	O3' URI	1055	171.200	141.173	-0.704	1.00	42.58	Al
ATOM	41837	C2	CYT	1053	183.106	139.253	-0.870	1.00	34.17	Al65	ATOM	41890	P GUA	1056	170.336	140.140	-1.585	1.00	40.14	Al
ATOM	41838	O2	CYT	1053	182.788	140.049	-0.034	1.00	34.17	Al65	ATOM	41891	O1P GUA	1056	168.916	140.330	-1.191	1.00	46.89	Al
ATOM	41839	N3	CYT	1053	183.162	139.635	-2.174	1.00	34.17	Al65	ATOM	41892	O2P GUA	1056	170.949	138.793	-1.467	1.00	46.89	Al
ATOM	41840	C4	CYT	1053	183.476	138.740	-3.116	1.00	34.17	Al65	ATOM	41893	O5' GUA	1056	170.484	140.719	-3.061	1.00	40.14	Al
ATOM	41841	N4	CYT	1053	183.522	139.149	-4.389	1.00	34.17	Al65	ATOM	41894	C5' GUA	1056	170.093	142.069	-3.322	1.00	40.14	Al
ATOM	41842	C5	CYT	1053	183.757	137.378	-2.796	1.00	34.17	Al65	ATOM	41895	C4' GUA	1056	170.497	142.497	-4.706	1.00	40.14	Al
ATOM	41843	C2	CYT	1053	181.953	137.437	-1.457	1.00	63.56	Al65	ATOM	41896	O4' GUA	1056	171.935	142.663	-4.799	1.00	40.14	Al
ATOM	41844	O2' CYT	1053	181.960	137.949	2.770	1.00	63.56	Al65	ATOM	41897	C1' GUA	1056	172.371	142.314	-6.106	1.00	40.14	Al	
ATOM	41845	C3' CYT	1053	181.684	135.939	1.384	1.00	63.56	Al65	ATOM	41898	N9 GUA	1056	173.229	141.134	-6.007	1.00	46.89	Al	
ATOM	41846	O3' CYT	1053	180.729	135.481	2.339	1.00	63.56	Al65	ATOM	41899	C4 GUA	1056	174.000	140.604	-7.011	1.00	46.89	Al	
ATOM	41847	P GUA	1054	179.161	135.475	1.962	1.00	53.57	Al65	ATOM	41900	N3 GUA	1056	174.101	141.088	-8.268	1.00	46.89	Al	
ATOM	41848	O1P GUA	1054	178.487	134.816	3.119	1.00	48.56	Al65	ATOM	41901	C2 GUA	1056	174.917	140.366	-9.007	1.00	46.89	Al	
ATOM	41849	O2P GUA	1054	178.936	134.947	0.592	1.00	48.56	Al65	ATOM	41902	N2 GUA	1056	175.130	140.709	-10.286	1.00	46.89	Al	
ATOM	41850	O5' GUA	1054	178.795	137.026	1.903	1.00	53.57	Al65	ATOM	41903	N1 GUA	1056	175.584	139.254	-8.549	1.00	46.89	Al	
ATOM	41851	C5' GUA	1054	178.869	137.840	3.075	1.00	53.57	Al65	ATOM	41904	C6 GUA	1056	175.494	138.735	-7.261	1.00	46.89	Al	
ATOM	41852	C4' GUA	1054	178.434	139.239	2.754	1.00	53.57	Al65	ATOM	41905	O6 GUA	1056	176.141	137.715	-6.951	1.00	46.89	Al	
ATOM	41853	O4' GUA	1054	179.449	139.904	1.966	1.00	53.57	Al65	ATOM	41906	C5 GUA	1056	174.617	139.504	-6.457	1.00	46.89	Al	
ATOM	41854	C1' GUA	1054	178.838	140.860	1.118	1.00	53.57	Al65	ATOM	41907	N7 GUA	1056	174.237	139.340	-5.131	1.00	46.89	Al	
ATOM	41855	N9 GUA	1054	179.267	141.539	-1.282	1.00	48.56	Al65	ATOM	41908	C8 GUA	1056	173.418	140.328	-4.907	1.00	46.89	Al	
ATOM	41856	C4 GUA	1054	179.949	142.843	-1.170	1.00	48.56	Al65	ATOM	41909	C2' GUA	1056	171.122	141.993	-6.922	1.00	40.14	Al	
ATOM	41857	N3 GUA	1054	179.057	143.480	-2.326	1.00	48.56	Al65	ATOM	41910	O2' GUA	1056	170.669	143.177	-7.540	1.00	40.14	Al	
ATOM	41858	C2 GUA	1054	178.791	144.790	-2.400	1.00	48.56	Al65	ATOM	41911	C3' GUA	1056	170.161	141.547	-5.833	1.00	40.14	Al	
ATOM	41859	N2 GUA	1054	179.438	142.882	-3.496	1.00	48.56	Al65	ATOM	41912	O3' GUA	1056	168.827	141.679	-6.241	1.00	40.14	Al	
ATOM	41860	N1 GUA	1054	179.765	141.541	-3.640	1.00	48.56	Al65	ATOM	41913	P CYT	1057	168.033	140.383	-6.728	1.00	43.60	Al	
ATOM	41861	C6 GUA	1054	179.765	141.541	-3.640	1.00	48.56	Al65	ATOM	41914	O1P CYT	1057	166.599	140.725	-6.995	1.00	45.01	Al	
ATOM	41862	O6 GUA	1054	180.085	141.107	-4.745	1.00	48.56	Al65	ATOM	41915	O2P CYT	1057	168.381	139.323	-5.741	1.00	45.01	Al	
ATOM	41863	C5 GUA	1054	179.665	140.843	-2.407	1.00	48.56	Al65	ATOM	41916	O5' CYT	1057	168.706	140.050	-8.124	1.00	43.60	Al	
ATOM	41864	N7 GUA	1054	179.898	139.508	-2.107	1.00	48.56	Al65	ATOM	41917	C5' CYT	1057	168.501	140.911	-9.249	1.00	43.60	Al	
ATOM	41865	C8 GUA	1054	179.640	139.414	-0.828	1.00	48.56	Al65	ATOM	41918	O4' CYT	1057	170.748	140.458	-10.396	1.00	43.60	Al	
ATOM	41866	C2' GUA	1054	177.323	140.758	1.322	1.00	53.57	Al65	ATOM	41919	C4' CYT	1057	170.463	140.521	-9.994	1.00	43.60	Al	
ATOM	41867	O2' GUA	1054	176.906	141.758	2.221	1.00	53.57	Al65	ATOM	41920	C1' CYT	1057	171.463	139.455	-10.590	1.00	43.60	Al	
ATOM	41868	C3' GUA	1054	177.175	139.367	1.920	1.00	53.57	Al65	ATOM	41921	N1 CYT	1057	171.978	138.586	-9.525	1.00	45.01	Al	
ATOM	41869	O3' GUA	1054	175.996	139.237	2.704	1.00	53.57	Al65	ATOM	41922	C6 CYT	1057	173.376	138.585	-8.303	1.00	45.01	Al	
ATOM	41870	P URI	1055	174.765	138.343	2.160	1.00	42.58	Al65	ATOM	41923	C2 CYT	1057	173.083	137.789	-9.793	1.00	45.01	Al	
ATOM	41871	O1P URI	1055	175.294	137.174	1.403	1.00	59.36	Al65	ATOM	41924	O2 CYT	1057	173.622	137.878	-10.895	1.00	45.01	Al	
ATOM	41872	O2P URI	1055	174.050	139.320	1.114	1.00	42.58	Al65	ATOM	41925	N3 CYT	1057	172.932	136.873	-7.672	1.00	45.01	Al	
ATOM	41873	O5' URI	1055	173.346	140.482	1.573	1.00	42.58	Al65	ATOM	41926	C4 CYT	1057	173.541	136.941	-8.851	1.00	45.01	Al	
ATOM	41874	C5' URI	1055	173.280	141.541	0.502	1.00	42.58	Al65	ATOM	41927	N4 CYT	1057	170.486	138.691	-11.482	1.00	43.60	Al	
ATOM	41875	O4' URI	1055	174.619	141.941	0.104	1.00	42.58	Al65	ATOM	41928	C5 CYT	1057	171.812	137.697	-7.356	1.00	45.01	Al	
ATOM	41876	O4' URI	1055	174.620	142.321	-1.271	1.00	42.58	Al65	ATOM	41929	C2' CYT	1057	170.486	138.691	-11.482	1.00	43.60	Al	
ATOM	41877	C1' URI	1055	175.483	141.397	-2.031	1.00	59.36	Al65	ATOM	41930	O2' CYT	1057	170.519	139.201	-12.801	1.00	43.60	Al	
ATOM	41878	N1 URI	1055	175.760	140.133	-1.565	1.00	59.36	Al65	ATOM	41931	C3' CYT	1057	169.167	139.013	-10.812	1.00	43.60	Al	
ATOM	41879	C6 URI	1055	175.965	141.822	-3.261	1.00	59.36	Al65	ATOM	41932	O3' CYT	1057	168.081	138.827	-11.683	1.00	43.60	Al	
ATOM	41880	C2 URI	1055	175.799	142.952	-3.686	1.00	59.36	Al65	ATOM	41933	P CYT	1058	167.365	137.399	-11.727	1.00	49.69	Al	
ATOM	41881	O2 URI	1055	176.648	140.869	-3.975	1.00	59.36	Al65	ATOM	41934	O1P CYT	1058	166.162	137.528	-12.592	1.00	34.07	Al	
ATOM	41882	N3 URI	1055	176.909	139.565	-3.589	1.00	59.36	Al65	ATOM	41935	O2P CYT	1058	167.430	136.897	-10.341	1.00	34.07	Al	
ATOM	41883	O4 URI	1055	177.414	138.772	-4.401	1.00	59.36	Al65	ATOM	41936	O5' CYT	1058	168.430	136.474	-12.463	1.00	49.69	Al	
ATOM	41884	C4 URI	1055	176.432	139.231	-2.280	1.00	59.36	Al65	ATOM	41937	C5' CYT	1058	168.713	136.650	-13.864	1.00	49.69	Al	
ATOM	41885	C5 URI	1055	173.179	142.191	-1.773	1.00	42.58	Al65	ATOM	41938	C4' CYT	1058	169.543	135.503	-14.380	1.00	49.69	Al	
ATOM	41886	C2' URI	1055	172.564	143.461	-0.730	1.00	42.58	Al65	ATOM	41939	O4' CYT	1058	170.872	135.558	-13.818	1.00	49.69	Al	
ATOM	41887	O2' URI	1055	172.609	141.158	-0.800	1.00	42.58	Al65	ATOM	41940	C1' CYT	1058	171.358	134.246	-13.613	1.00	49.69	Al	
ATOM	41888	C3' URI	1055	172.609	141.158	-0.800	1.00	42.58	Al65	ATOM	41941	N1 CYT	1058	171.572	134.058	-12.179	1.00	34.07	Al	

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ATOM	41942	C6	CYT	1058	171.070	134.943	-11.273	1.00	34.07	Al6s	ATOM	41995	O3' URI	1060	166.180	126.308	-8.327	1.00	32.55	A
ATOM	41943	C2	CYT	1058	172.287	132.946	-11.752	1.00	34.07	Al6s	ATOM	41996	P GUA	1061	167.546	127.093	-8.042	1.00	37.91	A
ATOM	41944	O2	CYT	1058	172.733	132.160	-12.599	1.00	34.07	Al6s	ATOM	41997	O1P GUA	1061	167.457	127.809	-6.744	1.00	35.72	A
ATOM	41945	N3	CYT	1058	172.471	132.746	-10.432	1.00	34.07	Al6s	ATOM	41998	O2P GUA	1061	167.866	127.854	-9.275	1.00	35.72	A
ATOM	41946	C4	CYT	1058	171.959	133.599	-9.556	1.00	34.07	Al6s	ATOM	41999	O5' GUA	1061	168.576	125.914	-7.790	1.00	37.91	A
ATOM	41947	N4	CYT	1058	172.131	133.344	-8.266	1.00	34.07	Al6s	ATOM	42000	C5' GUA	1061	168.356	125.000	-6.711	1.00	37.91	A
ATOM	41948	C5	CYT	1058	171.238	134.751	-9.995	1.00	34.07	Al6s	ATOM	42001	C4' GUA	1061	169.305	123.839	-6.813	1.00	37.91	A
ATOM	41949	C2'	CYT	1058	170.297	133.274	-14.116	1.00	49.69	Al6s	ATOM	42002	O4' GUA	1061	169.056	123.120	-8.045	1.00	37.91	A
ATOM	41950	O2'	CYT	1058	170.586	132.891	-15.445	1.00	49.69	Al6s	ATOM	42003	C1' GUA	1061	170.273	122.652	-8.583	1.00	37.91	A
ATOM	41951	C3' CYT	1058	169.047	134.124	-14.005	1.00	49.69	Al6s	ATOM	42004	N9 GUA	1061	170.407	123.229	-9.917	1.00	35.72	A	
ATOM	41952	O3' CYT	1058	168.017	133.683	-14.853	1.00	49.69	Al6s	ATOM	42005	C4 GUA	1061	170.874	122.594	-11.039	1.00	35.72	A	
ATOM	41953	P GUA	1059	166.829	132.806	-14.235	1.00	37.08	Al6s	ATOM	42006	N3 GUA	1061	171.369	121.346	-11.093	1.00	35.72	A	
ATOM	41954	O1P GUA	1059	165.820	132.657	-15.327	1.00	48.14	Al6s	ATOM	42007	C2 GUA	1061	171.667	120.986	-12.325	1.00	35.72	A	
ATOM	41955	O2P GUA	1059	166.436	133.379	-12.920	1.00	48.14	Al6s	ATOM	42008	N2 GUA	1061	172.164	119.766	-12.553	1.00	35.72	A	
ATOM	41956	O5' GUA	1059	167.522	131.412	-13.918	1.00	37.08	Al6s	ATOM	42009	N1 GUA	1061	171.495	121.791	-13.421	1.00	35.72	A	
ATOM	41957	C5' GUA	1059	168.065	130.618	-14.976	1.00	37.08	Al6s	ATOM	42010	C6 GUA	1061	170.988	123.081	-13.386	1.00	35.72	A	
ATOM	41958	C4' GUA	1059	168.769	129.425	-14.408	1.00	37.08	Al6s	ATOM	42011	O6 GUA	1061	170.852	123.713	-14.429	1.00	35.72	A	
ATOM	41959	O4' GUA	1059	169.911	129.863	-13.637	1.00	37.08	Al6s	ATOM	42012	C5 GUA	1061	170.674	123.483	-12.072	1.00	35.72	A	
ATOM	41960	C1' GUA	1059	170.195	128.899	-12.646	1.00	37.08	Al6s	ATOM	42013	N7 GUA	1061	170.024	124.487	-10.316	1.00	35.72	A	
ATOM	41961	N9 GUA	1059	170.235	129.553	-11.348	1.00	48.14	Al6s	ATOM	42014	C8 GUA	1061	171.376	123.001	-7.587	1.00	37.91	A	
ATOM	41962	C4 GUA	1059	170.865	129.072	-10.229	1.00	48.14	Al6s	ATOM	42015	C2' GUA	1061	171.515	121.920	-6.683	1.00	37.91	A	
ATOM	41963	N3 GUA	1059	171.614	127.955	-10.162	1.00	48.14	Al6s	ATOM	42016	O2' GUA	1061	170.774	124.200	-6.876	1.00	37.91	A	
ATOM	41964	C2 GUA	1059	172.069	127.742	-8.949	1.00	48.14	Al6s	ATOM	42017	C3' GUA	1061	171.303	124.356	-5.577	1.00	37.91	A	
ATOM	41965	N2 GUA	1059	172.864	126.701	-8.707	1.00	48.14	Al6s	ATOM	42018	O3' GUA	1061	172.601	125.268	-5.367	1.00	36.89	A	
ATOM	41966	C6 GUA	1059	171.789	128.542	-7.878	1.00	48.14	Al6s	ATOM	42019	P ADE	1062	172.774	125.473	-3.916	1.00	29.90	A	
ATOM	41967	C6 GUA	1059	171.017	129.695	-7.920	1.00	48.14	Al6s	ATOM	42020	O1P ADE	1062	172.510	126.424	-6.277	1.00	29.90	A	
ATOM	41968	O6 GUA	1059	170.818	130.339	-6.886	1.00	48.14	Al6s	ATOM	42021	O2P ADE	1062	172.774	125.473	-3.916	1.00	29.90	A	
ATOM	41969	C5 GUA	1059	170.546	129.954	-9.224	1.00	48.14	Al6s	ATOM	42022	O5' ADE	1062	173.800	124.333	-5.807	1.00	36.89	A	
ATOM	41970	N7 GUA	1059	169.774	130.998	-9.711	1.00	48.14	Al6s	ATOM	42023	C5' ADE	1062	174.073	123.136	-5.075	1.00	36.89	A	
ATOM	41971	C8 GUA	1059	169.624	130.722	-10.979	1.00	48.14	Al6s	ATOM	42024	O4' ADE	1062	175.100	122.321	-5.795	1.00	36.89	A	
ATOM	41972	C2' GUA	1059	169.090	127.843	-12.688	1.00	37.08	Al6s	ATOM	42025	C4' ADE	1062	175.568	121.870	-8.012	1.00	36.89	A	
ATOM	41973	O2' GUA	1059	169.519	126.713	-13.418	1.00	37.08	Al6s	ATOM	42026	C1' ADE	1062	175.171	122.590	-9.162	1.00	29.90	A	
ATOM	41974	C3' GUA	1059	167.989	128.591	-13.411	1.00	37.08	Al6s	ATOM	42027	N9 ADE	1062	175.318	120.897	-10.913	1.00	29.90	A	
ATOM	41975	O3' GUA	1059	167.078	127.717	-14.026	1.00	37.08	Al6s	ATOM	42028	C4 ADE	1062	175.074	122.139	-10.458	1.00	29.90	A	
ATOM	41976	P URI	1060	165.574	127.660	-13.485	1.00	32.55	Al6s	ATOM	42029	N3 ADE	1062	175.112	120.829	-12.220	1.00	29.90	A	
ATOM	41977	O1P URI	1060	164.764	126.801	-14.388	1.00	42.95	Al6s	ATOM	42030	C2 ADE	1062	174.471	123.017	-12.572	1.00	29.90	A	
ATOM	41978	O2P URI	1060	165.162	129.064	-13.249	1.00	42.95	Al6s	ATOM	42031	N1 ADE	1062	174.713	121.781	-13.060	1.00	29.90	A	
ATOM	41979	O5' URI	1060	165.726	126.895	-12.099	1.00	32.55	Al6s	ATOM	42032	C6 ADE	1062	174.050	123.966	-11.205	1.00	29.90	A	
ATOM	41980	C5' URI	1060	164.697	126.971	-11.115	1.00	32.55	Al6s	ATOM	42033	N6 ADE	1062	174.565	123.226	-11.205	1.00	29.90	A	
ATOM	41981	C4' URI	1060	164.509	124.580	-10.969	1.00	32.55	Al6s	ATOM	42034	C5 ADE	1062	174.514	124.346	-10.402	1.00	29.90	A	
ATOM	41982	O4' URI	1060	165.202	123.498	-10.373	1.00	32.55	Al6s	ATOM	42035	N7 ADE	1062	174.823	123.917	-9.201	1.00	29.90	A	
ATOM	41983	C1' URI	1060	166.072	122.856	-11.371	1.00	42.95	Al6s	ATOM	42036	C8 ADE	1062	176.867	122.236	-7.352	1.00	36.89	A	
ATOM	41984	N1 URI	1060	166.551	123.533	-12.458	1.00	42.95	Al6s	ATOM	42037	C2' ADE	1062	177.511	121.066	-6.897	1.00	36.89	A	
ATOM	41985	C6 URI	1060	166.551	123.533	-12.458	1.00	42.95	Al6s	ATOM	42038	O2' ADE	1062	177.511	121.066	-6.897	1.00	36.89	A	
ATOM	41986	C2 URI	1060	166.403	121.530	-11.160	1.00	42.95	Al6s	ATOM	42039	C3' ADE	1062	176.352	123.076	-6.193	1.00	36.89	A	
ATOM	41987	O2 URI	1060	165.979	120.886	-10.215	1.00	42.95	Al6s	ATOM	42040	P ADE	1062	177.263	123.118	-5.095	1.00	36.89	A	
ATOM	41988	N3 URI	1060	167.247	120.986	-12.094	1.00	42.95	Al6s	ATOM	42041	O3' GUA	1063	178.128	124.450	-4.811	1.00	30.19	A	
ATOM	41989	C4 URI	1060	167.769	121.615	-13.191	1.00	42.95	Al6s	ATOM	42042	O1P GUA	1063	178.927	124.168	-3.588	1.00	46.29	A	
ATOM	41990	O4 URI	1060	168.554	121.015	-13.906	1.00	42.95	Al6s	ATOM	42043	O2P GUA	1063	177.234	125.632	-6.855	1.00	46.29	A	
ATOM	41991	C5 URI	1060	167.365	122.972	-13.351	1.00	42.95	Al6s	ATOM	42044	O5' GUA	1063	179.094	124.550	-6.069	1.00	30.19	A	
ATOM	41992	C2' URI	1060	165.979	124.038	-9.173	1.00	32.55	Al6s	ATOM	42045	C5' GUA	1063	179.412	125.795	-6.671	1.00	30.19	A	
ATOM	41993	O2' URI	1060	165.217	123.772	-8.017	1.00	32.55	Al6s	ATOM	42046	C4' GUA	1063	178.962	125.795	-8.102	1.00	30.19	A	
ATOM	41994	C3' URI	1060	166.066	125.522	-9.498	1.00	32.55	Al6s	ATOM	42047	O4' GUA	1063	177.517	125.630	-8.148	1.00	30.19	A	

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ATOM	42048	C1' GUA	1063	176.967	126.495	-9.136	1.00	30.19	Al6s	ATOM	42101	O4' URI	1065	178.428	135.353	-7.151	1.00	53.98	Al
ATOM	42049	N9 GUA	1063	176.145	127.490	-8.451	1.00	46.29	Al6s	ATOM	42102	C5' URI	1065	179.272	134.905	-9.310	1.00	53.98	Al
ATOM	42050	C4 GUA	1063	175.475	128.547	-9.022	1.00	46.29	Al6s	ATOM	42103	C2' URI	1065	179.104	137.656	-12.989	1.00	57.47	Al
ATOM	42051	N3 GUA	1063	175.408	128.828	-10.336	1.00	46.29	Al6s	ATOM	42104	O2' URI	1065	178.316	138.407	-13.891	1.00	57.47	Al
ATOM	42052	C2 GUA	1063	174.704	129.920	-10.571	1.00	46.29	Al6s	ATOM	42105	C3' URI	1065	180.252	136.901	-13.660	1.00	57.47	Al
ATOM	42053	N2 GUA	1063	174.521	130.346	-11.823	1.00	46.29	Al6s	ATOM	42106	O3' URI	1065	180.830	137.660	-14.716	1.00	57.47	Al
ATOM	42054	N1 GUA	1063	174.124	130.681	-9.596	1.00	46.29	Al6s	ATOM	42107	P GUA	1066	182.420	137.907	-14.763	1.00	45.34	Al
ATOM	42055	C6 GUA	1063	174.184	130.417	-8.235	1.00	46.29	Al6s	ATOM	42108	O1P GUA	1066	182.592	138.632	-16.043	1.00	48.72	Al
ATOM	42056	O6 GUA	1063	173.628	131.181	-7.432	1.00	46.29	Al6s	ATOM	42109	O2P GUA	1066	183.159	136.643	-14.523	1.00	48.72	Al
ATOM	42057	C5 GUA	1063	174.926	129.241	-7.969	1.00	46.29	Al6s	ATOM	42110	O5' GUA	1066	182.732	138.887	-13.549	1.00	45.34	Al
ATOM	42058	N7 GUA	1063	175.218	128.621	-6.764	1.00	46.29	Al6s	ATOM	42111	C5' GUA	1066	182.146	140.186	-13.492	1.00	45.34	Al
ATOM	42059	C8 GUA	1063	175.931	127.584	-7.099	1.00	46.29	Al6s	ATOM	42112	C4' GUA	1066	182.142	140.689	-12.073	1.00	45.34	Al
ATOM	42060	C2' GUA	1063	178.138	127.170	-9.862	1.00	30.19	Al6s	ATOM	42113	O4' GUA	1066	181.329	139.827	-11.234	1.00	45.34	Al
ATOM	42061	O2' GUA	1063	178.454	126.465	-11.034	1.00	30.19	Al6s	ATOM	42114	C1' GUA	1066	181.831	139.838	-9.910	1.00	45.34	Al
ATOM	42062	C3' GUA	1063	179.233	127.111	-8.804	1.00	30.19	Al6s	ATOM	42115	N9 GUA	1066	182.028	138.456	-9.490	1.00	48.72	Al
ATOM	42063	O3' GUA	1063	180.553	127.166	-9.318	1.00	30.19	Al6s	ATOM	42116	C4 GUA	1066	181.796	137.922	-8.242	1.00	48.72	Al
ATOM	42064	P GUA	1064	181.366	128.555	-9.275	1.00	40.80	Al6s	ATOM	42117	N3 GUA	1066	181.358	138.591	-7.154	1.00	48.72	Al
ATOM	42065	O1P GUA	1064	182.740	128.281	-9.766	1.00	43.02	Al6s	ATOM	42118	C2 GUA	1066	180.819	138.273	-4.913	1.00	48.72	Al
ATOM	42066	O2P GUA	1064	181.183	129.176	-7.942	1.00	43.02	Al6s	ATOM	42119	N2 GUA	1066	181.509	136.448	-6.120	1.00	48.72	Al
ATOM	42067	O5' GUA	1064	180.630	129.447	-10.368	1.00	40.80	Al6s	ATOM	42120	N1 GUA	1066	182.166	134.533	-7.134	1.00	48.72	Al
ATOM	42068	C5' GUA	1064	180.569	129.004	-11.720	1.00	40.80	Al6s	ATOM	42121	C6 GUA	1066	181.954	135.743	-7.227	1.00	48.72	Al
ATOM	42069	C4' GUA	1064	179.636	129.861	-12.528	1.00	40.80	Al6s	ATOM	42122	O6 GUA	1066	182.166	134.533	-7.134	1.00	48.72	Al
ATOM	42070	O4' GUA	1064	178.312	129.805	-11.948	1.00	40.80	Al6s	ATOM	42123	C5 GUA	1066	182.523	136.286	-9.641	1.00	48.72	Al
ATOM	42071	C1' GUA	1064	177.640	131.036	-12.190	1.00	40.80	Al6s	ATOM	42124	N7 GUA	1066	182.467	137.423	-10.275	1.00	48.72	Al
ATOM	42072	N9 GUA	1064	177.260	131.638	-10.913	1.00	43.02	Al6s	ATOM	42125	C8 GUA	1066	183.083	140.721	-9.891	1.00	45.34	Al
ATOM	42073	C4 GUA	1064	176.481	132.756	-10.754	1.00	43.02	Al6s	ATOM	42126	C2' GUA	1066	182.717	141.998	-9.387	1.00	45.34	Al
ATOM	42074	N3 GUA	1064	175.934	133.483	-11.745	1.00	43.02	Al6s	ATOM	42127	O2' GUA	1066	183.483	140.743	-11.369	1.00	45.34	Al
ATOM	42075	C2 GUA	1064	175.221	134.491	-11.280	1.00	43.02	Al6s	ATOM	42128	C3' GUA	1066	184.153	141.934	-11.758	1.00	45.34	Al
ATOM	42076	N2 GUA	1064	174.597	135.315	-12.126	1.00	43.02	Al6s	ATOM	42129	O3' GUA	1066	185.713	142.135	-11.420	1.00	57.11	Al
ATOM	42077	N1 GUA	1064	175.065	134.765	-9.955	1.00	43.02	Al6s	ATOM	42130	P URI	1067	186.152	143.250	-12.318	1.00	58.61	Al
ATOM	42078	C6 GUA	1064	175.624	134.031	-8.917	1.00	43.02	Al6s	ATOM	42131	O1P URI	1067	185.872	142.254	-9.944	1.00	58.61	Al
ATOM	42079	O6 GUA	1064	176.422	134.368	-7.747	1.00	43.02	Al6s	ATOM	42132	O2P URI	1067	186.404	140.769	-11.863	1.00	57.11	Al
ATOM	42080	C5 GUA	1064	177.385	132.945	-9.398	1.00	43.02	Al6s	ATOM	42133	O5' URI	1067	187.835	140.660	-12.063	1.00	57.11	Al
ATOM	42081	N7 GUA	1064	177.096	131.970	-8.710	1.00	43.02	Al6s	ATOM	42134	C5' URI	1067	188.229	139.205	-12.064	1.00	57.11	Al
ATOM	42082	C8 GUA	1064	177.599	131.217	-9.648	1.00	43.02	Al6s	ATOM	42135	O4' URI	1067	188.047	138.705	-10.727	1.00	57.11	Al
ATOM	42083	C2' GUA	1064	178.590	131.934	-12.977	1.00	40.80	Al6s	ATOM	42136	C1' URI	1067	187.490	137.409	-10.768	1.00	57.11	Al
ATOM	42084	O2' GUA	1064	178.301	131.809	-14.351	1.00	40.80	Al6s	ATOM	42137	N1 URI	1067	186.575	137.243	-9.625	1.00	58.61	Al
ATOM	42085	C3' GUA	1064	179.942	131.345	-12.603	1.00	40.80	Al6s	ATOM	42138	C6 URI	1067	185.954	138.318	-9.031	1.00	58.61	Al
ATOM	42086	O3' GUA	1064	180.939	131.656	-13.557	1.00	40.80	Al6s	ATOM	42139	O2 URI	1067	186.410	135.970	-9.116	1.00	58.61	Al
ATOM	42087	P URI	1065	182.018	132.799	-13.225	1.00	57.47	Al6s	ATOM	42140	C2 URI	1067	186.859	134.977	-9.654	1.00	58.61	Al
ATOM	42088	O1P URI	1065	182.521	132.864	-11.837	1.00	53.98	Al6s	ATOM	42141	O2 URI	1067	185.691	135.896	-7.951	1.00	58.61	Al
ATOM	42089	O2P URI	1065	181.150	134.127	-13.284	1.00	57.47	Al6s	ATOM	42142	N3 URI	1067	184.632	136.727	-6.150	1.00	58.61	Al
ATOM	42090	O5' URI	1065	180.425	134.467	-14.471	1.00	57.47	Al6s	ATOM	42143	C4 URI	1067	185.250	138.211	-7.901	1.00	58.61	Al
ATOM	42091	C5' URI	1065	179.555	135.675	-14.225	1.00	57.47	Al6s	ATOM	42144	C5 URI	1067	187.057	137.057	-12.195	1.00	57.11	Al
ATOM	42092	C4' URI	1065	178.533	135.358	-13.251	1.00	57.47	Al6s	ATOM	42145	O2' URI	1067	187.324	135.912	-12.660	1.00	57.11	Al
ATOM	42093	O4' URI	1065	178.222	136.515	-12.498	1.00	57.47	Al6s	ATOM	42146	C3' URI	1067	187.780	138.307	-14.330	1.00	57.11	Al
ATOM	42094	C1' URI	1065	178.355	136.218	-11.062	1.00	53.98	Al6s	ATOM	42147	O3' URI	1067	189.303	137.864	-14.719	1.00	52.95	Al
ATOM	42095	N1 URI	1065	177.176	135.221	-10.602	1.00	53.98	Al6s	ATOM	42148	P URI	1068	189.907	136.901	-13.757	1.00	62.35	Al
ATOM	42096	C6 URI	1065	177.602	136.975	-10.193	1.00	53.98	Al6s	ATOM	42149	O1P URI	1068	190.028	139.117	-15.042	1.00	62.35	Al
ATOM	42097	C2 URI	1065	176.888	137.895	-10.565	1.00	53.98	Al6s	ATOM	42150	O2P URI	1068	189.095	137.067	-16.084	1.00	52.95	Al
ATOM	42098	O2 URI	1065	177.718	136.621	-8.871	1.00	53.98	Al6s	ATOM	42151	O5' URI	1068						Al
ATOM	42099	N3 URI	1065	178.501	135.616	-8.348	1.00	53.98	Al6s	ATOM	42152								Al
ATOM	42100	C4 URI	1065						Al6s	ATOM	42153								Al

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ATOM	42154	C5' URI	1068	188.387	135.801	-16.115	1.00	52.95	Al6s	ATOM	42207	C6 GUA	1070	190.946	145.155	-20.144	1.00	44.76	Al
ATOM	42155	C4' URI	1068	187.274	135.833	-17.147	1.00	52.95	Al6s	ATOM	42208	O6 GUA	1070	191.132	144.669	-19.019	1.00	44.76	Al
ATOM	42156	O4' URI	1068	186.040	136.345	-16.577	1.00	52.95	Al6s	ATOM	42209	C5 GUA	1070	190.576	144.490	-21.325	1.00	44.76	Al
ATOM	42157	C1' URI	1068	185.340	137.109	-17.559	1.00	52.95	Al6s	ATOM	42210	N7 GUA	1070	190.323	143.147	-21.556	1.00	44.76	Al
ATOM	42158	N1 URI	1068	185.218	138.500	-17.074	1.00	62.35	Al6s	ATOM	42211	C8 GUA	1070	190.039	143.094	-22.829	1.00	44.76	Al
ATOM	42159	C6 URI	1068	185.617	138.834	-15.799	1.00	62.35	Al6s	ATOM	42212	C2' GUA	1070	191.300	144.856	-25.486	1.00	72.06	Al
ATOM	42160	C2 URI	1068	184.697	139.476	-17.931	1.00	62.35	Al6s	ATOM	42213	O2' GUA	1070	191.245	145.843	-26.500	1.00	72.06	Al
ATOM	42161	O2 URI	1068	184.307	139.234	-19.063	1.00	62.35	Al6s	ATOM	42214	C3' GUA	1070	192.641	143.393	-26.946	1.00	72.06	Al
ATOM	42162	N3 URI	1068	184.649	140.748	-17.396	1.00	62.35	Al6s	ATOM	42215	O3' GUA	1070	194.162	143.162	-26.481	1.00	74.15	Al
ATOM	42163	C4 URI	1068	185.045	141.139	-16.117	1.00	62.35	Al6s	ATOM	42216	P GUA	1071	194.938	142.966	-27.725	1.00	53.27	Al
ATOM	42164	O4 URI	1068	184.905	142.317	-15.752	1.00	62.35	Al6s	ATOM	42217	O1P GUA	1071	194.225	142.130	-25.404	1.00	53.27	Al
ATOM	42165	C5 URI	1068	185.551	140.078	-15.310	1.00	62.35	Al6s	ATOM	42218	O2P GUA	1071	194.566	144.554	-25.823	1.00	74.15	Al
ATOM	42166	C2' URI	1068	186.122	136.997	-18.872	1.00	52.95	Al6s	ATOM	42219	O5' GUA	1071	194.630	145.744	-26.619	1.00	74.15	Al
ATOM	42167	O2' URI	1068	185.597	135.938	-19.641	1.00	52.95	Al6s	ATOM	42220	C5' GUA	1071	195.037	146.920	-25.774	1.00	74.15	Al
ATOM	42168	C3' URI	1068	187.528	136.698	-18.373	1.00	52.95	Al6s	ATOM	42221	O4' GUA	1071	193.990	147.188	-24.806	1.00	74.15	Al
ATOM	42169	O3' URI	1068	188.307	136.033	-19.353	1.00	52.95	Al6s	ATOM	42222	C4' GUA	1071	194.516	147.037	-22.617	1.00	74.15	Al
ATOM	42170	P GUA	1069	189.446	136.844	-20.139	1.00	49.87	Al6s	ATOM	42223	C1' GUA	1071	194.339	146.748	-22.526	1.00	53.27	Al
ATOM	42171	O1P GUA	1069	190.138	135.856	-20.997	1.00	42.65	Al6s	ATOM	42224	N9 GUA	1071	194.865	148.243	-20.696	1.00	53.27	Al
ATOM	42172	O2P GUA	1069	190.240	137.630	-19.161	1.00	42.65	Al6s	ATOM	42225	C4 GUA	1071	194.516	147.037	-22.198	1.00	53.27	Al
ATOM	42173	O5' GUA	1069	188.620	137.837	-21.068	1.00	49.87	Al6s	ATOM	42226	N3 GUA	1071	194.865	148.243	-20.696	1.00	53.27	Al
ATOM	42174	C5' GUA	1069	187.810	137.323	-22.127	1.00	49.87	Al6s	ATOM	42227	C2 GUA	1071	194.996	148.219	-19.386	1.00	53.27	Al
ATOM	42175	C4' GUA	1069	187.191	138.452	-22.901	1.00	49.87	Al6s	ATOM	42228	N2 GUA	1071	195.325	149.345	-18.748	1.00	53.27	Al
ATOM	42176	O4' GUA	1069	186.263	139.152	-22.042	1.00	49.87	Al6s	ATOM	42229	N1 GUA	1071	194.810	147.091	-18.613	1.00	53.27	Al
ATOM	42177	C1' GUA	1069	186.316	140.544	-22.310	1.00	49.87	Al6s	ATOM	42230	C6 GUA	1071	194.452	145.837	-19.103	1.00	53.27	Al
ATOM	42178	N9 GUA	1069	186.784	141.215	-21.098	1.00	42.65	Al6s	ATOM	42231	O6 GUA	1071	194.321	144.893	-18.321	1.00	53.27	Al
ATOM	42179	C4 GUA	1069	186.984	142.563	-20.933	1.00	42.65	Al6s	ATOM	42232	C5 GUA	1071	194.295	145.855	-20.529	1.00	53.27	Al
ATOM	42180	N3 GUA	1069	186.805	143.509	-21.875	1.00	42.65	Al6s	ATOM	42233	N7 GUA	1071	193.948	144.846	-21.420	1.00	53.27	Al
ATOM	42181	C2 GUA	1069	187.071	144.713	-21.409	1.00	42.65	Al6s	ATOM	42234	C8 GUA	1071	193.977	145.426	-22.593	1.00	53.27	Al
ATOM	42182	N2 GUA	1069	186.955	145.774	-22.215	1.00	42.65	Al6s	ATOM	42235	C2' GUA	1071	196.079	147.786	-23.838	1.00	74.15	Al
ATOM	42183	N1 GUA	1069	187.475	144.967	-20.116	1.00	42.65	Al6s	ATOM	42236	O2' GUA	1071	196.452	149.086	-24.248	1.00	74.15	Al
ATOM	42184	C6 GUA	1069	187.663	143.998	-19.134	1.00	42.65	Al6s	ATOM	42237	C3' GUA	1071	196.287	146.745	-24.922	1.00	74.15	Al
ATOM	42185	O6 GUA	1069	188.024	144.321	-18.002	1.00	42.65	Al6s	ATOM	42238	O3' GUA	1072	197.514	146.950	-25.603	1.00	74.15	Al
ATOM	42186	C5 GUA	1069	187.390	142.715	-19.619	1.00	42.65	Al6s	ATOM	42239	P URI	1072	198.830	146.150	-25.121	1.00	72.64	Al
ATOM	42187	N7 GUA	1069	187.458	141.488	-18.977	1.00	42.65	Al6s	ATOM	42240	O1P URI	1072	199.940	146.599	-26.008	1.00	69.38	Al
ATOM	42188	C8 GUA	1069	187.097	140.627	-19.889	1.00	42.65	Al6s	ATOM	42241	O2P URI	1072	198.522	144.697	-24.993	1.00	69.38	Al
ATOM	42189	C2' GUA	1069	187.252	140.750	-23.500	1.00	49.87	Al6s	ATOM	42242	O5' URI	1072	199.124	146.677	-23.649	1.00	72.64	Al
ATOM	42190	O2' GUA	1069	186.501	140.757	-24.699	1.00	49.87	Al6s	ATOM	42243	C5' URI	1072	199.456	148.047	-23.416	1.00	72.64	Al
ATOM	42191	C3' GUA	1069	188.152	139.528	-23.385	1.00	49.87	Al6s	ATOM	42244	C4' URI	1072	199.537	148.316	-21.938	1.00	72.64	Al
ATOM	42192	O3' GUA	1069	188.770	139.193	-24.619	1.00	49.87	Al6s	ATOM	42245	O4' URI	1072	198.252	148.032	-21.322	1.00	72.64	Al
ATOM	42193	P GUA	1070	190.358	139.365	-24.775	1.00	72.06	Al6s	ATOM	42246	C1' URI	1072	198.457	147.572	-19.997	1.00	72.64	Al
ATOM	42194	O1P GUA	1070	190.745	138.533	-25.945	1.00	44.76	Al6s	ATOM	42247	N1 URI	1072	197.916	146.214	-19.861	1.00	69.38	Al
ATOM	42195	O2P GUA	1070	190.989	139.109	-23.451	1.00	44.76	Al6s	ATOM	42248	C6 URI	1072	197.605	145.439	-20.953	1.00	69.38	Al
ATOM	42196	O5' GUA	1070	190.551	140.905	-25.131	1.00	72.06	Al6s	ATOM	42249	C2 URI	1072	197.757	145.727	-18.579	1.00	69.38	Al
ATOM	42197	C5' GUA	1070	190.111	141.428	-26.396	1.00	72.06	Al6s	ATOM	42250	O2 URI	1072	197.998	146.391	-17.586	1.00	69.38	Al
ATOM	42198	C4' GUA	1070	190.273	142.928	-26.427	1.00	72.06	Al6s	ATOM	42251	N3 URI	1072	197.310	144.434	-18.499	1.00	69.38	Al
ATOM	42199	O4' GUA	1070	189.327	143.530	-25.506	1.00	72.06	Al6s	ATOM	42252	C4 URI	1072	197.003	143.535	-19.545	1.00	69.38	Al
ATOM	42200	C1' GUA	1070	189.923	144.644	-24.863	1.00	72.06	Al6s	ATOM	42253	C5 URI	1072	196.643	142.440	-19.308	1.00	69.38	Al
ATOM	42201	N9 GUA	1070	190.107	144.324	-23.450	1.00	44.76	Al6s	ATOM	42254	C5 URI	1072	197.168	144.178	-20.843	1.00	69.38	Al
ATOM	42202	C4 GUA	1070	190.432	145.225	-22.483	1.00	44.76	Al6s	ATOM	42255	C2' URI	1072	199.962	147.553	-19.737	1.00	72.64	Al
ATOM	42203	N3 GUA	1070	190.599	146.545	-22.676	1.00	44.76	Al6s	ATOM	42256	O2' URI	1072	200.343	148.737	-19.071	1.00	72.64	Al
ATOM	42204	C2 GUA	1070	190.953	147.159	-21.574	1.00	44.76	Al6s	ATOM	42257	C3' URI	1072	200.519	147.464	-21.150	1.00	72.64	Al
ATOM	42205	N2 GUA	1070	191.186	148.475	-21.617	1.00	44.76	Al6s	ATOM	42258	O3' URI	1072	201.851	147.946	-21.210	1.00	72.64	Al
ATOM	42206	N1 GUA	1070	191.113	146.524	-20.360	1.00	44.76	Al6s	ATOM	42259	P URI	1073	203.072	146.927	-20.966	1.00	58.31	Al

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ATOM	42260	O1P	URI	1073	204.314	147.659	-21.345	1.00	75.11	Al6S	ATOM	42313	N1	ADE	1075	202.115	147.073	-8.741	1.00	43.85	A
ATOM	42261	O2P	URI	1073	202.745	145.631	-21.615	1.00	75.11	Al6S	ATOM	42314	C6	ADE	1075	202.229	146.969	-10.080	1.00	43.85	A
ATOM	42262	O5' URI	1073	203.087	146.663	-19.397	1.00	58.31	Al6S	ATOM	42315	N6	ADE	1075	202.435	148.076	-10.792	1.00	43.85	A	
ATOM	42263	C5' URI	1073	203.165	147.754	-18.484	1.00	58.31	Al6S	ATOM	42316	C5	ADE	1075	202.115	145.692	-10.649	1.00	43.85	A	
ATOM	42264	C4' URI	1073	202.915	147.286	-17.075	1.00	58.31	Al6S	ATOM	42317	N7	ADE	1075	202.195	145.246	-11.959	1.00	43.85	A	
ATOM	42265	O4' URI	1073	201.557	146.798	-16.924	1.00	58.31	Al6S	ATOM	42318	C8	ADE	1075	201.979	143.957	-11.867	1.00	43.85	A	
ATOM	42266	C1' URI	1073	201.513	145.876	-15.848	1.00	58.31	Al6S	ATOM	42319	C2' ADE	1075	199.984	141.719	-10.536	1.00	65.87	A		
ATOM	42267	N1 URI	1073	200.887	144.609	-16.270	1.00	75.11	Al6S	ATOM	42320	O2' ADE	1075	199.481	140.918	-9.481	1.00	65.87	A		
ATOM	42268	C6 URI	1073	200.619	144.303	-17.585	1.00	75.11	Al6S	ATOM	42321	C3' ADE	1075	200.208	140.915	-11.816	1.00	65.87	A		
ATOM	42269	C2 URI	1073	200.581	143.706	-15.263	1.00	75.11	Al6S	ATOM	42322	O3' ADE	1075	199.233	139.874	-11.984	1.00	65.87	A		
ATOM	42270	O2 URI	1073	200.778	143.939	-14.097	1.00	75.11	Al6S	ATOM	42323	P GUA	1076	198.089	139.988	-13.120	1.00	55.86	A		
ATOM	42271	N3 URI	1073	200.031	142.524	-15.674	1.00	75.11	Al6S	ATOM	42324	O1P GUA	1076	198.238	141.256	-13.871	1.00	54.41	A		
ATOM	42272	C4 URI	1073	199.743	142.151	-16.957	1.00	75.11	Al6S	ATOM	42325	O2P GUA	1076	198.097	138.707	-13.864	1.00	54.41	A		
ATOM	42273	O4 URI	1073	199.231	141.044	-17.157	1.00	75.11	Al6S	ATOM	42326	O5' GUA	1076	196.730	140.014	-12.273	1.00	55.86	A		
ATOM	42274	C5 URI	1073	200.070	143.136	-17.955	1.00	75.11	Al6S	ATOM	42327	C5' GUA	1076	195.654	140.941	-12.582	1.00	55.86	A		
ATOM	42275	C2' URI	1073	202.946	145.667	-15.361	1.00	58.31	Al6S	ATOM	42328	C4' GUA	1076	194.906	141.355	-11.318	1.00	55.86	A		
ATOM	42276	O2' URI	1073	203.158	146.465	-14.210	1.00	58.31	Al6S	ATOM	42329	O4' GUA	1076	193.659	140.622	-11.127	1.00	55.86	A		
ATOM	42277	C3' URI	1073	203.756	146.135	-16.563	1.00	58.31	Al6S	ATOM	42330	C1' GUA	1076	192.645	140.941	-12.582	1.00	55.86	A		
ATOM	42278	O3' URI	1073	205.059	146.538	-16.177	1.00	58.31	Al6S	ATOM	42331	N9 GUA	1076	191.348	139.226	-9.060	1.00	54.41	A		
ATOM	42279	P ADE	1074	206.301	145.547	-16.423	1.00	54.46	Al6S	ATOM	42332	C4 GUA	1076	190.609	140.317	-8.783	1.00	54.41	A		
ATOM	42280	O1P ADE	1074	206.305	145.256	-17.883	1.00	64.77	Al6S	ATOM	42333	N3 GUA	1076	189.427	139.995	-7.954	1.00	54.41	A		
ATOM	42281	O2P ADE	1074	207.516	146.122	-15.768	1.00	64.77	Al6S	ATOM	42334	C2 GUA	1076	188.557	140.951	-7.945	1.00	54.41	A		
ATOM	42282	O5' ADE	1074	205.920	144.221	-15.633	1.00	54.46	Al6S	ATOM	42335	N2 GUA	1076	189.007	138.712	-8.066	1.00	54.41	A		
ATOM	42283	C5' ADE	1074	206.765	143.067	-15.696	1.00	54.46	Al6S	ATOM	42336	N1 GUA	1076	189.273	136.458	-8.097	1.00	54.41	A		
ATOM	42284	C4' ADE	1074	206.690	142.303	-14.399	1.00	54.46	Al6S	ATOM	42337	C6 GUA	1076	189.744	137.574	-8.345	1.00	54.41	A		
ATOM	42285	O4' ADE	1074	207.343	143.059	-13.350	1.00	54.46	Al6S	ATOM	42338	O6 GUA	1076	191.010	137.899	-8.895	1.00	54.41	A		
ATOM	42286	C1' ADE	1074	206.584	142.974	-12.158	1.00	54.46	Al6S	ATOM	42339	C5 GUA	1076	191.273	136.458	-8.097	1.00	54.41	A		
ATOM	42287	N9 ADE	1074	206.148	144.335	-11.839	1.00	64.77	Al6S	ATOM	42340	N7 GUA	1076	192.045	137.072	-9.313	1.00	54.41	A		
ATOM	42288	C4 ADE	1074	205.904	144.866	-10.596	1.00	64.77	Al6S	ATOM	42341	C8 GUA	1076	192.986	137.896	-9.694	1.00	54.41	A		
ATOM	42289	N3 ADE	1074	205.918	144.224	-9.418	1.00	64.77	Al6S	ATOM	42342	C2' GUA	1076	194.931	140.165	-9.251	1.00	55.86	A		
ATOM	42290	C2 ADE	1074	205.705	145.077	-8.420	1.00	64.77	Al6S	ATOM	42343	O2' GUA	1076	194.970	140.299	-7.853	1.00	55.86	A		
ATOM	42291	N1 ADE	1074	205.508	146.397	-8.463	1.00	64.77	Al6S	ATOM	42344	C3' GUA	1076	195.657	141.283	-9.988	1.00	55.86	A		
ATOM	42292	C6 ADE	1074	205.503	147.011	-9.666	1.00	64.77	Al6S	ATOM	42345	O3' GUA	1076	195.452	142.474	-9.247	1.00	55.86	A		
ATOM	42293	N6 ADE	1074	205.333	148.339	-9.714	1.00	64.77	Al6S	ATOM	42346	P URI	1077	196.581	142.981	-8.230	1.00	58.10	A		
ATOM	42294	C5 ADE	1074	205.691	146.216	-10.802	1.00	64.77	Al6S	ATOM	42347	O1P URI	1077	197.445	141.824	-7.899	1.00	56.74	A		
ATOM	42295	N7 ADE	1074	205.719	146.520	-12.153	1.00	64.77	Al6S	ATOM	42348	O2P URI	1077	195.913	143.721	-7.137	1.00	56.74	A		
ATOM	42296	C8 ADE	1074	205.976	145.371	-12.725	1.00	64.77	Al6S	ATOM	42349	O5' URI	1077	197.413	144.024	-9.102	1.00	58.10	A		
ATOM	42297	C2' ADE	1074	205.458	141.966	-12.396	1.00	54.46	Al6S	ATOM	42350	C5' URI	1077	198.345	144.922	-8.478	1.00	58.10	A		
ATOM	42298	O2' ADE	1074	205.885	140.670	-12.030	1.00	54.46	Al6S	ATOM	42351	C4' URI	1077	198.345	144.922	-8.478	1.00	58.10	A		
ATOM	42299	C3' ADE	1074	205.277	142.077	-13.899	1.00	54.46	Al6S	ATOM	42352	O4' URI	1077	199.255	145.790	-10.556	1.00	58.10	A		
ATOM	42300	O3' ADE	1074	204.711	140.920	-14.468	1.00	54.46	Al6S	ATOM	42353	C1' URI	1077	198.867	146.669	-11.600	1.00	58.10	A		
ATOM	42301	P ADE	1075	203.228	140.994	-15.053	1.00	65.87	Al6S	ATOM	42354	N1 URI	1077	198.317	145.876	-12.711	1.00	56.74	A		
ATOM	42302	O1P ADE	1075	202.937	139.705	-15.717	1.00	43.85	Al6S	ATOM	42355	C6 URI	1077	197.915	144.574	-12.525	1.00	56.74	A		
ATOM	42303	O2P ADE	1075	203.092	142.259	-15.814	1.00	43.85	Al6S	ATOM	42356	C2 URI	1077	198.215	146.483	-13.961	1.00	56.74	A		
ATOM	42304	O5' ADE	1075	202.345	141.051	-13.737	1.00	65.87	Al6S	ATOM	42357	O2 URI	1077	198.544	147.642	-14.178	1.00	56.74	A		
ATOM	42305	C5' ADE	1075	202.370	139.954	-12.805	1.00	65.87	Al6S	ATOM	42358	N3 URI	1077	197.705	145.683	-14.946	1.00	56.74	A		
ATOM	42306	C4' ADE	1075	202.581	140.300	-11.571	1.00	65.87	Al6S	ATOM	42359	C4 URI	1077	197.287	144.380	-14.821	1.00	56.74	A		
ATOM	42307	O4' ADE	1075	202.316	141.271	-10.791	1.00	65.87	Al6S	ATOM	42360	O4 URI	1077	196.829	143.803	-15.739	1.00	56.74	A		
ATOM	42308	C1' ADE	1075	201.411	142.159	-10.172	1.00	65.87	Al6S	ATOM	42361	C5 URI	1077	197.415	143.830	-13.509	1.00	56.74	A		
ATOM	42309	N9 ADE	1075	201.747	143.521	-10.591	1.00	43.85	Al6S	ATOM	42362	C2' URI	1077	197.851	147.656	-11.029	1.00	58.10	A		
ATOM	42310	C4 ADE	1075	201.865	144.637	-9.789	1.00	43.85	Al6S	ATOM	42363	O2' URI	1077	198.519	148.857	-10.703	1.00	58.10	A		
ATOM	42311	N3 ADE	1075	201.741	144.708	-8.451	1.00	43.85	Al6S	ATOM	42364	C3' URI	1077	197.331	146.897	-9.812	1.00	58.10	A		
ATOM	42312	C2 ADE	1075	201.887	145.963	-8.032	1.00	43.85	Al6S	ATOM	42365	O3' URI	1077	196.820	147.778	-8.828	1.00	58.10	A		

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ATOM	42366	P	CYT	1078	195.267	148.193	-8.866	1.00	59.50	Al6s	ATOM	42419	C4	CYT	1080	188.566	148.142	-17.935	1.00	62.90	A
ATOM	42367	O1P	CYT	1078	195.071	149.076	-7.689	1.00	62.22	Al6s	ATOM	42420	N4	CYT	1080	188.609	147.177	-17.020	1.00	62.90	A
ATOM	42368	O2P	CYT	1078	194.443	146.962	-8.997	1.00	62.22	Al6s	ATOM	42421	C5	CYT	1080	188.907	149.477	-17.577	1.00	62.90	A
ATOM	42369	O5	CYT	1078	195.122	149.083	-10.183	1.00	59.50	Al6s	ATOM	42422	C2	CYT	1080	186.808	151.379	-21.087	1.00	65.72	A
ATOM	42370	C5	CYT	1078	195.605	150.431	-10.188	1.00	59.50	Al6s	ATOM	42423	O2	CYT	1080	186.602	151.744	-22.433	1.00	65.72	A
ATOM	42371	C4	CYT	1078	195.710	150.958	-11.590	1.00	59.50	Al6s	ATOM	42424	C3	CYT	1080	186.541	152.528	-20.136	1.00	65.72	A
ATOM	42372	O4	CYT	1078	196.505	150.035	-12.377	1.00	59.50	Al6s	ATOM	42425	O3	CYT	1080	185.385	153.322	-20.527	1.00	65.72	A
ATOM	42373	C1	CYT	1078	196.065	150.062	-13.725	1.00	59.50	Al6s	ATOM	42426	P	GUA	1081	183.987	152.834	-19.844	1.00	69.76	A
ATOM	42374	N1	CYT	1078	195.610	148.714	-14.127	1.00	62.22	Al6s	ATOM	42427	O1P	GUA	1081	182.955	153.751	-20.414	1.00	49.51	A
ATOM	42375	C6	CYT	1078	195.294	147.760	-13.203	1.00	62.22	Al6s	ATOM	42428	O2P	GUA	1081	184.213	152.784	-18.365	1.00	49.51	A
ATOM	42376	C2	CYT	1078	195.483	148.440	-15.487	1.00	62.22	Al6s	ATOM	42429	O5	GUA	1081	183.695	151.350	-20.355	1.00	69.76	A
ATOM	42377	O2	CYT	1078	195.814	149.306	-16.301	1.00	62.22	Al6s	ATOM	42430	C5	GUA	1081	183.477	151.080	-21.747	1.00	69.76	A
ATOM	42378	N3	CYT	1078	195.006	147.243	-15.881	1.00	62.22	Al6s	ATOM	42431	C4	GUA	1081	183.305	149.597	-21.977	1.00	69.76	A
ATOM	42379	C4	CYT	1078	194.676	146.329	-14.974	1.00	62.22	Al6s	ATOM	42432	O4	GUA	1081	184.474	148.885	-21.499	1.00	69.76	A
ATOM	42380	N4	CYT	1078	194.190	145.167	-15.408	1.00	62.22	Al6s	ATOM	42433	C1	GUA	1081	184.105	147.582	-21.087	1.00	69.76	A
ATOM	42381	C5	CYT	1078	194.827	146.566	-13.579	1.00	62.22	Al6s	ATOM	42434	N9	GUA	1081	184.484	147.378	-19.693	1.00	49.51	A
ATOM	42382	C2	CYT	1078	194.923	151.077	-13.821	1.00	59.50	Al6s	ATOM	42435	C4	GUA	1081	184.446	146.170	-19.038	1.00	49.51	A
ATOM	42383	O2	CYT	1078	195.412	152.326	-14.275	1.00	59.50	Al6s	ATOM	42436	N3	GUA	1081	184.079	144.990	-19.585	1.00	49.51	A
ATOM	42384	C3	CYT	1078	194.420	151.111	-12.382	1.00	59.50	Al6s	ATOM	42437	C2	GUA	1081	183.805	142.751	-19.097	1.00	49.51	A
ATOM	42385	O3	CYT	1078	192.714	152.323	-12.104	1.00	59.50	Al6s	ATOM	42438	N2	GUA	1081	184.502	144.151	-17.398	1.00	49.51	A
ATOM	42386	P	CYT	1079	192.143	152.437	-12.467	1.00	76.12	Al6s	ATOM	42439	N1	GUA	1081	184.878	145.348	-16.802	1.00	49.51	A
ATOM	42387	O1P	CYT	1079	191.654	153.749	-11.965	1.00	57.95	Al6s	ATOM	42440	C6	GUA	1081	185.181	145.361	-15.592	1.00	49.51	A
ATOM	42388	O2P	CYT	1079	191.469	151.184	-12.036	1.00	57.95	Al6s	ATOM	42441	O6	GUA	1081	184.841	146.436	-17.744	1.00	49.51	A
ATOM	42389	O5	CYT	1079	192.107	152.526	-14.055	1.00	76.12	Al6s	ATOM	42442	C5	GUA	1081	185.139	147.788	-17.591	1.00	49.51	A
ATOM	42390	C5	CYT	1079	192.714	153.636	-14.725	1.00	76.12	Al6s	ATOM	42443	N7	GUA	1081	184.917	148.306	-18.772	1.00	49.51	A
ATOM	42391	C4	CYT	1079	192.611	153.471	-16.216	1.00	76.12	Al6s	ATOM	42444	C8	GUA	1081	182.600	147.454	-21.262	1.00	69.76	A
ATOM	42392	O4	CYT	1079	193.390	152.323	-16.641	1.00	76.12	Al6s	ATOM	42445	O2	GUA	1081	182.339	146.816	-22.489	1.00	69.76	A
ATOM	42393	C1	CYT	1079	192.748	151.701	-17.739	1.00	76.12	Al6s	ATOM	42446	C3	GUA	1081	182.167	148.911	-21.249	1.00	69.76	A
ATOM	42394	N1	CYT	1079	192.448	150.300	-17.389	1.00	57.95	Al6s	ATOM	42447	O3	GUA	1081	180.907	149.103	-21.871	1.00	69.76	A
ATOM	42395	C6	CYT	1079	192.499	149.860	-16.095	1.00	57.95	Al6s	ATOM	42448	P	CYT	1082	179.609	149.350	-20.950	1.00	56.06	A
ATOM	42396	C2	CYT	1079	192.091	149.420	-18.418	1.00	57.95	Al6s	ATOM	42449	O1P	CYT	1082	178.491	147.766	-21.853	1.00	44.06	A
ATOM	42397	O2	CYT	1079	192.083	149.840	-19.586	1.00	57.95	Al6s	ATOM	42450	N2	CYT	1082	180.025	150.246	-19.821	1.00	44.06	A
ATOM	42398	N3	CYT	1079	191.773	148.140	-18.116	1.00	57.95	Al6s	ATOM	42451	O2P	CYT	1082	179.272	147.910	-20.346	1.00	56.06	A
ATOM	42399	C4	CYT	1079	191.820	147.725	-16.851	1.00	57.95	Al6s	ATOM	42452	O5	CYT	1082	178.870	146.822	-21.196	1.00	56.06	A
ATOM	42400	N4	CYT	1079	191.500	146.457	-16.600	1.00	57.95	Al6s	ATOM	42453	C5	CYT	1082	178.926	145.520	-20.433	1.00	56.06	A
ATOM	42401	C5	CYT	1079	192.138	148.595	-15.784	1.00	57.95	Al6s	ATOM	42454	O4	CYT	1082	180.266	145.329	-19.933	1.00	56.06	A
ATOM	42402	C2	CYT	1079	191.477	152.494	-18.061	1.00	76.12	Al6s	ATOM	42455	C4	CYT	1082	180.223	144.707	-18.668	1.00	56.06	A
ATOM	42403	O2	CYT	1079	191.689	153.385	-19.139	1.00	76.12	Al6s	ATOM	42456	C1	CYT	1082	180.884	145.588	-17.703	1.00	44.06	A
ATOM	42404	C3	CYT	1079	191.213	153.207	-16.742	1.00	76.12	Al6s	ATOM	42457	N1	CYT	1082	181.030	146.920	-17.956	1.00	44.06	A
ATOM	42405	O3	CYT	1079	190.478	154.408	-16.921	1.00	76.12	Al6s	ATOM	42458	C6	CYT	1082	181.372	145.037	-16.512	1.00	44.06	A
ATOM	42406	P	CYT	1080	188.897	154.420	-16.632	1.00	65.72	Al6s	ATOM	42459	C2	CYT	1082	181.216	143.824	-16.298	1.00	44.06	A
ATOM	42407	O1P	CYT	1080	188.463	155.841	-16.723	1.00	62.90	Al6s	ATOM	42460	O2	CYT	1082	181.999	145.833	-15.622	1.00	44.06	A
ATOM	42408	O2P	CYT	1080	188.657	153.648	-15.370	1.00	62.90	Al6s	ATOM	42461	N3	CYT	1082	182.141	147.130	-15.882	1.00	44.06	A
ATOM	42409	O5	CYT	1080	188.251	153.656	-17.878	1.00	65.72	Al6s	ATOM	42462	C4	CYT	1082	182.775	147.879	-17.084	1.00	44.06	A
ATOM	42410	C5	CYT	1080	188.128	154.324	-19.146	1.00	65.72	Al6s	ATOM	42463	N4	CYT	1082	178.766	144.430	-18.322	1.00	56.06	A
ATOM	42411	C4	CYT	1080	188.846	152.341	-20.360	1.00	65.72	Al6s	ATOM	42464	C5	CYT	1082	178.469	145.089	-18.644	1.00	56.06	A
ATOM	42412	O4	CYT	1080	188.287	151.126	-20.835	1.00	65.72	Al6s	ATOM	42465	C2	CYT	1082	176.744	145.011	-19.550	1.00	56.06	A
ATOM	42413	C1	CYT	1080	188.426	150.095	-19.798	1.00	62.90	Al6s	ATOM	42466	O3	CYT	1082	175.464	145.725	-18.901	1.00	70.26	A
ATOM	42414	N1	CYT	1080	188.827	150.411	-18.530	1.00	62.90	Al6s	ATOM	42467	C3	CYT	1083	174.299	145.338	-19.758	1.00	45.42	A
ATOM	42415	C6	CYT	1080	188.113	148.774	-20.130	1.00	62.90	Al6s	ATOM	42468	O3	CYT	1083	175.786	147.165	-18.705	1.00	45.42	A
ATOM	42416	C2	CYT	1080	187.765	148.514	-21.296	1.00	62.90	Al6s	ATOM	42469	P	ADE	1083						
ATOM	42417	O2	CYT	1080	188.193	147.817	-19.176	1.00	62.90	Al6s	ATOM	42470	O1P	ADE	1083						
ATOM	42418	N3	CYT	1080						Al6s	ATOM	42471	O2P	ADE	1083						

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ATOM	42472	O5' ADE	1083	175.333	145.030	-17.473	1.00	70.26	Al6s	ATOM	42525	N3	CYT	1085	179.736	144.261	-5.735	1.00	52.67	Al
ATOM	42473	C5' ADE	1083	175.201	143.606	-17.371	1.00	70.26	Al6s	ATOM	42526	C4	CYT	1085	180.107	143.692	-6.878	1.00	52.67	Al
ATOM	42474	C4' ADE	1083	175.500	143.148	-15.968	1.00	70.26	Al6s	ATOM	42527	N4	CYT	1085	180.658	142.486	-6.821	1.00	52.67	Al
ATOM	42475	O4' ADE	1083	174.554	143.720	-15.054	1.00	70.26	Al6s	ATOM	42528	C5	CYT	1085	179.925	144.336	-8.135	1.00	52.67	Al
ATOM	42476	C1' ADE	1083	174.363	142.838	-13.969	1.00	70.26	Al6s	ATOM	42529	C2' CYT	1085	179.295	148.569	-6.596	1.00	56.46	Al	
ATOM	42477	N9 ADE	1083	172.971	142.961	-13.529	1.00	45.42	Al6s	ATOM	42530	O2' CYT	1085	178.631	149.508	-5.777	1.00	56.46	Al	
ATOM	42478	C4 ADE	1083	172.549	143.102	-12.229	1.00	45.42	Al6s	ATOM	42531	C3' CYT	1085	179.715	149.079	-7.972	1.00	56.46	Al	
ATOM	42479	N3 ADE	1083	173.307	143.095	-11.117	1.00	45.42	Al6s	ATOM	42532	O3' CYT	1085	180.206	150.405	-7.984	1.00	56.46	Al	
ATOM	42480	C2 ADE	1083	172.561	143.316	-10.039	1.00	45.42	Al6s	ATOM	42533	P	GUA	1086	181.732	150.667	-7.577	1.00	51.91	Al
ATOM	42481	N1 ADE	1083	171.244	143.519	-9.950	1.00	45.42	Al6s	ATOM	42534	O1P GUA	1086	182.006	152.141	-7.601	1.00	46.21	Al	
ATOM	42482	C6 ADE	1083	170.510	143.501	-11.081	1.00	45.42	Al6s	ATOM	42535	O2P GUA	1086	182.556	149.749	-8.412	1.00	46.21	Al	
ATOM	42483	N6 ADE	1083	169.189	143.680	-10.987	1.00	45.42	Al6s	ATOM	42536	O5' GUA	1086	181.771	150.186	-6.060	1.00	51.91	Al	
ATOM	42484	C5 ADE	1083	171.186	143.286	-12.297	1.00	45.42	Al6s	ATOM	42537	C5' GUA	1086	182.998	149.875	-5.414	1.00	51.91	Al	
ATOM	42485	N7 ADE	1083	170.749	143.226	-13.612	1.00	45.42	Al6s	ATOM	42538	C4' GUA	1086	182.715	149.320	-4.052	1.00	51.91	Al	
ATOM	42486	C8 ADE	1083	171.838	143.019	-14.239	1.00	45.42	Al6s	ATOM	42539	O4' GUA	1086	181.764	148.237	-4.180	1.00	51.91	Al	
ATOM	42487	C2' ADE	1083	174.867	141.440	-14.352	1.00	70.26	Al6s	ATOM	42540	C1' GUA	1086	182.064	147.223	-3.236	1.00	51.91	Al	
ATOM	42488	O2' ADE	1083	175.786	140.908	-13.421	1.00	70.26	Al6s	ATOM	42541	N9 GUA	1086	182.380	145.992	-3.959	1.00	46.21	Al	
ATOM	42489	C3' ADE	1083	175.410	141.645	-15.767	1.00	70.26	Al6s	ATOM	42542	C4 GUA	1086	182.527	144.740	-3.407	1.00	46.21	Al	
ATOM	42490	O3' ADE	1083	176.677	141.018	-16.066	1.00	70.26	Al6s	ATOM	42543	N3 GUA	1086	182.390	144.429	-2.104	1.00	46.21	Al	
ATOM	42491	P	ADE	178.069	141.535	-15.390	1.00	51.18	Al6s	ATOM	42544	C2 GUA	1086	182.606	143.148	-1.882	1.00	46.21	Al	
ATOM	42492	O1P ADE	1084	179.051	141.348	-16.479	1.00	50.90	Al6s	ATOM	42545	N2 GUA	1086	182.520	142.667	-0.645	1.00	46.21	Al	
ATOM	42493	O2P ADE	1084	178.353	140.959	-14.044	1.00	50.90	Al6s	ATOM	42546	C2 GUA	1086	182.924	142.245	-2.857	1.00	46.21	Al	
ATOM	42494	O5' ADE	1084	177.922	143.106	-15.217	1.00	51.18	Al6s	ATOM	42547	O6 GUA	1086	183.076	142.545	-4.201	1.00	46.21	Al	
ATOM	42495	C5' ADE	1084	178.794	143.835	-14.340	1.00	51.18	Al6s	ATOM	42548	O6 GUA	1086	183.380	141.659	-4.991	1.00	46.21	Al	
ATOM	42496	C4' ADE	1084	177.974	144.610	-13.347	1.00	51.18	Al6s	ATOM	42549	C5 GUA	1086	182.849	143.912	-4.459	1.00	46.21	Al	
ATOM	42497	O4' ADE	1084	177.101	143.686	-12.666	1.00	51.18	Al6s	ATOM	42550	N7 GUA	1086	182.899	144.622	-5.650	1.00	46.21	Al	
ATOM	42498	C1' ADE	1084	176.979	144.057	-11.313	1.00	51.18	Al6s	ATOM	42551	C8 GUA	1086	182.609	145.848	-5.309	1.00	46.21	Al	
ATOM	42499	N9 ADE	1084	177.489	142.957	-10.500	1.00	50.90	Al6s	ATOM	42552	C2' GUA	1086	183.253	147.704	-2.405	1.00	51.91	Al	
ATOM	42500	C4 ADE	1084	177.258	142.745	-9.162	1.00	50.90	Al6s	ATOM	42553	O2' GUA	1086	182.801	148.323	-1.223	1.00	51.91	Al	
ATOM	42501	N3 ADE	1084	176.536	143.511	-8.326	1.00	50.90	Al6s	ATOM	42554	C3' GUA	1086	183.903	148.694	-3.355	1.00	51.91	Al	
ATOM	42502	C2 ADE	1084	177.535	142.988	-7.096	1.00	50.90	Al6s	ATOM	42555	O3' GUA	1086	184.700	149.642	-2.679	1.00	51.91	Al	
ATOM	42503	N1 ADE	1084	177.124	141.872	-6.650	1.00	50.90	Al6s	ATOM	42556	P	ADE	1087	186.236	149.291	-2.358	1.00	57.93	Al
ATOM	42504	C6 ADE	1084	177.835	141.130	-7.521	1.00	50.90	Al6s	ATOM	42557	O1P ADE	1087	186.800	150.460	-1.624	1.00	57.93	Al	
ATOM	42505	N6 ADE	1084	178.412	140.017	-7.081	1.00	50.90	Al6s	ATOM	42558	O2P ADE	1087	186.878	148.842	-3.632	1.00	57.93	Al	
ATOM	42506	C5 ADE	1084	177.920	141.577	-8.847	1.00	50.90	Al6s	ATOM	42559	O5' ADE	1087	186.151	148.067	-1.335	1.00	57.93	Al	
ATOM	42507	N7 ADE	1084	178.559	141.064	-9.960	1.00	50.90	Al6s	ATOM	42560	C5' ADE	1087	185.556	148.250	-0.050	1.00	57.93	Al	
ATOM	42508	C8 ADE	1084	178.277	141.920	-10.910	1.00	50.90	Al6s	ATOM	42561	C4' ADE	1087	185.420	146.939	0.663	1.00	57.93	Al	
ATOM	42509	C2' ADE	1084	177.716	145.384	-11.121	1.00	51.18	Al6s	ATOM	42562	O4' ADE	1087	184.599	146.038	-0.116	1.00	57.93	Al	
ATOM	42510	O2' ADE	1084	176.764	146.424	-11.299	1.00	51.18	Al6s	ATOM	42563	C1' ADE	1087	185.025	144.638	-0.099	1.00	57.93	Al	
ATOM	42511	C3' ADE	1084	178.742	145.333	-12.250	1.00	51.18	Al6s	ATOM	42564	N9 ADE	1087	185.485	144.136	-1.174	1.00	57.93	Al	
ATOM	42512	O3' ADE	1084	179.112	146.638	-12.707	1.00	51.18	Al6s	ATOM	42565	C4 ADE	1087	185.847	142.823	-1.404	1.00	57.93	Al	
ATOM	42513	P	CYT	1085	180.278	147.465	-11.958	1.00	56.46	Al6s	ATOM	42566	N3 ADE	1087	185.835	141.797	-0.529	1.00	57.93	Al
ATOM	42514	O1P CYT	1085	180.348	148.734	-12.729	1.00	52.67	Al6s	ATOM	42567	C2 ADE	1087	186.247	140.676	-1.116	1.00	57.93	Al	
ATOM	42515	O2P CYT	1085	181.503	146.647	-11.784	1.00	52.67	Al6s	ATOM	42568	N1 ADE	1087	186.645	140.481	-2.376	1.00	57.93	Al	
ATOM	42516	O5' CYT	1085	179.698	147.738	-10.498	1.00	56.46	Al6s	ATOM	42569	C6 ADE	1087	186.648	141.533	-3.224	1.00	57.93	Al	
ATOM	42517	C5' CYT	1085	178.711	148.762	-10.273	1.00	56.46	Al6s	ATOM	42570	N6 ADE	1087	187.045	141.350	-4.479	1.00	57.93	Al	
ATOM	42518	C4' CYT	1085	178.458	148.924	-8.799	1.00	56.46	Al6s	ATOM	42571	C5 ADE	1087	186.231	142.768	-2.733	1.00	57.93	Al	
ATOM	42519	O4' CYT	1085	178.835	147.725	-8.976	1.00	56.46	Al6s	ATOM	42572	N7 ADE	1087	186.113	144.015	-3.333	1.00	57.93	Al	
ATOM	42520	C1' CYT	1085	178.319	147.459	-6.971	1.00	56.46	Al6s	ATOM	42573	C8 ADE	1087	185.667	144.789	-2.371	1.00	57.93	Al	
ATOM	42521	N1 CYT	1085	178.958	146.134	-6.970	1.00	52.67	Al6s	ATOM	42574	C2' ADE	1087	186.181	144.746	-1.094	1.00	57.93	Al	
ATOM	42522	C6 CYT	1085	179.350	145.543	-8.136	1.00	52.67	Al6s	ATOM	42575	O2' ADE	1087	185.705	144.507	-2.403	1.00	57.93	Al	
ATOM	42523	C2 CYT	1085	179.161	145.484	-5.747	1.00	52.67	Al6s	ATOM	42576	C3' ADE	1087	186.697	146.159	-0.883	1.00	57.93	Al	
ATOM	42524	O2 CYT	1085	178.809	146.048	-4.700	1.00	52.67	Al6s	ATOM	42577	O3' ADE	1087	187.435	146.609	-1.991	1.00	57.93	Al	

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ATOM	42578	P	GUA	1088	189.004	146.294	2.065	1.00	54.71	Al6S	ATOM	42631	N3	GUA	1090	197.160	139.587	-3.889	1.00	51.93	A.
ATOM	42579	O1P	GUA	1088	189.567	147.124	3.147	1.00	52.97	Al6S	ATOM	42632	C2	GUA	1090	196.940	140.295	-4.981	1.00	51.93	A.
ATOM	42580	O2P	GUA	1088	189.570	146.387	0.697	1.00	52.97	Al6S	ATOM	42633	N2	GUA	1090	197.344	139.832	-6.162	1.00	51.93	A.
ATOM	42581	O5	GUA	1088	189.069	144.796	2.580	1.00	54.71	Al6S	ATOM	42634	N1	GUA	1090	196.302	141.509	-4.995	1.00	51.93	A.
ATOM	42582	C5	GUA	1088	188.614	144.485	3.893	1.00	54.71	Al6S	ATOM	42635	C6	GUA	1090	195.795	142.158	-3.872	1.00	51.93	A.
ATOM	42583	C4	GUA	1088	188.787	143.026	4.158	1.00	54.71	Al6S	ATOM	42636	O6	GUA	1090	195.221	143.246	-3.997	1.00	51.93	A.
ATOM	42584	O4	GUA	1088	187.958	142.273	3.238	1.00	54.71	Al6S	ATOM	42637	C5	GUA	1090	196.030	141.407	-2.683	1.00	51.93	A.
ATOM	42585	C1	GUA	1088	188.637	141.092	2.846	1.00	54.71	Al6S	ATOM	42638	N7	GUA	1090	195.708	141.684	-1.361	1.00	51.93	A.
ATOM	42586	N9	GUA	1088	188.885	141.142	1.407	1.00	52.97	Al6S	ATOM	42639	C8	GUA	1090	196.162	140.652	-0.694	1.00	51.93	A.
ATOM	42587	C4	GUA	1088	189.279	140.076	0.636	1.00	52.97	Al6S	ATOM	42640	C2	GUA	1090	198.940	138.720	-1.323	1.00	65.18	A.
ATOM	42588	N3	GUA	1088	189.491	138.818	1.080	1.00	52.97	Al6S	ATOM	42641	O2	GUA	1090	199.531	137.489	-1.690	1.00	65.18	A.
ATOM	42589	C2	GUA	1088	189.866	138.010	0.111	1.00	52.97	Al6S	ATOM	42642	C3	GUA	1090	199.394	139.192	0.052	1.00	65.18	A.
ATOM	42590	N2	GUA	1088	190.122	136.732	0.389	1.00	52.97	Al6S	ATOM	42643	O3	GUA	1090	200.816	139.067	0.148	1.00	65.18	A.
ATOM	42591	N1	GUA	1088	190.019	138.396	-1.197	1.00	52.97	Al6S	ATOM	42644	P	CYT	1091	201.750	140.309	-0.306	1.00	49.14	A.
ATOM	42592	C6	GUA	1088	189.805	139.681	-1.686	1.00	52.97	Al6S	ATOM	42645	O1P	CYT	1091	203.145	139.802	-0.484	1.00	74.02	A.
ATOM	42593	O6	GUA	1088	189.964	139.915	-2.893	1.00	52.97	Al6S	ATOM	42646	O2P	CYT	1091	201.501	141.459	0.601	1.00	74.02	A.
ATOM	42594	C5	GUA	1088	189.407	140.574	-0.646	1.00	52.97	Al6S	ATOM	42647	O5	CYT	1091	201.168	140.757	-1.723	1.00	49.14	A.
ATOM	42595	N7	GUA	1088	189.101	141.934	-0.679	1.00	52.97	Al6S	ATOM	42648	C5	CYT	1091	201.608	140.131	-2.930	1.00	49.14	A.
ATOM	42596	C8	GUA	1088	188.796	142.226	0.559	1.00	52.97	Al6S	ATOM	42649	C4	CYT	1091	201.581	141.113	-4.070	1.00	49.14	A.
ATOM	42597	C2	GUA	1088	189.956	141.048	3.609	1.00	54.71	Al6S	ATOM	42650	O4	CYT	1091	200.220	141.507	-4.345	1.00	49.14	A.
ATOM	42598	O2	GUA	1088	189.798	140.293	4.793	1.00	54.71	Al6S	ATOM	42651	C1	CYT	1091	199.301	143.645	-3.993	1.00	74.02	A.
ATOM	42599	C3	GUA	1088	190.163	142.522	3.881	1.00	54.71	Al6S	ATOM	42652	N1	CYT	1091	198.918	143.217	-2.752	1.00	74.02	A.
ATOM	42600	O3	GUA	1088	191.064	142.752	4.946	1.00	54.71	Al6S	ATOM	42653	C6	CYT	1091	198.845	144.871	-4.487	1.00	74.02	A.
ATOM	42601	P	CYT	1089	192.615	142.955	4.625	1.00	62.00	Al6S	ATOM	42654	C2	CYT	1091	199.215	145.244	-5.611	1.00	74.02	A.
ATOM	42602	O1P	CYT	1089	193.318	143.357	5.873	1.00	43.66	Al6S	ATOM	42655	O2	CYT	1091	198.023	145.622	-3.728	1.00	74.02	A.
ATOM	42603	O2P	CYT	1089	192.658	143.851	3.427	1.00	43.66	Al6S	ATOM	42656	N3	CYT	1091	197.665	145.200	-2.516	1.00	74.02	A.
ATOM	42604	O5	CYT	1089	193.097	141.488	4.218	1.00	62.00	Al6S	ATOM	42657	C4	CYT	1091	196.869	145.988	-1.791	1.00	74.02	A.
ATOM	42605	C5	CYT	1089	193.102	140.417	5.186	1.00	62.00	Al6S	ATOM	42658	N4	CYT	1091	198.110	143.956	-1.987	1.00	74.02	A.
ATOM	42606	O4	CYT	1089	193.630	139.128	4.575	1.00	62.00	Al6S	ATOM	42659	C5	CYT	1091	201.634	143.359	-4.840	1.00	49.14	A.
ATOM	42607	C4	CYT	1089	192.700	138.608	3.585	1.00	62.00	Al6S	ATOM	42660	C2	CYT	1091	202.152	143.271	-6.150	1.00	49.14	A.
ATOM	42608	C1	CYT	1089	193.412	137.933	2.561	1.00	62.00	Al6S	ATOM	42661	O2	CYT	1091	202.315	142.421	-3.851	1.00	49.14	A.
ATOM	42609	N1	CYT	1089	193.238	138.690	1.313	1.00	43.66	Al6S	ATOM	42662	C3	CYT	1091	203.700	142.294	-4.125	1.00	49.14	A.
ATOM	42610	C6	CYT	1089	192.893	140.010	1.346	1.00	43.66	Al6S	ATOM	42663	O3	CYT	1091	204.754	143.194	-3.320	1.00	63.18	A.
ATOM	42611	C2	CYT	1089	193.443	138.045	0.084	1.00	43.66	Al6S	ATOM	42664	P	ADE	1092	206.076	142.981	-3.966	1.00	71.91	A.
ATOM	42612	O2	CYT	1089	193.734	136.828	0.077	1.00	43.66	Al6S	ATOM	42665	O1P	ADE	1092	204.593	142.903	-1.869	1.00	71.91	A.
ATOM	42613	N3	CYT	1089	193.312	138.761	-1.064	1.00	43.66	Al6S	ATOM	42666	O2P	ADE	1092	204.276	144.688	-3.607	1.00	63.18	A.
ATOM	42614	C4	CYT	1089	192.982	140.057	-1.010	1.00	43.66	Al6S	ATOM	42667	O5	ADE	1092	204.510	145.306	-4.890	1.00	63.18	A.
ATOM	42615	N4	CYT	1089	192.872	140.735	-2.152	1.00	43.66	Al6S	ATOM	42668	C5	ADE	1092	203.899	146.691	-4.930	1.00	63.18	A.
ATOM	42616	C5	CYT	1089	192.754	140.722	0.222	1.00	43.66	Al6S	ATOM	42669	C4	ADE	1092	202.457	146.572	-4.795	1.00	63.18	A.
ATOM	42617	C2	CYT	1089	194.879	137.924	2.970	1.00	62.00	Al6S	ATOM	42670	O4	ADE	1092	201.962	147.613	-3.970	1.00	63.18	A.
ATOM	42618	O2	CYT	1089	195.160	136.755	3.721	1.00	62.00	Al6S	ATOM	42671	C1	ADE	1092	201.516	147.002	-2.716	1.00	71.91	A.
ATOM	42619	C3	CYT	1089	194.952	139.177	3.828	1.00	62.00	Al6S	ATOM	42672	N9	ADE	1092	200.597	147.515	-1.835	1.00	71.91	A.
ATOM	42620	O3	CYT	1089	196.087	139.153	4.665	1.00	62.00	Al6S	ATOM	42673	C4	ADE	1092	199.944	148.685	-1.930	1.00	71.91	A.
ATOM	42621	P	GUA	1090	197.356	140.054	4.280	1.00	65.18	Al6S	ATOM	42674	N3	ADE	1092	199.882	148.014	0.125	1.00	71.91	A.
ATOM	42622	O1P	GUA	1090	198.435	139.508	5.137	1.00	51.93	Al6S	ATOM	42675	C2	ADE	1092	199.551	146.841	0.184	1.00	71.91	A.
ATOM	42623	O2P	GUA	1090	196.991	141.494	4.365	1.00	51.93	Al6S	ATOM	42676	N1	ADE	1092	199.294	146.002	1.190	1.00	71.91	A.
ATOM	42624	O5	GUA	1090	198.444	138.515	2.444	1.00	65.18	Al6S	ATOM	42677	C6	ADE	1092	200.470	146.569	-0.831	1.00	71.91	A.
ATOM	42625	C5	GUA	1090	198.570	138.273	0.946	1.00	65.18	Al6S	ATOM	42678	N6	ADE	1092	201.317	145.494	-2.104	1.00	71.91	A.
ATOM	42626	C4	GUA	1090	197.271	138.267	0.291	1.00	65.18	Al6S	ATOM	42679	C7	ADE	1092	203.916	145.798	-2.178	1.00	71.91	A.
ATOM	42627	O4	GUA	1090	197.451	138.495	-1.096	1.00	65.18	Al6S	ATOM	42680	N7	ADE	1092	203.115	148.587	-3.742	1.00	63.18	A.
ATOM	42628	C1	GUA	1090	196.777	139.724	-1.493	1.00	51.93	Al6S	ATOM	42681	C8	ADE	1092	203.110	149.556	-4.777	1.00	63.18	A.
ATOM	42629	N9	GUA	1090	196.683	140.198	-2.783	1.00	51.93	Al6S	ATOM	42682	C2	ADE	1092						
ATOM	42630	C4	GUA	1090						Al6S	ATOM	42683	O2	ADE	1092						

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ATOM	42684	C3' ADE	1092	204.308	147.644	-3.816	1.00	63.18	Al6S	ATOM	42737	C6	CYT	1095	209.271	150.294	5.556	1.00	71.57	Al
ATOM	42685	O3' ADE	1092	205.527	148.317	-4.074	1.00	63.18	Al6S	ATOM	42738	C2	CYT	1095	210.617	148.319	5.803	1.00	71.57	Al
ATOM	42686	P ADE	1093	206.548	148.590	-2.862	1.00	75.98	Al6S	ATOM	42739	O2	CYT	1095	211.215	147.528	6.545	1.00	71.57	Al
ATOM	42687	O1P ADE	1093	207.759	149.160	-3.495	1.00	62.71	Al6S	ATOM	42740	N3	CYT	1095	210.595	148.148	4.464	1.00	71.57	Al
ATOM	42688	O2P ADE	1093	206.664	147.385	-1.988	1.00	62.71	Al6S	ATOM	42741	C4	CYT	1095	209.939	149.016	3.689	1.00	71.57	Al
ATOM	42689	O5' ADE	1093	205.831	149.706	-1.980	1.00	75.98	Al6S	ATOM	42742	N4	CYT	1095	209.947	148.808	2.369	1.00	71.57	Al
ATOM	42690	C5' ADE	1093	205.458	150.987	-2.533	1.00	75.98	Al6S	ATOM	42743	C5	CYT	1095	209.243	150.134	4.229	1.00	71.57	Al
ATOM	42691	C4' ADE	1093	204.575	151.737	-1.558	1.00	75.98	Al6S	ATOM	42744	C2' CYT	1095	211.355	150.140	8.292	1.00	55.88	Al	
ATOM	42692	O4' ADE	1093	203.322	151.017	-1.405	1.00	75.98	Al6S	ATOM	42745	O2' CYT	1095	211.620	149.708	9.613	1.00	55.88	Al	
ATOM	42693	C1' ADE	1093	202.898	151.068	-0.054	1.00	75.98	Al6S	ATOM	42746	C3' CYT	1095	211.153	151.643	8.193	1.00	55.88	Al	
ATOM	42694	N9 ADE	1093	202.921	149.705	0.480	1.00	62.71	Al6S	ATOM	42747	O3' CYT	1095	212.096	152.375	8.949	1.00	55.88	Al	
ATOM	42695	C4 ADE	1093	202.166	149.212	1.517	1.00	62.71	Al6S	ATOM	42748	P CYT	1096	213.334	153.071	8.192	1.00	78.81	Al	
ATOM	42696	N3 ADE	1093	201.255	149.872	2.249	1.00	62.71	Al6S	ATOM	42749	O1P CYT	1096	213.900	154.105	9.099	1.00	70.41	Al	
ATOM	42697	C2 ADE	1093	200.723	149.074	3.170	1.00	62.71	Al6S	ATOM	42750	O2P CYT	1096	212.882	153.466	6.826	1.00	70.41	Al	
ATOM	42698	N1 ADE	1093	200.981	147.790	3.426	1.00	62.71	Al6S	ATOM	42751	O5' CYT	1096	214.394	151.891	8.051	1.00	78.81	Al	
ATOM	42699	C6 ADE	1093	201.907	147.155	2.676	1.00	62.71	Al6S	ATOM	42752	C5' CYT	1096	214.742	151.078	9.181	1.00	78.81	Al	
ATOM	42700	N6 ADE	1093	202.173	145.873	2.941	1.00	62.71	Al6S	ATOM	42753	C4' CYT	1096	215.645	149.951	8.750	1.00	78.81	Al	
ATOM	42701	C5 ADE	1093	202.539	147.890	1.660	1.00	62.71	Al6S	ATOM	42754	O4' CYT	1096	214.905	149.023	7.919	1.00	78.81	Al	
ATOM	42702	N7 ADE	1093	203.509	147.551	0.731	1.00	62.71	Al6S	ATOM	42755	C1' CYT	1096	215.743	148.523	6.889	1.00	78.81	Al	
ATOM	42703	C8 ADE	1093	203.700	148.658	0.059	1.00	62.71	Al6S	ATOM	42756	N1 CYT	1096	215.211	148.976	5.588	1.00	70.41	Al	
ATOM	42704	C2' ADE	1093	203.862	151.985	0.699	1.00	75.98	Al6S	ATOM	42757	C6 CYT	1096	214.501	150.140	5.483	1.00	70.41	Al	
ATOM	42705	O2' ADE	1093	203.341	153.300	0.727	1.00	75.98	Al6S	ATOM	42758	C2 CYT	1096	215.440	148.193	4.460	1.00	70.41	Al	
ATOM	42706	C3' ADE	1093	205.126	151.853	-0.142	1.00	75.98	Al6S	ATOM	42759	O2 CYT	1096	216.111	147.165	4.574	1.00	70.41	Al	
ATOM	42707	O3' ADE	1093	206.033	152.945	0.022	1.00	75.98	Al6S	ATOM	42760	N3 CYT	1096	214.932	148.578	3.272	1.00	70.41	Al	
ATOM	42708	P CYT	1094	207.293	152.795	1.022	1.00	83.21	Al6S	ATOM	42761	C4 CYT	1096	214.225	149.703	3.183	1.00	70.41	Al	
ATOM	42709	O1P CYT	1094	208.148	153.991	0.815	1.00	66.27	Al6S	ATOM	42762	N4 CYT	1096	213.720	150.030	1.992	1.00	70.41	Al	
ATOM	42710	O2P CYT	1094	207.883	151.438	0.875	1.00	66.27	Al6S	ATOM	42763	C5 CYT	1096	213.937	150.539	4.312	1.00	70.41	Al	
ATOM	42711	O5' CYT	1094	206.647	152.871	2.479	1.00	83.21	Al6S	ATOM	42764	C2' CYT	1096	217.143	149.068	7.142	1.00	78.81	Al	
ATOM	42712	C5' CYT	1094	206.002	154.077	2.952	1.00	83.21	Al6S	ATOM	42765	O2' CYT	1096	217.850	148.158	7.958	1.00	78.81	Al	
ATOM	42713	C4' CYT	1094	205.361	153.836	4.302	1.00	83.21	Al6S	ATOM	42766	C3' CYT	1096	216.823	150.355	7.883	1.00	78.81	Al	
ATOM	42714	O4' CYT	1094	204.279	152.878	4.169	1.00	83.21	Al6S	ATOM	42767	O3' CYT	1097	217.919	150.828	8.627	1.00	78.81	Al	
ATOM	42715	C1' CYT	1094	204.220	152.062	5.325	1.00	83.21	Al6S	ATOM	42768	P CYT	1097	218.887	151.918	7.971	1.00	92.79	Al	
ATOM	42716	N1 CYT	1094	204.377	150.654	4.916	1.00	66.27	Al6S	ATOM	42769	O1P CYT	1097	219.776	152.368	9.069	1.00	70.13	Al	
ATOM	42717	C6 CYT	1094	204.832	150.339	3.667	1.00	66.27	Al6S	ATOM	42770	O2P CYT	1097	218.059	152.906	7.228	1.00	70.13	Al	
ATOM	42718	O2 CYT	1094	204.060	149.630	5.832	1.00	66.27	Al6S	ATOM	42771	O5' CYT	1097	219.744	151.094	6.911	1.00	92.79	Al	
ATOM	42719	O2 CYT	1094	203.636	149.921	6.947	1.00	66.27	Al6S	ATOM	42772	C5' CYT	1097	220.803	150.217	7.342	1.00	92.79	Al	
ATOM	42720	N3 CYT	1094	204.228	148.345	5.469	1.00	66.27	Al6S	ATOM	42773	C4' CYT	1097	221.495	149.594	6.152	1.00	92.79	Al	
ATOM	42721	C4 CYT	1094	204.678	148.051	4.251	1.00	66.27	Al6S	ATOM	42774	O4' CYT	1097	220.566	148.732	5.442	1.00	92.79	Al	
ATOM	42722	N4 CYT	1094	204.822	146.760	3.939	1.00	66.27	Al6S	ATOM	42775	C1' CYT	1097	220.849	148.766	4.052	1.00	92.79	Al	
ATOM	42723	C5 CYT	1094	204.998	149.066	3.939	1.00	66.27	Al6S	ATOM	42776	N1 CYT	1097	219.703	149.360	3.336	1.00	70.13	Al	
ATOM	42724	C2' CYT	1094	205.302	152.540	6.299	1.00	83.21	Al6S	ATOM	42777	C6 CYT	1097	218.686	149.978	4.008	1.00	70.13	Al	
ATOM	42725	O2' CYT	1094	204.712	153.409	7.244	1.00	83.21	Al6S	ATOM	42778	C2 CYT	1097	219.694	149.310	1.934	1.00	70.13	Al	
ATOM	42726	C3' CYT	1094	206.277	153.260	5.372	1.00	83.21	Al6S	ATOM	42779	O2 CYT	1097	220.608	148.698	1.350	1.00	70.13	Al	
ATOM	42727	O3' CYT	1094	206.961	154.306	6.060	1.00	83.21	Al6S	ATOM	42780	N3 CYT	1097	218.698	149.923	1.255	1.00	70.13	Al	
ATOM	42728	P CYT	1095	208.565	154.414	5.973	1.00	55.88	Al6S	ATOM	42781	C4 CYT	1097	217.730	150.554	1.920	1.00	70.13	Al	
ATOM	42729	O1P CYT	1095	208.971	155.604	6.767	1.00	71.57	Al6S	ATOM	42782	N4 CYT	1097	216.787	151.180	1.207	1.00	70.13	Al	
ATOM	42730	O2P CYT	1095	208.955	154.337	4.540	1.00	71.57	Al6S	ATOM	42783	C5 CYT	1097	217.689	150.582	3.346	1.00	70.13	Al	
ATOM	42731	O5' CYT	1095	209.087	153.121	6.746	1.00	55.88	Al6S	ATOM	42784	C2' CYT	1097	222.079	149.651	3.861	1.00	92.79	Al	
ATOM	42732	C5' CYT	1095	209.007	153.041	8.174	1.00	55.88	Al6S	ATOM	42785	O2' CYT	1097	223.246	148.853	3.847	1.00	92.79	Al	
ATOM	42733	C4' CYT	1095	209.723	151.812	8.669	1.00	55.88	Al6S	ATOM	42786	C3' CYT	1097	221.993	150.550	5.082	1.00	92.79	Al	
ATOM	42734	O4' CYT	1095	209.044	150.636	8.163	1.00	55.88	Al6S	ATOM	42787	O3' CYT	1097	223.239	151.150	5.380	1.00	92.79	Al	
ATOM	42735	C1' CYT	1095	209.991	149.629	7.832	1.00	55.88	Al6S	ATOM	42788	P CYT	1098	223.524	152.653	4.877	1.00	67.82	Al	
ATOM	42736	N1 CYT	1095	209.947	149.419	6.364	1.00	71.57	Al6S	ATOM	42789	O1P CYT	1098	224.744	153.122	5.590	1.00	59.42	Al	

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ATOM	42790	O2P	CYT	1098	222.260	153.430	4.987	1.00	59.42	Al6s	ATOM	42843	N3	CYT	1100	220.572	162.156	-1.511	1.00	70.89	Al
ATOM	42791	O5'	CYT	1098	223.835	152.514	3.319	1.00	67.82	Al6s	ATOM	42844	C4	CYT	1100	221.105	161.097	-0.894	1.00	70.89	Al
ATOM	42792	C5'	CYT	1098	224.895	151.666	2.851	1.00	67.82	Al6s	ATOM	42845	N4	CYT	1100	220.479	160.617	0.186	1.00	70.89	Al
ATOM	42793	C4'	CYT	1098	224.842	151.534	1.350	1.00	67.82	Al6s	ATOM	42846	C5	CYT	1100	222.306	160.483	-1.353	1.00	70.89	Al
ATOM	42794	O4'	CYT	1098	223.614	150.869	0.952	1.00	67.82	Al6s	ATOM	42847	C2'	CYT	1100	223.999	163.851	-3.797	1.00	77.81	Al
ATOM	42795	C1'	CYT	1098	223.229	151.319	-0.338	1.00	67.82	Al6s	ATOM	42848	O2'	CYT	1100	224.136	164.809	-4.838	1.00	77.81	Al
ATOM	42796	N1	CYT	1098	221.871	151.898	-0.301	1.00	59.42	Al6s	ATOM	42849	C3'	CYT	1100	225.288	163.088	-3.518	1.00	77.81	Al
ATOM	42797	C6	CYT	1098	221.184	152.062	0.869	1.00	59.42	Al6s	ATOM	42850	O3'	CYT	1100	226.451	163.918	-3.438	1.00	77.81	Al
ATOM	42799	O2	CYT	1098	221.299	152.318	-1.518	1.00	59.42	Al6s	ATOM	42851	P	CYT	1101	226.890	164.527	-2.007	1.00	95.60	Al
ATOM	42800	N3	CYT	1098	221.911	152.097	-2.576	1.00	59.42	Al6s	ATOM	42852	O1P	CYT	1101	228.190	165.200	-2.203	1.00	77.06	Al
ATOM	42801	C4	CYT	1098	220.098	152.939	-1.513	1.00	59.42	Al6s	ATOM	42853	O2P	CYT	1101	226.764	163.485	-0.955	1.00	77.06	Al
ATOM	42802	N4	CYT	1098	219.451	153.119	-0.365	1.00	59.42	Al6s	ATOM	42854	O5'	CYT	1101	225.793	165.652	-1.742	1.00	95.60	Al
ATOM	42803	C5	CYT	1098	218.281	153.751	-0.408	1.00	59.42	Al6s	ATOM	42855	C5'	CYT	1101	225.583	166.711	-2.704	1.00	95.60	Al
ATOM	42804	C2'	CYT	1098	219.981	152.661	0.883	1.00	59.42	Al6s	ATOM	42856	C4'	CYT	1101	224.429	167.599	-2.288	1.00	95.60	Al
ATOM	42805	O2'	CYT	1098	224.235	152.381	-0.774	1.00	67.82	Al6s	ATOM	42857	O4'	CYT	1101	223.185	166.850	-2.350	1.00	95.60	Al
ATOM	42806	C3'	CYT	1098	225.175	151.816	-1.661	1.00	67.82	Al6s	ATOM	42858	C1'	CYT	1101	222.330	167.254	-1.290	1.00	77.06	Al
ATOM	42807	O3'	CYT	1098	224.818	152.828	0.559	1.00	67.82	Al6s	ATOM	42859	N1	CYT	1101	222.153	166.110	-0.371	1.00	77.06	Al
ATOM	42808	P	GUA	1099	226.095	153.434	0.414	1.00	67.82	Al6s	ATOM	42860	C6	CYT	1101	223.080	165.103	-0.317	1.00	77.06	Al
ATOM	42809	O1P	GUA	1099	226.224	155.040	0.477	1.00	75.59	Al6s	ATOM	42861	C2	CYT	1101	223.080	165.103	-0.317	1.00	77.06	Al
ATOM	42810	O2P	GUA	1099	227.618	155.339	0.892	1.00	67.01	Al6s	ATOM	42862	O2	CYT	1101	221.027	166.077	0.469	1.00	77.06	Al
ATOM	42811	O5'	GUA	1099	225.083	155.589	1.259	1.00	67.01	Al6s	ATOM	42863	N3	CYT	1101	220.882	165.049	1.337	1.00	77.06	Al
ATOM	42812	C5'	GUA	1099	226.053	155.529	-1.024	1.00	75.59	Al6s	ATOM	42864	C4	CYT	1101	221.801	164.080	1.387	1.00	77.06	Al
ATOM	42813	C4'	GUA	1099	224.935	155.112	-1.782	1.00	75.59	Al6s	ATOM	42865	N4	CYT	1101	221.623	163.090	2.267	1.00	77.06	Al
ATOM	42814	O4'	GUA	1099	225.014	155.647	-3.177	1.00	75.59	Al6s	ATOM	42866	C5	CYT	1101	222.946	164.082	0.539	1.00	77.06	Al
ATOM	42815	C1'	GUA	1099	223.898	155.065	-3.883	1.00	75.59	Al6s	ATOM	42867	C2'	CYT	1101	223.010	168.419	-0.567	1.00	95.60	Al
ATOM	42816	N9	GUA	1099	223.092	156.079	-4.434	1.00	75.59	Al6s	ATOM	42868	O2'	CYT	1101	222.554	169.656	-1.085	1.00	95.60	Al
ATOM	42817	C4	GUA	1099	221.890	156.167	-3.605	1.00	67.01	Al6s	ATOM	42869	C3'	CYT	1101	224.478	168.146	-0.868	1.00	95.60	Al
ATOM	42818	N3	GUA	1099	220.611	156.457	-4.024	1.00	67.01	Al6s	ATOM	42870	O3'	CYT	1101	225.287	169.310	-0.738	1.00	95.60	Al
ATOM	42819	C2	GUA	1099	220.222	156.686	-5.297	1.00	67.01	Al6s	ATOM	42871	P	GUA	1102	226.011	169.618	0.667	1.00	118.44	Al
ATOM	42820	N2	GUA	1099	218.928	156.966	-5.378	1.00	67.01	Al6s	ATOM	42872	O1P	GUA	1102	226.952	170.732	0.410	1.00	101.88	Al
ATOM	42821	N1	GUA	1099	218.368	157.208	-6.574	1.00	67.01	Al6s	ATOM	42873	O2P	GUA	1102	226.516	168.352	1.266	1.00	101.88	Al
ATOM	42822	C6	GUA	1099	218.087	157.030	-4.295	1.00	67.01	Al6s	ATOM	42874	O5'	GUA	1102	224.833	170.142	1.604	1.00	118.44	Al
ATOM	42823	O6	GUA	1099	218.464	156.802	-2.974	1.00	67.01	Al6s	ATOM	42875	C5'	GUA	1102	224.153	171.387	1.337	1.00	118.44	Al
ATOM	42824	C5	GUA	1099	217.626	156.908	-2.065	1.00	67.01	Al6s	ATOM	42876	C4'	GUA	1102	223.051	171.609	2.350	1.00	118.44	Al
ATOM	42825	N7	GUA	1099	219.847	156.477	-2.875	1.00	67.01	Al6s	ATOM	42877	O4'	GUA	1102	222.088	170.526	2.244	1.00	118.44	Al
ATOM	42826	C8	GUA	1099	220.619	156.164	-1.763	1.00	67.01	Al6s	ATOM	42878	C1'	GUA	1102	221.584	170.198	3.530	1.00	118.44	Al
ATOM	42827	C2'	GUA	1099	221.819	155.988	-2.242	1.00	67.01	Al6s	ATOM	42879	N9	GUA	1102	221.975	168.828	3.854	1.00	101.88	Al
ATOM	42828	O2'	GUA	1099	223.953	157.348	-4.482	1.00	75.59	Al6s	ATOM	42880	C4	GUA	1102	221.422	168.035	4.833	1.00	101.88	Al
ATOM	42829	C3'	GUA	1099	224.658	157.398	-5.706	1.00	75.59	Al6s	ATOM	42881	N3	GUA	1102	220.395	168.373	5.638	1.00	101.88	Al
ATOM	42830	O3'	GUA	1099	224.856	157.159	-3.261	1.00	75.59	Al6s	ATOM	42882	C2	GUA	1102	220.098	167.408	6.492	1.00	101.88	Al
ATOM	42831	P	CYT	1100	226.145	157.777	-3.422	1.00	75.59	Al6s	ATOM	42883	N2	GUA	1102	219.093	167.576	7.361	1.00	101.88	Al
ATOM	42832	O1P	CYT	1100	226.580	159.037	-2.502	1.00	77.81	Al6s	ATOM	42884	N1	GUA	1102	220.760	166.208	6.555	1.00	101.88	Al
ATOM	42833	O2P	CYT	1100	228.013	159.307	-2.793	1.00	70.89	Al6s	ATOM	42885	C6	GUA	1102	221.823	165.839	5.740	1.00	101.88	Al
ATOM	42834	O5'	CYT	1100	226.161	158.781	-1.100	1.00	70.89	Al6s	ATOM	42886	O6	GUA	1102	222.359	164.733	5.891	1.00	101.88	Al
ATOM	42835	C5'	CYT	1100	225.743	160.251	-3.099	1.00	77.81	Al6s	ATOM	42887	C5	GUA	1102	222.147	166.864	4.809	1.00	101.88	Al
ATOM	42836	C4'	CYT	1100	226.080	160.800	-4.382	1.00	77.81	Al6s	ATOM	42888	N7	GUA	1102	223.121	166.908	3.820	1.00	101.88	Al
ATOM	42837	O4'	CYT	1100	225.294	162.059	-4.644	1.00	77.81	Al6s	ATOM	42889	C8	GUA	1102	222.978	168.085	3.277	1.00	101.88	Al
ATOM	42838	C1'	CYT	1100	223.894	161.716	-4.829	1.00	77.81	Al6s	ATOM	42890	C2'	GUA	1102	222.191	171.183	4.527	1.00	118.44	Al
ATOM	42839	N1	CYT	1100	223.074	162.712	-4.232	1.00	77.81	Al6s	ATOM	42891	O2'	GUA	1102	221.306	172.267	4.720	1.00	118.44	Al
ATOM	42840	C6	CYT	1100	222.380	162.109	-3.065	1.00	70.89	Al6s	ATOM	42892	C3'	GUA	1102	223.474	171.587	3.813	1.00	118.44	Al
ATOM	42841	C2	CYT	1100	222.902	161.013	-2.433	1.00	70.89	Al6s	ATOM	42893	O3'	GUA	1102	223.971	172.838	4.273	1.00	118.44	Al
ATOM	42842	O2	CYT	1100	221.184	162.687	-2.596	1.00	70.89	Al6s	ATOM	42894	P	URI	1103	224.810	172.903	5.647	1.00	106.61	Al
ATOM	42843	O2	CYT	1100	220.718	163.671	-3.181	1.00	70.89	Al6s	ATOM	42895	O1P	URI	1103	225.398	174.262	5.724	1.00	115.04	Al

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ATOM	42896	O2P	URI	1103	225.695	171.715	5.742	1.00115.04	Al65	ATOM	42949	C5	ADE	1105	228.063	167.250	12.899	1.00105.67	Al
ATOM	42897	O5' URI	1103	223.707	172.760	6.787	1.00106.61	Al65	ATOM	42950	N7	ADE	1105	227.949	168.628	13.016	1.00105.67	Al	
ATOM	42898	C5' URI	1103	222.702	173.776	6.984	1.00106.61	Al65	ATOM	42951	C8	ADE	1105	227.686	168.816	14.287	1.00105.67	Al	
ATOM	42899	C4' URI	1103	221.838	173.424	8.170	1.00106.61	Al65	ATOM	42952	C2' ADE	1105	228.587	168.049	17.274	1.00148.46	Al		
ATOM	42900	O4' URI	1103	221.087	172.220	7.873	1.00106.61	Al65	ATOM	42953	O2' ADE	1105	228.808	167.225	18.400	1.00148.46	Al		
ATOM	42901	C1' URI	1103	220.985	171.416	9.039	1.00106.61	Al65	ATOM	42954	C3' ADE	1105	228.084	169.440	17.641	1.00148.46	Al		
ATOM	42902	N1 URI	1103	221.628	170.118	8.768	1.00115.04	Al65	ATOM	42955	O3' ADE	1105	228.727	169.978	18.787	1.00148.46	Al		
ATOM	42903	C6 URI	1103	222.713	170.019	7.919	1.00115.04	Al65	ATOM	42956	P	GUA	1106	229.558	171.350	18.652	1.00141.28	Al	
ATOM	42904	C2 URI	1103	221.118	168.990	9.404	1.00115.04	Al65	ATOM	42957	O1P	GUA	1106	229.811	171.854	20.021	1.00126.00	Al	
ATOM	42905	O2 URI	1103	220.147	169.019	10.147	1.00115.04	Al65	ATOM	42958	O2P	GUA	1106	228.858	172.217	17.668	1.00126.00	Al	
ATOM	42906	N3 URI	1103	221.789	167.824	9.132	1.00115.04	Al65	ATOM	42959	O5' GUA	1106	230.949	170.921	18.005	1.00141.28	Al		
ATOM	42907	C4 URI	1103	222.882	167.664	8.306	1.00115.04	Al65	ATOM	42960	C5' GUA	1106	232.024	170.372	18.804	1.00141.28	Al		
ATOM	42908	O4 URI	1103	223.394	166.553	8.195	1.00115.04	Al65	ATOM	42961	C4' GUA	1106	232.205	168.913	18.472	1.00141.28	Al		
ATOM	42909	C5 URI	1103	223.337	168.863	7.673	1.00115.04	Al65	ATOM	42962	O4' GUA	1106	231.635	168.673	17.172	1.00141.28	Al		
ATOM	42910	C2' URI	1103	221.658	172.170	10.190	1.00106.61	Al65	ATOM	42963	C1' GUA	1106	232.328	167.621	16.547	1.00141.28	Al		
ATOM	42911	O2' URI	1103	220.700	172.856	10.975	1.00106.61	Al65	ATOM	42964	N9	GUA	1106	232.475	167.928	15.125	1.00126.00	Al	
ATOM	42912	C3' URI	1103	222.608	173.093	9.437	1.00106.61	Al65	ATOM	42965	C4	GUA	1106	232.583	167.007	14.109	1.00126.00	Al	
ATOM	42913	O3' URI	1103	222.951	174.253	10.179	1.00106.61	Al65	ATOM	42966	N3	GUA	1106	232.646	165.665	14.262	1.00126.00	Al	
ATOM	42914	P	URI	1104	224.272	174.242	11.094	1.0099.88	Al65	ATOM	42967	C2	GUA	1106	232.706	165.040	13.104	1.00126.00	Al
ATOM	42915	O1P	URI	1104	224.416	175.604	11.669	1.00120.52	Al65	ATOM	42968	N2	GUA	1106	232.783	163.700	13.082	1.00126.00	Al
ATOM	42916	O2P	URI	1104	225.391	173.652	10.305	1.00120.52	Al65	ATOM	42969	N1	GUA	1106	232.694	165.681	11.886	1.00126.00	Al
ATOM	42917	O5' URI	1104	223.904	173.241	12.279	1.0099.88	Al65	ATOM	42970	C6	GUA	1106	232.621	167.060	11.705	1.00126.00	Al	
ATOM	42918	C5' URI	1104	222.790	173.510	13.146	1.0099.88	Al65	ATOM	42971	O6	GUA	1106	232.592	167.534	10.564	1.00126.00	Al	
ATOM	42919	C4' URI	1104	222.536	172.332	14.050	1.0099.88	Al65	ATOM	42972	C5	GUA	1106	232.575	167.744	12.943	1.00126.00	Al	
ATOM	42920	O4' URI	1104	222.062	171.206	13.269	1.0099.88	Al65	ATOM	42973	N7	GUA	1106	232.511	169.104	13.219	1.00126.00	Al	
ATOM	42921	C1' URI	1104	222.556	169.997	13.828	1.0099.88	Al65	ATOM	42974	C8	GUA	1106	232.465	169.167	14.523	1.00126.00	Al	
ATOM	42922	N1 URI	1104	223.339	169.280	12.804	1.00120.52	Al65	ATOM	42975	C2' GUA	1106	233.552	167.241	17.392	1.00141.28	Al		
ATOM	42923	C6 URI	1104	223.799	169.917	11.671	1.00120.52	Al65	ATOM	42976	O2' GUA	1106	233.331	165.980	17.998	1.00141.28	Al		
ATOM	42924	C2 URI	1104	223.604	167.929	13.014	1.00120.52	Al65	ATOM	42977	C3' GUA	1106	233.637	168.395	18.399	1.00141.28	Al		
ATOM	42925	O2 URI	1104	223.232	167.320	14.007	1.00120.52	Al65	ATOM	42978	O3' GUA	1106	234.044	167.924	19.687	1.00141.28	Al		
ATOM	42926	N3 URI	1104	224.327	167.319	12.017	1.00120.52	Al65	ATOM	42979	P	URI	1107	235.589	167.585	19.970	1.00201.09	Al	
ATOM	42927	C4 URI	1104	224.808	167.900	10.864	1.00120.52	Al65	ATOM	42980	O1P	URI	1107	235.733	167.351	21.423	1.0068.73	Al	
ATOM	42928	O4 URI	1104	225.417	167.207	10.049	1.00120.52	Al65	ATOM	42981	O2P	URI	1107	236.361	168.676	19.326	1.0068.73	Al	
ATOM	42929	C5 URI	1104	224.506	169.290	10.724	1.00120.52	Al65	ATOM	42982	O5' URI	1107	235.846	166.174	19.256	1.00201.09	Al		
ATOM	42930	C2' URI	1104	223.377	170.353	15.071	1.0099.88	Al65	ATOM	42983	C5' URI	1107	236.829	166.024	18.200	1.00201.09	Al		
ATOM	42931	O2' URI	1104	222.593	170.185	16.237	1.0099.88	Al65	ATOM	42984	C4' URI	1107	237.954	165.090	18.626	1.00201.09	Al		
ATOM	42932	C3' URI	1104	223.754	171.804	14.789	1.0099.88	Al65	ATOM	42985	O4' URI	1107	238.447	165.507	19.924	1.00201.09	Al		
ATOM	42933	O3' URI	1104	224.028	172.539	15.978	1.0099.88	Al65	ATOM	42986	C1' URI	1107	238.938	164.382	20.633	1.00201.09	Al		
ATOM	42934	P	URI	1105	225.550	172.718	16.467	1.00148.46	Al65	ATOM	42987	N1	URI	1107	238.213	164.260	21.903	1.0068.73	Al
ATOM	42935	O1P	URI	1105	225.504	173.310	17.829	1.00105.67	Al65	ATOM	42988	C6	URI	1107	236.907	164.705	22.036	1.0068.73	Al
ATOM	42936	O2P	URI	1105	226.317	173.407	15.393	1.00105.67	Al65	ATOM	42989	C2	URI	1107	238.889	163.681	22.972	1.0068.73	Al
ATOM	42937	O5' ADE	1105	226.084	171.223	16.607	1.00148.46	Al65	ATOM	42990	O2	URI	1107	240.034	163.258	22.883	1.0068.73	Al	
ATOM	42938	C5' ADE	1105	225.697	170.410	17.730	1.00148.46	Al65	ATOM	42991	N3	URI	1107	238.169	163.614	24.145	1.0068.73	Al	
ATOM	42939	C4' ADE	1105	226.536	169.203	17.846	1.00148.46	Al65	ATOM	42992	C4	URI	1107	236.865	163.959	24.356	1.0068.73	Al	
ATOM	42940	O4' ADE	1105	226.250	168.219	16.837	1.00148.46	Al65	ATOM	42993	O4	URI	1107	236.374	163.998	25.492	1.0068.73	Al	
ATOM	42941	C1' ADE	1105	227.414	167.499	16.461	1.00148.46	Al65	ATOM	42994	C5	URI	1107	236.229	164.626	23.192	1.0068.73	Al	
ATOM	42942	N9	URI	1105	227.631	167.653	15.020	1.00105.67	Al65	ATOM	42995	O2' URI	1107	238.755	163.144	19.761	1.00201.09	Al	
ATOM	42943	C4	URI	1105	227.857	166.635	14.122	1.00105.67	Al65	ATOM	42996	C2' URI	1107	239.987	162.815	19.150	1.00201.09	Al	
ATOM	42944	N3	URI	1105	227.887	165.313	14.374	1.00105.67	Al65	ATOM	42997	C3' URI	1107	237.669	163.596	18.785	1.00201.09	Al	
ATOM	42945	C2	URI	1105	228.153	164.631	13.265	1.00105.67	Al65	ATOM	42998	O3' URI	1107	237.813	162.900	17.543	1.00201.09	Al	
ATOM	42946	N1	URI	1105	228.378	165.082	12.024	1.00105.67	Al65	ATOM	42999	P	URI	1108	237.662	161.289	17.486	1.00193.82	Al
ATOM	42947	C6	URI	1105	228.341	166.413	11.803	1.00105.67	Al65	ATOM	43000	O1P	URI	1108	236.319	161.024	16.905	1.00200.99	Al
ATOM	42948	N6	URI	1105	228.570	166.862	10.567	1.00105.67	Al65	ATOM	43001	O2P	URI	1108	238.016	160.696	18.803	1.00200.99	Al

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ATOM	43002	05' URI	1108	238.772	160.839	16.425	1.00193.82	Al6s	ATOM	43055	C4 CYT	1110	243.652	167.686	11.675	1.00108.76	AJ
ATOM	43003	C5' URI	1108	238.777	159.507	15.857	1.00193.82	Al6s	ATOM	43056	N4 CYT	1110	243.922	167.657	12.982	1.00108.76	AJ
ATOM	43004	C4' URI	1108	238.378	159.559	14.397	1.00193.82	Al6s	ATOM	43057	C5' CYT	1110	243.705	166.486	10.909	1.00108.76	AJ
ATOM	43005	04' URI	1108	237.095	160.231	14.302	1.00193.82	Al6s	ATOM	43058	C2' CYT	1110	243.631	168.376	6.637	1.00110.34	AJ
ATOM	43006	C1' URI	1108	237.051	161.027	13.132	1.00193.82	Al6s	ATOM	43059	02' CYT	1110	242.965	169.153	5.665	1.00110.34	AJ
ATOM	43007	N1 URI	1108	236.775	162.425	13.515	1.00200.99	Al6s	ATOM	43060	C3' CYT	1110	244.183	167.109	6.003	1.00110.34	AJ
ATOM	43008	C6 URI	1108	237.116	162.910	14.759	1.00200.99	Al6s	ATOM	43061	03' CYT	1110	244.098	167.376	4.668	1.00110.34	AJ
ATOM	43009	C2 URI	1108	236.153	163.246	12.584	1.00200.99	Al6s	ATOM	43062	P CYT	1111	246.098	167.881	4.383	1.00201.09	AJ
ATOM	43010	02 URI	1108	235.835	162.868	11.465	1.00200.99	Al6s	ATOM	43063	01P CYT	1111	246.461	167.358	3.053	1.00200.85	AJ
ATOM	43011	N3 URI	1108	235.918	164.531	13.015	1.00200.99	Al6s	ATOM	43064	02P CYT	1111	246.956	167.560	5.555	1.00200.85	AJ
ATOM	43012	C4 URI	1108	236.231	165.068	14.248	1.00200.99	Al6s	ATOM	43065	05' CYT	1111	245.956	169.463	4.267	1.00201.09	AJ
ATOM	43013	04 URI	1108	235.970	166.247	14.481	1.00200.99	Al6s	ATOM	43066	C5' CYT	1111	245.608	170.252	5.417	1.00201.09	AJ
ATOM	43014	C5 URI	1108	236.870	164.165	15.145	1.00200.99	Al6s	ATOM	43067	C4' CYT	1111	246.057	171.686	5.248	1.00201.09	AJ
ATOM	43015	C2' URI	1108	238.363	160.826	12.372	1.00193.82	Al6s	ATOM	43068	04' CYT	1111	245.712	172.392	6.462	1.00201.09	AJ
ATOM	43016	02' URI	1108	238.166	159.861	11.362	1.00193.82	Al6s	ATOM	43069	C1' CYT	1111	246.815	173.144	6.929	1.00201.09	AJ
ATOM	43017	C3' URI	1108	239.303	160.340	13.471	1.00193.82	Al6s	ATOM	43070	N1 CYT	1111	247.122	172.673	8.300	1.00200.85	AJ
ATOM	43018	03' URI	1108	240.301	159.485	12.916	1.00193.82	Al6s	ATOM	43071	C6 CYT	1111	246.205	171.908	8.969	1.00200.85	AJ
ATOM	43019	P GUA	1109	241.678	160.105	12.356	1.0074.50	Al6s	ATOM	43072	C2 CYT	1111	248.343	173.018	8.922	1.00200.85	AJ
ATOM	43020	01P GUA	1109	242.335	159.062	11.528	1.00187.52	Al6s	ATOM	43073	02 CYT	1111	249.167	173.725	8.312	1.00200.85	AJ
ATOM	43021	02P GUA	1109	242.403	160.683	13.515	1.00187.52	Al6s	ATOM	43074	N3 CYT	1111	248.583	172.570	10.181	1.00200.85	AJ
ATOM	43022	05' GUA	1109	241.242	161.297	11.392	1.0074.50	Al6s	ATOM	43075	C4 CYT	1111	247.670	171.822	10.813	1.00200.85	AJ
ATOM	43023	C5' GUA	1109	240.777	161.033	10.062	1.0074.50	Al6s	ATOM	43076	N4 CYT	1111	247.950	171.389	12.044	1.00200.85	AJ
ATOM	43024	C4' GUA	1109	240.194	162.284	9.449	1.0074.50	Al6s	ATOM	43077	C5' CYT	1111	246.432	171.476	10.209	1.00200.85	AJ
ATOM	43025	04' GUA	1109	239.128	162.780	10.289	1.0074.50	Al6s	ATOM	43078	C2' CYT	1111	247.927	173.108	5.861	1.00201.09	AJ
ATOM	43026	C1' GUA	1109	239.113	164.196	10.260	1.0074.50	Al6s	ATOM	43079	02' CYT	1111	247.914	171.794	3.660	1.00201.09	AJ
ATOM	43027	N9 GUA	1109	239.262	164.684	11.627	1.00187.52	Al6s	ATOM	43080	C3' CYT	1111	247.558	171.849	5.064	1.00201.09	AJ
ATOM	43028	C4 GUA	1109	239.038	165.964	12.057	1.00187.52	Al6s	ATOM	43081	03' CYT	1111	247.914	171.794	2.617	1.00122.56	AJ
ATOM	43029	N3 GUA	1109	238.672	167.003	11.282	1.00187.52	Al6s	ATOM	43082	P ADE	1112	248.379	172.921	1.702	1.00122.56	AJ
ATOM	43030	C2 GUA	1109	238.518	168.108	11.985	1.00187.52	Al6s	ATOM	43083	01P ADE	1112	246.504	173.263	3.342	1.0089.52	AJ
ATOM	43031	N2 GUA	1109	238.171	169.244	11.367	1.00187.52	Al6s	ATOM	43084	02P ADE	1112	246.668	174.007	1.741	1.00122.56	AJ
ATOM	43032	N1 GUA	1109	238.636	168.183	13.344	1.00187.52	Al6s	ATOM	43085	05' ADE	1112	246.265	172.182	1.741	1.00122.56	AJ
ATOM	43033	C6 GUA	1109	239.069	167.123	14.163	1.00187.52	Al6s	ATOM	43086	C5' ADE	1112	245.173	171.471	2.374	1.00122.56	AJ
ATOM	43034	06 GUA	1109	239.190	167.296	15.382	1.00187.52	Al6s	ATOM	43087	C4' ADE	1112	243.864	172.210	2.192	1.00122.56	AJ
ATOM	43035	C5 GUA	1109	239.254	165.937	13.418	1.00187.52	Al6s	ATOM	43088	04' ADE	1112	242.904	171.635	3.111	1.00122.56	AJ
ATOM	43036	N7 GUA	1109	239.632	164.669	13.832	1.00187.52	Al6s	ATOM	43089	C1' ADE	1112	242.064	172.650	3.624	1.00122.56	AJ
ATOM	43037	C8 GUA	1109	239.628	163.960	12.737	1.00187.52	Al6s	ATOM	43090	N9 ADE	1112	242.071	172.577	5.088	1.0089.52	AJ
ATOM	43038	C2' GUA	1109	240.216	164.663	9.314	1.0074.50	Al6s	ATOM	43091	C4 ADE	1112	241.240	173.249	5.957	1.0089.52	AJ
ATOM	43039	02' GUA	1109	239.647	164.962	8.054	1.0074.50	Al6s	ATOM	43092	N3 ADE	1112	240.297	174.160	5.650	1.0089.52	AJ
ATOM	43040	C3' GUA	1109	241.147	163.455	9.308	1.0074.50	Al6s	ATOM	43093	C2 ADE	1112	239.659	174.563	6.752	1.0089.52	AJ
ATOM	43041	03' GUA	1109	241.883	163.344	8.104	1.0074.50	Al6s	ATOM	43094	N1 ADE	1112	239.838	174.182	8.030	1.0089.52	AJ
ATOM	43042	P CYT	1110	243.478	163.183	8.165	1.00110.34	Al6s	ATOM	43095	C6 ADE	1112	240.790	173.262	8.303	1.0089.52	AJ
ATOM	43043	01P CYT	1110	243.815	161.880	7.546	1.00108.76	Al6s	ATOM	43096	N6 ADE	1112	240.950	172.862	9.568	1.0089.52	AJ
ATOM	43044	02P CYT	1110	243.934	163.471	9.550	1.00108.76	Al6s	ATOM	43097	C5 ADE	1112	241.549	172.769	7.224	1.0089.52	AJ
ATOM	43045	05' CYT	1110	243.994	164.343	7.204	1.00110.34	Al6s	ATOM	43098	N7 ADE	1112	242.586	171.850	7.160	1.0089.52	AJ
ATOM	43046	C5' CYT	1110	243.263	164.694	6.014	1.00110.34	Al6s	ATOM	43099	C8 ADE	1112	242.865	171.783	5.880	1.0089.52	AJ
ATOM	43047	C4' CYT	1110	242.976	166.177	5.997	1.00110.34	Al6s	ATOM	43100	C2' ADE	1112	242.474	173.984	2.999	1.00122.56	AJ
ATOM	43048	04' CYT	1110	242.234	166.522	7.191	1.00110.34	Al6s	ATOM	43101	02' ADE	1112	241.587	174.260	1.938	1.00122.56	AJ
ATOM	43049	C1' CYT	1110	242.601	167.821	7.622	1.00110.34	Al6s	ATOM	43102	C3' ADE	1112	243.895	173.699	2.521	1.00122.56	AJ
ATOM	43050	N1 CYT	1110	243.026	167.755	9.038	1.00108.76	Al6s	ATOM	43103	03' ADE	1112	244.159	174.419	1.313	1.00122.56	AJ
ATOM	43051	C6 CYT	1110	243.392	166.565	9.608	1.00108.76	Al6s	ATOM	43104	P GUA	1113	245.119	175.721	1.312	1.00199.85	AJ
ATOM	43052	C2 CYT	1110	243.019	168.934	9.807	1.00108.76	Al6s	ATOM	43105	01P GUA	1113	244.618	176.539	0.141	1.00138.48	AJ
ATOM	43053	02 CYT	1110	242.733	170.017	9.259	1.00108.76	Al6s	ATOM	43106	02P GUA	1113	246.535	175.293	1.404	1.00138.48	AJ
ATOM	43054	N3 CYT	1110	243.331	168.861	11.126	1.00108.76	Al6s	ATOM	43107	05' GUA	1113	244.738	176.543	2.627	1.00199.89	AJ

ATOM	43108	C5' GUA	1113	244.689	177.986	2.589	1.00199.89	Al65	ATOM	43161	C6' GUA	1115	251.029	175.042	12.701	1.00169.38	Al
ATOM	43109	C4' GUA	1113	245.097	178.575	3.917	1.00199.89	Al65	ATOM	43162	O6' GUA	1115	250.358	174.266	12.014	1.00169.38	Al
ATOM	43110	O4' GUA	1113	244.090	178.275	4.915	1.00199.89	Al65	ATOM	43163	C5' GUA	1115	251.414	176.367	12.404	1.00169.38	Al
ATOM	43111	C1' GUA	1113	244.705	178.155	6.187	1.00199.89	Al65	ATOM	43164	N7' GUA	1115	251.150	177.148	11.290	1.00169.38	Al
ATOM	43112	N9' GUA	1113	244.468	176.812	6.701	1.00138.48	Al65	ATOM	43165	C8' GUA	1115	251.760	178.274	11.534	1.00169.38	Al
ATOM	43113	C4' GUA	1113	244.175	176.477	8.001	1.00138.48	Al65	ATOM	43166	C2' GUA	1115	254.717	178.958	13.363	1.00146.40	Al
ATOM	43114	N3' GUA	1113	244.005	177.341	9.025	1.00138.48	Al65	ATOM	43167	O2' GUA	1115	255.338	179.571	14.473	1.00146.40	Al
ATOM	43115	C2' GUA	1113	243.748	176.717	10.162	1.00138.48	Al65	ATOM	43168	C3' GUA	1115	255.235	179.458	12.022	1.00146.40	Al
ATOM	43116	N2' GUA	1113	243.535	177.427	11.281	1.00138.48	Al65	ATOM	43169	O3' GUA	1115	256.630	179.717	12.026	1.00146.40	Al
ATOM	43117	C6' GUA	1113	243.675	175.352	10.287	1.00138.48	Al65	ATOM	43170	P' GUA	1116	257.637	178.646	11.376	1.00143.14	Al
ATOM	43118	C6' GUA	1113	243.847	174.443	9.249	1.00138.48	Al65	ATOM	43171	O1P' GUA	1116	258.945	179.324	11.196	1.00161.73	Al
ATOM	43119	O6' GUA	1113	243.763	173.226	9.472	1.00138.48	Al65	ATOM	43172	O2P' GUA	1116	256.962	178.040	10.200	1.00161.73	Al
ATOM	43120	C5' GUA	1113	244.112	175.102	8.018	1.00138.48	Al65	ATOM	43173	O5' GUA	1116	257.797	177.528	12.505	1.00143.14	Al
ATOM	43121	N7' GUA	1113	244.330	175.585	6.749	1.00138.48	Al65	ATOM	43174	C5' GUA	1116	258.390	177.842	13.783	1.00143.14	Al
ATOM	43122	C8' GUA	1113	246.532	175.634	6.007	1.00199.89	Al65	ATOM	43175	C4' GUA	1116	258.156	176.719	14.771	1.00143.14	Al
ATOM	43123	C2' GUA	1113	246.204	178.392	6.332	1.00199.89	Al65	ATOM	43176	O4' GUA	1116	256.726	176.482	14.881	1.00143.14	Al
ATOM	43124	O2' GUA	1113	246.528	179.728	4.017	1.00199.89	Al65	ATOM	43177	C1' GUA	1116	256.482	175.097	15.078	1.00143.14	Al
ATOM	43125	C3' GUA	1113	246.394	178.074	4.532	1.00199.89	Al65	ATOM	43178	N9' GUA	1116	255.697	174.594	13.947	1.00161.73	Al
ATOM	43126	O3' GUA	1113	247.551	178.714	4.017	1.00199.89	Al65	ATOM	43179	C4' GUA	1116	255.192	173.316	13.799	1.00161.73	Al
ATOM	43127	P' GUA	1114	249.008	178.183	4.450	1.00152.91	Al65	ATOM	43180	N3' GUA	1116	255.312	172.306	14.687	1.00161.73	Al
ATOM	43128	O1P' GUA	1114	249.971	178.645	3.419	1.00133.59	Al65	ATOM	43181	C2' GUA	1116	254.738	171.197	14.254	1.00161.73	Al
ATOM	43129	O2P' GUA	1114	248.912	176.736	4.763	1.00133.59	Al65	ATOM	43182	N2' GUA	1116	254.765	170.095	15.017	1.00161.73	Al
ATOM	43130	O5' GUA	1114	249.306	178.937	5.823	1.00152.91	Al65	ATOM	43183	N1' GUA	1116	254.097	171.085	13.043	1.00161.73	Al
ATOM	43131	C5' GUA	1114	249.511	180.364	5.861	1.00152.91	Al65	ATOM	43184	C6' GUA	1116	253.961	172.108	12.111	1.00161.73	Al
ATOM	43132	C4' GUA	1114	249.704	180.829	7.287	1.00152.91	Al65	ATOM	43185	O6' GUA	1116	253.367	171.898	11.045	1.00161.73	Al
ATOM	43133	O4' GUA	1114	248.501	180.543	8.049	1.00152.91	Al65	ATOM	43186	C5' GUA	1116	254.650	173.308	12.565	1.00161.73	Al
ATOM	43134	C1' GUA	1114	248.850	180.193	9.379	1.00152.91	Al65	ATOM	43187	N7' GUA	1116	254.575	174.553	11.957	1.00161.73	Al
ATOM	43135	N1' GUA	1114	248.331	178.841	9.674	1.00133.59	Al65	ATOM	43188	C8' GUA	1116	255.334	175.283	12.811	1.00161.73	Al
ATOM	43136	C6' GUA	1114	247.955	177.991	8.668	1.00133.59	Al65	ATOM	43189	C2' GUA	1116	257.843	174.402	15.192	1.00143.14	Al
ATOM	43137	C2' GUA	1114	248.233	178.431	11.018	1.00133.59	Al65	ATOM	43190	O2' GUA	1116	258.204	174.275	16.556	1.00143.14	Al
ATOM	43138	O2' GUA	1114	248.579	179.216	11.920	1.00133.59	Al65	ATOM	43191	C3' GUA	1116	258.747	175.358	14.421	1.00143.14	Al
ATOM	43139	N3' GUA	1114	247.768	177.194	11.297	1.00133.59	Al65	ATOM	43192	O3' GUA	1116	260.115	175.226	14.817	1.00143.14	Al
ATOM	43140	C4' GUA	1114	247.404	176.378	10.307	1.00133.59	Al65	ATOM	43193	P' GUA	1117	261.148	174.398	13.889	1.00201.09	Al
ATOM	43141	N4' GUA	1114	246.944	175.171	10.636	1.00133.59	Al65	ATOM	43194	O1P' GUA	1117	260.842	174.731	12.472	1.00146.34	Al
ATOM	43142	C5' GUA	1114	247.492	176.765	8.936	1.00133.59	Al65	ATOM	43195	O2P' GUA	1117	262.527	174.602	14.406	1.00146.34	Al
ATOM	43143	C2' GUA	1114	250.372	180.290	9.512	1.00152.91	Al65	ATOM	43196	O5' GUA	1117	260.769	172.865	14.112	1.00201.09	Al
ATOM	43144	O2' GUA	1114	250.719	181.525	10.104	1.00152.91	Al65	ATOM	43197	C5' GUA	1117	260.994	172.209	15.378	1.00201.09	Al
ATOM	43145	C3' GUA	1114	250.825	180.149	8.063	1.00152.91	Al65	ATOM	43198	C4' GUA	1117	260.325	170.852	15.382	1.00201.09	Al
ATOM	43146	O3' GUA	1114	252.088	180.771	7.829	1.00152.91	Al65	ATOM	43199	O4' GUA	1117	258.942	171.044	14.987	1.00201.09	Al
ATOM	43147	P' GUA	1115	253.446	179.935	8.053	1.00146.40	Al65	ATOM	43200	C1' GUA	1117	258.527	169.981	14.148	1.00201.09	Al
ATOM	43148	O1P' GUA	1115	254.554	180.722	7.449	1.00169.38	Al65	ATOM	43201	N1' GUA	1117	258.107	170.548	12.853	1.00146.34	Al
ATOM	43149	O2P' GUA	1115	253.220	178.533	7.611	1.00169.38	Al65	ATOM	43202	C6' GUA	1117	258.649	171.725	12.374	1.00146.34	Al
ATOM	43150	O5' GUA	1115	253.641	179.927	9.636	1.00146.40	Al65	ATOM	43203	C2' GUA	1117	257.136	169.869	12.126	1.00146.34	Al
ATOM	43151	C5' GUA	1115	254.208	181.063	10.332	1.00146.40	Al65	ATOM	43204	O2' GUA	1117	256.639	168.813	12.495	1.00146.34	Al
ATOM	43152	C4' GUA	1115	254.426	180.725	11.790	1.00146.40	Al65	ATOM	43205	N3' GUA	1117	256.771	170.473	10.946	1.00146.34	Al
ATOM	43153	O4' GUA	1115	253.141	180.468	12.413	1.00146.40	Al65	ATOM	43206	C4' GUA	1117	257.264	171.652	10.425	1.00146.34	Al
ATOM	43154	C1' GUA	1115	253.241	179.359	13.290	1.00146.40	Al65	ATOM	43207	O4' GUA	1117	256.800	172.088	9.373	1.00146.34	Al
ATOM	43155	N9' GUA	1115	252.422	178.281	12.740	1.00169.38	Al65	ATOM	43208	C5' GUA	1117	258.270	172.281	11.219	1.00146.34	Al
ATOM	43156	C4' GUA	1115	252.185	177.056	13.316	1.00169.38	Al65	ATOM	43209	C2' GUA	1117	259.671	168.966	14.069	1.00201.09	Al
ATOM	43157	N3' GUA	1115	252.644	176.643	14.515	1.00169.38	Al65	ATOM	43210	O2' GUA	1117	259.456	167.943	15.022	1.00201.09	Al
ATOM	43158	C2' GUA	1115	252.269	175.407	14.787	1.00169.38	Al65	ATOM	43211	C3' GUA	1117	260.885	169.832	14.366	1.00201.09	Al
ATOM	43159	N2' GUA	1115	252.631	174.845	15.943	1.00169.38	Al65	ATOM	43212	O3' GUA	1117	261.937	169.067	15.000	1.00201.09	Al
ATOM	43160	N1' GUA	1115	251.509	174.635	13.943	1.00169.38	Al65	ATOM	43213	P' GUA	1118	262.853	168.085	14.101	1.00185.81	Al

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ATOM	43214	O1P	URI	1118	262.431	168.183	12.676	1.00138.13	Al6S	ATOM	43267	C6	GUA	1120	256.597	165.203	14.968	1.00139.81	Al
ATOM	43215	O2P	URI	1118	264.268	168.342	14.463	1.00138.13	Al6S	ATOM	43268	O6	GUA	1120	257.153	165.931	15.801	1.00139.81	Al
ATOM	43216	O5	URI	1118	262.470	166.625	14.616	1.00185.81	Al6S	ATOM	43269	C5	GUA	1120	256.320	163.811	15.051	1.00139.81	Al
ATOM	43217	C5	URI	1118	263.286	165.470	14.271	1.00185.81	Al6S	ATOM	43270	N7	GUA	1120	256.579	162.900	16.067	1.00139.81	Al
ATOM	43218	C4	URI	1118	262.796	164.257	15.038	1.00185.81	Al6S	ATOM	43271	C8	GUA	1120	256.126	161.765	15.608	1.00139.81	Al
ATOM	43219	O4	URI	1118	262.978	164.519	16.449	1.00185.81	Al6S	ATOM	43272	C2	GUA	1120	253.563	160.901	13.199	1.00153.07	Al
ATOM	43220	C1	URI	1118	261.845	164.082	17.172	1.00185.81	Al6S	ATOM	43273	C3	GUA	1120	253.601	159.626	13.280	1.00153.07	Al
ATOM	43221	N1	URI	1118	261.288	165.248	17.878	1.00138.13	Al6S	ATOM	43274	O2	GUA	1120	252.469	161.056	11.719	1.00153.07	Al
ATOM	43222	C6	URI	1118	261.445	166.525	17.374	1.00138.13	Al6S	ATOM	43275	O3	GUA	1120	252.600	161.457	11.015	1.00153.07	Al
ATOM	43223	C2	URI	1118	260.623	165.035	19.078	1.00138.13	Al6S	ATOM	43276	P	GUA	1121	252.151	161.809	9.623	1.00152.83	Al
ATOM	43224	O2	URI	1118	260.424	163.922	19.548	1.00138.13	Al6S	ATOM	43277	O1P	GUA	1121	252.942	163.129	8.565	1.00147.75	Al
ATOM	43225	N3	URI	1118	260.194	166.178	19.706	1.00138.13	Al6S	ATOM	43278	O2P	GUA	1121	252.299	163.274	9.815	1.00147.75	Al
ATOM	43226	C4	URI	1118	260.345	167.479	19.266	1.00138.13	Al6S	ATOM	43279	O5	GUA	1121	250.611	161.488	9.363	1.00152.83	Al
ATOM	43227	O4	URI	1118	259.957	168.406	19.976	1.00138.13	Al6S	ATOM	43280	C5	GUA	1121	249.689	161.331	10.462	1.00152.83	Al
ATOM	43228	C5	URI	1118	261.010	167.613	18.008	1.00138.13	Al6S	ATOM	43281	C4	GUA	1121	249.815	162.499	11.404	1.00152.83	Al
ATOM	43229	C2	URI	1118	260.898	163.371	16.200	1.00185.81	Al6S	ATOM	43282	O4	GUA	1121	249.877	163.714	10.632	1.00152.83	Al
ATOM	43230	O2	URI	1118	261.113	161.976	16.277	1.00185.81	Al6S	ATOM	43283	C1	GUA	1121	249.335	164.770	11.388	1.00152.83	Al
ATOM	43231	C3	URI	1118	261.312	163.964	14.854	1.00185.81	Al6S	ATOM	43284	N9	GUA	1121	248.457	165.562	10.537	1.00147.75	Al
ATOM	43232	O3	URI	1118	261.114	162.996	13.823	1.00185.81	Al6S	ATOM	43285	C4	GUA	1121	247.762	166.680	10.915	1.00147.75	Al
ATOM	43233	P	CYT	1119	261.283	163.406	12.273	1.00187.29	Al6S	ATOM	43286	N3	GUA	1121	247.746	167.220	12.153	1.00147.75	Al
ATOM	43234	O1P	CYT	1119	262.685	163.847	12.050	1.00160.91	Al6S	ATOM	43287	C2	GUA	1121	247.006	168.309	12.205	1.00147.75	Al
ATOM	43235	O2P	CYT	1119	260.740	162.279	11.478	1.00160.91	Al6S	ATOM	43288	N2	GUA	1121	246.885	168.981	13.358	1.00147.75	Al
ATOM	43236	O5	CYT	1119	260.327	164.664	12.070	1.00187.29	Al6S	ATOM	43289	N1	GUA	1121	246.331	168.823	11.126	1.00147.75	Al
ATOM	43237	C5	CYT	1119	258.916	164.572	12.327	1.00187.29	Al6S	ATOM	43290	C6	GUA	1121	246.333	168.280	9.841	1.00147.75	Al
ATOM	43238	C4	CYT	1119	258.136	165.280	11.244	1.00187.29	Al6S	ATOM	43291	O6	GUA	1121	245.693	168.827	8.934	1.00147.75	Al
ATOM	43239	O4	CYT	1119	258.535	166.668	11.184	1.00187.29	Al6S	ATOM	43292	C5	GUA	1121	247.123	167.115	9.774	1.00147.75	Al
ATOM	43240	C1	CYT	1119	258.373	167.144	9.864	1.00187.29	Al6S	ATOM	43293	N7	GUA	1121	247.397	166.276	8.702	1.00147.75	Al
ATOM	43241	N1	CYT	1119	259.596	167.858	9.450	1.00160.91	Al6S	ATOM	43294	C8	GUA	1121	248.185	165.365	9.201	1.00147.75	Al
ATOM	43242	C6	CYT	1119	260.834	167.434	9.850	1.00160.91	Al6S	ATOM	43295	C2	GUA	1121	249.569	164.569	13.750	1.00152.83	Al
ATOM	43243	O2	CYT	1119	259.468	168.995	8.633	1.00160.91	Al6S	ATOM	43296	O2	GUA	1121	248.687	162.703	12.399	1.00152.83	Al
ATOM	43244	C2	CYT	1119	258.335	169.362	8.278	1.00160.91	Al6S	ATOM	43297	C3	GUA	1121	248.945	161.882	13.544	1.00152.83	Al
ATOM	43245	N3	CYT	1119	260.580	169.663	8.254	1.00160.91	Al6S	ATOM	43298	O3	GUA	1121	248.377	162.296	14.992	1.00152.83	Al
ATOM	43246	C4	CYT	1119	261.782	169.242	8.654	1.00160.91	Al6S	ATOM	43299	P	CYT	1122	248.104	161.030	15.729	1.00152.83	Al
ATOM	43247	N4	CYT	1119	262.850	169.935	8.255	1.00160.91	Al6S	ATOM	43300	O1P	CYT	1122	247.284	163.295	14.817	1.00152.83	Al
ATOM	43248	C5	CYT	1119	261.942	168.091	9.481	1.00160.91	Al6S	ATOM	43301	O2P	CYT	1122	249.623	163.023	15.679	1.00175.55	Al
ATOM	43249	C2	CYT	1119	257.941	165.977	8.970	1.00187.29	Al6S	ATOM	43302	O5	CYT	1122	250.640	162.266	16.374	1.00175.55	Al
ATOM	43250	O2	CYT	1119	256.554	166.097	8.724	1.00187.29	Al6S	ATOM	43303	C5	CYT	1122	251.739	163.177	16.899	1.00175.55	Al
ATOM	43251	C3	CYT	1119	258.296	164.757	9.823	1.00187.29	Al6S	ATOM	43304	C4	CYT	1122	252.706	163.491	15.862	1.00175.55	Al
ATOM	43252	O3	CYT	1119	257.348	163.711	9.608	1.00187.29	Al6S	ATOM	43305	O4	CYT	1122	253.105	165.638	14.934	1.00175.55	Al
ATOM	43253	P	GUA	1120	257.823	162.271	9.060	1.00153.07	Al6S	ATOM	43306	C1	CYT	1122	253.384	165.222	13.851	1.00115.28	Al
ATOM	43254	O1P	GUA	1120	259.558	162.248	7.597	1.00139.81	Al6S	ATOM	43307	N1	CYT	1122	252.384	165.222	13.851	1.00115.28	Al
ATOM	43255	O2P	GUA	1120	257.185	161.971	9.559	1.00139.81	Al6S	ATOM	43308	C6	CYT	1122	253.699	166.915	14.934	1.00115.28	Al
ATOM	43256	O5	GUA	1120	256.805	161.263	9.764	1.00153.07	Al6S	ATOM	43309	C2	CYT	1122	254.354	167.281	15.924	1.00115.28	Al
ATOM	43257	C5	GUA	1120	255.469	161.698	10.093	1.00153.07	Al6S	ATOM	43310	O2	CYT	1122	252.838	167.294	12.808	1.00115.28	Al
ATOM	43258	C4	GUA	1120	254.869	160.852	11.197	1.00153.07	Al6S	ATOM	43311	N3	CYT	1122	252.716	168.117	11.765	1.00115.28	Al
ATOM	43259	O4	GUA	1120	255.781	160.743	12.318	1.00153.07	Al6S	ATOM	43312	C4	CYT	1122	252.227	166.009	12.779	1.00115.28	Al
ATOM	43260	C1	GUA	1120	255.053	160.781	13.534	1.00153.07	Al6S	ATOM	43313	N4	CYT	1122	252.623	165.332	17.381	1.00175.55	Al
ATOM	43261	N9	GUA	1120	255.592	161.868	14.346	1.00139.81	Al6S	ATOM	43314	C5	CYT	1122	253.464	165.112	18.496	1.00175.55	Al
ATOM	43262	C4	GUA	1120	255.697	163.195	13.988	1.00139.81	Al6S	ATOM	43315	O2	CYT	1122	251.327	164.532	17.451	1.00175.55	Al
ATOM	43263	N3	GUA	1120	255.280	163.739	12.824	1.00139.81	Al6S	ATOM	43316	C2	CYT	1122	250.842	164.469	18.782	1.00175.55	Al
ATOM	43264	C2	GUA	1120	255.537	165.033	12.764	1.00139.81	Al6S	ATOM	43317	C3	CYT	1122	249.875	165.633	19.320	1.00167.37	Al
ATOM	43265	N2	GUA	1120	255.186	165.733	11.676	1.00139.81	Al6S	ATOM	43318	O3	CYT	1122					
ATOM	43266	N1	GUA	1120	256.159	165.739	13.762	1.00139.81	Al6S	ATOM	43319	P	CYT	1123					

ATOM	43320	O1P	CYT	1123	249.607	165.341	20.753	1.00145.82	Al6S	ATOM	43373	C2	GUA	1125	244.787	173.075	13.355	1.00182.47	Al
ATOM	43321	O2P	CYT	1123	248.736	165.763	18.371	1.00145.82	Al6S	ATOM	43374	N2	GUA	1125	244.673	173.301	12.042	1.00182.47	Al
ATOM	43322	O5	CYT	1123	250.762	166.956	19.209	1.00167.37	Al6S	ATOM	43375	N1	GUA	1125	244.839	171.758	13.738	1.00182.47	Al
ATOM	43323	C5	CYT	1123	251.687	167.327	20.256	1.00167.37	Al6S	ATOM	43376	C6	GUA	1125	244.956	171.310	15.049	1.00182.47	Al
ATOM	43324	C4	CYT	1123	251.912	168.824	20.256	1.00167.37	Al6S	ATOM	43377	O6	GUA	1125	244.994	170.096	15.284	1.00182.47	Al
ATOM	43325	O4	CYT	1123	252.722	169.211	19.117	1.00167.37	Al6S	ATOM	43378	C5	GUA	1125	245.017	172.391	15.966	1.00182.47	Al
ATOM	43326	C1	CYT	1123	252.304	170.482	18.643	1.00167.37	Al6S	ATOM	43379	N7	GUA	1125	245.133	172.389	17.349	1.00182.47	Al
ATOM	43327	N1	CYT	1123	251.888	170.349	17.234	1.00145.82	Al6S	ATOM	43380	C8	GUA	1125	245.141	173.653	17.676	1.00182.47	Al
ATOM	43328	C6	CYT	1123	251.396	169.165	16.752	1.00145.82	Al6S	ATOM	43381	C2	GUA	1125	243.583	176.528	16.456	1.0016.42	Al
ATOM	43329	C2	CYT	1123	252.002	171.461	16.388	1.00145.82	Al6S	ATOM	43382	O2	GUA	1125	243.626	177.750	15.738	1.0016.42	Al
ATOM	43330	O2	CYT	1123	252.443	172.524	16.847	1.00145.82	Al6S	ATOM	43383	C3	GUA	1125	243.148	176.691	17.909	1.0016.42	Al
ATOM	43331	N3	CYT	1123	251.626	171.348	15.093	1.00145.82	Al6S	ATOM	43384	O3	GUA	1125	242.126	177.669	18.074	1.0016.42	Al
ATOM	43332	C4	CYT	1123	251.148	170.187	14.635	1.00145.82	Al6S	ATOM	43385	P	GUA	1126	240.583	177.213	18.086	1.00148.14	Al
ATOM	43333	N4	CYT	1123	250.787	170.120	13.351	1.00145.82	Al6S	ATOM	43386	O1P	GUA	1126	239.754	178.421	18.340	1.00184.66	Al
ATOM	43334	C5	CYT	1123	251.018	169.041	15.474	1.00145.82	Al6S	ATOM	43387	O2P	GUA	1126	240.450	176.030	18.979	1.00184.66	Al
ATOM	43335	C2	CYT	1123	251.175	170.978	19.547	1.00167.37	Al6S	ATOM	43388	O5	GUA	1126	240.320	176.740	16.588	1.00148.14	Al
ATOM	43336	O2	CYT	1123	251.687	171.864	20.518	1.00167.37	Al6S	ATOM	43389	C5	GUA	1126	240.381	177.677	15.490	1.00148.14	Al
ATOM	43337	C3	CYT	1123	250.658	169.674	20.138	1.00167.37	Al6S	ATOM	43390	C4	GUA	1126	240.157	176.962	14.175	1.00148.14	Al
ATOM	43338	O3	CYT	1123	250.027	169.866	21.439	1.00167.37	Al6S	ATOM	43391	C1	GUA	1126	241.307	176.136	13.860	1.00148.14	Al
ATOM	43339	P	GUA	1124	248.441	170.083	21.439	1.00109.17	Al6S	ATOM	43392	C1	GUA	1126	240.878	174.931	13.247	1.00148.14	Al
ATOM	43340	O1P	GUA	1124	248.019	169.846	22.845	1.00157.91	Al6S	ATOM	43393	N9	GUA	1126	241.236	173.822	14.127	1.00184.66	Al
ATOM	43341	O2P	GUA	1124	247.821	169.298	20.345	1.00157.91	Al6S	ATOM	43394	C4	GUA	1126	241.267	172.495	13.787	1.00184.66	Al
ATOM	43342	O5	GUA	1124	248.255	171.628	21.098	1.00109.17	Al6S	ATOM	43395	N3	GUA	1126	240.977	171.985	12.573	1.00184.66	Al
ATOM	43343	C5	GUA	1124	248.549	172.627	22.087	1.00109.17	Al6S	ATOM	43396	C2	GUA	1126	241.088	170.671	12.553	1.00184.66	Al
ATOM	43344	C4	GUA	1124	248.495	174.009	21.481	1.00109.17	Al6S	ATOM	43397	N2	GUA	1126	240.826	170.005	11.424	1.00184.66	Al
ATOM	43345	O4	GUA	1124	249.485	174.117	20.429	1.00109.17	Al6S	ATOM	43398	N1	GUA	1126	241.460	169.916	13.639	1.00184.66	Al
ATOM	43346	C1	GUA	1124	249.014	174.995	19.425	1.00109.17	Al6S	ATOM	43399	C6	GUA	1126	241.763	170.422	14.899	1.00184.66	Al
ATOM	43347	N9	GUA	1124	248.987	174.277	18.155	1.00157.91	Al6S	ATOM	43400	C5	GUA	1126	241.643	171.830	14.935	1.00184.66	Al
ATOM	43348	C4	GUA	1124	248.839	174.838	16.909	1.00157.91	Al6S	ATOM	43401	C5	GUA	1126	241.846	172.722	15.977	1.00184.66	Al
ATOM	43349	N3	GUA	1124	248.706	176.154	16.640	1.00157.91	Al6S	ATOM	43402	N7	GUA	1126	241.596	173.890	15.453	1.00184.66	Al
ATOM	43350	C2	GUA	1124	248.573	176.382	15.345	1.00157.91	Al6S	ATOM	43403	C8	GUA	1126	239.063	175.502	11.757	1.00148.14	Al
ATOM	43351	N2	GUA	1124	248.439	177.634	14.896	1.00157.91	Al6S	ATOM	43404	C2	GUA	1126	238.982	175.998	14.156	1.00148.14	Al
ATOM	43352	N1	GUA	1124	248.565	175.400	14.394	1.00157.91	Al6S	ATOM	43405	O2	GUA	1126	237.756	176.649	13.906	1.00148.14	Al
ATOM	43353	C6	GUA	1124	248.699	174.041	14.648	1.00157.91	Al6S	ATOM	43406	C3	GUA	1126	236.543	176.463	14.939	1.00129.76	Al
ATOM	43354	O6	GUA	1124	248.677	173.241	13.714	1.00157.91	Al6S	ATOM	43407	P	CYT	1127	236.615	177.592	15.894	1.00124.90	Al
ATOM	43355	C5	GUA	1124	249.849	173.779	16.030	1.00157.91	Al6S	ATOM	43408	O1P	CYT	1127	236.551	175.068	15.461	1.00124.90	Al
ATOM	43356	N7	GUA	1124	249.090	172.921	17.961	1.00157.91	Al6S	ATOM	43410	O2P	CYT	1127	235.266	176.682	14.017	1.00129.76	Al
ATOM	43357	C8	GUA	1124	247.633	175.502	19.846	1.00109.17	Al6S	ATOM	43411	O5	CYT	1127	234.329	175.620	13.784	1.00129.76	Al
ATOM	43358	C2	GUA	1124	247.768	176.779	20.439	1.00109.17	Al6S	ATOM	43412	C5	CYT	1127	234.768	174.774	12.607	1.00129.76	Al
ATOM	43359	O2	GUA	1124	247.186	174.423	20.828	1.00109.17	Al6S	ATOM	43413	C4	CYT	1127	235.953	174.010	12.951	1.00129.76	Al
ATOM	43360	C3	GUA	1124	246.271	174.933	21.792	1.00109.17	Al6S	ATOM	43414	O4	CYT	1127	235.862	172.703	12.412	1.00129.76	Al
ATOM	43361	O3	GUA	1124	244.700	174.625	21.645	1.00116.42	Al6S	ATOM	43415	C1	CYT	1127	235.946	171.753	13.538	1.00124.90	Al
ATOM	43362	P	GUA	1125	244.007	175.321	22.758	1.00182.47	Al6S	ATOM	43416	N1	CYT	1127	234.884	171.554	14.379	1.00124.90	Al
ATOM	43363	O1P	GUA	1125	244.527	173.159	21.476	1.00182.47	Al6S	ATOM	43417	C6	CYT	1127	237.151	171.071	13.753	1.00124.90	Al
ATOM	43364	O2P	GUA	1125	244.288	175.340	20.281	1.00116.42	Al6S	ATOM	43418	C2	CYT	1127	238.095	171.256	12.970	1.00124.90	Al
ATOM	43365	O5	GUA	1125	244.528	176.749	20.077	1.00116.42	Al6S	ATOM	43419	O2	CYT	1127	237.224	170.064	15.634	1.00124.90	Al
ATOM	43366	C5	GUA	1125	244.441	177.093	18.604	1.00116.42	Al6S	ATOM	43420	N3	CYT	1127	236.383	169.242	16.675	1.00124.90	Al
ATOM	43367	C4	GUA	1125	245.487	176.390	17.880	1.00116.42	Al6S	ATOM	43421	C4	CYT	1127	234.981	170.732	15.432	1.00124.90	Al
ATOM	43368	O4	GUA	1125	244.998	175.961	16.618	1.00116.42	Al6S	ATOM	43422	N4	CYT	1127	234.586	172.628	11.572	1.00129.76	Al
ATOM	43369	C1	GUA	1125	245.034	174.496	16.592	1.00182.47	Al6S	ATOM	43423	C5	CYT	1127	234.922	172.883	10.229	1.00129.76	Al
ATOM	43370	N9	GUA	1125	244.957	173.682	15.479	1.00182.47	Al6S	ATOM	43424	C2	CYT	1127					Al
ATOM	43371	C4	GUA	1125	244.842	174.094	14.198	1.00182.47	Al6S	ATOM	43425	O2	CYT	1127					Al

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ATOM	43426	C3' CYT	1127	233.741	173.740	12.190	1.00129.76	Al6s	ATOM	43479	C6	URI	1130	235.269	164.667	6.295	1.00	89.68	ATOM	
ATOM	43427	O3' CYT	1127	232.834	174.381	11.299	1.00129.76	Al6s	ATOM	43480	C2	URI	1130	236.660	163.021	7.366	1.00	89.68	ATOM	
ATOM	43428	P	1128	231.910	173.511	10.328	1.00130.20	Al6s	ATOM	43481	O2	URI	1130	237.406	162.057	7.346	1.00	89.68	ATOM	
ATOM	43429	O1P ADE	1128	230.721	174.353	10.026	1.00	85.58	Al6s	ATOM	43482	N3	URI	1130	236.317	163.646	8.535	1.00	89.68	ATOM
ATOM	43430	O2P ADE	1128	231.721	172.162	10.936	1.00	85.58	Al6s	ATOM	43483	C4	URI	1130	235.486	164.731	8.682	1.00	89.68	ATOM
ATOM	43431	O5' ADE	1128	232.808	173.380	9.014	1.00130.20	Al6s	ATOM	43484	O4	URI	1130	235.208	165.122	9.816	1.00	89.68	ATOM	
ATOM	43432	C5' ADE	1128	233.035	174.523	8.167	1.00130.20	Al6s	ATOM	43485	C5	URI	1130	234.954	165.252	7.455	1.00	89.68	ATOM	
ATOM	43433	C4' ADE	1128	233.999	174.195	7.041	1.00130.20	Al6s	ATOM	43486	C2' URI	1130	235.419	161.731	4.715	1.00	90.58	ATOM		
ATOM	43434	O4' ADE	1128	235.378	174.297	7.474	1.00130.20	Al6s	ATOM	43487	O2' URI	1130	236.096	160.616	4.168	1.00	90.58	ATOM		
ATOM	43435	C1' ADE	1128	236.194	173.515	6.618	1.00130.20	Al6s	ATOM	43488	C3' URI	1130	234.412	162.352	3.759	1.00	90.58	ATOM		
ATOM	43436	N9 ADE	1128	237.032	172.624	7.419	1.00	85.58	Al6s	ATOM	43489	O3' URI	1130	233.773	161.348	2.999	1.00	90.58	ATOM	
ATOM	43437	C4 ADE	1128	237.947	171.728	6.914	1.00	85.58	Al6s	ATOM	43490	P	CYT	1131	232.370	160.757	3.502	1.00	69.41	ATOM
ATOM	43438	N3 ADE	1128	238.262	171.522	5.620	1.00	85.58	Al6s	ATOM	43491	O1P CYT	1131	232.063	159.594	2.629	1.00	98.99	ATOM	
ATOM	43439	C2 ADE	1128	239.180	170.563	5.507	1.00	85.58	Al6s	ATOM	43492	O2P CYT	1131	231.417	161.889	3.575	1.00	98.99	ATOM	
ATOM	43440	N1 ADE	1128	239.773	169.835	6.466	1.00	85.58	Al6s	ATOM	43493	O5' CYT	1131	232.647	160.252	4.991	1.00	69.41	ATOM	
ATOM	43441	C6 ADE	1128	239.432	170.060	7.756	1.00	85.58	Al6s	ATOM	43494	C5' CYT	1131	233.531	159.149	5.250	1.00	69.41	ATOM	
ATOM	43442	N6 ADE	1128	240.006	169.319	8.709	1.00	85.58	Al6s	ATOM	43495	C4' CYT	1131	233.851	159.073	6.725	1.00	69.41	ATOM	
ATOM	43443	C5 ADE	1128	238.474	171.066	8.013	1.00	85.58	Al6s	ATOM	43496	O4' CYT	1131	234.380	160.355	7.136	1.00	69.41	ATOM	
ATOM	43444	N7 ADE	1128	237.920	171.556	9.191	1.00	85.58	Al6s	ATOM	43497	C1' CYT	1131	233.933	160.667	8.445	1.00	69.41	ATOM	
ATOM	43445	C8 ADE	1128	237.079	172.475	8.785	1.00	85.58	Al6s	ATOM	43498	N1	CYT	1131	233.160	161.930	8.385	1.00	98.99	ATOM
ATOM	43446	C2' ADE	1128	235.276	172.746	5.665	1.00130.20	Al6s	ATOM	43499	C6	CYT	1131	232.749	162.445	7.183	1.00	98.99	ATOM	
ATOM	43447	O2' ADE	1128	235.288	173.385	4.405	1.00130.20	Al6s	ATOM	43500	C2	CYT	1131	232.852	162.600	9.582	1.00	98.99	ATOM	
ATOM	43448	C3' ADE	1128	233.926	172.831	6.374	1.00130.20	Al6s	ATOM	43501	O2	CYT	1131	233.226	162.115	10.663	1.00	98.99	ATOM	
ATOM	43449	O3' ADE	1128	232.853	172.722	5.446	1.00130.20	Al6s	ATOM	43502	N3	CYT	1131	232.153	163.758	9.526	1.00	98.99	ATOM	
ATOM	43450	P	1129	232.126	171.302	5.235	1.00114.18	Al6s	ATOM	43503	C4	CYT	1131	231.761	164.250	8.346	1.00	98.99	ATOM	
ATOM	43451	O1P CYT	1129	231.672	170.808	6.565	1.00	80.48	Al6s	ATOM	43504	N4	CYT	1131	231.073	165.394	8.340	1.00	98.99	ATOM
ATOM	43452	O2P CYT	1129	231.144	171.470	4.137	1.00	80.48	Al6s	ATOM	43505	C5	CYT	1131	232.057	163.590	7.119	1.00	98.99	ATOM
ATOM	43453	O5' CYT	1129	233.293	170.336	4.740	1.00114.18	Al6s	ATOM	43506	C2' CYT	1131	233.138	159.469	9.964	1.00	69.41	ATOM		
ATOM	43454	C5' CYT	1129	233.921	170.518	3.453	1.00114.18	Al6s	ATOM	43507	O2' CYT	1131	233.991	158.633	9.718	1.00	69.41	ATOM		
ATOM	43455	C4' CYT	1129	234.988	169.467	3.240	1.00114.18	Al6s	ATOM	43508	C3' CYT	1131	232.678	158.820	7.664	1.00	69.41	ATOM		
ATOM	43456	O4' CYT	1129	236.087	169.694	4.155	1.00114.18	Al6s	ATOM	43509	O3' CYT	1131	232.433	157.426	7.838	1.00	69.41	ATOM		
ATOM	43457	C1' CYT	1129	236.610	168.453	4.596	1.00114.18	Al6s	ATOM	43510	P	URI	1132	230.942	156.908	8.139	1.00	99.32	ATOM	
ATOM	43458	N1	1129	236.503	168.391	6.063	1.00	80.48	Al6s	ATOM	43511	O1P URI	1132	230.964	155.431	8.017	1.00	78.15	ATOM	
ATOM	43459	C6	1129	235.534	169.096	6.724	1.00	80.48	Al6s	ATOM	43512	O2P URI	1132	229.991	157.707	7.324	1.00	78.15	ATOM	
ATOM	43460	C2	1129	237.414	167.589	6.782	1.00	80.48	Al6s	ATOM	43513	O5' URI	1132	230.702	157.263	9.667	1.00	99.32	ATOM	
ATOM	43461	O2	1129	238.286	166.956	6.162	1.00	80.48	Al6s	ATOM	43514	C5' URI	1132	231.494	156.656	10.701	1.00	99.32	ATOM	
ATOM	43462	N3	1129	237.315	167.528	8.131	1.00	80.48	Al6s	ATOM	43515	C4' URI	1132	231.162	157.288	12.027	1.00	99.32	ATOM	
ATOM	43463	C4	1129	236.358	168.218	8.761	1.00	80.48	Al6s	ATOM	43516	O4' URI	1132	231.528	158.691	11.978	1.00	99.32	ATOM	
ATOM	43464	N4	1129	236.283	168.116	10.087	1.00	80.48	Al6s	ATOM	43517	C1' URI	1132	230.538	159.469	12.630	1.00	99.32	ATOM	
ATOM	43465	C5	1129	235.426	169.040	8.057	1.00	80.48	Al6s	ATOM	43518	N1	URI	1132	230.005	160.450	11.665	1.00	78.15	ATOM
ATOM	43466	C2' CYT	1129	235.840	167.332	3.898	1.00114.18	Al6s	ATOM	43519	C6	URI	1132	230.002	160.201	10.312	1.00	78.15	ATOM	
ATOM	43467	O2' CYT	1129	236.621	166.858	2.823	1.00114.18	Al6s	ATOM	43520	C2	URI	1132	229.516	161.651	12.159	1.00	78.15	ATOM	
ATOM	43468	C3' CYT	1129	234.542	168.038	3.507	1.00114.18	Al6s	ATOM	43521	O2	URI	1132	229.471	161.913	13.351	1.00	78.15	ATOM	
ATOM	43469	O3' CYT	1129	233.917	167.488	2.351	1.00114.18	Al6s	ATOM	43522	N3	URI	1132	229.076	162.537	11.206	1.00	78.15	ATOM	
ATOM	43470	P	1130	232.810	166.333	2.510	1.00	90.58	Al6s	ATOM	43523	C4	URI	1132	229.062	162.355	9.846	1.00	78.15	ATOM
ATOM	43471	O1P URI	1130	231.842	166.724	3.567	1.00	89.68	Al6s	ATOM	43524	O4	URI	1132	228.662	163.264	9.118	1.00	78.15	ATOM
ATOM	43472	O2P URI	1130	232.315	166.040	1.136	1.00	89.68	Al6s	ATOM	43525	C5	URI	1132	229.560	161.088	9.413	1.00	78.15	ATOM
ATOM	43473	O5' URI	1130	233.653	165.091	3.053	1.00	90.58	Al6s	ATOM	43526	C2' URI	1132	229.502	158.512	13.225	1.00	99.32	ATOM	
ATOM	43474	C5' URI	1130	234.582	164.406	2.190	1.00	90.58	Al6s	ATOM	43527	O2' URI	1132	229.834	158.261	14.574	1.00	99.32	ATOM	
ATOM	43475	C4' URI	1130	235.276	163.283	2.925	1.00	90.58	Al6s	ATOM	43528	C3' URI	1132	229.676	157.280	12.345	1.00	99.32	ATOM	
ATOM	43476	O4' URI	1130	236.239	163.809	3.873	1.00	90.58	Al6s	ATOM	43529	O3' URI	1132	229.301	156.063	12.983	1.00	99.32	ATOM	
ATOM	43477	C1' URI	1130	236.388	162.891	4.946	1.00	90.58	Al6s	ATOM	43530	P	ADE	1133	227.931	155.334	12.559	1.00	74.21	ATOM
ATOM	43478	N1	1130	236.092	163.563	6.221	1.00	89.68	Al6s	ATOM	43531	O1P ADE	1133	227.850	154.040	13.305	1.00	83.09	ATOM	

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ATOM	43532	O2P ADE	1133	227.820	155.349	11.079	1.00	83.09	Al6S	ATOM	43585	O2 CYT	1135	218.511	165.804	9.250	1.00	10109.40	Al
ATOM	43533	O5' ADE	1133	226.807	156.304	13.119	1.00	74.21	Al6S	ATOM	43586	N3 CYT	1135	219.614	163.970	8.519	1.00	10109.40	Al
ATOM	43534	C5' ADE	1133	226.737	156.584	14.516	1.00	74.21	Al6S	ATOM	43587	C4 CYT	1135	219.839	162.660	8.650	1.00	10109.40	Al
ATOM	43535	C4' ADE	1133	225.603	157.525	14.797	1.00	74.21	Al6S	ATOM	43588	N4 CYT	1135	220.713	162.089	7.815	1.00	10109.40	Al
ATOM	43536	O4' ADE	1133	225.900	158.836	14.237	1.00	74.21	Al6S	ATOM	43589	C5 CYT	1135	219.180	161.876	9.646	1.00	10109.40	Al
ATOM	43537	C1' ADE	1133	224.762	159.313	13.560	1.00	74.21	Al6S	ATOM	43590	C2' CYT	1135	215.717	164.626	10.473	1.00	86.43	Al
ATOM	43538	N9 ADE	1133	225.174	160.272	12.536	1.00	83.09	Al6S	ATOM	43591	O2' CYT	1135	215.146	165.897	10.707	1.00	86.43	Al
ATOM	43539	C4 ADE	1133	224.986	161.632	12.626	1.00	83.09	Al6S	ATOM	43592	C3' CYT	1135	214.948	163.474	11.112	1.00	86.43	Al
ATOM	43540	N3 ADE	1133	224.408	162.311	13.635	1.00	83.09	Al6S	ATOM	43593	O3' CYT	1135	213.550	163.708	11.069	1.00	86.43	Al
ATOM	43541	C2 ADE	1133	224.396	163.617	13.375	1.00	83.09	Al6S	ATOM	43594	P GUA	1136	212.756	163.493	9.689	1.00	101.37	Al
ATOM	43542	N1 ADE	1133	224.863	164.275	12.304	1.00	83.09	Al6S	ATOM	43595	O1P GUA	1136	211.316	163.765	9.950	1.00	10109.40	Al
ATOM	43543	C6 ADE	1133	225.439	163.566	11.310	1.00	83.09	Al6S	ATOM	43596	O2P GUA	1136	213.165	162.181	9.124	1.00	10109.40	Al
ATOM	43544	N6 ADE	1133	225.906	164.224	10.250	1.00	83.09	Al6S	ATOM	43597	O5' GUA	1136	213.317	164.638	8.734	1.00	101.37	Al
ATOM	43545	C5 ADE	1133	225.511	162.165	11.461	1.00	83.09	Al6S	ATOM	43598	C5' GUA	1136	212.909	165.999	8.914	1.00	101.37	Al
ATOM	43546	N7 ADE	1133	226.019	161.160	10.648	1.00	83.09	Al6S	ATOM	43599	C4' GUA	1136	213.562	166.888	7.887	1.00	101.37	Al
ATOM	43547	C8 ADE	1133	225.796	160.059	11.330	1.00	83.09	Al6S	ATOM	43600	O4' GUA	1136	215.002	166.856	8.057	1.00	101.37	Al
ATOM	43548	C2' ADE	1133	224.032	158.068	13.071	1.00	74.21	Al6S	ATOM	43601	C1' GUA	1136	215.631	167.026	6.796	1.00	101.37	Al
ATOM	43549	O2' ADE	1133	222.683	158.384	12.811	1.00	74.21	Al6S	ATOM	43602	N9 GUA	1136	216.420	165.837	6.491	1.00	10109.40	Al
ATOM	43550	C3' ADE	1133	224.237	157.117	14.254	1.00	74.21	Al6S	ATOM	43603	C4 GUA	1136	217.326	165.721	5.466	1.00	10109.40	Al
ATOM	43551	O3' ADE	1133	223.273	157.352	15.269	1.00	74.21	Al6S	ATOM	43604	N3 GUA	1136	217.670	166.700	4.602	1.00	10109.40	Al
ATOM	43552	P ADE	1134	221.804	156.729	15.136	1.00	79.87	Al6S	ATOM	43605	C2 GUA	1136	218.549	166.287	3.711	1.00	10109.40	Al
ATOM	43553	O1P ADE	1134	221.425	156.279	16.493	1.00	101.51	Al6S	ATOM	43606	N2 GUA	1136	219.008	167.140	2.789	1.00	10109.40	Al
ATOM	43554	O2P ADE	1134	221.791	155.755	14.018	1.00	79.87	Al6S	ATOM	43607	N1 GUA	1136	219.044	165.006	3.661	1.00	10109.40	Al
ATOM	43555	O5' ADE	1134	220.908	157.988	14.725	1.00	79.87	Al6S	ATOM	43608	C6 GUA	1136	218.698	163.978	4.535	1.00	10109.40	Al
ATOM	43556	C5' ADE	1134	220.254	158.777	15.736	1.00	79.87	Al6S	ATOM	43609	O6 GUA	1136	219.189	162.850	4.387	1.00	10109.40	Al
ATOM	43557	C4' ADE	1134	219.713	160.085	15.179	1.00	79.87	Al6S	ATOM	43610	C5 GUA	1136	217.766	164.416	5.511	1.00	10109.40	Al
ATOM	43558	O4' ADE	1134	220.791	160.928	14.710	1.00	79.87	Al6S	ATOM	43611	N7 GUA	1136	217.172	163.732	6.563	1.00	10109.40	Al
ATOM	43559	C1' ADE	1134	220.238	161.955	13.915	1.00	79.87	Al6S	ATOM	43612	C8 GUA	1136	216.387	164.614	7.120	1.00	10109.40	Al
ATOM	43560	N9 ADE	1134	221.058	162.170	12.730	1.00	101.51	Al6S	ATOM	43613	C2' GUA	1136	214.532	167.203	5.750	1.00	10109.40	Al
ATOM	43561	C4 ADE	1134	221.180	163.369	12.069	1.00	101.51	Al6S	ATOM	43614	O2' GUA	1136	214.318	166.581	5.509	1.00	10109.40	Al
ATOM	43562	N3 ADE	1134	220.535	164.537	12.386	1.00	101.51	Al6S	ATOM	43615	C3' GUA	1136	213.356	166.514	6.429	1.00	10109.40	Al
ATOM	43563	C2 ADE	1134	220.937	165.487	11.516	1.00	101.51	Al6S	ATOM	43616	O3' GUA	1136	212.107	166.941	5.913	1.00	10109.40	Al
ATOM	43564	N1 ADE	1134	221.734	165.407	10.445	1.00	101.51	Al6S	ATOM	43617	P GUA	1137	211.428	166.115	4.711	1.00	89.79	Al
ATOM	43565	C6 ADE	1134	222.303	164.218	10.152	1.00	101.51	Al6S	ATOM	43618	O1P GUA	1137	210.014	166.567	4.600	1.00	87.16	Al
ATOM	43566	N6 ADE	1134	223.090	164.136	9.079	1.00	101.51	Al6S	ATOM	43619	C2P GUA	1137	211.724	164.668	4.920	1.00	87.16	Al
ATOM	43567	C5 ADE	1134	222.022	163.128	11.004	1.00	101.51	Al6S	ATOM	43620	O5' GUA	1137	212.202	166.627	3.417	1.00	89.79	Al
ATOM	43568	N7 ADE	1134	222.428	161.801	10.994	1.00	101.51	Al6S	ATOM	43621	C5' GUA	1137	212.259	168.029	3.130	1.00	89.79	Al
ATOM	43569	C8 ADE	1134	221.832	161.279	12.038	1.00	101.51	Al6S	ATOM	43622	C4' GUA	1137	213.253	168.316	2.033	1.00	89.79	Al
ATOM	43570	C2' ADE	1134	218.801	161.568	13.573	1.00	79.87	Al6S	ATOM	43623	O4' GUA	1137	214.590	167.927	2.436	1.00	89.79	Al
ATOM	43571	O2' ADE	1134	217.941	162.382	14.342	1.00	79.87	Al6S	ATOM	43624	C1' GUA	1137	215.338	167.552	1.292	1.00	89.79	Al
ATOM	43572	C3' ADE	1134	218.738	160.105	14.007	1.00	79.87	Al6S	ATOM	43625	N9 GUA	1137	215.875	166.205	1.488	1.00	87.16	Al
ATOM	43573	O3' ADE	1134	217.396	159.817	14.395	1.00	79.87	Al6S	ATOM	43626	C4 GUA	1137	216.731	165.535	0.635	1.00	87.16	Al
ATOM	43574	P CYT	1135	216.250	159.645	13.268	1.00	86.43	Al6S	ATOM	43627	N3 GUA	1137	217.014	166.000	-0.545	1.00	87.16	Al
ATOM	43575	O1P CYT	1135	214.985	159.317	13.980	1.00	10109.40	Al6S	ATOM	43628	C2 GUA	1137	218.013	165.137	-1.127	1.00	87.16	Al
ATOM	43576	O2P CYT	1135	216.762	158.726	12.224	1.00	10109.40	Al6S	ATOM	43629	N2 GUA	1137	218.569	165.442	-2.303	1.00	87.16	Al
ATOM	43577	O5' CYT	1135	216.085	161.091	12.607	1.00	86.43	Al6S	ATOM	43630	N1 GUA	1137	218.340	163.913	-0.597	1.00	87.16	Al
ATOM	43578	C5' CYT	1135	215.362	162.139	13.284	1.00	86.43	Al6S	ATOM	43631	C6 GUA	1137	217.869	163.413	0.615	1.00	87.16	Al
ATOM	43579	C4' CYT	1135	215.489	163.446	12.533	1.00	86.43	Al6S	ATOM	43632	O6 GUA	1137	218.235	162.300	1.007	1.00	87.16	Al
ATOM	43580	O4' CYT	1135	216.891	163.798	12.380	1.00	86.43	Al6S	ATOM	43633	C5 GUA	1137	216.991	164.328	1.250	1.00	87.16	Al
ATOM	43581	C1' CYT	1135	217.072	164.525	11.171	1.00	86.43	Al6S	ATOM	43634	N7 GUA	1137	216.302	164.228	2.452	1.00	87.16	Al
ATOM	43582	N1 CYT	1135	218.061	163.839	10.318	1.00	10109.40	Al6S	ATOM	43635	C8 GUA	1137	215.651	165.357	2.550	1.00	87.16	Al
ATOM	43583	C6 CYT	1135	218.309	162.501	10.451	1.00	10109.40	Al6S	ATOM	43636	C2' GUA	1137	214.422	167.687	0.076	1.00	89.79	Al
ATOM	43584	C2 CYT	1135	218.736	164.589	9.339	1.00	10109.40	Al6S	ATOM	43637	O2' GUA	1137	214.647	168.945	-0.529	1.00	89.79	Al

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ATOM	43638	C3' GUA	1137	213.043	167.604	0.714	1.00	89.79	Al65	ATOM	43691	O4' CYT	1140	206.234	161.393	-7.727	1.00	84.85	Al
ATOM	43639	O3' GUA	1137	212.069	168.263	-0.074	1.00	89.79	Al65	ATOM	43692	C1' CYT	1140	205.945	162.019	-8.961	1.00	84.85	Al
ATOM	43640	P GUA	1138	211.103	167.393	-1.013	1.00	105.85	Al65	ATOM	43693	N1 CYT	1140	207.119	162.800	-9.381	1.00	95.94	Al
ATOM	43641	O1P GUA	1138	210.312	168.338	-1.853	1.00	67.04	Al65	ATOM	43694	C6 CYT	1140	207.088	164.162	-9.318	1.00	95.94	Al
ATOM	43642	O2P GUA	1138	210.398	166.396	-0.148	1.00	67.04	Al65	ATOM	43695	C2 CYT	1140	208.263	162.143	-9.836	1.00	95.94	Al
ATOM	43643	O5' GUA	1138	212.117	166.621	-1.974	1.00	105.85	Al65	ATOM	43696	O2 CYT	1140	208.276	160.909	-9.874	1.00	95.94	Al
ATOM	43644	C5' GUA	1138	212.790	167.313	-3.051	1.00	105.85	Al65	ATOM	43697	N3 CYT	1140	209.333	162.870	-10.215	1.00	95.94	Al
ATOM	43645	C4' GUA	1138	213.600	166.345	-3.888	1.00	105.85	Al65	ATOM	43698	C4 CYT	1140	209.296	164.198	-10.146	1.00	95.94	Al
ATOM	43646	O4' GUA	1138	214.755	165.882	-3.142	1.00	105.85	Al65	ATOM	43699	N4 CYT	1140	210.379	164.873	-10.533	1.00	95.94	Al
ATOM	43647	C1' GUA	1138	215.023	164.529	-3.464	1.00	105.85	Al65	ATOM	43700	C5 CYT	1140	208.146	164.893	-9.681	1.00	95.94	Al
ATOM	43648	N9 GUA	1138	214.815	163.737	-2.257	1.00	67.04	Al65	ATOM	43701	C2' CYT	1140	204.057	160.964	-9.945	1.00	84.85	Al
ATOM	43649	C4 GUA	1138	216.497	162.600	-1.876	1.00	67.04	Al65	ATOM	43702	O2' CYT	1140	204.050	161.206	-10.242	1.00	84.85	Al
ATOM	43650	N3 GUA	1138	216.508	162.006	-2.554	1.00	67.04	Al65	ATOM	43703	C3' CYT	1140	205.691	159.650	-9.201	1.00	84.85	Al
ATOM	43651	C2 GUA	1138	216.962	160.930	-1.922	1.00	67.04	Al65	ATOM	43704	O3' CYT	1140	204.652	158.702	-9.456	1.00	84.85	Al
ATOM	43652	N2 GUA	1138	217.979	160.223	-2.442	1.00	67.04	Al65	ATOM	43705	P URI	1141	204.856	157.563	-10.566	1.00	106.34	Al
ATOM	43653	N1 GUA	1138	216.456	160.470	-0.729	1.00	67.04	Al65	ATOM	43706	O1P URI	1141	204.301	156.308	-10.021	1.00	121.66	Al
ATOM	43654	C6 GUA	1138	215.415	161.061	-0.019	1.00	67.04	Al65	ATOM	43707	O2P URI	1141	206.259	157.589	-11.051	1.00	121.66	Al
ATOM	43655	O6 GUA	1138	215.033	160.563	1.044	1.00	67.04	Al65	ATOM	43708	O5' URI	1141	203.909	158.028	-11.752	1.00	106.34	Al
ATOM	43656	C5 GUA	1138	214.927	162.219	-0.676	1.00	67.04	Al65	ATOM	43709	C5' URI	1141	204.272	157.744	-13.101	1.00	106.34	Al
ATOM	43657	N7 GUA	1138	213.917	163.095	-0.311	1.00	67.04	Al65	ATOM	43710	C4' URI	1141	205.004	158.920	-13.690	1.00	106.34	Al
ATOM	43658	C8 GUA	1138	213.885	163.975	-1.274	1.00	67.04	Al65	ATOM	43711	O4' URI	1141	205.896	158.501	-14.728	1.00	106.34	Al
ATOM	43659	C2' GUA	1138	214.052	164.127	-4.573	1.00	105.85	Al65	ATOM	43712	C1' URI	1141	206.252	159.643	-15.461	1.00	106.34	Al
ATOM	43660	O2' GUA	1138	214.661	164.370	-5.825	1.00	105.85	Al65	ATOM	43713	N1 URI	1141	206.828	159.203	-16.749	1.00	121.66	Al
ATOM	43661	C3' GUA	1138	212.890	165.072	-4.312	1.00	105.85	Al65	ATOM	43714	C6 URI	1141	207.027	157.884	-16.944	1.00	121.66	Al
ATOM	43662	O3' GUA	1138	212.662	165.268	-5.447	1.00	105.85	Al65	ATOM	43715	C2 URI	1141	207.027	160.140	-17.756	1.00	121.66	Al
ATOM	43663	P GUA	1139	210.541	164.749	-5.411	1.00	92.67	Al65	ATOM	43716	O2 URI	1141	206.712	161.310	-17.652	1.00	121.66	Al
ATOM	43664	O1P ADE	1139	209.712	165.824	-6.012	1.00	104.45	Al65	ATOM	43717	N3 URI	1141	207.613	159.649	-18.897	1.00	121.66	Al
ATOM	43665	O2P ADE	1139	210.227	164.252	-4.044	1.00	104.45	Al65	ATOM	43718	C4 URI	1141	208.010	158.351	-19.141	1.00	121.66	Al
ATOM	43666	O5' ADE	1139	210.528	163.491	-6.388	1.00	92.67	Al65	ATOM	43719	O4 URI	1141	208.577	158.079	-20.201	1.00	121.66	Al
ATOM	43667	C5' ADE	1139	209.333	162.703	-6.576	1.00	92.67	Al65	ATOM	43720	C5 URI	1141	207.755	157.443	-18.070	1.00	106.34	Al
ATOM	43668	C4' ADE	1139	209.694	161.320	-7.067	1.00	92.67	Al65	ATOM	43721	C2' URI	1141	204.997	160.536	-15.489	1.00	106.34	Al
ATOM	43669	O4' ADE	1139	210.434	161.449	-8.303	1.00	92.67	Al65	ATOM	43722	O2' URI	1141	205.330	161.907	-15.401	1.00	106.34	Al
ATOM	43670	C1' ADE	1139	211.691	160.828	-8.179	1.00	92.67	Al65	ATOM	43723	C3' URI	1141	204.156	160.032	-14.295	1.00	106.34	Al
ATOM	43671	N9 ADE	1139	212.656	161.621	-8.940	1.00	104.45	Al65	ATOM	43724	O3' URI	1141	203.940	161.010	-13.263	1.00	106.34	Al
ATOM	43672	C4 ADE	1139	213.761	161.146	-9.605	1.00	104.45	Al65	ATOM	43725	P GUA	1142	202.865	162.200	-13.462	1.00	92.23	Al
ATOM	43673	N3 ADE	1139	214.194	159.876	-9.666	1.00	104.45	Al65	ATOM	43726	O1P GUA	1142	201.799	161.995	-12.454	1.00	103.99	Al
ATOM	43674	C2 ADE	1139	215.287	159.794	-10.412	1.00	104.45	Al65	ATOM	43727	O2P GUA	1142	202.495	162.344	-14.901	1.00	92.23	Al
ATOM	43675	N1 ADE	1139	215.945	160.764	-11.059	1.00	104.45	Al65	ATOM	43728	O5' GUA	1142	203.698	163.488	-13.034	1.00	92.23	Al
ATOM	43676	C6 ADE	1139	215.481	162.027	-10.976	1.00	104.45	Al65	ATOM	43729	C5' GUA	1142	203.154	164.468	-12.140	1.00	92.23	Al
ATOM	43677	N6 ADE	1139	216.133	162.995	-11.620	1.00	104.45	Al65	ATOM	43730	O4' GUA	1142	204.041	165.691	-12.104	1.00	92.23	Al
ATOM	43678	C5 ADE	1139	214.333	162.247	-10.214	1.00	104.45	Al65	ATOM	43731	C4' GUA	1142	205.311	165.364	-11.477	1.00	92.23	Al
ATOM	43679	N7 ADE	1139	213.616	163.397	-9.928	1.00	104.45	Al65	ATOM	43732	C1' GUA	1142	206.347	166.132	-12.074	1.00	92.23	Al
ATOM	43680	C8 ADE	1139	212.638	162.975	-9.167	1.00	104.45	Al65	ATOM	43733	N9 GUA	1142	207.331	165.227	-12.667	1.00	103.99	Al
ATOM	43681	C2' ADE	1139	211.968	160.709	-6.681	1.00	92.67	Al65	ATOM	43734	C4 GUA	1142	208.476	165.600	-13.341	1.00	103.99	Al
ATOM	43682	O2' ADE	1139	212.827	159.622	-6.407	1.00	92.67	Al65	ATOM	43735	N3 GUA	1142	208.893	166.867	-13.560	1.00	103.99	Al
ATOM	43683	C3' ADE	1139	210.563	160.488	-6.129	1.00	92.67	Al65	ATOM	43736	C2 GUA	1142	210.021	166.905	-14.244	1.00	103.99	Al
ATOM	43684	O3' ADE	1139	210.241	159.106	-6.288	1.00	92.67	Al65	ATOM	43737	N2 GUA	1142	210.580	168.086	-14.542	1.00	103.99	Al
ATOM	43685	P CYT	1140	208.797	158.555	-5.844	1.00	84.85	Al65	ATOM	43738	N1 GUA	1142	210.684	165.789	-14.685	1.00	103.99	Al
ATOM	43686	O1P CYT	1140	208.465	159.183	-4.535	1.00	95.94	Al65	ATOM	43739	C6 GUA	1142	210.271	164.548	-14.475	1.00	103.99	Al
ATOM	43687	O2P CYT	1140	208.846	157.073	-5.954	1.00	95.94	Al65	ATOM	43740	O5 GUA	1142	210.936	163.476	-14.924	1.00	103.99	Al
ATOM	43688	O5' CYT	1140	207.798	159.116	-6.963	1.00	84.85	Al65	ATOM	43741	C6 GUA	1142	209.069	164.421	-13.736	1.00	103.99	Al
ATOM	43689	C5' CYT	1140	206.376	159.177	-6.717	1.00	84.85	Al65	ATOM	43742	N7 GUA	1142	208.325	163.328	-13.311	1.00	103.99	Al
ATOM	43690	C4' CYT	1140	205.668	160.063	-7.733	1.00	84.85	Al65	ATOM	43743	C8 GUA	1142	207.306	163.852	-12.683	1.00	103.99	Al

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ATOM	43744	C2'	GUU	1142	205.711	167.034	-13.131	1.00	92.23	Al6S	ATOM	43797	C6	CYT	1145	207.157	166.013	-25.701	1.00140.31	Al6S
ATOM	43745	O2'	GUU	1142	205.484	168.320	-12.588	1.00	92.23	Al6S	ATOM	43798	C2	CYT	1145	207.784	163.971	-26.811	1.00140.31	Al6S
ATOM	43746	C3'	GUU	1142	204.432	166.274	-13.454	1.00	92.23	Al6S	ATOM	43799	O2	CYT	1145	208.235	163.406	-27.821	1.00140.31	Al6S
ATOM	43747	O3'	GUU	1142	203.434	167.110	-14.021	1.00	92.23	Al6S	ATOM	43800	N3	CYT	1145	207.450	163.274	-25.701	1.00140.31	Al6S
ATOM	43748	P	CYT	1143	203.335	167.245	-15.619	1.00107.83	Al6S	ATOM	43801	C4	CYT	1145	206.982	163.914	-24.627	1.00140.31	Al6S	
ATOM	43749	O1P	CYT	1143	202.186	168.135	-15.912	1.00126.15	Al6S	ATOM	43802	N4	CYT	1145	206.651	163.183	-23.562	1.00140.31	Al6S	
ATOM	43750	O2P	CYT	1143	203.376	165.884	-16.210	1.00126.15	Al6S	ATOM	43803	C5	CYT	1145	206.830	165.331	-24.597	1.00140.31	Al6S	
ATOM	43751	O5'	CYT	1143	204.674	168.009	-16.023	1.00107.83	Al6S	ATOM	43804	C2'	CYT	1145	206.843	165.948	-29.121	1.00127.98	Al6S	
ATOM	43752	C5'	CYT	1143	204.853	169.411	-15.713	1.00107.83	Al6S	ATOM	43805	O2'	CYT	1145	207.446	165.862	-30.397	1.00127.98	Al6S	
ATOM	43753	C4'	CYT	1143	206.008	169.984	-16.506	1.00107.83	Al6S	ATOM	43806	C3'	CYT	1145	206.009	167.213	-28.924	1.00127.98	Al6S	
ATOM	43754	O4'	CYT	1143	207.249	169.383	-16.049	1.00107.83	Al6S	ATOM	43807	O3'	CYT	1145	205.282	167.580	-30.095	1.00127.98	Al6S	
ATOM	43755	C1'	CYT	1143	208.113	169.173	-17.156	1.00107.83	Al6S	ATOM	43808	P	GUU	1146	203.799	166.994	-30.331	1.00130.42	Al6S	
ATOM	43756	N1	CYT	1143	208.367	167.721	-17.286	1.00126.15	Al6S	ATOM	43809	O1P	GUU	1146	203.275	167.591	-31.589	1.00130.11	Al6S	
ATOM	43757	C6	CYT	1143	207.609	166.810	-16.599	1.00126.15	Al6S	ATOM	43810	O2P	GUU	1146	203.021	167.136	-29.072	1.00130.11	Al6S	
ATOM	43758	C2	CYT	1143	209.408	167.280	-18.129	1.00126.15	Al6S	ATOM	43811	O5'	GUU	1146	204.039	165.445	-30.600	1.00130.42	Al6S	
ATOM	43759	O2	CYT	1143	210.070	168.117	-18.767	1.00126.15	Al6S	ATOM	43812	C5'	GUU	1146	204.771	165.011	-31.756	1.00130.42	Al6S	
ATOM	43760	N3	CYT	1143	209.658	165.955	-18.229	1.00126.15	Al6S	ATOM	43813	C4'	GUU	1146	204.817	163.506	-31.809	1.00130.42	Al6S	
ATOM	43761	C4	CYT	1143	208.918	165.081	-17.542	1.00126.15	Al6S	ATOM	43814	O4'	GUU	1146	205.674	162.989	-30.757	1.00130.42	Al6S	
ATOM	43762	N4	CYT	1143	209.213	163.786	-17.661	1.00126.15	Al6S	ATOM	43815	C1'	GUU	1146	205.169	161.741	-30.300	1.00130.11	Al6S	
ATOM	43763	C5	CYT	1143	207.847	165.496	-16.698	1.00126.15	Al6S	ATOM	43816	N9	GUU	1146	204.867	161.836	-28.873	1.00130.11	Al6S	
ATOM	43764	C2'	CYT	1143	207.442	169.771	-18.396	1.00107.83	Al6S	ATOM	43817	C4	GUU	1146	204.715	160.774	-28.012	1.00130.11	Al6S	
ATOM	43765	O2'	CYT	1143	207.894	171.094	-18.606	1.00107.83	Al6S	ATOM	43818	N3	GUU	1146	204.854	159.469	-28.333	1.00130.11	Al6S	
ATOM	43766	C3'	CYT	1143	205.972	169.717	-18.007	1.00107.83	Al6S	ATOM	43819	C2	GUU	1146	204.626	158.679	-27.301	1.00130.11	Al6S	
ATOM	43767	O3'	CYT	1143	205.203	170.679	-18.725	1.00107.83	Al6S	ATOM	43820	N2	GUU	1146	204.735	157.353	-27.448	1.00130.11	Al6S	
ATOM	43768	P	CYT	1144	204.569	170.286	-20.150	1.00136.01	Al6S	ATOM	43821	N1	GUU	1146	204.280	159.133	-26.050	1.00130.11	Al6S	
ATOM	43769	O1P	CYT	1144	203.749	171.438	-20.610	1.00144.69	Al6S	ATOM	43822	C6	GUU	1146	203.132	160.471	-25.695	1.00130.11	Al6S	
ATOM	43770	O2P	CYT	1144	203.940	168.948	-20.011	1.00144.69	Al6S	ATOM	43823	O6	GUU	1146	203.815	160.770	-24.539	1.00130.11	Al6S	
ATOM	43771	O5'	CYT	1144	205.830	170.135	-21.117	1.00136.01	Al6S	ATOM	43824	C5	GUU	1146	204.382	161.332	-26.795	1.00130.11	Al6S	
ATOM	43772	C5'	CYT	1144	206.494	171.292	-21.673	1.00136.01	Al6S	ATOM	43825	N7	GUU	1146	204.346	162.718	-26.881	1.00130.11	Al6S	
ATOM	43773	C4'	CYT	1144	207.461	170.873	-22.761	1.00136.01	Al6S	ATOM	43826	C8	GUU	1146	204.645	162.972	-28.127	1.00130.11	Al6S	
ATOM	43774	O4'	CYT	1144	208.533	170.086	-22.181	1.00136.01	Al6S	ATOM	43827	C2'	GUU	1146	203.909	161.426	-31.108	1.00130.42	Al6S	
ATOM	43775	C1'	CYT	1144	208.904	169.049	-23.076	1.00136.01	Al6S	ATOM	43828	O2'	GUU	1146	204.216	160.545	-32.171	1.00130.42	Al6S	
ATOM	43776	N1	CYT	1144	208.680	167.752	-22.409	1.00144.69	Al6S	ATOM	43829	C3'	GUU	1146	203.490	162.814	-31.572	1.00130.42	Al6S	
ATOM	43777	C6	CYT	1144	207.820	167.646	-21.348	1.00144.69	Al6S	ATOM	43830	O3'	GUU	1146	202.664	162.796	-32.717	1.00130.42	Al6S	
ATOM	43778	C2	CYT	1144	209.359	166.620	-22.882	1.00144.69	Al6S	ATOM	43831	P	CYT	1147	201.072	162.801	-32.526	1.00141.45	Al6S	
ATOM	43779	O2	CYT	1144	210.133	166.737	-23.848	1.00144.69	Al6S	ATOM	43832	O1P	CYT	1147	200.464	163.040	-33.865	1.00105.35	Al6S	
ATOM	43780	N3	CYT	1144	209.151	165.428	-22.277	1.00144.69	Al6S	ATOM	43833	O2P	CYT	1147	200.751	163.723	-31.397	1.00105.35	Al6S	
ATOM	43781	C4	CYT	1144	208.310	165.340	-21.243	1.00144.69	Al6S	ATOM	43834	O5'	CYT	1147	200.983	160.204	-32.076	1.00141.45	Al6S	
ATOM	43782	N4	CYT	1144	208.139	164.146	-20.675	1.00144.69	Al6S	ATOM	43835	C5'	CYT	1147	200.691	158.882	-32.310	1.00141.45	Al6S	
ATOM	43783	C5	CYT	1144	207.607	166.472	-20.744	1.00144.69	Al6S	ATOM	43836	C4'	CYT	1147	200.691	158.882	-32.310	1.00141.45	Al6S	
ATOM	43784	C2'	CYT	1144	208.076	169.201	-24.354	1.00136.01	Al6S	ATOM	43837	O4'	CYT	1147	201.637	158.666	-31.229	1.00141.45	Al6S	
ATOM	43785	O2'	CYT	1144	208.833	169.871	-25.341	1.00136.01	Al6S	ATOM	43838	C1'	CYT	1147	201.008	157.940	-30.184	1.00141.45	Al6S	
ATOM	43786	C3'	CYT	1144	206.870	169.990	-23.851	1.00136.01	Al6S	ATOM	43839	N1	CYT	1147	201.008	157.940	-30.184	1.00141.45	Al6S	
ATOM	43787	O3'	CYT	1144	206.257	170.760	-24.879	1.00136.01	Al6S	ATOM	43840	C6	CYT	1147	200.786	160.116	-29.018	1.00105.35	Al6S	
ATOM	43788	P	CYT	1145	205.061	170.124	-25.742	1.00127.98	Al6S	ATOM	43841	C2	CYT	1147	201.212	158.137	-27.716	1.00105.35	Al6S	
ATOM	43789	O1P	CYT	1145	204.519	171.192	-26.624	1.00140.31	Al6S	ATOM	43842	O2	CYT	1147	201.444	156.917	-27.685	1.00105.35	Al6S	
ATOM	43790	O2P	CYT	1145	204.152	169.418	-24.803	1.00140.31	Al6S	ATOM	43843	N3	CYT	1147	201.154	158.877	-26.585	1.00105.35	Al6S	
ATOM	43791	O5'	CYT	1145	205.786	169.039	-26.655	1.00127.98	Al6S	ATOM	43844	C4	CYT	1147	200.909	160.187	-26.656	1.00105.35	Al6S	
ATOM	43792	C5'	CYT	1145	206.580	169.446	-27.776	1.00127.98	Al6S	ATOM	43845	N4	CYT	1147	200.831	160.869	-25.512	1.00105.35	Al6S	
ATOM	43793	C4'	CYT	1145	207.062	168.243	-28.545	1.00127.98	Al6S	ATOM	43846	C5	CYT	1147	200.725	160.855	-27.903	1.00105.35	Al6S	
ATOM	43794	O4'	CYT	1145	208.024	167.502	-27.750	1.00127.98	Al6S	ATOM	43847	C2'	CYT	1147	199.581	157.622	-30.634	1.00141.45	Al6S	
ATOM	43795	C1'	CYT	1145	207.929	166.118	-28.054	1.00127.98	Al6S	ATOM	43848	O2'	CYT	1147	199.528	156.321	-31.190	1.00141.45	Al6S	
ATOM	43796	N1	CYT	1145	207.618	165.370	-26.818	1.00140.31	Al6S	ATOM	43849	C3'	CYT	1147	199.326	158.726	-31.654	1.00141.45	Al6S	

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ATOM	43850	O3' CYT	1147	198.290	158.391	-32.573	1.00141.45	Al6S	ATOM	43903	C1' ADE	1150	192.302	155.924	-20.867	1.0083.76	Al
ATOM	43851	P	1148	196.759	158.759	-32.217	1.00143.23	Al6S	ATOM	43904	N9 ADE	1150	192.892	155.327	-22.067	1.0081.47	Al
ATOM	43852	O1P GUA	1148	195.907	158.154	-33.276	1.0085.28	Al6S	ATOM	43905	C3 ADE	1150	193.255	154.016	-22.259	1.0081.47	Al
ATOM	43853	O2P GUA	1148	196.637	160.219	-31.915	1.0085.28	Al6S	ATOM	43906	N3 ADE	1150	193.175	153.007	-21.379	1.0081.47	Al
ATOM	43854	O5' GUA	1148	196.486	157.962	-30.867	1.00143.23	Al6S	ATOM	43907	C2 ADE	1150	193.598	151.872	-21.926	1.0081.47	Al
ATOM	43855	C5' GUA	1148	196.458	156.527	-30.859	1.00143.23	Al6S	ATOM	43908	N1 ADE	1150	194.051	151.644	-23.161	1.0081.47	Al
ATOM	43856	C4' GUA	1148	196.088	156.016	-29.489	1.00143.23	Al6S	ATOM	43909	C6 ADE	1150	194.113	152.677	-24.024	1.0081.47	Al
ATOM	43857	O4' GUA	1148	197.164	156.285	-28.549	1.00143.23	Al6S	ATOM	43910	N6 ADE	1150	194.540	152.445	-25.267	1.0081.47	Al
ATOM	43858	C1' GUA	1148	196.623	156.548	-27.263	1.00143.23	Al6S	ATOM	43911	C5 ADE	1150	193.709	153.939	-23.561	1.0081.47	Al
ATOM	43859	N9 GUA	1148	196.934	157.929	-26.899	1.0085.28	Al6S	ATOM	43912	N7 ADE	1150	193.661	155.182	-24.171	1.0081.47	Al
ATOM	43860	C4 GUA	1148	197.057	158.433	-25.625	1.0085.28	Al6S	ATOM	43913	C8 ADE	1150	193.327	156.265	-23.245	1.0083.76	Al
ATOM	43861	N3 GUA	1148	197.090	158.501	-23.412	1.0085.28	Al6S	ATOM	43914	C2' ADE	1150	192.740	156.104	-18.512	1.0083.76	Al
ATOM	43862	C2 GUA	1148	197.090	158.501	-23.412	1.0085.28	Al6S	ATOM	43915	O2' ADE	1150	193.639	157.719	-20.102	1.0083.76	Al
ATOM	43863	N2 GUA	1148	197.028	157.966	-22.192	1.0085.28	Al6S	ATOM	43916	C3' ADE	1150	194.054	158.426	-18.947	1.0083.76	Al
ATOM	43864	N1 GUA	1148	197.281	159.854	-23.464	1.0085.28	Al6S	ATOM	43917	O3' ADE	1150	194.054	158.426	-18.947	1.0083.76	Al
ATOM	43865	C6 GUA	1148	197.380	160.601	-24.631	1.0085.28	Al6S	ATOM	43918	P	1151	195.617	158.532	-18.600	1.0071.04	Al
ATOM	43866	O6 GUA	1148	197.552	161.822	-24.566	1.0085.28	Al6S	ATOM	43919	O1P ADE	1151	195.763	159.419	-17.419	1.0085.07	Al
ATOM	43867	C5 GUA	1148	197.255	159.787	-25.785	1.0085.28	Al6S	ATOM	43920	O2P ADE	1151	196.331	158.866	-19.857	1.0085.07	Al
ATOM	43868	N7 GUA	1148	197.292	160.124	-27.131	1.0085.28	Al6S	ATOM	43921	O5' ADE	1151	196.027	157.061	-18.143	1.0071.04	Al
ATOM	43869	C8 GUA	1148	197.108	158.992	-27.753	1.0085.28	Al6S	ATOM	43922	C5' ADE	1151	195.676	156.559	-16.834	1.0071.04	Al
ATOM	43870	C2' GUA	1148	195.108	156.372	-27.367	1.00143.23	Al6S	ATOM	43923	C4' ADE	1151	195.910	155.066	-16.766	1.0071.04	Al
ATOM	43871	O2' GUA	1148	194.754	155.051	-27.007	1.00143.23	Al6S	ATOM	43924	O4' ADE	1151	195.171	154.449	-17.851	1.0071.04	Al
ATOM	43872	C3' GUA	1148	194.874	156.658	-28.843	1.00143.23	Al6S	ATOM	43925	C1' ADE	1151	195.922	153.379	-18.399	1.0071.04	Al
ATOM	43873	O3' GUA	1148	193.636	156.163	-29.320	1.00143.23	Al6S	ATOM	43926	N9 ADE	1151	196.211	152.814	-20.799	1.0085.07	Al
ATOM	43874	P	1149	192.419	157.191	-29.530	1.00111.16	Al6S	ATOM	43927	C4 ADE	1151	196.557	152.814	-20.799	1.0085.07	Al
ATOM	43875	O1P ADE	1149	192.419	157.191	-29.530	1.00111.16	Al6S	ATOM	43928	N3 ADE	1151	196.705	151.483	-20.697	1.0085.07	Al
ATOM	43876	O2P ADE	1149	192.877	158.248	-30.463	1.0092.75	Al6S	ATOM	43929	C2 ADE	1151	197.046	150.958	-21.870	1.0085.07	Al
ATOM	43877	O5' ADE	1149	192.232	157.852	-28.090	1.00111.16	Al6S	ATOM	43930	N1 ADE	1151	197.242	151.565	-23.046	1.0085.07	Al
ATOM	43878	C5' ADE	1149	191.331	158.962	-27.876	1.00111.16	Al6S	ATOM	43931	C6 ADE	1151	197.088	152.904	-23.116	1.0085.07	Al
ATOM	43879	C4' ADE	1149	190.584	158.775	-26.572	1.00111.16	Al6S	ATOM	43932	N5 ADE	1151	197.286	153.512	-24.291	1.0085.07	Al
ATOM	43880	O4' ADE	1149	189.776	157.579	-26.683	1.00111.16	Al6S	ATOM	43933	C6 ADE	1151	196.725	153.580	-21.939	1.0085.07	Al
ATOM	43881	C1' ADE	1149	189.813	156.855	-25.467	1.00111.16	Al6S	ATOM	43934	N7 ADE	1151	196.490	154.919	-21.671	1.0085.07	Al
ATOM	43882	N9 ADE	1149	190.389	155.540	-25.749	1.0092.75	Al6S	ATOM	43935	C8 ADE	1151	196.193	154.936	-20.396	1.0085.07	Al
ATOM	43883	C4 ADE	1149	190.052	154.472	-24.888	1.0092.75	Al6S	ATOM	43936	C2' ADE	1151	197.073	154.556	-15.728	1.0071.04	Al
ATOM	43884	N3 ADE	1149	190.267	153.220	-23.095	1.0092.75	Al6S	ATOM	43937	O2' ADE	1151	196.938	152.236	-16.537	1.0071.04	Al
ATOM	43885	C2 ADE	1149	190.804	152.138	-23.669	1.0092.75	Al6S	ATOM	43938	C3' ADE	1151	197.351	154.604	-16.958	1.0071.04	Al
ATOM	43886	N1 ADE	1149	190.804	152.138	-23.669	1.0092.75	Al6S	ATOM	43939	O3' ADE	1151	198.073	154.556	-15.728	1.0071.04	Al
ATOM	43887	C6 ADE	1149	191.210	152.221	-24.954	1.0092.75	Al6S	ATOM	43940	P	1152	199.537	155.222	-15.627	1.00100.77	Al
ATOM	43888	N6 ADE	1149	191.752	151.145	-25.526	1.0092.75	Al6S	ATOM	43941	O1P GUA	1152	200.158	154.705	-14.384	1.0083.61	Al
ATOM	43889	C5 ADE	1149	191.038	153.445	-25.612	1.0092.75	Al6S	ATOM	43942	O2P GUA	1152	200.317	155.246	-20.917	1.0083.61	Al
ATOM	43890	N7 ADE	1149	191.343	153.860	-26.898	1.0092.75	Al6S	ATOM	43943	O5' GUA	1152	200.399	156.687	-15.821	1.0083.61	Al
ATOM	43891	C8 ADE	1149	190.945	155.106	-26.928	1.0092.75	Al6S	ATOM	43944	C5' GUA	1152	200.341	154.639	-16.875	1.00100.77	Al
ATOM	43892	C2' ADE	1149	190.600	157.677	-24.446	1.00111.16	Al6S	ATOM	43945	C5' GUA	1152	200.535	153.222	-17.031	1.00100.77	Al
ATOM	43893	O2' ADE	1149	189.704	158.415	-23.641	1.00111.16	Al6S	ATOM	43946	O4' GUA	1152	200.767	152.868	-18.486	1.00100.77	Al
ATOM	43894	C3' ADE	1149	191.466	158.545	-25.351	1.00111.16	Al6S	ATOM	43947	C1' GUA	1152	199.823	153.601	-19.312	1.00100.77	Al
ATOM	43895	O3' ADE	1149	191.824	159.772	-24.726	1.00111.16	Al6S	ATOM	43948	N9 GUA	1152	200.388	153.827	-20.591	1.00100.77	Al
ATOM	43896	P	1150	193.272	159.925	-24.042	1.0083.76	Al6S	ATOM	43949	C1' GUA	1152	200.317	155.246	-20.917	1.0083.61	Al
ATOM	43897	O1P ADE	1150	193.402	161.337	-23.578	1.0081.47	Al6S	ATOM	43948	N9 GUA	1152	200.356	155.776	-22.182	1.0083.61	Al
ATOM	43898	O2P ADE	1150	194.276	159.368	-24.995	1.0081.47	Al6S	ATOM	43950	N3 GUA	1152	200.475	155.073	-23.329	1.0083.61	Al
ATOM	43899	O5' ADE	1150	193.196	158.997	-22.744	1.0083.76	Al6S	ATOM	43951	C2 GUA	1152	200.468	155.858	-24.397	1.0083.61	Al
ATOM	43900	C5' ADE	1150	192.416	158.997	-22.744	1.0083.76	Al6S	ATOM	43952	N2 GUA	1152	200.574	155.316	-25.627	1.0083.61	Al
ATOM	43901	C4' ADE	1150	192.311	158.254	-20.607	1.0083.76	Al6S	ATOM	43953	N1 GUA	1152	200.355	157.230	-24.339	1.0083.61	Al
ATOM	43902	O4' ADE	1150	192.416	158.254	-20.607	1.0083.76	Al6S	ATOM	43954	C6 GUA	1152	200.233	157.974	-23.169	1.0083.61	Al
ATOM	43902	O4' ADE	1150	191.672	157.129	-21.260	1.0083.76	Al6S	ATOM	43955	O6 GUA	1152	200.135	159.204	-23.231	1.0083.61	Al

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ATOM	43956	C5	GUA	1152	200.238	157.138	-22.014	1.00	83.61	Al6S	ATOM	44009	O5' GUA	1155	213.062	156.118	-25.988	1.00	113.62	Al
ATOM	43957	N7	GUA	1152	200.139	157.460	-20.667	1.00	83.61	Al6S	ATOM	44010	C5' GUA	1155	213.345	156.447	-27.361	1.00	113.62	Al
ATOM	43958	C8	GUA	1152	200.194	156.308	-20.054	1.00	83.61	Al6S	ATOM	44011	C4' GUA	1155	213.214	157.935	-27.600	1.00	113.62	Al
ATOM	43959	C2' GUA	1152	201.814	153.284	-20.588	1.00	100.77	Al6S	ATOM	44012	O4' GUA	1155	211.832	158.350	-27.431	1.00	113.62	Al	
ATOM	43960	O2' GUA	1152	201.812	152.026	-21.227	1.00	100.77	Al6S	ATOM	44013	C1' GUA	1155	211.793	159.698	-26.981	1.00	113.62	Al	
ATOM	43961	C3' GUA	1152	202.121	153.206	-19.094	1.00	100.77	Al6S	ATOM	44014	N9	1155	211.134	159.760	-25.680	1.00	110.01	Al	
ATOM	43962	O3' GUA	1152	203.094	152.199	-18.829	1.00	100.77	Al6S	ATOM	44015	C4	1155	210.691	160.905	-25.069	1.00	110.01	Al	
ATOM	43963	P	CYT	1153	204.625	152.446	-19.254	1.00	118.52	Al6S	ATOM	44016	N3	1155	210.735	162.147	-25.597	1.00	110.01	Al
ATOM	43964	O1P	CYT	1153	205.425	151.331	-18.685	1.00	82.86	Al6S	ATOM	44017	C2	1155	210.272	163.053	-24.759	1.00	110.01	Al
ATOM	43965	O2P	CYT	1153	204.968	153.848	-18.935	1.00	82.86	Al6S	ATOM	44018	N2	1155	210.240	164.344	-25.129	1.00	110.01	Al
ATOM	43966	O5' CYT	1153	204.607	152.342	-20.843	1.00	118.52	Al6S	ATOM	44019	N1	1155	209.805	162.762	-23.499	1.00	110.01	Al	
ATOM	43967	C5' CYT	1153	204.622	151.069	-21.515	1.00	118.52	Al6S	ATOM	44020	C6	1155	209.754	161.490	-22.935	1.00	110.01	Al	
ATOM	43968	C4' CYT	1153	204.970	151.262	-22.971	1.00	118.52	Al6S	ATOM	44021	O6	1155	209.328	161.339	-21.783	1.00	110.01	Al	
ATOM	43969	O4' CYT	1153	203.919	152.030	-23.615	1.00	118.52	Al6S	ATOM	44022	C5	1155	210.240	160.508	-23.828	1.00	110.01	Al	
ATOM	43970	C1' CYT	1153	204.486	152.912	-24.573	1.00	118.52	Al6S	ATOM	44023	N7	1155	210.359	159.133	-23.676	1.00	110.01	Al	
ATOM	43971	N1	CYT	1153	204.198	154.306	-24.178	1.00	82.86	Al6S	ATOM	44024	C8	1155	210.884	158.729	-24.802	1.00	110.01	Al
ATOM	43972	C6	CYT	1153	204.039	154.656	-22.861	1.00	82.86	Al6S	ATOM	44025	C2' GUA	1155	213.235	160.185	-26.824	1.00	113.62	Al
ATOM	43973	C2	CYT	1153	204.112	155.285	-25.186	1.00	82.86	Al6S	ATOM	44026	O2' GUA	1155	213.620	160.987	-27.925	1.00	113.62	Al
ATOM	43974	O2	CYT	1153	204.244	154.941	-26.378	1.00	82.86	Al6S	ATOM	44027	C3' GUA	1155	213.994	158.867	-26.683	1.00	113.62	Al
ATOM	43975	N3	CYT	1153	203.891	156.576	-24.836	1.00	82.86	Al6S	ATOM	44028	O3' GUA	1155	215.368	159.004	-27.024	1.00	113.62	Al
ATOM	43976	C4	CYT	1153	203.754	156.906	-23.548	1.00	82.86	Al6S	ATOM	44029	P	1156	216.424	159.433	-25.889	1.00	122.04	Al
ATOM	43977	N4	CYT	1153	203.550	158.193	-23.256	1.00	82.86	Al6S	ATOM	44030	O1P	1156	217.773	159.367	-26.501	1.00	140.53	Al
ATOM	43978	C5	CYT	1153	203.822	155.931	-22.505	1.00	82.86	Al6S	ATOM	44031	O2P	1156	216.138	158.647	-24.661	1.00	140.53	Al
ATOM	43979	C2' CYT	1153	205.992	152.662	-22.607	1.00	118.52	Al6S	ATOM	44032	O5' GUA	1156	216.088	160.965	-25.602	1.00	122.04	Al	
ATOM	43980	O2' CYT	1153	206.319	151.783	-25.664	1.00	118.52	Al6S	ATOM	44033	C5' GUA	1156	216.354	161.970	-26.594	1.00	122.04	Al	
ATOM	43981	C3' CYT	1153	206.230	152.078	-23.221	1.00	118.52	Al6S	ATOM	44034	O4' GUA	1156	215.907	163.331	-26.113	1.00	122.04	Al	
ATOM	43982	O3' CYT	1153	207.426	151.323	-23.133	1.00	118.52	Al6S	ATOM	44035	C4' GUA	1156	214.474	163.310	-25.867	1.00	122.04	Al	
ATOM	43983	P	GUA	1154	208.815	152.084	-22.859	1.00	130.29	Al6S	ATOM	44036	C1' GUA	1156	214.156	164.210	-24.811	1.00	140.53	Al
ATOM	43984	O1P	GUA	1154	209.871	151.042	-22.800	1.00	96.68	Al6S	ATOM	44037	N9	1156	213.536	163.469	-23.710	1.00	140.53	Al
ATOM	43985	O2P	GUA	1154	208.653	153.937	-21.723	1.00	96.68	Al6S	ATOM	44038	C4	1156	212.901	164.023	-22.618	1.00	140.53	Al
ATOM	43986	O5' GUA	1154	209.026	152.939	-24.182	1.00	130.29	Al6S	ATOM	44039	N3	1156	212.724	165.343	-22.387	1.00	140.53	Al	
ATOM	43987	C5' GUA	1154	209.246	152.287	-25.437	1.00	130.29	Al6S	ATOM	44040	C2	1156	212.829	165.566	-21.249	1.00	140.53	Al	
ATOM	43988	C4' GUA	1154	209.488	153.307	-26.512	1.00	130.29	Al6S	ATOM	44041	N2	1156	211.830	166.824	-20.865	1.00	140.53	Al	
ATOM	43989	O4' GUA	1154	208.265	154.049	-26.757	1.00	130.29	Al6S	ATOM	44042	N1	1156	211.660	164.574	-20.404	1.00	140.53	Al	
ATOM	43990	C1' GUA	1154	208.583	155.392	-27.085	1.00	130.29	Al6S	ATOM	44043	C6	1156	211.828	163.209	-19.619	1.00	140.53	Al	
ATOM	43991	N9	GUA	1154	208.024	156.263	-26.056	1.00	96.68	Al6S	ATOM	44044	O6	1156	212.511	162.953	-21.839	1.00	140.53	Al
ATOM	43992	C4	GUA	1154	207.824	157.623	-26.162	1.00	96.68	Al6S	ATOM	44045	C5	1156	212.511	162.953	-21.839	1.00	140.53	Al
ATOM	43993	N3	GUA	1154	208.047	158.379	-27.263	1.00	96.68	Al6S	ATOM	44046	N7	1156	212.882	161.751	-22.429	1.00	140.53	Al
ATOM	43994	C2	GUA	1154	207.807	159.661	-27.038	1.00	96.68	Al6S	ATOM	44047	C8' GUA	1156	213.481	162.103	-23.535	1.00	140.53	Al
ATOM	43995	N2	GUA	1154	207.975	160.556	-28.018	1.00	96.68	Al6S	ATOM	44048	C2' GUA	1156	215.458	164.875	-24.365	1.00	122.04	Al
ATOM	43996	N1	GUA	1154	207.384	160.162	-25.833	1.00	96.68	Al6S	ATOM	44049	O2' GUA	1156	215.600	166.133	-25.004	1.00	122.04	Al
ATOM	43997	C6	GUA	1154	207.149	159.404	-24.688	1.00	96.68	Al6S	ATOM	44050	C3' GUA	1156	216.495	163.846	-24.806	1.00	122.04	Al
ATOM	43998	O6	GUA	1154	206.780	159.958	-23.648	1.00	96.68	Al6S	ATOM	44051	O3' GUA	1156	217.790	164.420	-24.937	1.00	122.04	Al
ATOM	43999	C5	GUA	1154	207.396	158.025	-24.914	1.00	96.68	Al6S	ATOM	44052	P	1157	218.735	164.552	-23.637	1.00	134.60	Al
ATOM	44000	N7	GUA	1154	207.287	156.938	-24.055	1.00	96.68	Al6S	ATOM	44053	O1P	1157	220.054	165.026	-24.124	1.00	115.28	Al
ATOM	44001	C8	GUA	1154	207.656	155.914	-24.777	1.00	96.68	Al6S	ATOM	44054	O2P	1157	218.651	163.299	-22.833	1.00	115.28	Al
ATOM	44002	C2' GUA	1154	210.111	155.518	-27.094	1.00	130.29	Al6S	ATOM	44055	O5' ADE	1157	218.080	165.733	-22.789	1.00	134.60	Al	
ATOM	44003	O2' GUA	1154	210.621	155.399	-28.409	1.00	130.29	Al6S	ATOM	44056	C5' ADE	1157	218.137	167.095	-23.257	1.00	134.60	Al	
ATOM	44004	C3' GUA	1154	210.519	154.372	-26.178	1.00	130.29	Al6S	ATOM	44057	C4' ADE	1157	217.630	168.048	-22.196	1.00	134.60	Al	
ATOM	44005	O3' GUA	1154	211.859	153.938	-26.380	1.00	130.29	Al6S	ATOM	44058	O4' ADE	1157	216.220	167.808	-21.957	1.00	134.60	Al	
ATOM	44006	P	GUA	1155	213.046	154.595	-25.511	1.00	113.62	Al6S	ATOM	44059	C1' ADE	1157	215.923	168.035	-20.589	1.00	134.60	Al
ATOM	44007	O1P	GUA	1155	214.304	153.953	-25.969	1.00	110.01	Al6S	ATOM	44060	N9	1157	215.428	166.782	-20.017	1.00	115.28	Al
ATOM	44008	O2P	GUA	1155	212.688	154.550	-24.066	1.00	110.01	Al6S	ATOM	44061	C4	1157	214.571	166.654	-18.951	1.00	115.28	Al

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ATOM	44062	N3	ADE	1157	214.020	167.641	-18.225	1.00115.28	Al6s	ATOM	44115	C8	GUA	1159	220.227	165.381	-14.452	1.00101.59	Al
ATOM	44063	C2	ADE	1157	213.239	167.138	-17.273	1.00115.28	Al6s	ATOM	44116	C2'	GUA	1159	220.249	165.220	-11.095	1.00 93.81	Al
ATOM	44064	N1	ADE	1157	212.964	165.860	-16.990	1.00115.28	Al6s	ATOM	44117	O2'	GUA	1159	219.688	165.067	-9.803	1.00 93.81	Al
ATOM	44065	C6	ADE	1157	213.532	164.896	-17.744	1.00115.28	Al6s	ATOM	44118	C3'	GUA	1159	221.028	166.520	-11.224	1.00 93.81	Al
ATOM	44066	N6	ADE	1157	213.247	163.624	-17.474	1.00115.28	Al6s	ATOM	44119	O3'	GUA	1159	221.806	166.795	-10.074	1.00 93.81	Al
ATOM	44067	C5	ADE	1157	214.386	165.294	-18.776	1.00115.28	Al6s	ATOM	44120	P	ADE	1160	223.381	166.484	-10.109	1.00 80.41	Al
ATOM	44068	N7	ADE	1157	215.118	164.574	-19.709	1.00115.28	Al6s	ATOM	44121	O1P	ADE	1160	224.030	167.261	-9.014	1.00 74.70	Al
ATOM	44069	C8	ADE	1157	215.715	165.498	-20.420	1.00115.28	Al6s	ATOM	44122	O2P	ADE	1160	223.849	166.658	-11.520	1.00 74.70	Al
ATOM	44070	C2'	ADE	1157	217.203	168.521	-19.907	1.00134.60	Al6s	ATOM	44123	O5'	ADE	1160	224.749	164.256	-9.792	1.00 80.41	Al
ATOM	44071	O2'	ADE	1157	217.215	169.935	-19.857	1.00134.60	Al6s	ATOM	44124	C5'	ADE	1160	224.271	162.688	-8.007	1.00 80.41	Al
ATOM	44072	C3'	ADE	1157	218.278	167.949	-20.823	1.00134.60	Al6s	ATOM	44125	O4'	ADE	1160	224.588	162.801	-9.419	1.00 80.41	Al
ATOM	44073	O3'	ADE	1157	219.491	168.689	-20.747	1.00134.60	Al6s	ATOM	44126	C4'	ADE	1160	224.271	162.688	-8.007	1.00 80.41	Al
ATOM	44074	P	GUA	1158	220.662	168.206	-19.753	1.00 96.06	Al6s	ATOM	44127	C1'	ADE	1160	223.386	161.601	-7.805	1.00 80.41	Al
ATOM	44075	O1P	GUA	1158	221.875	168.982	-20.117	1.00110.93	Al6s	ATOM	44128	N9	ADE	1160	222.126	162.133	-7.277	1.00 74.70	Al
ATOM	44076	O2P	GUA	1158	220.716	166.721	-19.772	1.00110.93	Al6s	ATOM	44129	C4	ADE	1160	221.252	161.474	-6.449	1.00 74.70	Al
ATOM	44077	O5'	GUA	1158	220.172	168.670	-18.304	1.00 96.06	Al6s	ATOM	44130	N3	ADE	1160	221.377	160.232	-5.961	1.00 74.70	Al
ATOM	44078	C5'	GUA	1158	219.790	170.044	-18.037	1.00 96.06	Al6s	ATOM	44131	C2	ADE	1160	220.345	159.935	-5.174	1.00 74.70	Al
ATOM	44079	C4'	GUA	1158	218.920	170.116	-16.797	1.00 96.06	Al6s	ATOM	44132	N1	ADE	1160	219.281	160.681	-4.847	1.00 74.70	Al
ATOM	44080	O4'	GUA	1158	217.665	169.431	-17.047	1.00 96.06	Al6s	ATOM	44133	C6	ADE	1160	219.183	161.920	-5.359	1.00 74.70	Al
ATOM	44081	C1'	GUA	1158	217.281	168.687	-15.901	1.00 96.06	Al6s	ATOM	44134	N6	ADE	1160	218.123	162.654	-5.032	1.00 74.70	Al
ATOM	44082	N9	GUA	1158	217.283	167.270	-16.266	1.00110.93	Al6s	ATOM	44135	C5	ADE	1160	220.216	162.359	-6.209	1.00 74.70	Al
ATOM	44083	C4	GUA	1158	216.592	166.251	-15.649	1.00110.93	Al6s	ATOM	44136	N7	ADE	1160	221.569	163.369	-7.500	1.00 74.70	Al
ATOM	44084	N3	GUA	1158	215.768	166.377	-14.590	1.00110.93	Al6s	ATOM	44137	C8	ADE	1160	223.191	160.910	-9.157	1.00 80.41	Al
ATOM	44085	C2	GUA	1158	215.271	165.213	-14.214	1.00110.93	Al6s	ATOM	44138	C2'	ADE	1160	223.470	162.051	-10.120	1.00 80.41	Al
ATOM	44086	N2	GUA	1158	214.433	165.151	-13.168	1.00110.93	Al6s	ATOM	44139	O2'	ADE	1160	223.828	161.592	-11.406	1.00 80.41	Al
ATOM	44087	N1	GUA	1158	215.568	164.021	-14.832	1.00110.93	Al6s	ATOM	44140	C3'	ADE	1160	222.707	161.527	-12.554	1.00 82.82	Al
ATOM	44088	C6	GUA	1158	216.401	163.868	-15.926	1.00110.93	Al6s	ATOM	44141	O3'	ADE	1161	223.353	161.092	-13.815	1.00 88.46	Al
ATOM	44089	O6	GUA	1158	216.596	162.744	-16.408	1.00110.93	Al6s	ATOM	44142	P	ADE	1161	221.947	162.798	-12.529	1.00 88.46	Al
ATOM	44090	C5	GUA	1158	217.820	165.397	-17.369	1.00110.93	Al6s	ATOM	44143	O1P	ADE	1161	221.741	160.363	-12.059	1.00 82.82	Al
ATOM	44091	N7	GUA	1158	217.994	166.688	-17.291	1.00110.93	Al6s	ATOM	44144	O2P	ADE	1161	222.259	159.065	-11.699	1.00 82.82	Al
ATOM	44092	C8	GUA	1158	218.278	169.002	-14.784	1.00 96.06	Al6s	ATOM	44145	O5'	ADE	1161	222.996	158.965	-9.644	1.00 82.82	Al
ATOM	44093	C2'	GUA	1158	219.771	170.018	-13.948	1.00 96.06	Al6s	ATOM	44146	C5'	ADE	1161	219.616	158.931	-9.327	1.00 82.82	Al
ATOM	44094	O2'	GUA	1158	220.338	170.303	-14.841	1.00 96.06	Al6s	ATOM	44147	C4'	ADE	1161	218.089	160.800	-8.522	1.00 88.46	Al
ATOM	44095	C3'	GUA	1158	222.487	169.181	-15.351	1.00101.59	Al6s	ATOM	44148	O4'	ADE	1161	217.286	160.112	-7.693	1.00 88.46	Al
ATOM	44096	O3'	GUA	1159	221.231	168.573	-13.262	1.00 93.81	Al6s	ATOM	44149	C1'	ADE	1161	216.371	160.914	-7.154	1.00 88.46	Al
ATOM	44097	P	GUA	1159	220.353	168.834	-12.153	1.00 93.81	Al6s	ATOM	44150	N9	ADE	1161	216.181	162.227	-7.335	1.00 88.46	Al
ATOM	44098	O1P	GUA	1159	219.932	167.538	-11.491	1.00 93.81	Al6s	ATOM	44151	C3	ADE	1161	217.005	162.889	-8.173	1.00 88.46	Al
ATOM	44099	O5'	GUA	1159	218.988	166.818	-12.331	1.00 93.81	Al6s	ATOM	44152	N3	ADE	1161	218.020	162.151	-8.807	1.00 88.46	Al
ATOM	44100	C5'	GUA	1159	219.153	165.418	-12.143	1.00 93.81	Al6s	ATOM	44153	C2	ADE	1161	219.011	162.514	-9.705	1.00 88.46	Al
ATOM	44101	C5'	GUA	1159	219.516	164.807	-13.423	1.00101.59	Al6s	ATOM	44154	N1	ADE	1161	218.644	164.394	-9.944	1.00 88.46	Al
ATOM	44102	C4'	GUA	1159	218.534	162.607	-13.115	1.00101.59	Al6s	ATOM	44155	C6	ADE	1161	218.759	156.757	-9.909	1.00 82.82	Al
ATOM	44103	O4'	GUA	1159	217.755	160.447	-13.202	1.00101.59	Al6s	ATOM	44156	N6	ADE	1161	219.821	157.059	-12.442	1.00 82.82	Al
ATOM	44104	C1'	GUA	1159	218.952	161.223	-15.005	1.00101.59	Al6s	ATOM	44157	C5	ADE	1161	219.715	156.094	-14.718	1.00101.59	Al
ATOM	44105	N9	GUA	1159	219.673	162.141	-15.756	1.00101.59	Al6s	ATOM	44158	N7	ADE	1162	219.213	158.576	-14.395	1.00101.59	Al
ATOM	44106	C4	GUA	1159	220.115	161.813	-16.866	1.00101.59	Al6s	ATOM	44159	O1P	GUA	1162	217.639	156.810	-13.627	1.00101.59	Al
ATOM	44107	C4	GUA	1159	219.796	163.390	-15.075	1.00101.59	Al6s	ATOM	44160	O2P	GUA	1162					Al
ATOM	44108	C2	GUA	1159	220.421	164.570	-15.458	1.00101.59	Al6s	ATOM	44161	O5'	GUA	1162					Al
ATOM	44109	N2	GUA	1159						ATOM	44162	C3'	ADE	1161					Al
ATOM	44110	N1	GUA	1159						ATOM	44163	O3'	ADE	1161					Al
ATOM	44111	C6	GUA	1159						ATOM	44164	P	GUA	1162					Al
ATOM	44112	O6	GUA	1159						ATOM	44165	O1P	GUA	1162					Al
ATOM	44113	C5	GUA	1159						ATOM	44166	O2P	GUA	1162					Al
ATOM	44114	N7	GUA	1159						ATOM	44167	O5'	GUA	1162					Al

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ATOM	44168	C5' GUA	1162	217.335	155.658	-12.845	1.00110.82	Al6S	ATOM	44221	C2 ADE	1164	208.720	145.609	-7.349	1.00	99.35	Al	
ATOM	44169	C4' GUA	1162	215.857	155.544	-12.654	1.00110.82	Al6S	ATOM	44222	N1 ADE	1164	208.742	144.499	-8.091	1.00	99.35	Al	
ATOM	44170	O4' GUA	1162	215.376	156.810	-12.139	1.00110.82	Al6S	ATOM	44223	C6 ADE	1164	209.000	144.610	-9.414	1.00	99.35	Al	
ATOM	44171	C1' GUA	1162	214.084	157.067	-12.650	1.00110.82	Al6S	ATOM	44224	N6 ADE	1164	209.019	143.501	-10.160	1.00	99.35	Al	
ATOM	44172	N9 GUA	1162	214.136	158.293	-13.435	1.00	96.05	Al6S	ATOM	44225	C5 ADE	1164	209.233	145.890	-9.927	1.00	99.35	Al
ATOM	44173	C4 GUA	1162	213.385	159.425	-13.219	1.00	96.05	Al6S	ATOM	44226	N7 ADE	1164	209.519	146.346	-11.206	1.00	99.35	Al
ATOM	44174	N3 GUA	1162	212.473	159.599	-12.234	1.00	96.05	Al6S	ATOM	44227	C8 ADE	1164	209.631	147.644	-11.057	1.00	99.35	Al
ATOM	44175	C2 GUA	1162	211.912	160.792	-12.285	1.00	96.05	Al6S	ATOM	44228	C2' ADE	1164	210.813	150.125	-9.126	1.00	98.81	Al
ATOM	44176	N2 GUA	1162	210.985	161.125	-11.391	1.00	96.05	Al6S	ATOM	44229	O2' ADE	1164	210.954	150.589	-7.798	1.00	98.81	Al
ATOM	44177	N1 GUA	1162	212.220	161.742	-13.220	1.00	96.05	Al6S	ATOM	44230	C3' ADE	1164	210.694	151.222	-10.197	1.00	98.81	Al
ATOM	44178	C6 GUA	1162	213.149	161.584	-14.245	1.00	96.05	Al6S	ATOM	44231	O3' ADE	1164	211.368	152.482	-9.986	1.00	98.81	Al
ATOM	44179	O6 GUA	1162	213.342	162.501	-15.043	1.00	96.05	Al6S	ATOM	44232	P GUA	1165	212.584	152.621	-8.936	1.00	72.87	Al
ATOM	44180	C5 GUA	1162	213.761	160.304	-14.205	1.00	96.05	Al6S	ATOM	44233	O1P GUA	1165	213.220	151.294	-8.660	1.00	69.88	Al
ATOM	44181	N7 GUA	1162	214.729	159.738	-15.028	1.00	96.05	Al6S	ATOM	44234	O2P GUA	1165	212.060	153.426	-7.799	1.00	69.88	Al
ATOM	44182	C8 GUA	1162	214.922	158.547	-14.533	1.00	96.05	Al6S	ATOM	44235	O5' GUA	1165	213.650	153.521	-9.712	1.00	72.87	Al
ATOM	44183	C2' GUA	1162	213.675	155.872	-13.508	1.00110.82	Al6S	ATOM	44236	C5' GUA	1165	214.289	153.066	-10.929	1.00	72.87	Al	
ATOM	44184	O2' GUA	1162	212.919	154.966	-12.718	1.00110.82	Al6S	ATOM	44237	C4' GUA	1165	215.764	152.804	-10.689	1.00	72.87	Al	
ATOM	44185	C3' GUA	1162	215.034	155.322	-13.913	1.00110.82	Al6S	ATOM	44238	O4' GUA	1165	216.319	153.914	-9.936	1.00	72.87	Al	
ATOM	44186	O3' GUA	1162	214.959	153.960	-14.304	1.00110.82	Al6S	ATOM	44239	C1' GUA	1165	217.283	153.437	-9.011	1.00	72.87	Al	
ATOM	44187	P GUA	1163	214.348	153.591	-15.742	1.00120.51	Al6S	ATOM	44240	N9 GUA	1165	216.814	153.730	-7.658	1.00	69.88	Al	
ATOM	44188	O1P GUA	1163	214.867	152.249	-16.091	1.00113.30	Al6S	ATOM	44241	C4 GUA	1165	217.525	153.569	-6.490	1.00	69.88	Al	
ATOM	44189	O2P GUA	1163	214.597	154.734	-16.657	1.00113.30	Al6S	ATOM	44242	N3 GUA	1165	218.802	153.152	-6.389	1.00	69.88	Al	
ATOM	44190	O5' GUA	1163	212.770	153.513	-15.496	1.00120.51	Al6S	ATOM	44243	C2 GUA	1165	219.195	153.077	-5.132	1.00	69.88	Al	
ATOM	44191	C5' GUA	1163	212.207	152.794	-14.364	1.00120.51	Al6S	ATOM	44244	N2 GUA	1165	220.435	152.678	-4.845	1.00	69.88	Al	
ATOM	44192	C4' GUA	1163	210.769	153.223	-14.133	1.00120.51	Al6S	ATOM	44245	N1 GUA	1165	218.399	153.383	-4.063	1.00	69.88	Al	
ATOM	44193	O4' GUA	1163	210.757	154.669	-14.049	1.00120.51	Al6S	ATOM	44246	C6 GUA	1165	217.078	153.804	-4.148	1.00	69.88	Al	
ATOM	44194	C1' GUA	1163	209.661	155.197	-14.771	1.00120.51	Al6S	ATOM	44247	O6 GUA	1165	216.434	154.031	-3.123	1.00	69.88	Al	
ATOM	44195	N9 GUA	1163	210.199	156.074	-15.808	1.00113.30	Al6S	ATOM	44248	C5 GUA	1165	216.649	153.901	-5.481	1.00	69.88	Al	
ATOM	44196	C4 GUA	1163	210.199	157.448	-15.783	1.00113.30	Al6S	ATOM	44249	N7 GUA	1165	215.424	154.293	-5.999	1.00	69.88	Al	
ATOM	44197	N3 GUA	1163	209.665	158.225	-14.813	1.00113.30	Al6S	ATOM	44250	C8 GUA	1165	215.570	154.183	-7.291	1.00	69.88	Al	
ATOM	44198	C2 GUA	1163	209.840	159.512	-15.058	1.00113.30	Al6S	ATOM	44251	O2' GUA	1165	217.432	151.929	-9.229	1.00	72.87	Al	
ATOM	44199	N2 GUA	1163	209.367	160.424	-14.197	1.00113.30	Al6S	ATOM	44252	C2' GUA	1165	218.528	151.663	-10.084	1.00	72.87	Al	
ATOM	44200	N1 GUA	1163	210.490	159.998	-16.166	1.00113.30	Al6S	ATOM	44253	C3' GUA	1165	216.088	151.576	-9.849	1.00	72.87	Al	
ATOM	44201	C6 GUA	1163	211.048	159.218	-17.176	1.00113.30	Al6S	ATOM	44254	O3' GUA	1165	216.169	150.393	-10.636	1.00	72.87	Al	
ATOM	44202	O6 GUA	1163	211.619	159.758	-18.127	1.00113.30	Al6S	ATOM	44255	P GUA	1166	215.903	148.960	-9.954	1.00	71.89	Al	
ATOM	44203	C5 GUA	1163	210.861	157.835	-16.929	1.00113.30	Al6S	ATOM	44256	O1P GUA	1166	215.899	147.981	-11.069	1.00	70.85	Al	
ATOM	44204	N7 GUA	1163	211.246	156.728	-17.673	1.00113.30	Al6S	ATOM	44257	O2P GUA	1166	214.723	149.052	-9.049	1.00	70.85	Al	
ATOM	44205	C8 GUA	1163	210.829	155.708	-16.973	1.00113.30	Al6S	ATOM	44258	O5' GUA	1166	217.202	148.689	-9.070	1.00	71.89	Al	
ATOM	44206	C2' GUA	1163	208.794	154.036	-15.260	1.00120.51	Al6S	ATOM	44259	C5' GUA	1166	218.412	148.202	-9.676	1.00	71.89	Al	
ATOM	44207	O2' GUA	1163	207.672	153.916	-14.415	1.00120.51	Al6S	ATOM	44260	C4' GUA	1166	219.418	147.823	-8.618	1.00	71.89	Al	
ATOM	44208	C3' GUA	1163	209.789	152.876	-15.250	1.00120.51	Al6S	ATOM	44261	O4' GUA	1166	219.843	149.011	-7.904	1.00	71.89	Al	
ATOM	44209	O3' GUA	1163	209.264	151.529	-15.153	1.00120.51	Al6S	ATOM	44262	C1' GUA	1166	220.040	148.703	-6.529	1.00	71.89	Al	
ATOM	44210	P ADE	1164	208.307	151.079	-13.921	1.00	98.81	Al6S	ATOM	44263	N9 GUA	1166	219.047	149.445	-5.751	1.00	70.85	Al
ATOM	44211	O1P ADE	1164	208.179	149.600	-14.034	1.00	99.35	Al6S	ATOM	44264	C4 GUA	1166	218.994	149.549	-4.379	1.00	70.85	Al
ATOM	44212	O2P ADE	1164	207.073	151.903	-13.833	1.00	99.35	Al6S	ATOM	44265	N3 GUA	1166	219.893	149.045	-3.509	1.00	70.85	Al
ATOM	44213	O5' ADE	1164	209.191	151.327	-12.626	1.00	98.81	Al6S	ATOM	44266	C2 GUA	1166	219.547	149.270	-2.258	1.00	70.85	Al
ATOM	44214	C5' ADE	1164	208.679	152.070	-11.527	1.00	98.81	Al6S	ATOM	44267	N2 GUA	1166	220.334	148.851	-1.269	1.00	70.85	Al
ATOM	44215	C4' ADE	1164	209.201	151.503	-10.239	1.00	98.81	Al6S	ATOM	44268	N1 GUA	1166	218.405	149.926	-1.885	1.00	70.85	Al
ATOM	44216	O4' ADE	1164	208.573	150.230	-9.976	1.00	98.81	Al6S	ATOM	44269	C6 GUA	1166	217.464	150.453	-2.764	1.00	70.85	Al
ATOM	44217	C1' ADE	1164	209.454	149.426	-9.224	1.00	98.81	Al6S	ATOM	44270	O6 GUA	1166	216.456	151.016	-2.325	1.00	70.85	Al
ATOM	44218	N9 ADE	1164	209.432	148.070	-9.766	1.00	99.35	Al6S	ATOM	44271	C5 GUA	1166	217.832	150.237	-4.111	1.00	70.85	Al
ATOM	44219	C4 ADE	1164	209.178	146.939	-9.033	1.00	99.35	Al6S	ATOM	44272	N7 GUA	1166	217.194	150.609	-5.288	1.00	70.85	Al
ATOM	44220	N3 ADE	1164	208.922	146.866	-7.715	1.00	99.35	Al6S	ATOM	44273	C8 GUA	1166	217.953	150.129	-6.233	1.00	70.85	Al

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ATOM	44274	C2' GUA	1166	219.834	147.195	-6.364	1.00	71.89	Al6S	ATOM	44327	O5' ADE	1169	214.246	139.382	4.076	1.00	67.28	Al
ATOM	44275	O2' GUA	1166	221.069	146.517	-6.448	1.00	71.89	Al6S	ATOM	44328	C5' ADE	1169	214.802	139.509	5.390	1.00	67.28	Al
ATOM	44276	C3' GUA	1166	218.909	146.890	-7.533	1.00	71.89	Al6S	ATOM	44329	C4' ADE	1169	213.907	140.364	6.238	1.00	67.28	Al
ATOM	44277	O3' GUA	1166	218.968	145.536	-7.923	1.00	71.89	Al6S	ATOM	44330	O4' ADE	1169	213.851	141.697	5.690	1.00	67.28	Al
ATOM	44278	P' GUA	1167	217.901	144.501	-7.325	1.00	53.91	Al6S	ATOM	44331	C1' ADE	1169	212.561	142.231	5.879	1.00	67.28	Al
ATOM	44279	O1P GUA	1167	218.035	143.242	-8.097	1.00	75.28	Al6S	ATOM	44332	N9 ADE	1169	212.035	142.570	4.568	1.00	57.33	Al
ATOM	44280	O2P GUA	1167	216.583	145.186	-7.256	1.00	75.28	Al6S	ATOM	44333	C4 ADE	1169	210.992	143.423	4.302	1.00	57.33	Al
ATOM	44281	O5' GUA	1167	218.431	144.235	-5.851	1.00	53.91	Al6S	ATOM	44334	N3 ADE	1169	210.243	144.095	5.192	1.00	57.33	Al
ATOM	44282	C5' GUA	1167	219.729	143.674	-5.653	1.00	53.91	Al6S	ATOM	44335	C2 ADE	1169	209.339	144.848	4.565	1.00	57.33	Al
ATOM	44283	C4' GUA	1167	220.019	143.514	-4.186	1.00	53.91	Al6S	ATOM	44336	N1 ADE	1169	209.119	145.000	3.248	1.00	57.33	Al
ATOM	44284	O4' GUA	1167	220.233	144.814	-3.578	1.00	53.91	Al6S	ATOM	44337	C6 ADE	1169	209.894	144.473	2.382	1.00	57.33	Al
ATOM	44285	C1' GUA	1167	219.715	144.812	-2.254	1.00	53.91	Al6S	ATOM	44338	N6 ADE	1169	209.690	144.432	1.069	1.00	57.33	Al
ATOM	44286	N9 GUA	1167	218.593	145.747	-2.197	1.00	75.28	Al6S	ATOM	44339	C5 ADE	1169	210.884	143.466	2.921	1.00	57.33	Al
ATOM	44287	C4 GUA	1167	217.983	146.220	-1.061	1.00	75.28	Al6S	ATOM	44340	N7 ADE	1169	211.829	142.638	2.329	1.00	57.33	Al
ATOM	44288	N3 GUA	1167	218.335	145.926	0.208	1.00	75.28	Al6S	ATOM	44341	C8 ADE	1169	212.481	142.128	3.347	1.00	57.33	Al
ATOM	44289	C2 GUA	1167	217.550	146.524	1.085	1.00	75.28	Al6S	ATOM	44342	C2' ADE	1169	211.718	141.191	6.612	1.00	67.28	Al
ATOM	44290	N2 GUA	1167	217.760	146.350	2.397	1.00	75.28	Al6S	ATOM	44343	O2' ADE	1169	212.465	139.910	6.287	1.00	67.28	Al
ATOM	44291	N1 GUA	1167	216.501	147.338	0.743	1.00	75.28	Al6S	ATOM	44344	C3' ADE	1169	212.307	138.943	7.303	1.00	67.28	Al
ATOM	44292	C6 GUA	1167	216.123	147.652	-0.557	1.00	75.28	Al6S	ATOM	44345	O3' ADE	1170	212.422	137.644	7.021	1.00	49.92	Al
ATOM	44293	O6 GUA	1167	215.159	148.401	-0.757	1.00	75.28	Al6S	ATOM	44346	P' CYT	1170	211.058	137.100	8.348	1.00	67.75	Al
ATOM	44294	C5 GUA	1167	216.956	147.024	-1.506	1.00	75.28	Al6S	ATOM	44347	O1P CYT	1170	212.131	136.780	6.044	1.00	67.75	Al
ATOM	44295	N7 GUA	1167	216.928	147.068	-2.892	1.00	75.28	Al6S	ATOM	44348	O2P CYT	1170	210.107	138.253	6.359	1.00	49.92	Al
ATOM	44296	C8 GUA	1167	217.917	146.303	-3.259	1.00	75.28	Al6S	ATOM	44349	O5' CYT	1170	209.197	139.004	7.167	1.00	49.92	Al
ATOM	44297	C2' GUA	1167	219.226	143.393	-1.961	1.00	53.91	Al6S	ATOM	44350	C5' CYT	1170	208.143	139.673	6.325	1.00	49.92	Al
ATOM	44298	O2' GUA	1167	220.239	142.639	-1.314	1.00	53.91	Al6S	ATOM	44351	C4' CYT	1170	208.747	140.618	5.414	1.00	49.92	Al
ATOM	44299	C3' GUA	1167	218.912	142.889	-3.362	1.00	53.91	Al6S	ATOM	44352	O4' CYT	1170	207.940	140.732	4.261	1.00	49.92	Al
ATOM	44300	O3' GUA	1167	218.888	141.482	-3.432	1.00	53.91	Al6S	ATOM	44353	C1' CYT	1170	208.730	140.294	3.106	1.00	67.75	Al
ATOM	44301	P' GUA	1168	217.682	140.695	-2.734	1.00	65.47	Al6S	ATOM	44354	N1 CYT	1170	207.724	139.364	3.250	1.00	67.75	Al
ATOM	44302	O1P GUA	1168	217.892	139.239	-2.919	1.00	57.89	Al6S	ATOM	44355	C6 CYT	1170	208.439	140.828	1.851	1.00	67.75	Al
ATOM	44303	O2P GUA	1168	216.417	141.329	-3.177	1.00	57.89	Al6S	ATOM	44356	C2 CYT	1170	207.538	141.678	1.750	1.00	67.75	Al
ATOM	44304	O5' GUA	1168	217.881	141.009	-1.190	1.00	65.47	Al6S	ATOM	44357	O2 CYT	1170	209.142	140.404	0.778	1.00	67.75	Al
ATOM	44305	C5' GUA	1168	216.907	140.597	-0.232	1.00	65.47	Al6S	ATOM	44358	N3 CYT	1170	210.099	139.485	0.927	1.00	67.75	Al
ATOM	44306	C4' GUA	1168	217.248	141.145	1.131	1.00	65.47	Al6S	ATOM	44359	C4 CYT	1170	210.758	139.087	-0.161	1.00	67.75	Al
ATOM	44307	O4' GUA	1168	217.338	142.594	1.078	1.00	65.47	Al6S	ATOM	44360	N4 CYT	1170	210.424	138.933	2.198	1.00	67.75	Al
ATOM	44308	C1' GUA	1168	216.721	143.159	2.225	1.00	65.47	Al6S	ATOM	44361	C5 CYT	1170	205.721	139.832	4.462	1.00	49.92	Al
ATOM	44309	N9 GUA	1168	215.589	143.972	1.773	1.00	57.89	Al6S	ATOM	44362	C2' CYT	1170	205.669	140.582	5.048	1.00	49.92	Al
ATOM	44310	C4 GUA	1168	214.656	144.603	2.562	1.00	57.89	Al6S	ATOM	44363	O2' CYT	1170	207.258	138.807	5.446	1.00	49.92	Al
ATOM	44311	N3 GUA	1168	214.604	144.565	3.910	1.00	57.89	Al6S	ATOM	44364	C3' CYT	1170	206.187	138.269	6.186	1.00	49.92	Al
ATOM	44312	C2 GUA	1168	213.611	145.297	4.387	1.00	57.89	Al6S	ATOM	44365	O3' CYT	1170	206.057	136.689	7.349	1.00	63.60	Al
ATOM	44313	N2 GUA	1168	213.411	145.367	5.720	1.00	57.89	Al6S	ATOM	44366	P' GUA	1171	204.969	136.548	6.368	1.00	63.60	Al
ATOM	44314	N1 GUA	1168	212.738	146.012	3.597	1.00	57.89	Al6S	ATOM	44367	O1P GUA	1171	207.380	136.089	6.642	1.00	81.15	Al
ATOM	44315	C6 GUA	1168	212.768	146.059	2.209	1.00	57.89	Al6S	ATOM	44368	O2P GUA	1171	205.521	136.188	4.962	1.00	63.60	Al
ATOM	44316	O6 GUA	1168	211.931	146.730	1.600	1.00	57.89	Al6S	ATOM	44369	O5' GUA	1171	203.764	135.461	4.566	1.00	63.60	Al
ATOM	44317	C5 GUA	1168	213.827	145.276	1.686	1.00	57.89	Al6S	ATOM	44370	C5' GUA	1171	203.764	135.461	4.566	1.00	63.60	Al
ATOM	44318	N7 GUA	1168	214.214	145.054	0.375	1.00	57.89	Al6S	ATOM	44371	C4' GUA	1171	204.727	135.773	2.353	1.00	63.60	Al
ATOM	44319	C8 GUA	1168	216.335	142.004	3.151	1.00	65.47	Al6S	ATOM	44372	O4' GUA	1171	206.361	133.658	1.711	1.00	81.15	Al
ATOM	44320	C2' GUA	1168	217.381	141.759	4.067	1.00	65.47	Al6S	ATOM	44373	C1' GUA	1171	207.623	132.727	-1.222	1.00	81.15	Al
ATOM	44321	O2' GUA	1168	216.173	140.864	2.159	1.00	65.47	Al6S	ATOM	44374	N9 GUA	1171	207.348	132.239	-2.433	1.00	81.15	Al
ATOM	44322	C3' GUA	1168	215.055	138.647	2.921	1.00	67.28	Al6S	ATOM	44375	C4 GUA	1171	208.937	132.675	-0.839	1.00	81.15	Al
ATOM	44323	O3' GUA	1168	214.236	138.721	1.670	1.00	57.33	Al6S	ATOM	44376	N3 GUA	1171						Al
ATOM	44324	P' ADE	1169						Al6S	ATOM	44377	C2 GUA	1171						Al
ATOM	44325	O1P ADE	1169						Al6S	ATOM	44378	N2 GUA	1171						Al
ATOM	44326	O2P ADE	1169						Al6S	ATOM	44379	N1 GUA	1171						Al

ATOM	44380	C6	GUA	1171	209.436	133.136	0.375	1.00	81.15	Al6s	ATOM	44433	O2P	GUA	1174	193.930	128.327	5.487	1.00	65.52	Al
ATOM	44381	O6	GUA	1171	210.652	133.058	0.616	1.00	81.15	Al6s	ATOM	44434	O5'	GUA	1174	192.525	127.376	3.819	1.00	46.26	Al
ATOM	44382	C5	GUA	1171	208.406	133.665	1.193	1.00	81.15	Al6s	ATOM	44435	C5'	GUA	1174	193.381	126.220	3.865	1.00	46.26	Al
ATOM	44383	N7	GUA	1171	208.464	134.213	2.467	1.00	81.15	Al6s	ATOM	44436	C4'	GUA	1174	193.642	125.719	2.468	1.00	46.26	Al
ATOM	44384	C8	GUA	1171	207.231	134.541	2.735	1.00	81.15	Al6s	ATOM	44437	O4'	GUA	1174	194.221	126.773	1.647	1.00	46.26	Al
ATOM	44385	C2'	GUA	1171	203.965	133.520	2.241	1.00	63.60	Al6s	ATOM	44438	C1'	GUA	1174	195.200	126.219	0.786	1.00	46.26	Al
ATOM	44386	O2'	GUA	1171	202.795	133.619	1.458	1.00	63.60	Al6s	ATOM	44439	N9	GUA	1174	196.506	126.754	1.173	1.00	65.52	Al
ATOM	44387	C3'	GUA	1171	203.692	134.061	3.633	1.00	63.60	Al6s	ATOM	44440	C4	GUA	1174	197.718	126.461	0.591	1.00	65.52	Al
ATOM	44388	O3'	GUA	1171	202.402	133.737	4.239	1.00	63.60	Al6s	ATOM	44441	N3	GUA	1174	197.915	125.635	-0.455	1.00	65.52	Al
ATOM	44389	P	ADE	1172	201.318	132.735	3.531	1.00	43.14	Al6s	ATOM	44442	C2	GUA	1174	199.188	125.545	-0.780	1.00	65.52	Al
ATOM	44390	O1P	ADE	1172	201.987	131.671	2.731	1.00	65.73	Al6s	ATOM	44443	N2	GUA	1174	199.558	124.762	-1.800	1.00	65.52	Al
ATOM	44391	O2P	ADE	1172	200.372	132.326	4.603	1.00	65.73	Al6s	ATOM	44444	N1	GUA	1174	200.193	126.214	-0.129	1.00	65.52	Al
ATOM	44392	O5'	ADE	1172	200.471	133.690	2.570	1.00	43.14	Al6s	ATOM	44445	C6	GUA	1174	200.017	127.063	0.952	1.00	65.52	Al
ATOM	44393	C5'	ADE	1172	199.809	134.845	3.110	1.00	43.14	Al6s	ATOM	44446	O6	GUA	1174	200.996	127.603	1.473	1.00	65.52	Al
ATOM	44394	C4'	ADE	1172	198.395	134.968	2.577	1.00	43.14	Al6s	ATOM	44447	C5	GUA	1174	198.650	127.172	1.309	1.00	65.52	Al
ATOM	44395	O4'	ADE	1172	198.440	135.313	1.178	1.00	43.14	Al6s	ATOM	44448	N7	GUA	1174	198.042	127.904	2.315	1.00	65.52	Al
ATOM	44396	C1'	ADE	1172	197.410	134.642	0.487	1.00	43.14	Al6s	ATOM	44449	C8	GUA	1174	196.775	127.629	2.195	1.00	65.52	Al
ATOM	44397	N9	ADE	1172	198.042	133.813	-0.547	1.00	65.73	Al6s	ATOM	44450	C2'	GUA	1174	195.140	124.699	0.960	1.00	46.26	Al
ATOM	44398	C4	ADE	1172	197.444	133.251	-1.650	1.00	65.73	Al6s	ATOM	44451	O2'	GUA	1174	194.227	124.188	0.020	1.00	46.26	Al
ATOM	44399	N3	ADE	1172	196.151	133.312	-1.999	1.00	65.73	Al6s	ATOM	44452	C3'	GUA	1174	194.620	124.569	2.382	1.00	46.26	Al
ATOM	44400	C2	ADE	1172	195.942	132.665	-3.134	1.00	65.73	Al6s	ATOM	44453	O3'	GUA	1174	193.938	123.354	2.594	1.00	46.26	Al
ATOM	44401	N1	ADE	1172	196.807	132.012	-3.906	1.00	65.73	Al6s	ATOM	44454	P	URI	1175	194.740	122.074	3.124	1.00	55.68	Al
ATOM	44402	C6	ADE	1172	198.098	131.964	-3.529	1.00	65.73	Al6s	ATOM	44455	O1P	URI	1175	193.780	122.951	3.305	1.00	60.83	Al
ATOM	44403	N6	ADE	1172	198.964	131.305	-4.302	1.00	65.73	Al6s	ATOM	44456	O2P	URI	1175	195.599	121.714	4.257	1.00	60.83	Al
ATOM	44404	C5	ADE	1172	198.454	132.612	-2.341	1.00	65.73	Al6s	ATOM	44457	O5'	URI	1175	195.699	121.714	1.908	1.00	55.68	Al
ATOM	44405	N7	ADE	1172	199.665	132.747	-1.680	1.00	65.73	Al6s	ATOM	44458	C5'	URI	1175	195.173	121.378	0.607	1.00	55.68	Al
ATOM	44406	C8	ADE	1172	199.368	133.458	-0.625	1.00	65.73	Al6s	ATOM	44459	C4'	URI	1175	196.287	120.876	-0.281	1.00	55.68	Al
ATOM	44407	C2'	ADE	1172	196.542	133.903	1.519	1.00	43.14	Al6s	ATOM	44460	C1'	URI	1175	197.178	121.967	-0.630	1.00	55.68	Al
ATOM	44408	O2'	ADE	1172	195.383	134.666	1.794	1.00	43.14	Al6s	ATOM	44461	C1'	URI	1175	198.504	121.484	-0.721	1.00	55.68	Al
ATOM	44409	C3'	ADE	1172	197.494	133.749	2.707	1.00	43.14	Al6s	ATOM	44462	N1	URI	1175	199.350	122.259	0.195	1.00	60.83	Al
ATOM	44410	O3'	ADE	1172	196.790	133.837	3.952	1.00	43.14	Al6s	ATOM	44463	C6	URI	1175	198.825	122.848	1.318	1.00	60.83	Al
ATOM	44411	P	CYT	1173	196.175	132.519	4.655	1.00	49.27	Al6s	ATOM	44464	C2	URI	1175	200.703	122.364	-0.099	1.00	60.83	Al
ATOM	44412	O1P	CYT	1173	195.473	132.963	5.889	1.00	62.84	Al6s	ATOM	44465	O2	URI	1175	201.216	121.883	-1.101	1.00	60.83	Al
ATOM	44413	O2P	CYT	1173	197.212	131.453	4.745	1.00	62.84	Al6s	ATOM	44466	N3	URI	1175	201.438	123.064	0.826	1.00	60.83	Al
ATOM	44414	O5'	CYT	1173	195.043	132.050	3.643	1.00	49.27	Al6s	ATOM	44467	C4	URI	1175	200.972	123.669	1.975	1.00	60.83	Al
ATOM	44415	C5'	CYT	1173	193.710	132.583	3.711	1.00	49.27	Al6s	ATOM	44468	O4	URI	1175	201.749	124.309	2.677	1.00	60.83	Al
ATOM	44416	C4'	CYT	1173	192.782	131.732	2.883	1.00	49.27	Al6s	ATOM	44469	C5	URI	1175	199.569	123.528	2.194	1.00	60.83	Al
ATOM	44417	O4'	CYT	1173	193.124	131.886	1.480	1.00	49.27	Al6s	ATOM	44470	C2'	URI	1175	198.491	119.986	-0.395	1.00	55.68	Al
ATOM	44418	C1'	CYT	1173	192.979	130.633	0.817	1.00	49.27	Al6s	ATOM	44471	O2'	URI	1175	198.492	119.222	-1.576	1.00	55.68	Al
ATOM	44419	N1	CYT	1173	194.274	130.241	0.209	1.00	62.84	Al6s	ATOM	44472	C3'	URI	1175	197.185	119.833	0.362	1.00	55.68	Al
ATOM	44420	C6	CYT	1173	195.461	130.698	0.710	1.00	62.84	Al6s	ATOM	44473	O3'	URI	1175	196.652	118.529	0.204	1.00	55.68	Al
ATOM	44421	C2	CYT	1173	194.265	129.371	-0.884	1.00	62.84	Al6s	ATOM	44474	P	CYT	1176	197.020	117.390	1.271	1.00	54.50	Al
ATOM	44422	O2	CYT	1173	193.180	129.015	-1.358	1.00	62.84	Al6s	ATOM	44475	O1P	CYT	1176	196.231	116.172	0.950	1.00	80.12	Al
ATOM	44423	N3	CYT	1173	195.438	128.950	-1.402	1.00	62.84	Al6s	ATOM	44476	O2P	CYT	1176	196.947	117.980	2.633	1.00	80.12	Al
ATOM	44424	C4	CYT	1173	196.589	129.384	-0.889	1.00	62.84	Al6s	ATOM	44477	O5'	CYT	1176	198.537	117.076	0.946	1.00	54.50	Al
ATOM	44425	N4	CYT	1173	197.723	128.926	-1.419	1.00	62.84	Al6s	ATOM	44478	C5'	CYT	1176	198.906	116.510	-0.312	1.00	54.50	Al
ATOM	44426	C5	CYT	1173	196.630	130.302	0.192	1.00	62.84	Al6s	ATOM	44479	O4'	CYT	1176	200.364	116.202	-0.294	1.00	54.50	Al
ATOM	44427	C2'	CYT	1173	192.482	129.606	1.838	1.00	49.27	Al6s	ATOM	44480	C4'	CYT	1176	201.071	117.456	-0.210	1.00	54.50	Al
ATOM	44428	O2'	CYT	1173	191.086	129.439	1.736	1.00	49.27	Al6s	ATOM	44481	C1'	CYT	1176	202.038	117.355	0.747	1.00	80.12	Al
ATOM	44429	C3'	CYT	1173	192.914	130.241	3.150	1.00	49.27	Al6s	ATOM	44482	N1	CYT	1176	201.910	118.449	1.727	1.00	80.12	Al
ATOM	44430	O3'	CYT	1173	192.124	129.800	4.234	1.00	49.27	Al6s	ATOM	44483	C6	CYT	1176	200.658	118.836	2.121	1.00	80.12	Al
ATOM	44431	P	GUA	1174	192.531	128.448	4.994	1.00	46.26	Al6s	ATOM	44484	C2	CYT	1176	203.038	119.115	2.227	1.00	80.12	Al
ATOM	44432	O1P	GUA	1174	191.460	128.047	5.947	1.00	65.52	Al6s	ATOM	44485	O2	CYT	1176	204.165	118.720	1.899	1.00	80.12	Al

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ATOM	44486	N3	CYT	1176	202.872	120.169	3.058	1.00	80.12	Al6S	ATOM	44539	C2P	GUA	1179	205.317	113.282	7.926	1.00	63.15	Al
ATOM	44487	C4	CYT	1176	201.649	120.555	3.408	1.00	80.12	Al6S	ATOM	44540	OS	GUA	1179	207.446	114.577	7.727	1.00	52.87	Al
ATOM	44488	N4	CYT	1176	201.540	121.610	4.207	1.00	80.12	Al6S	ATOM	44541	C5	GUA	1179	208.787	114.805	7.261	1.00	52.87	Al
ATOM	44489	C5	CYT	1176	200.484	119.876	2.949	1.00	80.12	Al6S	ATOM	44542	C4	GUA	1179	209.527	115.727	8.201	1.00	52.87	Al
ATOM	44490	C2	CYT	1176	202.155	115.903	1.255	1.00	54.50	Al6S	ATOM	44543	OS	GUA	1179	209.147	117.111	7.988	1.00	52.87	Al
ATOM	44491	OS	CYT	1176	203.174	115.233	0.541	1.00	54.50	Al6S	ATOM	44544	C1	GUA	1179	209.242	117.816	9.210	1.00	52.87	Al
ATOM	44492	C3	CYT	1176	200.752	115.388	0.930	1.00	54.50	Al6S	ATOM	44545	N9	GUA	1179	207.936	118.371	9.538	1.00	63.15	Al
ATOM	44493	OS	CYT	1176	200.637	114.011	0.531	1.00	54.50	Al6S	ATOM	44546	C4	GUA	1179	207.715	119.471	10.315	1.00	63.15	Al
ATOM	44494	P	URI	1177	200.996	112.807	1.539	1.00	70.50	Al6S	ATOM	44547	N3	GUA	1179	208.668	120.247	10.866	1.00	63.15	Al
ATOM	44495	OS	URI	1177	202.329	113.069	2.113	1.00	103.20	Al6S	ATOM	44548	C2	GUA	1179	208.152	121.227	11.584	1.00	63.15	Al
ATOM	44496	C2P	URI	1177	200.765	111.552	0.789	1.00	103.20	Al6S	ATOM	44549	N2	GUA	1179	208.961	122.103	12.198	1.00	63.15	Al
ATOM	44497	OS	URI	1177	199.905	112.863	2.703	1.00	70.50	Al6S	ATOM	44550	N1	GUA	1179	206.805	121.425	11.753	1.00	63.15	Al
ATOM	44498	C5	URI	1177	199.802	114.011	3.563	1.00	70.50	Al6S	ATOM	44551	C6	GUA	1179	205.805	120.635	11.202	1.00	63.15	Al
ATOM	44499	C4	URI	1177	199.482	113.610	4.991	1.00	70.50	Al6S	ATOM	44552	OS	GUA	1179	204.619	120.893	11.439	1.00	63.15	Al
ATOM	44500	C1	URI	1177	198.125	113.126	5.106	1.00	70.50	Al6S	ATOM	44553	C5	GUA	1179	206.347	119.583	10.413	1.00	63.15	Al
ATOM	44501	C1	URI	1177	198.001	112.485	6.358	1.00	70.50	Al6S	ATOM	44554	N7	GUA	1179	205.717	118.585	9.682	1.00	63.15	Al
ATOM	44502	N1	URI	1177	196.976	111.433	6.313	1.00	103.20	Al6S	ATOM	44555	C8	GUA	1179	206.698	117.894	9.175	1.00	63.15	Al
ATOM	44503	C6	URI	1177	197.257	110.154	5.886	1.00	103.20	Al6S	ATOM	44556	C2	GUA	1179	209.702	116.830	10.283	1.00	63.15	Al
ATOM	44504	C2	URI	1177	195.709	111.772	6.757	1.00	103.20	Al6S	ATOM	44557	OS	GUA	1179	211.094	116.959	10.427	1.00	52.87	Al
ATOM	44505	OS	URI	1177	195.403	112.901	7.109	1.00	103.20	Al6S	ATOM	44558	C3	GUA	1179	209.300	115.497	9.678	1.00	52.87	Al
ATOM	44506	N3	URI	1177	194.809	110.741	6.775	1.00	103.20	Al6S	ATOM	44559	OS	GUA	1179	210.078	114.426	10.148	1.00	52.87	Al
ATOM	44507	C4	URI	1177	195.031	109.439	6.393	1.00	103.20	Al6S	ATOM	44560	P	URI	1180	209.503	113.491	11.315	1.00	49.58	Al
ATOM	44508	OS	URI	1177	194.120	108.616	6.506	1.00	103.20	Al6S	ATOM	44561	OS	URI	1180	210.235	112.201	11.309	1.00	59.03	Al
ATOM	44509	C5	URI	1177	196.354	109.172	5.913	1.00	103.20	Al6S	ATOM	44562	C2P	URI	1180	208.012	113.488	11.227	1.00	59.03	Al
ATOM	44510	C2	URI	1177	199.394	112.053	8.828	1.00	70.50	Al6S	ATOM	44563	OS	URI	1180	209.910	114.267	12.645	1.00	49.58	Al
ATOM	44511	OS	URI	1177	199.675	112.656	8.074	1.00	70.50	Al6S	ATOM	44564	C5	URI	1180	211.287	114.562	12.954	1.00	49.58	Al
ATOM	44512	C3	URI	1177	200.288	112.505	5.669	1.00	70.50	Al6S	ATOM	44565	C4	URI	1180	211.365	115.740	13.903	1.00	49.58	Al
ATOM	44513	OS	URI	1177	201.622	112.870	6.083	1.00	70.50	Al6S	ATOM	44566	OS	URI	1180	210.715	116.880	13.282	1.00	49.58	Al
ATOM	44514	P	GUA	1178	201.917	114.280	6.828	1.00	43.04	Al6S	ATOM	44567	C1	URI	1180	210.037	117.637	14.260	1.00	49.58	Al
ATOM	44515	OS	GUA	1178	202.951	114.003	7.833	1.00	66.90	Al6S	ATOM	44568	N1	URI	1180	208.607	117.679	13.915	1.00	59.03	Al
ATOM	44516	C2P	GUA	1178	200.673	115.015	7.222	1.00	66.90	Al6S	ATOM	44569	C6	URI	1180	207.964	116.602	13.342	1.00	59.03	Al
ATOM	44517	OS	GUA	1178	202.641	115.114	5.689	1.00	43.04	Al6S	ATOM	44570	C2	URI	1180	207.925	118.846	14.185	1.00	59.03	Al
ATOM	44518	C5	GUA	1178	203.243	114.435	4.577	1.00	43.04	Al6S	ATOM	44571	OS	URI	1180	208.451	119.811	14.697	1.00	59.03	Al
ATOM	44519	C4	GUA	1178	204.597	115.000	4.300	1.00	43.04	Al6S	ATOM	44572	N3	URI	1180	206.451	118.841	13.832	1.00	59.03	Al
ATOM	44520	OS	GUA	1178	204.445	116.367	3.855	1.00	43.04	Al6S	ATOM	44573	C4	URI	1180	205.897	117.808	13.253	1.00	59.03	Al
ATOM	44521	C1	GUA	1178	205.450	117.170	4.434	1.00	43.04	Al6S	ATOM	44574	OS	URI	1180	204.700	117.960	12.996	1.00	59.03	Al
ATOM	44522	N9	GUA	1178	204.779	118.168	5.266	1.00	66.90	Al6S	ATOM	44575	C5	URI	1180	206.669	116.627	13.011	1.00	59.03	Al
ATOM	44523	C4	GUA	1178	205.363	119.214	5.949	1.00	66.90	Al6S	ATOM	44576	C2	URI	1180	210.329	117.009	15.623	1.00	49.58	Al
ATOM	44524	N3	GUA	1178	206.681	119.505	5.985	1.00	66.90	Al6S	ATOM	44577	OS	URI	1180	211.420	117.714	16.177	1.00	49.58	Al
ATOM	44525	C2	GUA	1178	206.929	120.578	6.716	1.00	66.90	Al6S	ATOM	44578	C3	URI	1180	210.670	115.569	15.248	1.00	49.58	Al
ATOM	44526	N2	GUA	1178	208.187	121.017	6.854	1.00	66.90	Al6S	ATOM	44579	OS	URI	1180	211.567	115.004	16.193	1.00	49.58	Al
ATOM	44527	N1	GUA	1178	205.966	121.303	7.361	1.00	66.90	Al6S	ATOM	44580	P	CYT	1181	211.293	113.545	16.789	1.00	86.73	Al
ATOM	44528	C6	GUA	1178	204.607	121.025	7.342	1.00	66.90	Al6S	ATOM	44581	OS	CYT	1181	212.489	113.158	17.570	1.00	80.16	Al
ATOM	44529	OS	GUA	1178	203.824	121.752	7.958	1.00	66.90	Al6S	ATOM	44582	C2P	CYT	1181	210.829	112.663	15.703	1.00	80.16	Al
ATOM	44530	C5	GUA	1178	203.321	119.875	6.563	1.00	66.90	Al6S	ATOM	44583	OS	CYT	1181	210.085	113.777	17.791	1.00	86.73	Al
ATOM	44531	N7	GUA	1178	203.109	119.256	6.284	1.00	66.90	Al6S	ATOM	44584	C5	CYT	1181	210.040	113.107	19.063	1.00	86.73	Al
ATOM	44532	C8	GUA	1178	203.429	118.252	5.516	1.00	66.90	Al6S	ATOM	44585	C4	CYT	1181	209.147	113.870	20.005	1.00	86.73	Al
ATOM	44533	C2	GUA	1178	206.403	116.232	5.190	1.00	43.04	Al6S	ATOM	44586	OS	CYT	1181	207.859	114.023	19.377	1.00	86.73	Al
ATOM	44534	OS	GUA	1178	207.443	115.805	4.326	1.00	43.04	Al6S	ATOM	44587	C1	CYT	1181	206.873	114.123	20.373	1.00	86.73	Al
ATOM	44535	C3	GUA	1178	205.487	115.068	5.521	1.00	43.04	Al6S	ATOM	44588	N1	CYT	1181	205.697	113.322	19.991	1.00	80.16	Al
ATOM	44536	OS	GUA	1178	206.196	113.852	5.686	1.00	43.04	Al6S	ATOM	44589	C6	CYT	1181	205.804	112.266	19.131	1.00	80.16	Al
ATOM	44537	P	GUA	1179	206.586	113.361	7.164	1.00	52.87	Al6S	ATOM	44590	C2	CYT	1181	204.447	113.684	20.509	1.00	80.16	Al
ATOM	44538	OS	GUA	1179	207.474	112.166	7.094	1.00	63.15	Al6S	ATOM	44591	OS	CYT	1181	204.378	114.623	21.320	1.00	80.16	Al

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ATOM	44592	N3	CYT	1181	203.349	113.006	20.118	1.00	80.16	A16S	ATOM	44645	P	CYT	1184	213.134	118.292	24.980	1.00	59.30	A1
ATOM	44593	C4	CYT	1181	203.460	111.996	19.262	1.00	80.16	A16S	ATOM	44646	O1P	CYT	1184	213.649	117.841	26.299	1.00	68.61	A1
ATOM	44594	N4	CYT	1181	202.347	111.368	18.990	1.00	80.16	A16S	ATOM	44647	O2P	CYT	1184	212.389	117.337	24.132	1.00	68.61	A1
ATOM	44595	C5	CYT	1181	204.720	111.585	18.740	1.00	80.16	A16S	ATOM	44648	O5'	CYT	1184	212.204	119.559	25.241	1.00	59.30	A1
ATOM	44596	C2'	CYT	1181	207.514	113.853	21.736	1.00	86.73	A16S	ATOM	44649	C5'	CYT	1184	212.696	120.664	26.021	1.00	59.30	A1
ATOM	44597	O2'	CYT	1181	207.687	115.104	22.388	1.00	86.73	A16S	ATOM	44650	C4'	CYT	1184	211.712	121.809	26.019	1.00	59.30	A1
ATOM	44598	C3'	CYT	1181	208.860	113.238	21.361	1.00	86.73	A16S	ATOM	44651	O4'	CYT	1184	211.663	122.451	24.718	1.00	59.30	A1
ATOM	44599	O3'	CYT	1181	209.785	113.731	22.333	1.00	86.73	A16S	ATOM	44652	C1'	CYT	1184	210.344	122.915	24.465	1.00	59.30	A1
ATOM	44600	P	ADE	1182	211.095	112.891	22.728	1.00	62.98	A16S	ATOM	44653	N1	CYT	1184	209.808	122.189	23.291	1.00	68.61	A1
ATOM	44601	O1P	ADE	1182	210.949	111.488	22.235	1.00	63.69	A16S	ATOM	44654	C6	CYT	1184	210.391	121.028	22.862	1.00	68.61	A1
ATOM	44602	O2P	ADE	1182	211.332	113.126	24.172	1.00	63.69	A16S	ATOM	44655	C2	CYT	1184	208.659	122.693	22.630	1.00	68.61	A1
ATOM	44603	O5'	ADE	1182	212.259	113.639	21.926	1.00	62.98	A16S	ATOM	44656	O2	CYT	1184	208.137	123.760	23.022	1.00	68.61	A1
ATOM	44604	C5'	ADE	1182	212.397	115.092	21.964	1.00	62.98	A16S	ATOM	44657	N3	CYT	1184	208.146	121.998	21.591	1.00	68.61	A1
ATOM	44605	C4'	ADE	1182	213.605	115.526	21.161	1.00	62.98	A16S	ATOM	44658	C4	CYT	1184	208.714	120.855	21.205	1.00	68.61	A1
ATOM	44606	O4'	ADE	1182	214.712	114.751	21.639	1.00	62.98	A16S	ATOM	44659	N4	CYT	1184	208.153	120.192	20.194	1.00	68.61	A1
ATOM	44607	C1'	ADE	1182	215.526	114.358	20.567	1.00	62.98	A16S	ATOM	44660	C5	CYT	1184	209.880	120.335	21.840	1.00	68.61	A1
ATOM	44608	N9	ADE	1182	215.899	112.964	20.771	1.00	63.69	A16S	ATOM	44661	C2'	CYT	1184	209.508	122.608	25.714	1.00	59.30	A1
ATOM	44609	C4	ADE	1182	217.106	112.413	20.427	1.00	63.69	A16S	ATOM	44662	O2'	CYT	1184	209.443	123.727	26.581	1.00	59.30	A1
ATOM	44610	N3	ADE	1182	218.136	113.028	19.815	1.00	63.69	A16S	ATOM	44663	C3'	CYT	1184	210.273	121.436	26.303	1.00	59.30	A1
ATOM	44611	C2	ADE	1182	219.145	112.185	19.649	1.00	63.69	A16S	ATOM	44664	O3'	CYT	1184	210.019	121.228	27.673	1.00	59.30	A1
ATOM	44612	N1	ADE	1182	219.237	110.894	20.000	1.00	63.69	A16S	ATOM	44665	P	ADE	1185	209.047	120.030	28.109	1.00	84.03	A1
ATOM	44613	C6	ADE	1182	218.183	110.310	20.617	1.00	63.69	A16S	ATOM	44666	O1P	ADE	1185	209.103	119.932	29.588	1.00	75.83	A1
ATOM	44614	N6	ADE	1182	218.274	109.027	20.972	1.00	63.69	A16S	ATOM	44667	O2P	ADE	1185	209.368	118.826	27.291	1.00	75.83	A1
ATOM	44615	C5	ADE	1182	217.051	111.096	20.849	1.00	63.69	A16S	ATOM	44668	O5'	ADE	1185	207.618	120.598	27.684	1.00	84.03	A1
ATOM	44616	N7	ADE	1182	215.824	110.816	21.435	1.00	63.69	A16S	ATOM	44669	C5'	ADE	1185	207.189	121.902	28.132	1.00	84.03	A1
ATOM	44617	C8	ADE	1182	215.174	111.953	21.357	1.00	63.69	A16S	ATOM	44670	C4'	ADE	1185	205.867	122.275	27.502	1.00	84.03	A1
ATOM	44618	C2'	ADE	1182	214.862	114.712	19.239	1.00	62.98	A16S	ATOM	44671	O1'	ADE	1185	204.940	122.090	26.091	1.00	84.03	A1
ATOM	44619	O2'	ADE	1182	215.666	115.569	18.469	1.00	62.98	A16S	ATOM	44672	C1'	ADE	1185	204.663	122.550	25.353	1.00	84.03	A1
ATOM	44620	C3'	ADE	1182	213.999	116.383	18.951	1.00	62.98	A16S	ATOM	44673	N9	ADE	1185	205.395	121.045	24.423	1.00	75.83	A1
ATOM	44621	O3'	ADE	1182	212.990	116.383	18.951	1.00	62.98	A16S	ATOM	44674	C4	ADE	1185	204.643	120.424	23.448	1.00	75.83	A1
ATOM	44622	P	GUA	1183	213.786	117.803	18.940	1.00	59.26	A16S	ATOM	44675	C3	ADE	1185	203.362	120.666	23.162	1.00	75.83	A1
ATOM	44623	O1P	GUA	1183	212.773	118.770	18.474	1.00	65.88	A16S	ATOM	44676	C2	ADE	1185	202.959	119.844	22.152	1.00	75.83	A1
ATOM	44624	O2P	GUA	1183	215.089	117.749	18.231	1.00	65.88	A16S	ATOM	44677	N1	ADE	1185	204.918	118.664	21.874	1.00	75.83	A1
ATOM	44625	O5'	GUA	1183	214.008	118.149	20.483	1.00	59.26	A16S	ATOM	44678	C6	ADE	1185	205.587	117.696	21.248	1.00	75.83	A1
ATOM	44626	C5'	GUA	1183	215.318	118.435	21.027	1.00	59.26	A16S	ATOM	44679	N6	ADE	1185	205.470	119.471	22.883	1.00	75.83	A1
ATOM	44627	C4'	GUA	1183	215.258	119.632	21.958	1.00	59.26	A16S	ATOM	44680	C5	ADE	1185	206.731	119.506	23.464	1.00	75.83	A1
ATOM	44628	O4'	GUA	1183	215.128	120.852	21.182	1.00	59.26	A16S	ATOM	44681	N7	ADE	1185	206.637	120.457	24.362	1.00	75.83	A1
ATOM	44629	C1'	GUA	1183	214.348	121.792	21.894	1.00	59.26	A16S	ATOM	44682	C8	ADE	1185	202.972	122.590	26.666	1.00	84.03	A1
ATOM	44630	N9	GUA	1183	213.198	122.179	21.075	1.00	65.88	A16S	ATOM	44683	C2'	ADE	1185	203.905	121.572	26.363	1.00	84.03	A1
ATOM	44631	C4	GUA	1183	212.448	123.333	21.206	1.00	65.88	A16S	ATOM	44684	O2'	ADE	1185	204.782	121.209	27.557	1.00	84.03	A1
ATOM	44632	N3	GUA	1183	212.639	124.308	22.117	1.00	65.88	A16S	ATOM	44685	C3'	ADE	1185	204.063	121.228	28.788	1.00	84.03	A1
ATOM	44633	C2	GUA	1183	211.771	125.294	21.977	1.00	65.88	A16S	ATOM	44686	O3'	ADE	1185	203.683	119.839	29.516	1.00	74.46	A1
ATOM	44634	N2	GUA	1183	211.825	126.350	22.787	1.00	65.88	A16S	ATOM	44687	P	URI	1186	202.995	120.179	30.786	1.00	74.90	A1
ATOM	44635	N1	GUA	1183	210.787	125.323	21.031	1.00	65.88	A16S	ATOM	44688	O1P	URI	1186	202.875	118.956	29.548	1.00	74.90	A1
ATOM	44636	C6	GUA	1183	210.555	124.333	20.091	1.00	65.88	A16S	ATOM	44689	O2P	URI	1186	202.597	119.167	28.560	1.00	74.46	A1
ATOM	44637	O6	GUA	1183	209.617	124.459	19.294	1.00	65.88	A16S	ATOM	44690	O5'	URI	1186	201.263	119.709	28.460	1.00	74.46	A1
ATOM	44638	C5	GUA	1183	211.493	123.264	20.215	1.00	65.88	A16S	ATOM	44691	C5'	URI	1186	200.949	119.026	27.357	1.00	74.46	A1
ATOM	44639	N7	GUA	1183	212.653	122.095	19.481	1.00	65.88	A16S	ATOM	44692	C4'	URI	1186	201.161	119.263	26.093	1.00	74.46	A1
ATOM	44640	C8	GUA	1183	212.651	121.484	20.028	1.00	65.88	A16S	ATOM	44693	O4'	URI	1186	201.021	118.126	25.257	1.00	74.46	A1
ATOM	44641	C2'	GUA	1183	213.967	121.165	23.234	1.00	59.26	A16S	ATOM	44694	C1'	URI	1186	202.359	117.588	24.951	1.00	74.90	A1
ATOM	44642	O2'	GUA	1183	214.883	121.626	24.201	1.00	59.26	A16S	ATOM	44695	N1	URI	1186	203.439	117.870	25.756	1.00	74.90	A1
ATOM	44643	C3'	GUA	1183	214.103	119.673	22.948	1.00	59.26	A16S	ATOM	44696	C6	URI	1186	202.499	116.766	23.839	1.00	74.90	A1
ATOM	44644	O3'	GUA	1183	214.365	118.910	24.134	1.00	59.26	A16S	ATOM	44697	C2	URI	1186						A1

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ATOM	44698	O2	URI	1186	201.588	116.523	23.065	1.00	74.90	Al6s	ATOM	44751	C3'	GUA	1188	196.387	107.373	27.069	1.00	66.22	Al
ATOM	44699	N3	URI	1186	203.755	116.243	23.664	1.00	74.90	Al6s	ATOM	44752	O3'	GUA	1188	195.724	106.296	27.700	1.00	66.22	Al
ATOM	44700	C4	URI	1186	204.865	116.462	24.455	1.00	74.90	Al6s	ATOM	44753	P	CYT	1189	196.573	105.284	28.606	1.00	72.38	Al
ATOM	44701	O4	URI	1186	205.898	115.833	24.234	1.00	74.90	Al6s	ATOM	44754	O1P	CYT	1189	195.668	104.204	29.077	1.00	74.99	Al
ATOM	44702	C5	URI	1186	204.651	117.352	25.548	1.00	74.90	Al6s	ATOM	44755	O2P	CYT	1189	197.338	106.090	29.588	1.00	74.99	Al
ATOM	44703	C2'	URI	1186	200.152	117.112	26.001	1.00	74.46	Al6s	ATOM	44756	O5'	CYT	1189	197.631	104.647	27.603	1.00	72.38	Al
ATOM	44704	O2'	URI	1186	198.814	117.272	25.575	1.00	74.46	Al6s	ATOM	44757	C5'	CYT	1189	197.297	103.515	26.791	1.00	72.38	Al
ATOM	44705	C3'	URI	1186	200.376	117.514	27.453	1.00	74.46	Al6s	ATOM	44758	C4'	CYT	1189	198.557	102.883	26.252	1.00	72.38	Al
ATOM	44706	O3'	URI	1186	199.302	117.117	28.304	1.00	74.46	Al6s	ATOM	44759	O4'	CYT	1189	199.295	103.866	25.503	1.00	72.38	Al
ATOM	44707	P	GUA	1187	199.258	115.617	28.902	1.00	67.29	Al6s	ATOM	44760	C1'	CYT	1189	200.689	103.679	25.671	1.00	72.38	Al
ATOM	44708	O1P	GUA	1187	198.626	115.699	30.241	1.00	75.74	Al6s	ATOM	44761	N1	CYT	1189	201.278	104.897	26.258	1.00	74.99	Al
ATOM	44709	O2P	GUA	1187	200.589	114.978	28.761	1.00	75.74	Al6s	ATOM	44762	C6	CYT	1189	200.485	105.874	26.791	1.00	74.99	Al
ATOM	44710	O5'	GUA	1187	198.247	114.844	27.942	1.00	67.29	Al6s	ATOM	44763	C2	CYT	1189	202.671	105.037	26.267	1.00	74.99	Al
ATOM	44711	C5'	GUA	1187	196.883	115.285	27.787	1.00	67.29	Al6s	ATOM	44764	O2	CYT	1189	203.367	104.140	25.775	1.00	74.99	Al
ATOM	44712	C4'	GUA	1187	196.154	114.392	26.816	1.00	67.29	Al6s	ATOM	44765	N3	CYT	1189	203.222	106.145	26.814	1.00	74.99	Al
ATOM	44713	O4'	GUA	1187	196.642	114.624	25.472	1.00	67.29	Al6s	ATOM	44766	C4	CYT	1189	202.438	107.088	27.338	1.00	74.99	Al
ATOM	44714	C1'	GUA	1187	196.681	113.395	24.756	1.00	67.29	Al6s	ATOM	44767	N4	CYT	1189	203.019	108.161	27.875	1.00	74.99	Al
ATOM	44715	N9	GUA	1187	198.068	113.118	24.379	1.00	75.74	Al6s	ATOM	44768	C5	CYT	1189	201.018	106.972	27.338	1.00	74.99	Al
ATOM	44716	C4	GUA	1187	198.512	112.118	23.537	1.00	75.74	Al6s	ATOM	44769	C2'	CYT	1189	200.879	102.442	26.551	1.00	72.38	Al
ATOM	44717	N3	GUA	1187	197.740	111.220	22.886	1.00	75.74	Al6s	ATOM	44770	O2'	CYT	1189	201.092	101.302	25.744	1.00	72.38	Al
ATOM	44718	C2	GUA	1187	198.461	110.376	22.166	1.00	75.74	Al6s	ATOM	44771	C3'	CYT	1189	199.550	102.383	27.294	1.00	72.38	Al
ATOM	44719	N2	GUA	1187	197.856	109.426	21.442	1.00	75.74	Al6s	ATOM	44772	O3'	CYT	1189	199.258	101.065	27.750	1.00	72.38	Al
ATOM	44720	N1	GUA	1187	199.829	110.406	22.100	1.00	75.74	Al6s	ATOM	44773	P	CYT	1190	199.738	100.610	29.221	1.00	89.33	Al
ATOM	44721	C6	GUA	1187	200.643	111.320	22.759	1.00	75.74	Al6s	ATOM	44774	O1P	CYT	1190	199.197	99.242	29.493	1.00	70.68	Al
ATOM	44722	O6	GUA	1187	201.871	111.255	22.633	1.00	75.74	Al6s	ATOM	44775	O2P	CYT	1190	199.416	101.734	30.153	1.00	70.68	Al
ATOM	44723	C5	GUA	1187	199.884	112.234	23.527	1.00	75.74	Al6s	ATOM	44776	O5'	CYT	1190	201.328	100.995	29.107	1.00	89.33	Al
ATOM	44724	N7	GUA	1187	200.296	113.289	24.328	1.00	75.74	Al6s	ATOM	44777	C5'	CYT	1190	201.952	99.415	28.374	1.00	89.33	Al
ATOM	44725	C8	GUA	1187	199.189	113.786	24.807	1.00	75.74	Al6s	ATOM	44778	C4'	CYT	1190	203.450	99.634	28.274	1.00	89.33	Al
ATOM	44726	C2'	GUA	1187	196.104	112.309	25.669	1.00	67.29	Al6s	ATOM	44779	O4'	CYT	1190	203.694	100.925	27.656	1.00	89.33	Al
ATOM	44727	O2'	GUA	1187	194.731	112.116	25.382	1.00	67.29	Al6s	ATOM	44780	C1'	CYT	1190	204.860	101.510	28.210	1.00	89.33	Al
ATOM	44728	C3'	GUA	1187	196.355	112.905	27.048	1.00	67.29	Al6s	ATOM	44781	N1	CYT	1190	204.484	102.780	28.859	1.00	70.68	Al
ATOM	44729	O3'	GUA	1187	195.460	112.408	28.020	1.00	67.29	Al6s	ATOM	44782	C6	CYT	1190	203.199	103.006	29.260	1.00	70.68	Al
ATOM	44730	P	GUA	1188	195.975	111.340	29.097	1.00	66.22	Al6s	ATOM	44783	C2	CYT	1190	205.469	103.754	29.074	1.00	70.68	Al
ATOM	44731	O1P	GUA	1188	194.869	111.196	30.077	1.00	78.04	Al6s	ATOM	44784	O2	CYT	1190	206.631	103.545	28.680	1.00	70.68	Al
ATOM	44732	O2P	GUA	1188	197.328	111.744	29.561	1.00	78.04	Al6s	ATOM	44785	N3	CYT	1190	205.133	104.899	29.701	1.00	70.68	Al
ATOM	44733	O5'	GUA	1188	196.102	109.976	28.286	1.00	66.22	Al6s	ATOM	44786	C4	CYT	1190	203.878	105.100	30.095	1.00	70.68	Al
ATOM	44734	C5'	GUA	1188	194.978	109.443	27.571	1.00	66.22	Al6s	ATOM	44787	N4	CYT	1190	203.595	106.244	30.711	1.00	70.68	Al
ATOM	44735	C4'	GUA	1188	195.438	108.438	26.548	1.00	66.22	Al6s	ATOM	44788	C5	CYT	1190	202.857	104.140	29.874	1.00	70.68	Al
ATOM	44736	O4'	GUA	1188	196.189	109.105	25.498	1.00	66.22	Al6s	ATOM	44789	C2'	CYT	1190	205.457	100.509	29.199	1.00	89.33	Al
ATOM	44737	C1'	GUA	1188	197.207	108.233	25.017	1.00	66.22	Al6s	ATOM	44790	O3'	CYT	1190	206.451	99.748	29.543	1.00	89.33	Al
ATOM	44738	N9	GUA	1188	198.516	108.867	25.163	1.00	78.04	Al6s	ATOM	44791	C2'	CYT	1190	204.235	99.684	29.580	1.00	89.33	Al
ATOM	44739	C4	GUA	1188	199.698	108.403	24.623	1.00	78.04	Al6s	ATOM	44792	O3'	CYT	1190	204.600	98.384	30.054	1.00	89.33	Al
ATOM	44740	N3	GUA	1188	199.844	107.292	23.866	1.00	78.04	Al6s	ATOM	44793	P	CYT	1191	204.797	98.132	31.638	1.00	81.82	Al
ATOM	44741	C2	GUA	1188	201.100	107.101	22.753	1.00	78.04	Al6s	ATOM	44794	O1P	CYT	1191	204.932	96.659	31.852	1.00	82.51	Al
ATOM	44742	N2	GUA	1188	201.425	106.037	22.502	1.00	78.04	Al6s	ATOM	44795	O2P	CYT	1191	203.741	98.887	32.369	1.00	82.51	Al
ATOM	44743	N1	GUA	1188	202.129	107.938	23.850	1.00	78.04	Al6s	ATOM	44796	O5'	CYT	1191	206.195	98.821	31.977	1.00	81.82	Al
ATOM	44744	C6	GUA	1188	202.005	109.084	24.627	1.00	78.04	Al6s	ATOM	44797	C5'	CYT	1191	207.426	98.271	31.475	1.00	81.82	Al
ATOM	44745	O6	GUA	1188	203.000	109.767	24.876	1.00	78.04	Al6s	ATOM	44798	C4'	CYT	1191	208.601	99.075	31.969	1.00	81.82	Al
ATOM	44746	C5	GUA	1188	200.163	109.298	25.031	1.00	78.04	Al6s	ATOM	44799	O4'	CYT	1191	208.531	100.426	31.452	1.00	81.82	Al
ATOM	44747	N7	GUA	1188	200.104	110.307	25.808	1.00	78.04	Al6s	ATOM	44800	C1'	CYT	1191	209.097	101.324	32.388	1.00	81.82	Al
ATOM	44748	C8	GUA	1188	198.832	110.013	25.859	1.00	78.04	Al6s	ATOM	44801	N1	CYT	1191	208.121	102.384	32.690	1.00	82.51	Al
ATOM	44749	C2'	GUA	1188	197.135	106.929	25.814	1.00	66.22	Al6s	ATOM	44802	C6	CYT	1191	206.791	102.225	32.406	1.00	82.51	Al
ATOM	44750	O2'	GUA	1188	196.478	105.929	25.057	1.00	66.22	Al6s	ATOM	44803	C2	CYT	1191	208.581	103.575	33.271	1.00	82.51	Al

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ATOM	44804	O2	CYT	1191	209.786	103.687	33.535	1.00	82.51	Al6s	ATOM	44857	C5' ADE	1194	216.932	97.160	36.225	1.00143.85	Al
ATOM	44805	N3	CYT	1191	207.703	104.568	33.531	1.00	82.51	Al6s	ATOM	44858	C4' ADE	1194	215.592	97.858	36.146	1.00143.85	Al
ATOM	44806	C4	CYT	1191	206.410	104.406	33.239	1.00	82.51	Al6s	ATOM	44859	O4' ADE	1194	215.414	98.712	37.288	1.00143.85	Al
ATOM	44807	N4	CYT	1191	205.581	105.416	33.505	1.00	82.51	Al6s	ATOM	44860	C1' ADE	1194	214.453	99.685	36.971	1.00143.85	Al
ATOM	44808	C5	CYT	1191	205.910	103.201	32.660	1.00	82.51	Al6s	ATOM	44861	N9 ADE	1194	214.730	100.911	37.721	1.00 90.97	Al
ATOM	44809	C2' CYT	1191	209.543	100.518	33.606	1.00	81.82	Al6s	ATOM	44862	C4 ADE	1194	214.073	102.111	37.607	1.00 90.97	Al	
ATOM	44810	O2' CYT	1191	210.930	100.289	33.486	1.00	81.82	Al6s	ATOM	44863	N3 ADE	1194	213.097	102.427	36.740	1.00 90.97	Al	
ATOM	44811	C3' CYT	1191	208.697	99.255	33.470	1.00	81.82	Al6s	ATOM	44864	C2 ADE	1194	212.677	103.674	36.942	1.00 90.97	Al	
ATOM	44812	O3' CYT	1191	209.296	98.115	34.063	1.00	81.82	Al6s	ATOM	44865	N1 ADE	1194	213.087	104.573	37.848	1.00 90.97	Al	
ATOM	44813	P' URI	1192	208.679	97.504	35.418	1.00106.31	Al6s	ATOM	44866	C6 ADE	1194	214.068	105.112	39.622	1.00 90.97	Al		
ATOM	44814	O1P URI	1192	208.582	96.027	35.221	1.00 63.17	Al6s	ATOM	44867	N6 ADE	1194	214.468	105.112	39.622	1.00 90.97	Al		
ATOM	44815	O2P URI	1192	207.458	98.282	35.785	1.00 63.17	Al6s	ATOM	44868	C5 ADE	1194	214.605	102.927	38.589	1.00 90.97	Al		
ATOM	44816	O5' URI	1192	209.815	97.797	36.496	1.00106.31	Al6s	ATOM	44869	N7 ADE	1194	215.607	102.267	39.283	1.00 90.97	Al		
ATOM	44817	C5' URI	1192	209.494	98.288	37.802	1.00106.31	Al6s	ATOM	44870	C8 ADE	1194	215.649	101.084	38.724	1.00 90.97	Al		
ATOM	44818	C4' URI	1192	210.072	99.666	37.987	1.00106.31	Al6s	ATOM	44871	C2' ADE	1194	214.307	99.761	35.447	1.00143.85	Al		
ATOM	44819	O4' URI	1192	209.388	100.592	37.116	1.00106.31	Al6s	ATOM	44872	O2' ADE	1194	212.992	99.363	35.131	1.00143.85	Al		
ATOM	44820	C1' URI	1192	209.548	101.892	37.637	1.00106.31	Al6s	ATOM	44873	C3' ADE	1194	215.370	98.772	34.949	1.00143.85	Al		
ATOM	44821	N1 URI	1192	208.361	102.716	37.357	1.00 63.17	Al6s	ATOM	44874	O3' ADE	1194	214.847	98.003	33.864	1.00143.85	Al		
ATOM	44822	C6 URI	1192	207.268	102.219	36.673	1.00 63.17	Al6s	ATOM	44875	P' CYT	1195	215.611	97.963	32.448	1.00 90.58	Al		
ATOM	44823	C2 URI	1192	208.386	104.044	37.796	1.00 63.17	Al6s	ATOM	44876	O1P CYT	1195	215.078	96.781	31.721	1.00 69.84	Al		
ATOM	44824	O2 URI	1192	209.324	104.525	38.417	1.00 63.17	Al6s	ATOM	44877	O2P CYT	1195	217.070	98.073	32.706	1.00 69.84	Al		
ATOM	44825	N3 URI	1192	207.271	104.786	37.479	1.00 63.17	Al6s	ATOM	44878	O5' CYT	1195	215.113	99.274	31.687	1.00 90.58	Al		
ATOM	44826	C4 URI	1192	206.149	104.357	36.791	1.00 63.17	Al6s	ATOM	44879	C5' CYT	1195	216.045	100.202	31.081	1.00 90.58	Al		
ATOM	44827	O4 URI	1192	205.210	105.148	36.606	1.00 63.17	Al6s	ATOM	44880	C4' CYT	1195	215.288	101.328	30.421	1.00 90.58	Al		
ATOM	44828	C5 URI	1192	206.192	102.972	36.380	1.00 63.17	Al6s	ATOM	44881	O4' CYT	1195	214.467	100.761	29.382	1.00 90.58	Al		
ATOM	44829	C2' URI	1192	209.954	101.776	39.109	1.00106.31	Al6s	ATOM	44882	C1' CYT	1195	213.230	101.441	29.324	1.00 90.58	Al		
ATOM	44830	O2' URI	1192	211.263	102.284	39.255	1.00106.31	Al6s	ATOM	44883	N1 CYT	1195	212.150	100.439	29.214	1.00 69.84	Al		
ATOM	44831	C3' URI	1192	209.878	100.272	39.368	1.00106.31	Al6s	ATOM	44884	C6 CYT	1195	212.397	99.128	29.514	1.00 69.84	Al		
ATOM	44832	O3' URI	1192	210.961	99.908	40.228	1.00106.31	Al6s	ATOM	44885	C2 CYT	1195	210.877	100.833	28.751	1.00 69.84	Al		
ATOM	44833	P' URI	1193	210.884	98.561	41.100	1.00141.74	Al6s	ATOM	44886	O2 CYT	1195	210.643	102.035	28.549	1.00 69.84	Al		
ATOM	44834	O1P URI	1193	209.452	98.233	41.328	1.00165.16	Al6s	ATOM	44887	N3 CYT	1195	209.934	99.888	28.547	1.00 69.84	Al		
ATOM	44835	O2P URI	1193	211.786	98.751	42.261	1.00165.16	Al6s	ATOM	44888	C4 CYT	1195	210.208	98.602	28.807	1.00 69.84	Al		
ATOM	44836	O5' URI	1193	211.494	97.450	40.135	1.00141.74	Al6s	ATOM	44889	N4 CYT	1195	209.259	97.690	28.564	1.00 69.84	Al		
ATOM	44837	C5' URI	1193	212.578	96.603	40.557	1.00141.74	Al6s	ATOM	44890	C5 CYT	1195	211.469	98.188	29.324	1.00 69.84	Al		
ATOM	44838	C4' URI	1193	213.895	97.319	40.371	1.00141.74	Al6s	ATOM	44891	C2' CYT	1195	213.178	102.486	30.444	1.00 90.58	Al		
ATOM	44839	O4' URI	1193	214.167	98.156	41.524	1.00141.74	Al6s	ATOM	44892	O2' CYT	1195	213.350	103.784	29.899	1.00 90.58	Al		
ATOM	44840	C1' URI	1193	215.562	98.197	41.769	1.00141.74	Al6s	ATOM	44893	C3' CYT	1195	214.329	102.055	31.357	1.00 90.58	Al		
ATOM	44841	N1 URI	1193	215.806	97.844	43.179	1.00165.16	Al6s	ATOM	44894	O3' CYT	1195	214.911	103.229	31.953	1.00 90.58	Al		
ATOM	44842	C6 URI	1193	216.009	96.538	43.576	1.00165.16	Al6s	ATOM	44895	P' GUA	1196	216.336	103.797	31.437	1.00 80.32	Al		
ATOM	44843	C2 URI	1193	215.825	98.880	44.109	1.00165.16	Al6s	ATOM	44896	O1P GUA	1196	216.179	104.115	29.993	1.00 89.39	Al		
ATOM	44844	O2 URI	1193	215.651	100.052	43.812	1.00165.16	Al6s	ATOM	44897	O2P GUA	1196	217.427	102.888	31.877	1.00 89.39	Al		
ATOM	44845	N3 URI	1193	216.054	98.492	45.404	1.00165.16	Al6s	ATOM	44898	O5' GUA	1196	216.507	105.182	32.206	1.00 80.32	Al		
ATOM	44846	C4 URI	1193	216.257	97.210	45.864	1.00165.16	Al6s	ATOM	44899	C5' GUA	1196	215.448	106.157	32.207	1.00 80.32	Al		
ATOM	44847	O4 URI	1193	216.405	97.021	47.072	1.00165.16	Al6s	ATOM	44900	C4' GUA	1196	215.178	106.638	33.614	1.00 80.32	Al		
ATOM	44848	C5 URI	1193	216.228	96.198	44.850	1.00165.16	Al6s	ATOM	44901	O4' GUA	1196	214.791	105.514	34.446	1.00 80.32	Al		
ATOM	44849	C2' URI	1193	216.258	97.322	40.722	1.00141.74	Al6s	ATOM	44902	C1' GUA	1196	215.320	105.670	35.752	1.00 80.32	Al		
ATOM	44850	O2' URI	1193	216.781	98.163	39.716	1.00141.74	Al6s	ATOM	44903	N4 GUA	1196	216.154	104.505	36.060	1.00 89.39	Al		
ATOM	44851	C3' URI	1193	215.114	96.423	40.244	1.00141.74	Al6s	ATOM	44904	C9 GUA	1196	217.004	104.354	37.136	1.00 89.39	Al		
ATOM	44852	O3' URI	1193	215.199	96.014	38.875	1.00141.74	Al6s	ATOM	44905	N3 GUA	1196	217.225	105.265	38.111	1.00 89.39	Al		
ATOM	44853	P' ADE	1194	216.586	95.478	38.265	1.00143.85	Al6s	ATOM	44906	C2 GUA	1196	218.079	104.820	39.022	1.00 89.39	Al		
ATOM	44854	O1P ADE	1194	216.222	94.518	37.197	1.00 90.97	Al6s	ATOM	44907	N2 GUA	1196	218.388	105.589	40.077	1.00 89.39	Al		
ATOM	44855	O2P ADE	1194	217.471	95.038	39.374	1.00 90.97	Al6s	ATOM	44908	N1 GUA	1196	218.686	103.586	38.969	1.00 89.39	Al		
ATOM	44856	O5' ADE	1194	217.226	96.778	37.595	1.00143.85	Al6s	ATOM	44909	C6 GUA	1196	218.482	102.634	37.973	1.00 89.39	Al		

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ATOM	44910	O6	GUA	1196	219.089	101.553	38.015	1.00	89.39	Al6S	ATOM	44963	O2P	CYT	1199	227.523	111.127	35.342	1.00	81.47	Al
ATOM	44911	C5	GUA	1196	217.549	103.030	36.998	1.00	89.39	Al6S	ATOM	44964	O5'	CYT	1199	229.428	110.240	36.699	1.00	77.82	Al
ATOM	44912	N7	GUA	1196	217.051	102.458	35.867	1.00	89.39	Al6S	ATOM	44965	C5'	CYT	1199	230.244	110.155	37.870	1.00	77.82	Al
ATOM	44913	C8	GUA	1196	216.236	103.332	35.342	1.00	89.39	Al6S	ATOM	44966	C4'	CYT	1199	231.066	108.895	37.855	1.00	77.82	Al
ATOM	44914	C2'	GUA	1196	216.029	107.025	35.798	1.00	80.32	Al6S	ATOM	44967	O4'	CYT	1199	230.214	107.725	37.904	1.00	77.82	Al
ATOM	44915	O2'	GUA	1196	215.106	107.977	36.295	1.00	80.32	Al6S	ATOM	44968	C1'	CYT	1199	230.893	106.637	37.315	1.00	77.82	Al
ATOM	44916	C3'	GUA	1196	216.368	107.248	34.326	1.00	80.32	Al6S	ATOM	44969	N1	CYT	1199	230.012	105.967	36.348	1.00	81.47	Al
ATOM	44917	O3'	GUA	1196	216.500	108.618	33.974	1.00	80.32	Al6S	ATOM	44970	C6	CYT	1199	228.958	106.617	35.765	1.00	81.47	Al
ATOM	44918	P	GUA	1197	217.934	109.184	33.514	1.00	71.28	Al6S	ATOM	44971	O2	CYT	1199	230.282	104.630	36.029	1.00	81.47	Al
ATOM	44919	O1P	GUA	1197	217.781	110.639	33.226	1.00	83.34	Al6S	ATOM	44972	O2	CYT	1199	231.249	104.069	36.569	1.00	81.47	Al
ATOM	44920	O2P	GUA	1197	218.485	108.276	32.470	1.00	83.34	Al6S	ATOM	44973	N3	CYT	1199	229.492	103.987	35.142	1.00	81.47	Al
ATOM	44921	O5'	GUA	1197	218.831	109.029	34.821	1.00	71.28	Al6S	ATOM	44974	N4	CYT	1199	228.468	106.821	34.578	1.00	81.47	Al
ATOM	44922	C3'	GUA	1197	218.487	109.722	36.029	1.00	71.28	Al6S	ATOM	44975	N4	CYT	1199	227.718	103.951	33.709	1.00	81.47	Al
ATOM	44923	C4'	GUA	1197	219.466	109.365	37.136	1.00	71.28	Al6S	ATOM	44976	C5	CYT	1199	228.169	105.993	34.881	1.00	81.47	Al
ATOM	44924	O4'	GUA	1197	219.206	108.014	37.609	1.00	71.28	Al6S	ATOM	44977	C2'	CYT	1199	232.187	107.161	36.692	1.00	77.82	Al
ATOM	44925	C1'	GUA	1197	220.652	106.164	38.094	1.00	71.28	Al6S	ATOM	44978	O2'	CYT	1199	233.244	106.818	37.553	1.00	77.82	Al
ATOM	44926	N9	GUA	1197	220.550	105.209	37.881	1.00	83.34	Al6S	ATOM	44979	C3'	CYT	1199	231.933	108.664	36.634	1.00	77.82	Al
ATOM	44927	C4	GUA	1197	222.403	105.325	38.917	1.00	83.34	Al6S	ATOM	44980	O3'	CYT	1199	233.871	109.915	35.392	1.00	64.11	Al
ATOM	44928	N3	GUA	1197	223.119	104.228	39.091	1.00	83.34	Al6S	ATOM	44981	P	URI	1200	234.781	111.043	35.742	1.00	66.80	Al
ATOM	44929	C2	GUA	1197	224.025	104.174	40.074	1.00	83.34	Al6S	ATOM	44982	O1P	URI	1200	232.841	110.112	34.338	1.00	66.80	Al
ATOM	44930	N2	GUA	1197	222.999	103.104	38.314	1.00	83.34	Al6S	ATOM	44983	O2P	URI	1200	234.759	108.653	35.007	1.00	64.11	Al
ATOM	44931	N1	GUA	1197	222.120	102.962	37.248	1.00	83.34	Al6S	ATOM	44984	O5'	URI	1200	235.782	108.179	35.893	1.00	64.11	Al
ATOM	44932	C6	GUA	1197	222.070	101.894	36.629	1.00	83.34	Al6S	ATOM	44985	C5'	URI	1200	236.241	105.803	35.475	1.00	64.11	Al
ATOM	44933	O6	GUA	1197	221.362	104.137	37.039	1.00	83.34	Al6S	ATOM	44986	O4'	URI	1200	235.174	105.843	35.691	1.00	64.11	Al
ATOM	44934	C5	GUA	1197	220.396	104.421	36.085	1.00	83.34	Al6S	ATOM	44987	O4'	URI	1200	235.193	104.860	34.667	1.00	64.11	Al
ATOM	44935	N7	GUA	1197	220.007	105.634	36.372	1.00	83.34	Al6S	ATOM	44988	C1'	URI	1200	233.959	105.002	33.872	1.00	66.80	Al
ATOM	44936	C8	GUA	1197	221.522	108.498	37.874	1.00	71.28	Al6S	ATOM	44989	N1	URI	1200	233.369	103.860	33.316	1.00	66.80	Al
ATOM	44937	C2'	GUA	1197	221.682	109.221	37.077	1.00	71.28	Al6S	ATOM	44990	C6	URI	1200	232.255	104.069	32.585	1.00	66.80	Al
ATOM	44938	O2'	GUA	1197	220.918	109.369	36.781	1.00	71.28	Al6S	ATOM	44991	C2	URI	1200	233.403	103.860	33.457	1.00	66.80	Al
ATOM	44939	C3'	GUA	1197	221.466	110.673	36.753	1.00	71.28	Al6S	ATOM	44992	O2	URI	1200	232.551	104.069	32.356	1.00	66.80	Al
ATOM	44940	O3'	GUA	1197	222.808	110.935	35.910	1.00	93.42	Al6S	ATOM	44993	N3	URI	1200	230.576	105.306	31.696	1.00	66.80	Al
ATOM	44941	P	CYT	1198	222.757	110.081	34.696	1.00	74.45	Al6S	ATOM	44994	O4	URI	1200	237.534	104.415	34.362	1.00	64.11	Al
ATOM	44942	O1P	CYT	1198	224.205	110.882	38.142	1.00	93.42	Al6S	ATOM	44995	C4	URI	1200	236.591	106.628	34.008	1.00	64.11	Al
ATOM	44943	O2P	CYT	1198	225.365	110.178	39.206	1.00	93.42	Al6S	ATOM	44996	C5	URI	1200	237.876	107.098	33.672	1.00	64.11	Al
ATOM	44944	O5'	CYT	1198	224.984	108.840	39.115	1.00	93.42	Al6S	ATOM	44997	C2'	URI	1200	238.092	107.825	32.260	1.00	85.24	Al
ATOM	44945	C5'	CYT	1198	225.791	106.867	38.198	1.00	74.45	Al6S	ATOM	44998	O2'	URI	1200	239.518	108.240	32.211	1.00	60.97	Al
ATOM	44946	O4'	CYT	1198	225.106	107.980	39.115	1.00	74.45	Al6S	ATOM	44999	C3'	URI	1200	237.025	106.634	31.219	1.00	85.24	Al
ATOM	44947	C1'	CYT	1198	226.463	105.648	38.366	1.00	74.45	Al6S	ATOM	45000	O2P	GUA	1201	238.873	105.596	31.139	1.00	85.24	Al
ATOM	44948	N1	CYT	1198	227.268	105.526	39.305	1.00	74.45	Al6S	ATOM	45001	P	GUA	1201	238.399	104.436	30.293	1.00	85.24	Al
ATOM	44949	C6	CYT	1198	226.213	104.631	37.506	1.00	74.45	Al6S	ATOM	45002	O1P	GUA	1201	237.268	103.769	29.923	1.00	85.24	Al
ATOM	44950	O2	CYT	1198	225.323	104.788	36.523	1.00	74.45	Al6S	ATOM	45003	O5'	GUA	1201	236.458	103.161	29.866	1.00	60.97	Al
ATOM	44951	C2	CYT	1198	225.113	103.756	35.698	1.00	74.45	Al6S	ATOM	45004	O2P	GUA	1201	235.154	103.828	29.866	1.00	60.97	Al
ATOM	44952	N3	CYT	1198	227.290	108.815	38.631	1.00	93.42	Al6S	ATOM	45005	C5'	GUA	1201	234.036	103.333	29.233	1.00	60.97	Al
ATOM	44953	C4	CYT	1198	228.034	109.242	39.752	1.00	93.42	Al6S	ATOM	45006	C4'	GUA	1201	233.943	102.134	28.621	1.00	60.97	Al
ATOM	44954	O2'	CYT	1198	226.588	109.910	37.932	1.00	93.42	Al6S	ATOM	45007	C1'	GUA	1201	232.766	101.958	27.386	1.00	60.97	Al
ATOM	44955	C3'	CYT	1198	227.385	111.138	37.863	1.00	93.42	Al6S	ATOM	45008	N2	GUA	1201	232.519	100.822	27.386	1.00	60.97	Al
ATOM	44956	O3'	CYT	1198	228.322	111.382	36.577	1.00	77.82	Al6S	ATOM	45009	C3	GUA	1201	231.747	102.881	28.094	1.00	60.97	Al
ATOM	44957	P	CYT	1199	228.978	112.710	36.770	1.00	81.47	Al6S	ATOM	45010	N1	GUA	1201	231.815	104.123	28.716	1.00	60.97	Al
ATOM	44958	O1P	CYT	1199						Al6S	ATOM	45011	C6	GUA	1201						Al

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ATOM	45016	O6	GUA	1201	230.839	104.886	28.679	1.00	60.97	Al65	ATOM	45069	O3'	GUA	1203	233.299	103.917	17.677	1.00	67.78	Al
ATOM	45017	C5	GUA	1201	233.088	104.330	29.329	1.00	60.97	Al65	ATOM	45070	P	CYT	1204	233.653	105.174	16.751	1.00	56.68	Al
ATOM	45018	N7	GUA	1201	233.586	105.420	30.037	1.00	60.97	Al65	ATOM	45071	O1P	CYT	1204	233.870	104.646	15.387	1.00	62.64	Al
ATOM	45019	C8	GUA	1201	234.807	105.074	30.348	1.00	60.97	Al65	ATOM	45072	O2P	CYT	1204	234.724	105.955	17.417	1.00	62.64	Al
ATOM	45020	C2'	GUA	1201	237.144	103.419	28.584	1.00	85.24	Al65	ATOM	45073	O5'	CYT	1204	232.325	106.058	16.749	1.00	56.68	Al
ATOM	45021	O2'	GUA	1201	238.001	102.342	28.250	1.00	85.24	Al65	ATOM	45074	C5'	CYT	1204	231.086	105.516	16.258	1.00	56.68	Al
ATOM	45022	C3'	GUA	1201	237.899	104.704	28.884	1.00	85.24	Al65	ATOM	45075	O4'	CYT	1204	229.974	106.535	16.351	1.00	56.68	Al
ATOM	45023	O3'	GUA	1201	238.882	104.976	27.903	1.00	85.24	Al65	ATOM	45076	C4'	CYT	1204	229.734	106.880	17.739	1.00	56.68	Al
ATOM	45024	P	GUA	1202	238.465	105.833	26.607	1.00	78.80	Al65	ATOM	45077	C1'	CYT	1204	229.223	108.204	17.813	1.00	56.68	Al
ATOM	45025	O1P	GUA	1202	239.686	106.209	25.869	1.00	61.23	Al65	ATOM	45078	N1	CYT	1204	230.058	109.010	18.729	1.00	62.64	Al
ATOM	45026	O2P	GUA	1202	237.525	106.908	27.043	1.00	61.23	Al65	ATOM	45079	C6	CYT	1204	231.381	108.717	18.926	1.00	62.64	Al
ATOM	45027	O5'	GUA	1202	237.650	104.784	25.728	1.00	78.80	Al65	ATOM	45080	C2	CYT	1204	229.473	110.118	19.381	1.00	62.64	Al
ATOM	45028	C5'	GUA	1202	238.215	103.500	25.408	1.00	78.80	Al65	ATOM	45081	O2	CYT	1204	228.264	110.348	19.224	1.00	62.64	Al
ATOM	45029	C4'	GUA	1202	237.184	102.609	24.753	1.00	78.80	Al65	ATOM	45082	N3	CYT	1204	230.243	110.906	20.164	1.00	62.64	Al
ATOM	45030	O4'	GUA	1202	236.111	102.341	25.695	1.00	78.80	Al65	ATOM	45083	C4	CYT	1204	231.539	110.629	20.321	1.00	62.64	Al
ATOM	45031	C1'	GUA	1202	234.865	102.315	25.013	1.00	78.80	Al65	ATOM	45084	N4	CYT	1204	232.264	111.457	21.076	1.00	62.64	Al
ATOM	45032	N9	GUA	1202	234.129	103.522	25.374	1.00	61.23	Al65	ATOM	45085	C5	CYT	1204	232.151	109.493	19.704	1.00	62.64	Al
ATOM	45033	C4	GUA	1202	232.816	103.804	25.079	1.00	61.23	Al65	ATOM	45086	C2'	CYT	1204	229.208	108.787	16.396	1.00	56.68	Al
ATOM	45034	N3	GUA	1202	231.955	102.988	24.440	1.00	61.23	Al65	ATOM	45087	O2'	CYT	1204	227.906	108.766	15.849	1.00	56.68	Al
ATOM	45035	C2	GUA	1202	230.780	103.559	24.254	1.00	61.23	Al65	ATOM	45088	C3'	CYT	1204	230.185	107.874	15.663	1.00	56.68	Al
ATOM	45036	N2	GUA	1202	229.811	102.892	23.616	1.00	61.23	Al65	ATOM	45089	O3'	CYT	1204	229.886	107.842	14.275	1.00	56.68	Al
ATOM	45037	N1	GUA	1202	230.469	104.827	24.674	1.00	61.23	Al65	ATOM	45090	P	GUA	1205	230.399	109.035	13.328	1.00	62.67	Al
ATOM	45038	C6	GUA	1202	231.338	105.686	25.338	1.00	61.23	Al65	ATOM	45091	O1P	GUA	1205	229.946	108.316	13.915	1.00	74.66	Al
ATOM	45039	O6	GUA	1202	230.958	106.824	25.676	1.00	61.23	Al65	ATOM	45092	O2P	GUA	1205	230.049	108.713	11.931	1.00	74.66	Al
ATOM	45040	C5	GUA	1202	232.607	105.086	25.536	1.00	61.23	Al65	ATOM	45093	O5'	GUA	1205	231.978	108.960	13.463	1.00	62.67	Al
ATOM	45041	N7	GUA	1202	233.754	105.589	26.132	1.00	61.23	Al65	ATOM	45094	C5'	GUA	1205	232.663	107.691	13.546	1.00	62.67	Al
ATOM	45042	C8	GUA	1202	234.623	104.625	26.025	1.00	61.23	Al65	ATOM	45095	O4'	GUA	1205	234.584	108.917	14.291	1.00	62.67	Al
ATOM	45043	C2'	GUA	1202	235.179	102.382	22.988	1.00	78.80	Al65	ATOM	45096	C4'	GUA	1205	235.967	108.787	14.471	1.00	62.67	Al
ATOM	45044	O2'	GUA	1202	236.477	103.173	23.530	1.00	78.80	Al65	ATOM	45097	C1'	GUA	1205	236.325	109.474	15.707	1.00	74.66	Al
ATOM	45045	O3'	GUA	1202	237.211	103.024	22.328	1.00	78.80	Al65	ATOM	45098	N9	GUA	1205	237.584	111.300	14.734	1.00	74.66	Al
ATOM	45046	O3'	GUA	1202	237.817	103.543	20.020	1.00	72.03	Al65	ATOM	45099	C3	GUA	1205	237.050	110.637	15.781	1.00	74.66	Al
ATOM	45047	P	GUA	1203	237.015	104.093	21.140	1.00	67.78	Al65	ATOM	45100	N2	GUA	1205	238.198	112.404	15.109	1.00	74.66	Al
ATOM	45048	O1P	GUA	1203	237.817	103.543	20.020	1.00	72.03	Al65	ATOM	45101	C2	GUA	1205	238.781	113.174	14.192	1.00	74.66	Al
ATOM	45049	O2P	GUA	1203	237.269	105.477	21.615	1.00	67.78	Al65	ATOM	45102	N2	GUA	1205	238.285	112.828	16.409	1.00	74.66	Al
ATOM	45050	O5'	GUA	1203	235.465	104.004	20.774	1.00	67.78	Al65	ATOM	45103	N1	GUA	1205	237.746	112.163	17.506	1.00	74.66	Al
ATOM	45051	C5'	GUA	1203	234.892	102.775	20.281	1.00	67.78	Al65	ATOM	45104	C6	GUA	1205	237.080	110.969	17.117	1.00	74.66	Al
ATOM	45052	C4'	GUA	1203	233.430	102.958	19.936	1.00	67.78	Al65	ATOM	45105	O6	GUA	1205	237.881	112.638	18.640	1.00	74.66	Al
ATOM	45053	O4'	GUA	1203	232.648	103.197	21.141	1.00	67.78	Al65	ATOM	45106	C5	GUA	1205	236.408	110.018	17.875	1.00	74.66	Al
ATOM	45054	C1'	GUA	1203	231.514	103.993	20.824	1.00	67.78	Al65	ATOM	45107	N7	GUA	1205	235.985	109.145	16.998	1.00	74.66	Al
ATOM	45055	N9	GUA	1203	231.584	105.255	21.556	1.00	72.03	Al65	ATOM	45108	C8	GUA	1205	236.336	107.309	14.289	1.00	62.67	Al
ATOM	45056	C4	GUA	1203	230.577	106.193	21.635	1.00	72.03	Al65	ATOM	45109	C2'	GUA	1205	237.516	107.213	13.510	1.00	62.67	Al
ATOM	45057	N3	GUA	1203	229.336	106.074	21.105	1.00	72.03	Al65	ATOM	45110	O2'	GUA	1205	235.042	106.708	13.691	1.00	62.67	Al
ATOM	45058	C2	GUA	1203	228.605	107.163	21.302	1.00	72.03	Al65	ATOM	45111	C3'	GUA	1205	235.108	105.798	12.558	1.00	62.67	Al
ATOM	45059	N2	GUA	1203	227.343	107.219	20.832	1.00	72.03	Al65	ATOM	45112	C3'	GUA	1205	235.954	106.167	11.218	1.00	70.13	Al
ATOM	45060	N1	GUA	1203	229.056	108.275	21.971	1.00	72.03	Al65	ATOM	45113	P	ADE	1206	236.349	107.601	11.216	1.00	77.91	Al
ATOM	45061	C6	GUA	1203	230.326	108.418	22.526	1.00	72.03	Al65	ATOM	45114	O1P	ADE	1206	235.197	105.636	10.057	1.00	77.91	Al
ATOM	45062	O6	GUA	1203	230.631	109.468	23.105	1.00	72.03	Al65	ATOM	45115	O2P	ADE	1206	237.275	105.296	11.404	1.00	70.13	Al
ATOM	45063	C5	GUA	1203	231.122	107.257	22.319	1.00	72.03	Al65	ATOM	45116	O5'	ADE	1206	237.394	104.001	10.795	1.00	70.13	Al
ATOM	45064	N7	GUA	1203	232.431	106.981	22.698	1.00	72.03	Al65	ATOM	45117	C5'	ADE	1206	236.908	102.913	11.729	1.00	70.13	Al
ATOM	45065	C8	GUA	1203	232.656	105.779	22.237	1.00	72.03	Al65	ATOM	45118	C4'	ADE	1206	235.559	103.181	12.163	1.00	70.13	Al
ATOM	45066	C2'	GUA	1203	231.579	104.297	19.326	1.00	67.78	Al65	ATOM	45119	O4'	ADE	1206	234.969	101.957	12.534	1.00	70.13	Al
ATOM	45067	O2'	GUA	1203	230.775	103.393	18.599	1.00	67.78	Al65	ATOM	45120	C1'	ADE	1206	233.517	102.027	12.349	1.00	77.91	Al
ATOM	45068	C3'	GUA	1203	233.063	104.129	19.044	1.00	67.78	Al65	ATOM	45121	N9	ADE	1206						Al

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ATOM	45122	C4	ADE	1206	232.745	101.448	11.366	1.00	77.91	Al6S	ATOM	45175	C3' ADE	1208	237.350	97.279	0.458	1.00	52.81	Al	
ATOM	45123	N3	ADE	1206	233.160	100.700	10.329	1.00	77.91	Al6S	ATOM	45176	O3' ADE	1208	238.358	97.897	-0.335	1.00	52.81	Al	
ATOM	45124	C2	ADE	1206	232.124	100.294	9.598	1.00	77.91	Al6S	ATOM	45177	P	CYT	1209	238.046	99.312	-1.037	1.00	53.95	Al
ATOM	45125	N1	ADE	1206	230.822	100.535	9.769	1.00	77.91	Al6S	ATOM	45178	O1P	CYT	1209	239.204	99.715	-1.869	1.00	59.92	Al
ATOM	45126	C6	ADE	1206	230.438	101.296	10.817	1.00	77.91	Al6S	ATOM	45179	O2P	CYT	1209	237.530	100.242	-0.006	1.00	59.92	Al
ATOM	45127	N6	ADE	1206	229.138	101.548	10.987	1.00	77.91	Al6S	ATOM	45180	O5' CYT	1209	236.850	98.968	-2.023	1.00	53.95	Al	
ATOM	45128	C5	ADE	1206	231.438	101.783	11.670	1.00	77.91	Al6S	ATOM	45181	C5' CYT	1209	235.998	100.000	-2.528	1.00	53.95	Al	
ATOM	45129	N7	ADE	1206	231.384	102.569	12.810	1.00	77.91	Al6S	ATOM	45182	C4' CYT	1209	234.594	99.475	-2.690	1.00	53.95	Al	
ATOM	45130	C8	ADE	1206	232.638	102.687	13.170	1.00	77.91	Al6S	ATOM	45183	O4' CYT	1209	234.130	98.935	-1.424	1.00	53.95	Al	
ATOM	45131	C2' ADE	1206	235.700	100.823	11.806	1.00	70.13	Al6S	ATOM	45184	C1' CYT	1209	232.767	99.281	-1.225	1.00	53.95	Al		
ATOM	45132	O2' ADE	1206	236.140	99.852	12.728	1.00	70.13	Al6S	ATOM	45185	N1	CYT	1209	233.698	100.196	-0.058	1.00	59.92	Al	
ATOM	45133	C3' ADE	1206	236.839	101.539	11.327	1.00	70.13	Al6S	ATOM	45186	C6	CYT	1209	233.812	100.875	0.360	1.00	59.92	Al	
ATOM	45134	O3' ADE	1206	238.063	100.844	11.327	1.00	70.13	Al6S	ATOM	45187	C2	CYT	1209	231.471	100.380	0.609	1.00	59.92	Al	
ATOM	45135	P	CYT	1207	239.199	100.753	10.200	1.00	76.38	Al6S	ATOM	45188	O2	CYT	1209	230.473	99.751	0.231	1.00	59.92	Al
ATOM	45136	O1P	CYT	1207	240.157	99.709	10.644	1.00	53.19	Al6S	ATOM	45189	N3	CYT	1209	231.408	101.246	1.647	1.00	59.92	Al
ATOM	45137	O2P	CYT	1207	239.696	102.108	9.866	1.00	53.19	Al6S	ATOM	45190	C4	CYT	1209	232.499	101.911	2.031	1.00	59.92	Al
ATOM	45138	O5' CYT	1207	238.421	100.172	8.952	1.00	76.38	Al6S	ATOM	45191	N4	CYT	1209	232.386	102.761	3.049	1.00	59.92	Al	
ATOM	45139	C5' CYT	1207	238.858	100.439	7.624	1.00	76.38	Al6S	ATOM	45192	C5	CYT	1209	233.757	101.734	1.385	1.00	59.92	Al	
ATOM	45140	C4' CYT	1207	238.016	99.655	6.674	1.00	76.38	Al6S	ATOM	45193	C2' CYT	1209	232.279	99.950	-2.519	1.00	53.95	Al		
ATOM	45141	O4' CYT	1207	236.696	99.557	7.243	1.00	76.38	Al6S	ATOM	45194	O2' CYT	1209	231.712	99.001	-3.409	1.00	53.95	Al		
ATOM	45142	C1' CYT	1207	235.730	99.753	6.240	1.00	76.38	Al6S	ATOM	45195	C3' CYT	1209	233.573	100.533	-3.058	1.00	53.95	Al		
ATOM	45143	N1	CYT	1207	234.871	100.882	6.652	1.00	53.19	Al6S	ATOM	45196	O3' CYT	1209	233.537	100.762	-4.445	1.00	53.95	Al	
ATOM	45144	C6	CYT	1207	235.377	101.943	7.355	1.00	53.19	Al6S	ATOM	45197	P	ADE	1210	233.522	102.263	-4.981	1.00	56.88	Al
ATOM	45145	O2	CYT	1207	233.504	100.831	6.337	1.00	53.19	Al6S	ATOM	45198	O1P	ADE	1210	233.945	102.262	-6.409	1.00	57.27	Al
ATOM	45146	C2	CYT	1207	233.083	99.879	5.656	1.00	53.19	Al6S	ATOM	45199	O2P	ADE	1210	234.280	103.069	-3.998	1.00	57.27	Al
ATOM	45147	N3	CYT	1207	232.682	101.820	6.783	1.00	53.19	Al6S	ATOM	45200	O5' ADE	1210	231.988	102.677	-4.880	1.00	56.88	Al	
ATOM	45148	C4	CYT	1207	233.183	102.828	7.500	1.00	53.19	Al6S	ATOM	45201	C5' ADE	1210	230.993	102.059	-5.726	1.00	56.88	Al	
ATOM	45149	N4	CYT	1207	232.337	103.756	7.948	1.00	53.19	Al6S	ATOM	45202	O4' ADE	1210	229.634	102.679	-5.487	1.00	56.88	Al	
ATOM	45150	C5	CYT	1207	234.577	102.924	7.797	1.00	53.19	Al6S	ATOM	45203	O4' ADE	1210	229.085	102.225	-4.220	1.00	56.88	Al	
ATOM	45151	C2' CYT	1207	236.444	99.863	4.886	1.00	76.38	Al6S	ATOM	45204	C1' ADE	1210	228.443	103.305	-3.558	1.00	56.88	Al		
ATOM	45152	O2' CYT	1207	236.364	98.619	4.213	1.00	76.38	Al6S	ATOM	45205	N9	ADE	1210	229.242	103.642	-2.376	1.00	57.27	Al	
ATOM	45153	C3' CYT	1207	237.854	100.271	5.302	1.00	76.38	Al6S	ATOM	45206	C4	ADE	1210	228.897	104.503	-1.364	1.00	57.27	Al	
ATOM	45154	O3' CYT	1207	238.921	99.888	4.418	1.00	76.38	Al6S	ATOM	45207	N3	ADE	1210	227.743	105.175	-1.221	1.00	57.27	Al	
ATOM	45155	P	ADE	1208	239.330	98.325	4.211	1.00	52.81	Al6S	ATOM	45208	C2	ADE	1210	227.780	105.935	-0.134	1.00	57.27	Al
ATOM	45156	O1P	ADE	1208	239.131	97.512	5.441	1.00	65.94	Al6S	ATOM	45209	N1	ADE	1210	228.766	106.094	0.758	1.00	57.27	Al
ATOM	45157	O2P	ADE	1208	240.673	98.364	3.580	1.00	65.94	Al6S	ATOM	45210	C6	ADE	1210	229.910	105.402	0.586	1.00	57.27	Al
ATOM	45158	O5' ADE	1208	238.327	97.727	3.123	1.00	52.81	Al6S	ATOM	45211	N6	ADE	1210	230.896	105.559	1.471	1.00	57.27	Al	
ATOM	45159	C5' ADE	1208	238.527	96.380	2.651	1.00	52.81	Al6S	ATOM	45212	C5	ADE	1210	229.996	104.555	-0.524	1.00	57.27	Al	
ATOM	45160	C4' ADE	1208	237.821	96.126	1.331	1.00	52.81	Al6S	ATOM	45213	N7	ADE	1210	231.003	103.717	-0.978	1.00	57.27	Al	
ATOM	45161	O4' ADE	1208	236.632	95.328	1.557	1.00	52.81	Al6S	ATOM	45214	C8	ADE	1210	230.507	103.195	-2.070	1.00	57.27	Al	
ATOM	45162	C1' ADE	1208	235.678	95.606	0.558	1.00	52.81	Al6S	ATOM	45215	C2' ADE	1210	228.413	104.478	-4.541	1.00	56.88	Al		
ATOM	45163	N9	ADE	1208	234.518	96.209	1.209	1.00	65.94	Al6S	ATOM	45216	O2' ADE	1210	227.218	104.443	-5.288	1.00	56.88	Al	
ATOM	45164	C4	ADE	1208	233.265	95.676	1.294	1.00	65.94	Al6S	ATOM	45217	C3' ADE	1210	229.640	104.191	-5.392	1.00	56.88	Al	
ATOM	45165	N3	ADE	1208	232.864	94.483	0.833	1.00	65.94	Al6S	ATOM	45218	O3' ADE	1210	229.580	104.793	-6.664	1.00	56.88	Al	
ATOM	45166	C2	ADE	1208	231.568	94.300	1.090	1.00	65.94	Al6S	ATOM	45219	P	CYT	1211	230.157	106.273	-6.856	1.00	40.96	Al
ATOM	45167	N1	ADE	1208	230.693	95.128	1.705	1.00	65.94	Al6S	ATOM	45220	O1P	CYT	1211	230.256	106.577	-8.304	1.00	53.07	Al
ATOM	45168	C6	ADE	1208	231.138	96.330	2.143	1.00	65.94	Al6S	ATOM	45221	O2P	CYT	1211	231.368	106.368	-5.992	1.00	53.07	Al
ATOM	45169	N6	ADE	1208	230.272	97.169	2.724	1.00	65.94	Al6S	ATOM	45222	O5' CYT	1211	229.019	107.206	-6.247	1.00	40.96	Al	
ATOM	45170	C5	ADE	1208	232.492	96.629	1.946	1.00	65.94	Al6S	ATOM	45223	C5' CYT	1211	227.683	107.219	-6.787	1.00	40.96	Al	
ATOM	45171	N7	ADE	1208	233.253	97.734	2.286	1.00	65.94	Al6S	ATOM	45224	C4' CYT	1211	226.801	108.122	-5.956	1.00	40.96	Al	
ATOM	45172	C8	ADE	1208	234.445	97.437	1.836	1.00	65.94	Al6S	ATOM	45225	O4' CYT	1211	226.682	107.573	-4.619	1.00	40.96	Al	
ATOM	45173	C2' ADE	1208	236.323	96.585	-0.425	1.00	52.81	Al6S	ATOM	45226	C1' CYT	1211	226.663	108.625	-3.663	1.00	40.96	Al		
ATOM	45174	O2' ADE	1208	236.936	95.877	-1.487	1.00	52.81	Al6S	ATOM	45227	N1	CYT	1211	227.820	108.471	-2.747	1.00	53.07	Al	

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ATOM	45228	C6	CYT	1211	228.818	107.579	-3.021	1.00	53.07	Al6S	ATOM	45281	O3' URI	1213	227.505	121.537	-2.999	1.00	38.05	Al6S	
ATOM	45229	C2	CYT	1211	227.889	109.265	-1.588	1.00	53.07	Al6S	ATOM	45282	P	GUA	1214	228.561	122.512	-3.694	1.00	44.06	Al6S
ATOM	45230	O2	CYT	1211	226.969	110.045	-1.336	1.00	53.07	Al6S	ATOM	45283	O1P GUA	1214	227.907	123.818	-3.938	1.00	59.09	Al6S	
ATOM	45231	N3	CYT	1211	228.957	109.155	-0.771	1.00	53.07	Al6S	ATOM	45284	O2P GUA	1214	229.177	121.765	-4.820	1.00	59.09	Al6S	
ATOM	45232	C4	CYT	1211	229.925	108.287	-1.056	1.00	53.07	Al6S	ATOM	45285	O5' GUA	1214	229.650	122.698	-2.549	1.00	44.06	Al6S	
ATOM	45233	N4	CYT	1211	230.963	108.210	-0.217	1.00	53.07	Al6S	ATOM	45286	C5' GUA	1214	231.040	122.876	-2.851	1.00	44.06	Al6S	
ATOM	45234	C5	CYT	1211	229.875	107.456	-2.211	1.00	53.07	Al6S	ATOM	45287	C4' GUA	1214	231.874	122.574	-1.631	1.00	44.06	Al6S	
ATOM	45235	C2' CYT	1211	226.688	109.946	-4.433	1.00	40.96	Al6S	ATOM	45288	O4' GUA	1214	231.751	121.170	-1.284	1.00	44.06	Al6S		
ATOM	45236	O2' CYT	1211	225.369	110.394	-4.626	1.00	40.96	Al6S	ATOM	45289	C1' GUA	1214	232.976	120.704	-0.743	1.00	44.06	Al6S		
ATOM	45237	C3' CYT	1211	227.337	109.530	-5.741	1.00	40.96	Al6S	ATOM	45290	N9	GUA	1214	233.430	119.565	-1.533	1.00	59.09	Al6S	
ATOM	45238	O3' CYT	1211	226.969	110.398	-6.803	1.00	40.96	Al6S	ATOM	45291	C4	GUA	1214	234.588	118.843	-1.356	1.00	59.09	Al6S	
ATOM	45239	P	GUA	1212	227.654	111.846	-6.917	1.00	41.96	Al6S	ATOM	45292	N3	GUA	1214	235.540	119.079	-0.431	1.00	59.09	Al6S
ATOM	45240	O1P GUA	1212	227.239	112.473	-8.206	1.00	58.14	Al6S	ATOM	45293	C2	GUA	1214	236.521	118.195	-0.501	1.00	59.09	Al6S	
ATOM	45241	O2P GUA	1212	229.099	111.707	-6.591	1.00	58.14	Al6S	ATOM	45294	N2	GUA	1214	237.555	118.268	0.342	1.00	59.09	Al6S	
ATOM	45242	O5' GUA	1212	226.996	112.670	-5.730	1.00	41.96	Al6S	ATOM	45295	N1	GUA	1214	236.562	117.169	-1.405	1.00	59.09	Al6S	
ATOM	45243	C5' GUA	1212	225.617	113.021	-5.753	1.00	41.96	Al6S	ATOM	45296	C6	GUA	1214	235.593	116.909	-2.365	1.00	59.09	Al6S	
ATOM	45244	C4' GUA	1212	225.279	113.850	-4.547	1.00	41.96	Al6S	ATOM	45297	O6	GUA	1214	235.723	115.946	-3.137	1.00	59.09	Al6S	
ATOM	45245	O4' GUA	1212	225.543	113.074	-3.358	1.00	41.96	Al6S	ATOM	45298	C5	GUA	1214	234.542	117.843	-2.304	1.00	59.09	Al6S	
ATOM	45246	C1' GUA	1212	226.014	113.923	-2.329	1.00	41.96	Al6S	ATOM	45299	N7	GUA	1214	233.393	117.945	-3.076	1.00	59.09	Al6S	
ATOM	45247	N9	GUA	1212	227.354	113.489	-1.947	1.00	58.14	Al6S	ATOM	45300	C8	GUA	1214	232.770	118.983	-2.589	1.00	59.09	Al6S
ATOM	45248	C4	GUA	1212	228.047	113.887	-0.836	1.00	58.14	Al6S	ATOM	45301	C2' GUA	1214	233.954	121.878	-0.711	1.00	44.06	Al6S	
ATOM	45249	N3	GUA	1212	227.612	114.755	0.098	1.00	58.14	Al6S	ATOM	45302	O2' GUA	1214	233.906	122.414	0.593	1.00	44.06	Al6S	
ATOM	45250	C2	GUA	1212	228.502	114.939	1.047	1.00	58.14	Al6S	ATOM	45303	C3' GUA	1214	233.369	122.800	-1.778	1.00	44.06	Al6S	
ATOM	45251	N2	GUA	1212	228.231	115.782	2.051	1.00	58.14	Al6S	ATOM	45304	O3' GUA	1214	233.678	124.175	-1.585	1.00	44.06	Al6S	
ATOM	45252	N1	GUA	1212	229.723	114.312	1.080	1.00	58.14	Al6S	ATOM	45305	P	CYT	1215	234.812	124.872	-2.486	1.00	52.29	Al6S
ATOM	45253	C6	GUA	1212	230.189	113.417	0.124	1.00	58.14	Al6S	ATOM	45306	O1P CYT	1215	234.669	126.341	-2.308	1.00	53.17	Al6S	
ATOM	45254	O6	GUA	1212	231.308	112.906	0.242	1.00	58.14	Al6S	ATOM	45307	O2P CYT	1215	234.799	124.311	-3.856	1.00	53.17	Al6S	
ATOM	45255	C5	GUA	1212	229.248	113.219	-0.897	1.00	58.14	Al6S	ATOM	45308	O5' CYT	1215	236.156	124.364	-1.796	1.00	52.29	Al6S	
ATOM	45256	N7	GUA	1212	229.312	112.423	-2.028	1.00	58.14	Al6S	ATOM	45309	C5' CYT	1215	236.473	124.718	-0.438	1.00	52.29	Al6S	
ATOM	45257	C8	GUA	1212	228.168	112.614	-2.619	1.00	58.14	Al6S	ATOM	45310	C4' CYT	1215	237.757	124.049	-0.004	1.00	52.29	Al6S	
ATOM	45258	C2' GUA	1212	226.000	115.348	-2.868	1.00	41.96	Al6S	ATOM	45311	O4' CYT	1215	237.563	122.614	0.070	1.00	52.29	Al6S		
ATOM	45259	O2' GUA	1212	224.770	115.952	-2.535	1.00	41.96	Al6S	ATOM	45312	C1' CYT	1215	238.731	121.945	-0.365	1.00	52.29	Al6S		
ATOM	45260	C3' GUA	1212	226.115	115.098	-4.359	1.00	41.96	Al6S	ATOM	45313	N1	CYT	1215	238.370	121.090	-1.516	1.00	53.17	Al6S	
ATOM	45261	O3' GUA	1212	225.636	116.183	-5.120	1.00	41.96	Al6S	ATOM	45314	C6	CYT	1215	237.261	121.358	-2.274	1.00	53.17	Al6S	
ATOM	45262	P	URI	1213	226.669	117.307	-6.506	1.00	38.05	Al6S	ATOM	45315	C2	CYT	1215	239.179	119.982	-1.817	1.00	53.17	Al6S
ATOM	45263	O1P URI	1213	225.966	118.264	-6.518	1.00	59.93	Al6S	ATOM	45316	O2	CYT	1215	240.198	119.773	-1.129	1.00	53.17	Al6S	
ATOM	45264	O2P URI	1213	227.907	116.620	-6.075	1.00	59.93	Al6S	ATOM	45317	N3	CYT	1215	238.828	119.170	-2.850	1.00	53.17	Al6S	
ATOM	45265	O5' URI	1213	227.032	118.040	-4.241	1.00	38.05	Al6S	ATOM	45318	C4	CYT	1215	237.733	119.435	-3.566	1.00	53.17	Al6S	
ATOM	45266	C5' URI	1213	226.036	118.753	-3.486	1.00	38.05	Al6S	ATOM	45319	N4	CYT	1215	237.421	118.606	-4.559	1.00	53.17	Al6S	
ATOM	45267	C4' URI	1213	226.682	119.402	-2.292	1.00	38.05	Al6S	ATOM	45320	C5	CYT	1215	236.909	120.564	-3.293	1.00	53.17	Al6S	
ATOM	45268	O4' URI	1213	227.168	118.380	-1.390	1.00	38.05	Al6S	ATOM	45321	C2' CYT	1215	239.790	123.006	-0.678	1.00	52.29	Al6S		
ATOM	45269	C1' URI	1213	228.399	118.772	-0.838	1.00	38.05	Al6S	ATOM	45322	O2' CYT	1215	240.654	123.157	0.430	1.00	52.29	Al6S		
ATOM	45270	N1	URI	1213	229.387	117.745	-1.174	1.00	59.93	Al6S	ATOM	45323	C3' CYT	1215	238.932	124.237	-0.942	1.00	52.29	Al6S	
ATOM	45271	C6	URI	1213	229.240	116.960	-2.284	1.00	59.93	Al6S	ATOM	45324	O3' CYT	1215	239.615	125.448	-0.680	1.00	52.29	Al6S	
ATOM	45272	C2	URI	1213	230.469	117.592	-0.335	1.00	59.93	Al6S	ATOM	45325	P	URI	1216	240.417	126.162	-1.866	1.00	46.36	Al6S
ATOM	45273	O2	URI	1213	230.636	118.273	0.662	1.00	59.93	Al6S	ATOM	45326	O1P URI	1216	241.066	127.379	-1.329	1.00	57.36	Al6S	
ATOM	45274	N3	URI	1213	231.356	116.612	-0.707	1.00	59.93	Al6S	ATOM	45327	O2P URI	1216	239.509	126.290	-3.030	1.00	57.36	Al6S	
ATOM	45275	O4	URI	1213	231.267	115.793	-1.807	1.00	59.93	Al6S	ATOM	45328	O5' URI	1216	241.543	125.085	-2.199	1.00	46.36	Al6S	
ATOM	45276	O4	URI	1213	232.143	114.957	-2.013	1.00	59.93	Al6S	ATOM	45329	C5' URI	1216	242.584	124.798	-1.246	1.00	46.36	Al6S	
ATOM	45277	C5	URI	1213	230.118	116.016	-2.620	1.00	59.93	Al6S	ATOM	45330	C4' URI	1216	243.515	123.730	-1.774	1.00	46.36	Al6S	
ATOM	45278	C2' URI	1213	228.740	120.157	-1.379	1.00	38.05	Al6S	ATOM	45331	O4' URI	1216	242.825	122.451	-1.810	1.00	46.36	Al6S		
ATOM	45279	O2' URI	1213	228.331	121.116	-0.441	1.00	38.05	Al6S	ATOM	45332	C1' URI	1216	243.309	121.679	-2.904	1.00	46.36	Al6S		
ATOM	45280	C3' URI	1213	227.902	120.220	-2.645	1.00	38.05	Al6S	ATOM	45333	N1	URI	1216	242.197	121.397	-3.834	1.00	57.36	Al6S	

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ATOM	45334	C6	URI	1216	241.048	122.158	-3.834	1.00	57.36	Al6S	ATOM	45387	P	ADE	1219	249.811	120.800	-15.855	1.00	51.74	Al
ATOM	45335	C2	URI	1216	242.347	120.340	-4.730	1.00	57.36	Al6S	ATOM	45388	O1P	ADE	1219	248.427	120.489	-16.274	1.00	71.28	Al
ATOM	45336	O2	URI	1216	243.337	119.633	-4.765	1.00	57.36	Al6S	ATOM	45389	O2P	ADE	1219	250.947	120.060	-16.477	1.00	71.28	Al
ATOM	45337	N3	URI	1216	241.292	120.145	-5.585	1.00	57.36	Al6S	ATOM	45390	O5	ADE	1219	250.085	122.351	-16.088	1.00	51.74	Al
ATOM	45338	C4	URI	1216	240.123	120.876	-5.645	1.00	57.36	Al6S	ATOM	45391	C5	ADE	1219	249.005	123.264	-16.193	1.00	51.74	Al
ATOM	45339	O4	URI	1216	239.280	120.611	-6.513	1.00	57.36	Al6S	ATOM	45392	C4	ADE	1219	249.251	124.484	-15.338	1.00	51.74	Al
ATOM	45340	C5	URI	1216	240.037	121.941	-4.682	1.00	57.36	Al6S	ATOM	45393	O4	ADE	1219	249.866	124.102	-14.076	1.00	51.74	Al
ATOM	45341	C2	URI	1216	244.421	122.487	-3.573	1.00	46.36	Al6S	ATOM	45394	C1	ADE	1219	250.591	125.204	-12.558	1.00	51.74	Al
ATOM	45342	O2	URI	1216	245.664	122.127	-3.011	1.00	46.36	Al6S	ATOM	45395	N9	ADE	1219	251.986	124.820	-13.339	1.00	71.28	Al
ATOM	45343	C3	URI	1216	244.037	123.906	-3.192	1.00	46.36	Al6S	ATOM	45396	C4	ADE	1219	252.947	125.648	-12.810	1.00	71.28	Al
ATOM	45344	O3	URI	1216	245.133	124.787	-3.313	1.00	46.36	Al6S	ATOM	45397	N3	ADE	1219	252.784	126.905	-12.371	1.00	71.28	Al
ATOM	45345	P	ADE	1217	245.277	125.667	-4.650	1.00	59.31	Al6S	ATOM	45398	C2	ADE	1219	253.935	127.403	-11.947	1.00	71.28	Al
ATOM	45346	O1P	ADE	1217	246.525	126.448	-4.481	1.00	52.97	Al6S	ATOM	45399	N1	ADE	1219	255.141	126.836	-11.921	1.00	71.28	Al
ATOM	45347	O2P	ADE	1217	244.005	126.393	-4.924	1.00	52.97	Al6S	ATOM	45400	C6	ADE	1219	255.270	125.576	-12.373	1.00	71.28	Al
ATOM	45348	O5	ADE	1217	245.482	124.572	-5.799	1.00	59.31	Al6S	ATOM	45401	N6	ADE	1219	256.474	125.021	-12.362	1.00	71.28	Al
ATOM	45349	C5	ADE	1217	246.705	123.819	-5.850	1.00	59.31	Al6S	ATOM	45402	C5	ADE	1219	254.121	124.929	-12.838	1.00	71.28	Al
ATOM	45350	C4	ADE	1217	246.631	122.633	-6.803	1.00	59.31	Al6S	ATOM	45403	N7	ADE	1219	253.905	123.657	-13.346	1.00	71.28	Al
ATOM	45351	O4	ADE	1217	245.478	121.787	-6.544	1.00	59.31	Al6S	ATOM	45404	C8	ADE	1219	252.624	123.641	-13.622	1.00	71.28	Al
ATOM	45352	C1	ADE	1217	245.267	120.943	-7.665	1.00	59.31	Al6S	ATOM	45405	C2	ADE	1219	250.489	126.335	-14.579	1.00	51.74	Al
ATOM	45353	N9	ADE	1217	243.897	121.093	-8.167	1.00	52.97	Al6S	ATOM	45406	O2	ADE	1219	249.416	127.165	-14.189	1.00	51.74	Al
ATOM	45354	C4	ADE	1217	243.153	120.112	-8.789	1.00	52.97	Al6S	ATOM	45407	C3	ADE	1219	250.165	125.580	-15.859	1.00	51.74	Al
ATOM	45355	N3	ADE	1217	243.493	118.826	-8.991	1.00	52.97	Al6S	ATOM	45408	O3	ADE	1219	249.494	126.445	-16.767	1.00	51.74	Al
ATOM	45356	C2	ADE	1217	242.533	118.186	-9.649	1.00	52.97	Al6S	ATOM	45409	P	ADE	1220	250.317	127.133	-17.960	1.00	54.97	Al
ATOM	45357	N1	ADE	1217	241.366	118.648	-10.103	1.00	52.97	Al6S	ATOM	45410	O1P	ADE	1220	249.409	127.970	-18.788	1.00	43.78	Al
ATOM	45358	C6	ADE	1217	241.059	119.944	-9.894	1.00	52.97	Al6S	ATOM	45411	O2P	ADE	1220	251.124	126.066	-18.600	1.00	43.78	Al
ATOM	45359	N6	ADE	1217	239.906	120.417	-10.369	1.00	52.97	Al6S	ATOM	45412	O5	ADE	1220	251.310	128.130	-17.221	1.00	54.97	Al
ATOM	45360	C5	ADE	1217	241.981	120.727	-9.193	1.00	52.97	Al6S	ATOM	45413	C5	ADE	1220	250.828	129.373	-16.690	1.00	54.97	Al
ATOM	45361	N7	ADE	1217	241.962	122.058	-8.800	1.00	52.97	Al6S	ATOM	45414	C4	ADE	1220	251.840	130.471	-16.917	1.00	54.97	Al
ATOM	45362	C8	ADE	1217	243.112	122.222	-8.187	1.00	52.97	Al6S	ATOM	45415	O4	ADE	1220	253.048	130.156	-16.181	1.00	54.97	Al
ATOM	45363	C2	ADE	1217	246.265	121.373	-8.740	1.00	59.31	Al6S	ATOM	45416	C1	ADE	1220	254.157	130.229	-17.043	1.00	54.97	Al
ATOM	45364	O2	ADE	1217	247.380	120.511	-8.635	1.00	59.31	Al6S	ATOM	45417	N9	ADE	1220	255.145	129.252	-16.610	1.00	43.78	Al
ATOM	45365	C3	ADE	1217	246.612	122.798	-8.316	1.00	59.31	Al6S	ATOM	45418	C4	ADE	1220	256.483	129.561	-16.492	1.00	43.78	Al
ATOM	45366	O3	ADE	1217	247.889	123.149	-8.857	1.00	59.31	Al6S	ATOM	45419	N3	ADE	1220	257.110	130.661	-16.770	1.00	43.78	Al
ATOM	45367	P	CYT	1218	247.987	123.919	-10.280	1.00	60.79	Al6S	ATOM	45420	C2	ADE	1220	258.413	130.547	-16.540	1.00	43.78	Al
ATOM	45368	O1P	CYT	1218	249.219	124.751	-10.217	1.00	49.32	Al6S	ATOM	45421	N1	ADE	1220	259.106	129.493	-16.101	1.00	43.78	Al
ATOM	45369	O2P	CYT	1218	246.701	124.557	-10.646	1.00	49.32	Al6S	ATOM	45422	C6	ADE	1220	258.443	128.347	-15.838	1.00	43.78	Al
ATOM	45370	O5	CYT	1218	248.220	122.764	-11.351	1.00	60.79	Al6S	ATOM	45423	N6	ADE	1220	259.138	127.288	-15.420	1.00	43.78	Al
ATOM	45371	C5	CYT	1218	249.390	121.939	-11.307	1.00	60.79	Al6S	ATOM	45424	C5	ADE	1220	257.054	128.340	-16.033	1.00	43.78	Al
ATOM	45372	C4	CYT	1218	249.116	120.621	-11.983	1.00	60.79	Al6S	ATOM	45425	N7	ADE	1220	256.091	127.354	-15.865	1.00	43.78	Al
ATOM	45373	C1	CYT	1218	247.974	120.011	-11.338	1.00	60.79	Al6S	ATOM	45426	C8	ADE	1220	254.976	127.945	-16.224	1.00	43.78	Al
ATOM	45374	C1	CYT	1218	247.974	120.011	-11.338	1.00	60.79	Al6S	ATOM	45427	C2	ADE	1220	253.621	130.027	-18.454	1.00	54.97	Al
ATOM	45375	N1	CYT	1218	245.825	119.863	-12.304	1.00	49.32	Al6S	ATOM	45428	O2	ADE	1220	254.466	130.626	-19.386	1.00	54.97	Al
ATOM	45376	C6	CYT	1218	245.587	121.168	-11.981	1.00	49.32	Al6S	ATOM	45429	C3	ADE	1220	252.267	130.726	-18.361	1.00	54.97	Al
ATOM	45377	C2	CYT	1218	244.766	119.033	-12.679	1.00	49.32	Al6S	ATOM	45430	O3	ADE	1220	252.453	132.125	-18.542	1.00	54.97	Al
ATOM	45378	O2	CYT	1218	244.990	117.833	-12.900	1.00	49.32	Al6S	ATOM	45431	P	ADE	1221	251.393	132.956	-19.410	1.00	59.53	Al
ATOM	45379	N3	CYT	1218	243.521	119.553	-12.782	1.00	49.32	Al6S	ATOM	45432	O1P	URI	1221	250.647	131.962	-20.230	1.00	56.17	Al
ATOM	45380	C4	CYT	1218	243.308	120.833	-12.496	1.00	49.32	Al6S	ATOM	45433	O2P	URI	1221	252.085	134.081	-20.077	1.00	56.17	Al
ATOM	45381	N4	CYT	1218	242.076	121.308	-12.636	1.00	49.32	Al6S	ATOM	45434	O5	URI	1221	250.379	133.536	-18.325	1.00	59.53	Al
ATOM	45382	C5	CYT	1218	244.354	121.687	-12.059	1.00	49.32	Al6S	ATOM	45435	C5	URI	1221	250.717	134.676	-17.507	1.00	59.53	Al
ATOM	45383	C2	CYT	1218	247.899	119.438	-13.650	1.00	60.79	Al6S	ATOM	45436	C4	URI	1221	249.494	135.154	-16.755	1.00	59.53	Al
ATOM	45384	O2	CYT	1218	248.682	118.291	-13.894	1.00	60.79	Al6S	ATOM	45437	O4	URI	1221	248.511	135.659	-17.699	1.00	59.53	Al
ATOM	45385	C3	CYT	1218	248.749	120.687	-13.456	1.00	60.79	Al6S	ATOM	45438	C1	URI	1221	247.294	134.974	-17.516	1.00	59.53	Al
ATOM	45386	O3	CYT	1218	249.919	120.629	-14.260	1.00	60.79	Al6S	ATOM	45439	N1	URI	1221	246.583	134.922	-18.802	1.00	56.17	Al

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ATOM	45440	C6	URI	1221	246.993	134.109	-19.827	1.00	56.17	Al6s	ATOM	45493	O3	CYT	1223	253.250	129.282	-5.371	1.00	57.35	Al
ATOM	45441	C2	URI	1221	245.469	135.740	-18.948	1.00	56.17	Al6s	ATOM	45494	P	CYT	1224	253.387	130.417	-4.248	1.00	65.01	Al
ATOM	45442	O2	URI	1221	245.051	136.468	-18.064	1.00	56.17	Al6s	ATOM	45495	O1P	CYT	1224	252.863	129.844	-2.986	1.00	47.11	Al
ATOM	45443	N3	URI	1221	244.855	135.672	-20.168	1.00	56.17	Al6s	ATOM	45496	O2P	CYT	1224	252.828	131.688	-4.771	1.00	47.11	Al
ATOM	45444	C4	URI	1221	245.219	134.886	-21.231	1.00	56.17	Al6s	ATOM	45497	O5	CYT	1224	254.964	130.560	-4.084	1.00	65.01	Al
ATOM	45445	O4	URI	1221	244.571	134.954	-22.275	1.00	56.17	Al6s	ATOM	45498	C5	CYT	1224	255.757	129.441	-3.599	1.00	65.01	Al
ATOM	45446	C5	URI	1221	246.365	134.062	-21.002	1.00	56.17	Al6s	ATOM	45499	C4	CYT	1224	257.238	129.781	-3.594	1.00	65.01	Al
ATOM	45447	C2	URI	1221	247.668	133.638	-16.875	1.00	59.53	Al6s	ATOM	45500	O4	CYT	1224	257.725	129.941	-4.952	1.00	65.01	Al
ATOM	45448	O2	URI	1221	246.568	133.068	-16.208	1.00	59.53	Al6s	ATOM	45501	C1	CYT	1224	258.689	130.976	-4.993	1.00	65.01	Al
ATOM	45449	C3	URI	1221	248.791	134.074	-15.940	1.00	59.53	Al6s	ATOM	45502	N1	CYT	1224	258.173	132.050	-5.850	1.00	47.11	Al
ATOM	45450	O3	URI	1221	248.185	134.686	-14.804	1.00	59.53	Al6s	ATOM	45503	C6	CYT	1224	256.829	132.259	-5.986	1.00	47.11	Al
ATOM	45451	P	GUA	1222	248.957	134.733	-13.392	1.00	55.86	Al6s	ATOM	45504	C2	CYT	1224	259.084	132.857	-6.532	1.00	47.11	Al
ATOM	45452	O1P	GUA	1222	247.916	134.842	-12.334	1.00	65.91	Al6s	ATOM	45505	O2	CYT	1224	260.305	132.662	-6.358	1.00	47.11	Al
ATOM	45453	O2P	GUA	1222	250.014	135.767	-13.482	1.00	65.91	Al6s	ATOM	45506	N3	CYT	1224	258.619	133.832	-7.356	1.00	47.11	Al
ATOM	45454	O5	GUA	1222	249.638	133.301	-13.241	1.00	55.86	Al6s	ATOM	45507	C4	CYT	1224	257.304	134.017	-7.491	1.00	47.11	Al
ATOM	45455	C5	GUA	1222	248.834	132.125	-13.134	1.00	55.86	Al6s	ATOM	45508	N4	CYT	1224	256.885	134.975	-8.321	1.00	47.11	Al
ATOM	45456	C4	GUA	1222	249.689	130.943	-12.781	1.00	55.86	Al6s	ATOM	45509	C5	CYT	1224	256.356	133.223	-6.784	1.00	47.11	Al
ATOM	45457	O4	GUA	1222	250.656	130.740	-13.833	1.00	55.86	Al6s	ATOM	45510	C2	CYT	1224	258.930	131.453	-3.564	1.00	65.01	Al
ATOM	45458	C1	GUA	1222	251.893	130.338	-13.275	1.00	55.86	Al6s	ATOM	45511	O2	CYT	1224	260.067	130.779	-3.056	1.00	65.01	Al
ATOM	45459	N9	GUA	1222	252.897	131.348	-13.616	1.00	65.91	Al6s	ATOM	45512	C3	CYT	1224	257.611	131.076	-2.896	1.00	65.01	Al
ATOM	45460	C4	GUA	1222	254.258	131.226	-13.469	1.00	65.91	Al6s	ATOM	45513	O3	CYT	1224	257.695	130.899	-1.492	1.00	65.01	Al
ATOM	45461	N3	GUA	1222	254.903	130.164	-12.948	1.00	65.91	Al6s	ATOM	45514	P	CYT	1225	257.420	131.149	-0.524	1.00	92.10	Al
ATOM	45462	C2	GUA	1222	256.205	130.323	-12.968	1.00	65.91	Al6s	ATOM	45515	O1P	CYT	1225	257.442	131.588	0.847	1.00	61.39	Al
ATOM	45463	N2	GUA	1222	256.989	129.364	-12.482	1.00	65.91	Al6s	ATOM	45516	O2P	CYT	1225	256.237	132.912	-0.993	1.00	61.39	Al
ATOM	45464	N1	GUA	1222	256.833	131.435	-13.464	1.00	65.91	Al6s	ATOM	45517	O5	CYT	1225	258.701	133.068	-0.734	1.00	92.10	Al
ATOM	45465	C6	GUA	1222	256.191	132.544	-14.004	1.00	65.91	Al6s	ATOM	45518	C5	CYT	1225	260.001	133.592	-0.347	1.00	92.10	Al
ATOM	45466	O6	GUA	1222	256.856	133.495	-14.430	1.00	65.91	Al6s	ATOM	45519	C4	CYT	1225	261.054	133.630	-0.639	1.00	92.10	Al
ATOM	45467	C5	GUA	1222	254.788	132.390	-13.981	1.00	65.91	Al6s	ATOM	45520	O4	CYT	1225	261.255	133.749	-2.067	1.00	92.10	Al
ATOM	45468	N7	GUA	1222	253.783	133.242	-14.414	1.00	65.91	Al6s	ATOM	45521	C1	CYT	1225	261.601	135.082	-2.383	1.00	92.10	Al
ATOM	45469	C8	GUA	1222	252.679	132.589	-14.172	1.00	65.91	Al6s	ATOM	45522	N1	CYT	1225	260.616	133.608	-3.330	1.00	61.39	Al
ATOM	45470	C2	GUA	1222	251.681	130.154	-11.775	1.00	55.86	Al6s	ATOM	45523	C6	CYT	1225	259.372	135.050	-4.337	1.00	61.39	Al
ATOM	45471	O2	GUA	1222	251.319	128.813	-11.533	1.00	55.86	Al6s	ATOM	45524	C2	CYT	1225	260.972	136.714	-4.122	1.00	61.39	Al
ATOM	45472	C3	GUA	1222	250.516	131.095	-11.521	1.00	55.86	Al6s	ATOM	45525	O2	CYT	1225	262.111	137.199	-4.007	1.00	61.39	Al
ATOM	45473	O3	GUA	1222	249.778	130.705	-10.384	1.00	55.86	Al6s	ATOM	45526	N3	CYT	1225	260.068	137.225	-4.987	1.00	61.39	Al
ATOM	45474	P	GUA	1222	250.088	131.395	-8.975	1.00	57.35	Al6s	ATOM	45527	C4	CYT	1225	258.857	136.673	-5.085	1.00	61.39	Al
ATOM	45475	O1P	CYT	1223	248.992	131.049	-8.033	1.00	53.54	Al6s	ATOM	45528	N4	CYT	1225	258.002	137.207	-5.959	1.00	61.39	Al
ATOM	45476	O2P	CYT	1223	250.377	132.820	-9.279	1.00	53.54	Al6s	ATOM	45529	C5	CYT	1225	258.469	135.546	-4.292	1.00	61.39	Al
ATOM	45477	O5	CYT	1223	251.409	130.666	-8.470	1.00	57.35	Al6s	ATOM	45530	C2	CYT	1225	261.624	135.891	-1.086	1.00	92.10	Al
ATOM	45478	C5	CYT	1223	251.346	129.322	-7.985	1.00	57.35	Al6s	ATOM	45531	O2	CYT	1225	262.958	136.006	-0.638	1.00	92.10	Al
ATOM	45479	C4	CYT	1223	252.731	128.794	-7.698	1.00	57.35	Al6s	ATOM	45532	C3	CYT	1225	260.743	135.042	-0.178	1.00	92.10	Al
ATOM	45480	O4	CYT	1223	253.513	128.770	-8.919	1.00	57.35	Al6s	ATOM	45533	O3	CYT	1225	261.038	135.216	1.200	1.00	92.10	Al
ATOM	45481	C1	CYT	1223	254.872	129.023	-8.620	1.00	57.35	Al6s	ATOM	45534	P	ADP	1226	260.267	136.346	2.039	1.00	94.40	Al
ATOM	45482	N1	CYT	1223	255.267	130.266	-9.296	1.00	53.54	Al6s	ATOM	45535	O1P	ADP	1226	260.772	136.226	3.434	1.00	78.53	Al
ATOM	45483	C6	CYT	1223	254.325	131.097	-9.836	1.00	53.54	Al6s	ATOM	45537	O5	ADP	1226	260.800	137.701	1.398	1.00	94.40	Al
ATOM	45484	C2	CYT	1223	256.628	130.596	-9.369	1.00	53.54	Al6s	ATOM	45538	C5	ADP	1226	262.186	138.031	1.486	1.00	94.40	Al
ATOM	45485	O2	CYT	1223	257.468	129.820	-8.872	1.00	53.54	Al6s	ATOM	45539	C4	ADP	1226	262.501	139.229	0.638	1.00	94.40	Al
ATOM	45486	N3	CYT	1223	256.990	131.750	-9.971	1.00	53.54	Al6s	ATOM	45540	O4	ADP	1226	262.222	138.934	-0.751	1.00	94.40	Al
ATOM	45487	C4	CYT	1223	256.058	132.559	-10.480	1.00	53.54	Al6s	ATOM	45541	C1	ADP	1226	261.937	140.140	-1.436	1.00	94.40	Al
ATOM	45488	N4	CYT	1223	256.456	133.694	-11.042	1.00	53.54	Al6s	ATOM	45542	N9	ADP	1226	260.675	140.002	-2.157	1.00	78.53	Al
ATOM	45489	C5	CYT	1223	254.675	132.240	-10.429	1.00	53.54	Al6s	ATOM	45543	C3	ADP	1226	260.274	141.822	-3.181	1.00	78.53	Al
ATOM	45490	C2	CYT	1223	254.997	129.141	-7.104	1.00	57.35	Al6s	ATOM	45544	N4	ADP	1226	260.957	140.849	-3.715	1.00	78.53	Al
ATOM	45491	O2	CYT	1223	255.351	127.867	-6.596	1.00	57.35	Al6s	ATOM	45545	C2	ADP	1226	260.248	142.438	-4.676	1.00	78.53	Al
ATOM	45492	C3	CYT	1223	253.588	129.584	-6.721	1.00	57.35	Al6s	ATOM	45545	C2	ADP	1226	260.248	142.438	-4.676	1.00	78.53	Al

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ATOM	45546	N1	ADE	1226	259.026	142.143	-5.127	1.00	78.53	A16S	ATOM	45599	O5' ADE	1229	253.168	150.693	1.026	1.00110.03	A1		
ATOM	45547	C6	ADE	1226	258.364	141.104	-4.565	1.00	78.53	A16S	ATOM	45600	C5' ADE	1229	253.024	151.614	-0.072	1.00110.03	A1		
ATOM	45548	N6	ADE	1226	257.138	140.815	-5.004	1.00	78.53	A16S	ATOM	45601	C4' ADE	1229	251.668	151.490	-0.731	1.00110.03	A1		
ATOM	45549	C5	ADE	1226	259.014	140.390	-3.538	1.00	78.53	A16S	ATOM	45602	O4' ADE	1229	251.602	150.367	-1.646	1.00110.03	A1		
ATOM	45550	N7	ADE	1226	258.633	139.298	-2.768	1.00	78.53	A16S	ATOM	45603	C1' ADE	1229	250.243	150.011	-1.842	1.00110.03	A1		
ATOM	45551	C8	ADE	1226	259.654	139.105	-1.970	1.00	78.53	A16S	ATOM	45604	N9	ADE	1229	250.064	148.578	-1.587	1.00	85.12	A1
ATOM	45552	C2' ADE	1226	261.887	141.268	-0.404	1.00	94.40	A16S	ATOM	45605	C4 ADE	1229	249.108	147.772	-2.169	1.00	85.12	A1		
ATOM	45553	O2' ADE	1226	263.089	142.007	-0.474	1.00	94.40	A16S	ATOM	45606	N3 ADE	1229	248.191	148.123	-3.091	1.00	85.12	A1		
ATOM	45554	C3' ADE	1226	261.709	140.496	0.902	1.00	94.40	A16S	ATOM	45607	C2 ADE	1229	247.429	147.081	-3.418	1.00	85.12	A1		
ATOM	45555	O3' ADE	1226	262.199	141.207	2.034	1.00	94.40	A16S	ATOM	45608	N1 ADE	1229	247.470	145.821	-2.963	1.00	85.12	A1		
ATOM	45556	P	CYT	1227	261.189	142.105	2.909	1.00	92.78	A16S	ATOM	45609	C6 ADE	1229	248.398	145.497	-2.033	1.00	85.12	A1	
ATOM	45557	O1P	CYT	1227	261.916	142.489	4.145	1.00	96.73	A16S	ATOM	45610	N6 ADE	1229	248.431	144.238	-1.571	1.00	85.12	A1	
ATOM	45558	O2P	CYT	1227	259.893	141.394	3.023	1.00	96.73	A16S	ATOM	45611	C5 ADE	1229	249.278	146.517	-1.605	1.00	85.12	A1	
ATOM	45559	O5' CYT	1227	260.968	143.407	2.012	1.00	92.78	A16S	ATOM	45612	N7 ADE	1229	250.329	146.525	-0.697	1.00	85.12	A1		
ATOM	45560	C5' CYT	1227	262.078	144.263	1.684	1.00	92.78	A16S	ATOM	45613	C8 ADE	1229	250.763	147.765	-0.726	1.00	85.12	A1		
ATOM	45561	C4' CYT	1227	261.706	145.237	0.587	1.00	92.78	A16S	ATOM	45614	C2' ADE	1229	249.402	150.869	-0.891	1.00110.03	A1			
ATOM	45562	O4' CYT	1227	261.479	144.528	-0.659	1.00	92.78	A16S	ATOM	45615	O2' ADE	1229	248.867	151.972	-1.594	1.00110.03	A1			
ATOM	45563	C1' CYT	1227	260.477	145.200	-1.417	1.00	92.78	A16S	ATOM	45616	C3' ADE	1229	250.434	151.325	0.133	1.00110.03	A1			
ATOM	45564	N1	CYT	1227	259.314	144.298	-1.592	1.00	96.73	A16S	ATOM	45617	O3' ADE	1229	250.026	152.541	0.735	1.00110.03	A1		
ATOM	45565	C6	CYT	1227	259.063	143.286	-0.704	1.00	96.73	A16S	ATOM	45618	P	CYT	1230	248.764	152.545	1.731	1.00	87.45	A1
ATOM	45566	C2	CYT	1227	258.455	144.506	-2.690	1.00	96.73	A16S	ATOM	45619	O1P	CYT	1230	248.732	153.834	2.452	1.00	58.04	A1
ATOM	45567	O2	CYT	1227	258.696	145.433	-3.486	1.00	96.73	A16S	ATOM	45620	O2P	CYT	1230	248.736	151.274	2.506	1.00	58.04	A1
ATOM	45568	N3	CYT	1227	257.387	143.696	-2.850	1.00	96.73	A16S	ATOM	45621	O5' CYT	1230	247.519	152.577	0.746	1.00	87.45	A1	
ATOM	45569	C4	CYT	1227	257.156	142.714	-1.976	1.00	96.73	A16S	ATOM	45622	C5' CYT	1230	246.215	152.328	1.252	1.00	87.45	A1	
ATOM	45570	N4	CYT	1227	256.091	141.939	-2.182	1.00	96.73	A16S	ATOM	45623	C4' CYT	1230	245.207	152.287	0.138	1.00	87.45	A1	
ATOM	45571	C5	CYT	1227	258.007	142.481	-0.856	1.00	96.73	A16S	ATOM	45624	O4' CYT	1230	245.699	151.475	-0.960	1.00	87.45	A1	
ATOM	45572	C2' CYT	1227	260.077	146.450	-0.640	1.00	92.78	A16S	ATOM	45625	C1' CYT	1230	244.705	150.540	-1.346	1.00	87.45	A1		
ATOM	45573	O2' CYT	1227	260.810	147.564	-1.111	1.00	92.78	A16S	ATOM	45626	N1	CYT	1230	245.157	149.208	-0.881	1.00	58.04	A1	
ATOM	45574	C3' CYT	1227	260.430	146.034	0.781	1.00	92.78	A16S	ATOM	45627	C6	CYT	1230	246.147	149.106	0.062	1.00	58.04	A1	
ATOM	45575	O3' CYT	1227	260.557	147.126	1.662	1.00	92.78	A16S	ATOM	45628	C2	CYT	1230	244.565	148.045	-1.411	1.00	58.04	A1	
ATOM	45576	P	URI	1228	259.328	147.477	2.635	1.00	94.73	A16S	ATOM	45629	O2	CYT	1230	243.658	148.152	-2.274	1.00	58.04	A1
ATOM	45577	O1P	URI	1228	259.769	148.544	3.568	1.00	80.70	A16S	ATOM	45630	N3	CYT	1230	245.000	146.836	-0.967	1.00	58.04	A1
ATOM	45578	O2P	URI	1228	258.796	146.190	3.180	1.00	80.70	A16S	ATOM	45631	C4	CYT	1230	245.972	146.764	-0.049	1.00	58.04	A1
ATOM	45579	O5' URI	1228	258.251	148.109	1.650	1.00	94.73	A16S	ATOM	45632	N4	CYT	1230	246.372	145.561	0.352	1.00	58.04	A1	
ATOM	45580	C5' URI	1228	258.550	149.309	0.922	1.00	94.73	A16S	ATOM	45633	C5	CYT	1230	246.577	147.920	0.496	1.00	58.04	A1	
ATOM	45581	C4' URI	1228	257.488	149.568	-0.112	1.00	94.73	A16S	ATOM	45634	C2' CYT	1230	243.399	150.981	-0.676	1.00	87.45	A1		
ATOM	45582	O4' URI	1228	257.513	148.501	-1.096	1.00	94.73	A16S	ATOM	45635	O2' CYT	1230	242.711	151.909	-1.489	1.00	87.45	A1		
ATOM	45583	C1' URI	1228	256.189	148.206	-1.517	1.00	94.73	A16S	ATOM	45636	C3' CYT	1230	243.927	151.618	0.597	1.00	87.45	A1		
ATOM	45584	N1	URI	1228	255.842	146.852	-1.054	1.00	80.70	A16S	ATOM	45637	O3' CYT	1230	243.063	152.547	1.219	1.00	87.45	A1	
ATOM	45585	C6	URI	1228	256.462	146.292	0.045	1.00	80.70	A16S	ATOM	45638	P	ADE	1231	242.695	152.355	2.769	1.00	94.30	A1
ATOM	45586	C2	URI	1228	254.850	146.168	-1.733	1.00	80.70	A16S	ATOM	45639	O1P	ADE	1231	242.016	153.614	3.153	1.00	61.35	A1
ATOM	45587	O2	URI	1228	254.302	146.607	-2.729	1.00	80.70	A16S	ATOM	45640	O2P	ADE	1231	243.896	151.900	3.523	1.00	61.35	A1
ATOM	45588	N3	URI	1228	254.523	144.946	-1.197	1.00	80.70	A16S	ATOM	45641	O5' ADE	1231	241.650	151.150	2.766	1.00	94.30	A1	
ATOM	45589	C4	URI	1228	255.082	144.347	-0.082	1.00	80.70	A16S	ATOM	45642	C5' ADE	1231	240.798	150.944	1.628	1.00	94.30	A1	
ATOM	45590	O4	URI	1228	254.623	143.281	0.331	1.00	80.70	A16S	ATOM	45643	C4' ADE	1231	239.720	149.917	1.908	1.00	94.30	A1	
ATOM	45591	C5	URI	1228	255.125	145.099	0.538	1.00	80.70	A16S	ATOM	45644	O4' ADE	1231	240.227	148.561	1.822	1.00	94.30	A1	
ATOM	45592	C2' URI	1228	255.267	149.228	-0.855	1.00	94.73	A16S	ATOM	45645	C1' ADE	1231	239.280	147.698	2.422	1.00	94.30	A1		
ATOM	45593	O2' URI	1228	255.081	150.332	-1.722	1.00	94.73	A16S	ATOM	45646	N9	ADE	1231	239.936	146.703	3.274	1.00	61.35	A1	
ATOM	45594	C3' URI	1228	256.058	149.568	0.401	1.00	94.73	A16S	ATOM	45647	C4	ADE	1231	239.482	145.414	3.438	1.00	61.35	A1	
ATOM	45595	O3' URI	1228	255.673	150.795	0.995	1.00	94.73	A16S	ATOM	45648	N3	ADE	1231	238.421	144.845	2.840	1.00	61.35	A1	
ATOM	45596	P	ADE	1229	254.421	150.823	2.002	1.00110.03	A16S	ATOM	45649	C2	ADE	1231	238.268	143.590	3.255	1.00	61.35	A1	
ATOM	45597	O1P	ADE	1229	254.399	152.183	2.598	1.00	85.12	A16S	ATOM	45650	N1	ADE	1231	238.999	142.890	4.136	1.00	61.35	A1
ATOM	45598	O2P	ADE	1229	254.476	149.626	2.893	1.00	85.12	A16S	ATOM	45651	C6	ADE	1231	240.052	143.489	4.719	1.00	61.35	A1

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ATOM	45652	N6	ADE	1231	240.759	142.789	5.604	1.00	61.35	Al6S	ATOM	45705	O1P	GUA	1234	227.630	145.912	11.683	1.00	75.66	Al
ATOM	45653	C5	ADE	1231	240.329	144.825	4.358	1.00	61.35	Al6S	ATOM	45706	O2P	GUA	1234	229.902	147.062	12.082	1.00	75.66	Al
ATOM	45654	N7	ADE	1231	241.316	145.717	4.750	1.00	61.35	Al6S	ATOM	45707	O5'	GUA	1234	229.709	144.574	12.148	1.00	68.90	Al
ATOM	45655	C8	ADE	1231	241.044	146.811	4.074	1.00	61.35	Al6S	ATOM	45708	C5'	GUA	1234	230.298	144.524	13.453	1.00	68.90	Al
ATOM	45656	C2'	ADE	1231	238.273	148.562	3.182	1.00	94.30	Al6S	ATOM	45709	C4'	GUA	1234	231.144	143.287	13.563	1.00	68.90	Al
ATOM	45657	O2'	ADE	1231	237.106	148.601	2.388	1.00	94.30	Al6S	ATOM	45710	O4'	GUA	1234	232.267	143.404	12.657	1.00	68.90	Al
ATOM	45658	C3'	ADE	1231	238.974	149.921	3.233	1.00	94.30	Al6S	ATOM	45711	C1'	GUA	1234	233.400	142.747	13.212	1.00	68.90	Al
ATOM	45659	O3'	ADE	1231	238.021	150.983	3.345	1.00	94.30	Al6S	ATOM	45712	N9	GUA	1234	234.492	143.713	13.365	1.00	75.66	Al
ATOM	45660	P	ADE	1232	237.437	151.394	4.801	1.00	80.67	Al6S	ATOM	45713	C4	GUA	1234	235.733	143.462	13.916	1.00	75.66	Al
ATOM	45661	O1P	ADE	1232	236.821	152.739	4.652	1.00	62.22	Al6S	ATOM	45714	N3	GUA	1234	236.166	142.274	14.380	1.00	75.66	Al
ATOM	45662	O2P	ADE	1232	238.448	151.156	5.867	1.00	62.22	Al6S	ATOM	45715	C2	GUA	1234	237.393	142.353	14.880	1.00	75.66	Al
ATOM	45663	O5'	ADE	1232	236.265	150.352	5.076	1.00	80.67	Al6S	ATOM	45716	N2	GUA	1234	237.977	141.270	15.409	1.00	75.66	Al
ATOM	45664	C5'	ADE	1232	235.123	150.280	4.208	1.00	80.67	Al6S	ATOM	45717	N1	GUA	1234	238.138	143.500	14.886	1.00	75.66	Al
ATOM	45665	C4'	ADE	1232	234.441	148.945	4.357	1.00	80.67	Al6S	ATOM	45718	C6	GUA	1234	237.718	144.733	14.396	1.00	75.66	Al
ATOM	45666	O4'	ADE	1232	235.394	147.885	4.101	1.00	80.67	Al6S	ATOM	45719	O6	GUA	1234	238.473	145.709	14.457	1.00	75.66	Al
ATOM	45667	C1'	ADE	1232	235.080	146.758	4.888	1.00	80.67	Al6S	ATOM	45720	C5	GUA	1234	236.402	144.667	13.875	1.00	75.66	Al
ATOM	45668	N9	ADE	1232	236.263	146.376	5.662	1.00	62.22	Al6S	ATOM	45721	N7	GUA	1234	235.613	145.653	13.295	1.00	75.66	Al
ATOM	45669	C4	ADE	1232	236.602	145.094	6.033	1.00	62.22	Al6S	ATOM	45722	C2'	GUA	1234	232.969	142.137	14.547	1.00	68.90	Al
ATOM	45670	N3	ADE	1232	235.939	143.962	5.752	1.00	62.22	Al6S	ATOM	45723	C8	GUA	1234	232.609	140.783	14.360	1.00	68.90	Al
ATOM	45671	C2	ADE	1232	236.559	142.909	6.284	1.00	62.22	Al6S	ATOM	45724	O2'	GUA	1234	232.609	140.783	14.360	1.00	68.90	Al
ATOM	45672	N1	ADE	1232	237.677	142.859	7.011	1.00	62.22	Al6S	ATOM	45725	C3'	GUA	1234	231.780	143.013	14.911	1.00	68.90	Al
ATOM	45673	C6	ADE	1232	238.318	144.010	8.018	1.00	62.22	Al6S	ATOM	45726	O3'	GUA	1234	230.888	142.342	15.773	1.00	68.90	Al
ATOM	45674	N6	ADE	1232	239.426	143.953	8.728	1.00	62.22	Al6S	ATOM	45727	P	CYT	1235	230.652	142.906	17.254	1.00	78.24	Al
ATOM	45675	C5	ADE	1232	237.769	145.204	6.766	1.00	62.22	Al6S	ATOM	45728	O1P	CYT	1235	229.333	142.397	17.693	1.00	63.13	Al
ATOM	45676	N7	ADE	1232	238.171	146.529	6.845	1.00	62.22	Al6S	ATOM	45729	O2P	CYT	1235	230.904	144.375	17.216	1.00	63.13	Al
ATOM	45677	C8	ADE	1232	237.249	147.182	6.174	1.00	62.22	Al6S	ATOM	45730	O5'	CYT	1235	231.770	142.189	18.134	1.00	78.24	Al
ATOM	45678	C2'	ADE	1232	233.851	147.110	5.727	1.00	80.67	Al6S	ATOM	45731	C5'	CYT	1235	231.817	140.760	18.232	1.00	78.24	Al
ATOM	45679	O2'	ADE	1232	232.712	146.634	5.044	1.00	80.67	Al6S	ATOM	45732	C4'	CYT	1235	233.228	140.304	18.503	1.00	78.24	Al
ATOM	45680	C3'	ADE	1232	233.896	148.632	5.733	1.00	80.67	Al6S	ATOM	45733	O4'	CYT	1235	234.105	140.804	17.459	1.00	78.24	Al
ATOM	45681	O3'	ADE	1232	232.608	149.216	5.879	1.00	80.67	Al6S	ATOM	45734	C1'	CYT	1235	235.382	141.115	18.005	1.00	78.24	Al
ATOM	45682	P	ADE	1233	232.122	149.735	7.325	1.00	71.74	Al6S	ATOM	45735	N1	CYT	1235	235.663	142.550	17.787	1.00	63.13	Al
ATOM	45683	O1P	ADE	1233	230.922	150.583	7.081	1.00	79.65	Al6S	ATOM	45736	C6	CYT	1235	236.686	143.405	17.350	1.00	63.13	Al
ATOM	45684	O2P	ADE	1233	233.281	150.304	8.055	1.00	79.65	Al6S	ATOM	45737	C2	CYT	1235	236.960	143.027	18.022	1.00	63.13	Al
ATOM	45685	O5'	ADE	1233	231.678	148.404	8.087	1.00	71.74	Al6S	ATOM	45738	O2	CYT	1235	237.824	142.238	18.442	1.00	63.13	Al
ATOM	45686	C5'	ADE	1233	230.632	147.566	7.553	1.00	71.74	Al6S	ATOM	45739	N3	CYT	1235	237.273	145.156	17.342	1.00	63.13	Al
ATOM	45687	C4'	ADE	1233	230.806	146.141	8.016	1.00	71.74	Al6S	ATOM	45740	C4	CYT	1235	236.586	146.434	17.108	1.00	63.13	Al
ATOM	45688	O4'	ADE	1233	232.108	145.658	7.609	1.00	71.74	Al6S	ATOM	45741	N4	CYT	1235	234.946	144.701	17.115	1.00	63.13	Al
ATOM	45689	C1'	ADE	1233	232.606	144.752	8.573	1.00	71.74	Al6S	ATOM	45742	C5	CYT	1235	234.946	144.701	17.115	1.00	63.13	Al
ATOM	45690	N9	ADE	1233	233.904	145.235	9.034	1.00	79.65	Al6S	ATOM	45743	O2'	CYT	1235	235.348	140.750	19.483	1.00	78.24	Al
ATOM	45691	C4	ADE	1233	234.880	144.460	9.612	1.00	79.65	Al6S	ATOM	45744	C2'	CYT	1235	235.880	139.450	19.658	1.00	78.24	Al
ATOM	45692	N3	ADE	1233	234.832	143.139	9.865	1.00	79.65	Al6S	ATOM	45745	C3'	CYT	1235	233.857	140.836	19.776	1.00	78.24	Al
ATOM	45693	C2	ADE	1233	235.969	142.725	10.425	1.00	79.65	Al6S	ATOM	45746	O3'	CYT	1235	233.486	140.099	20.923	1.00	78.24	Al
ATOM	45694	N1	ADE	1233	237.064	143.428	10.766	1.00	79.65	Al6S	ATOM	45747	P	GUA	1236	233.330	140.870	22.321	1.00	101.17	Al
ATOM	45695	C6	ADE	1233	237.078	144.753	10.466	1.00	79.65	Al6S	ATOM	45748	O1P	GUA	1236	232.583	139.983	23.261	1.00	67.21	Al
ATOM	45696	N6	ADE	1233	238.167	145.452	10.765	1.00	79.65	Al6S	ATOM	45749	O2P	GUA	1236	232.798	142.229	21.993	1.00	67.21	Al
ATOM	45697	C5	ADE	1233	235.932	145.316	9.876	1.00	79.65	Al6S	ATOM	45750	O5'	GUA	1236	234.826	141.013	22.860	1.00	101.17	Al
ATOM	45698	N7	ADE	1233	235.624	146.612	9.479	1.00	79.65	Al6S	ATOM	45751	C5'	GUA	1236	235.568	139.856	23.306	1.00	101.17	Al
ATOM	45699	C8	ADE	1233	234.412	146.512	8.990	1.00	79.65	Al6S	ATOM	45752	C4'	GUA	1236	236.953	140.260	23.751	1.00	101.17	Al
ATOM	45700	C2'	ADE	1233	231.574	144.633	9.692	1.00	71.74	Al6S	ATOM	45753	O4'	GUA	1236	237.632	140.905	22.644	1.00	101.17	Al
ATOM	45701	O2'	ADE	1233	230.825	143.448	9.499	1.00	71.74	Al6S	ATOM	45754	C1'	GUA	1236	238.463	141.944	23.125	1.00	101.17	Al
ATOM	45702	C3'	ADE	1233	230.773	145.921	9.514	1.00	71.74	Al6S	ATOM	45755	N9	GUA	1236	238.055	143.189	22.481	1.00	67.21	Al
ATOM	45703	O3'	ADE	1233	229.434	145.803	9.970	1.00	71.74	Al6S	ATOM	45756	C4	GUA	1236	238.821	144.323	22.292	1.00	67.21	Al
ATOM	45704	P	GUA	1234	229.117	145.924	11.542	1.00	68.90	Al6S	ATOM	45757	N3	GUA	1236	240.100	144.502	22.695	1.00	67.21	Al

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ATOM	45758	C2	GUA	1236	240.560	145.708	22.368	1.00	67.21	Al6s	ATOM	45811	O3' URI	1238	241.029	134.321	30.997	1.00193.28	Al
ATOM	45759	N2	GUA	1236	241.814	146.066	22.700	1.00	67.21	Al6s	ATOM	45812	P GUA	1239	241.847	133.287	29.611	1.00111.17	Al
ATOM	45760	N1	GUA	1236	239.825	146.652	21.695	1.00	67.21	Al6s	ATOM	45813	O1P GUA	1239	241.353	133.065	28.916	1.00104.21	Al
ATOM	45761	C6	GUA	1236	238.513	146.488	21.270	1.00	67.21	Al6s	ATOM	45814	O2P GUA	1239	243.307	134.434	29.868	1.00104.21	Al
ATOM	45762	O6	GUA	1236	237.941	147.406	20.673	1.00	67.21	Al6s	ATOM	45815	O5' GUA	1239	241.309	135.558	28.805	1.00111.17	Al
ATOM	45763	C5	GUA	1236	238.005	145.205	21.617	1.00	67.21	Al6s	ATOM	45816	C5' GUA	1239	240.067	135.492	28.068	1.00111.17	Al
ATOM	45764	N7	GUA	1236	236.757	144.646	21.392	1.00	67.21	Al6s	ATOM	45817	C4' GUA	1239	239.922	136.679	27.138	1.00111.17	Al
ATOM	45765	C8	GUA	1236	236.831	143.457	21.924	1.00	67.21	Al6s	ATOM	45818	O4' GUA	1239	239.674	137.891	27.901	1.00111.17	Al
ATOM	45766	C2' GUA	1236	238.362	141.952	24.649	1.00101.17	Al6s	ATOM	45819	C1' GUA	1239	240.208	139.010	27.207	1.00111.17	Al		
ATOM	45767	O2' GUA	1236	239.441	141.198	25.160	1.00101.17	Al6s	ATOM	45820	N9 GUA	1239	241.621	140.982	28.039	1.00104.21	Al		
ATOM	45768	C3' GUA	1236	237.017	141.271	24.884	1.00101.17	Al6s	ATOM	45821	C4 GUA	1239	241.113	141.920	27.132	1.00104.21	Al		
ATOM	45769	O3' GUA	1236	236.959	140.625	26.157	1.00101.17	Al6s	ATOM	45822	N3 GUA	1239	241.717	143.087	27.269	1.00104.21	Al		
ATOM	45770	P ADE	1237	235.800	141.021	27.200	1.00112.17	Al6s	ATOM	45823	C2 GUA	1239	241.717	143.087	27.269	1.00104.21	Al		
ATOM	45771	O1P ADE	1237	234.632	140.164	26.898	1.00119.27	Al6s	ATOM	45824	N2 GUA	1239	241.332	144.130	26.524	1.00104.21	Al		
ATOM	45772	O2P ADE	1237	235.640	142.496	27.212	1.00119.27	Al6s	ATOM	45825	N1 GUA	1239	242.743	143.318	28.149	1.00104.21	Al		
ATOM	45773	O5' ADE	1237	236.368	140.568	28.618	1.00112.17	Al6s	ATOM	45826	C6 GUA	1239	243.286	142.371	29.013	1.00104.21	Al		
ATOM	45774	C5' ADE	1237	237.014	139.292	28.784	1.00112.17	Al6s	ATOM	45827	O6 GUA	1239	244.220	142.687	29.765	1.00104.21	Al		
ATOM	45775	C4' ADE	1237	237.740	139.233	30.113	1.00112.17	Al6s	ATOM	45828	C5 GUA	1239	242.641	141.110	28.879	1.00104.21	Al		
ATOM	45776	O4' ADE	1237	238.613	140.388	30.225	1.00112.17	Al6s	ATOM	45829	N7 GUA	1239	242.867	139.909	29.539	1.00104.21	Al		
ATOM	45777	C1' ADE	1237	238.702	140.795	31.577	1.00112.17	Al6s	ATOM	45830	C8 GUA	1239	241.999	139.083	29.018	1.00104.21	Al		
ATOM	45778	N9 ADE	1237	238.363	142.215	31.662	1.00119.27	Al6s	ATOM	45831	C2' GUA	1239	240.825	138.491	25.907	1.00111.17	Al		
ATOM	45779	C4 ADE	1237	239.033	143.251	31.052	1.00119.27	Al6s	ATOM	45832	O2' GUA	1239	239.895	138.627	24.855	1.00111.17	Al		
ATOM	45780	N3 ADE	1237	240.104	143.174	30.242	1.00119.27	Al6s	ATOM	45833	C3' GUA	1239	241.107	137.035	26.255	1.00111.17	Al		
ATOM	45781	C2 ADE	1237	240.495	144.389	29.860	1.00119.27	Al6s	ATOM	45834	O3' GUA	1239	241.218	136.229	25.087	1.00111.17	Al		
ATOM	45782	N1 ADE	1237	239.981	145.580	30.170	1.00119.27	Al6s	ATOM	45835	P CYT	1240	242.608	136.207	24.269	1.00107.06	Al		
ATOM	45783	C6 ADE	1237	238.904	145.624	30.986	1.00119.27	Al6s	ATOM	45836	O1P CYT	1240	242.524	135.139	23.243	1.00101.02	Al		
ATOM	45784	N6 ADE	1237	238.389	146.813	31.310	1.00119.27	Al6s	ATOM	45837	O2P CYT	1240	243.732	135.154	25.243	1.00101.02	Al		
ATOM	45785	C5 ADE	1237	238.387	144.404	31.455	1.00119.27	Al6s	ATOM	45838	O5' CYT	1240	242.626	137.616	23.529	1.00107.06	Al		
ATOM	45786	N7 ADE	1237	237.316	144.104	32.285	1.00119.27	Al6s	ATOM	45839	C5' CYT	1240	241.673	137.902	22.506	1.00107.06	Al		
ATOM	45787	C8 ADE	1237	237.831	142.798	32.374	1.00119.27	Al6s	ATOM	45840	C4' CYT	1240	241.973	139.228	21.869	1.00107.06	Al		
ATOM	45788	C2' ADE	1237	237.831	139.865	32.424	1.00112.17	Al6s	ATOM	45841	O4' CYT	1240	241.696	140.306	22.785	1.00107.06	Al		
ATOM	45789	O2' ADE	1237	238.688	138.964	33.087	1.00112.17	Al6s	ATOM	45842	C1' CYT	1240	242.577	141.387	22.530	1.00107.06	Al		
ATOM	45790	C3' ADE	1237	236.886	139.265	31.375	1.00112.17	Al6s	ATOM	45843	N1 CYT	1240	243.348	141.669	23.757	1.00101.02	Al		
ATOM	45791	O3' ADE	1237	236.314	137.956	31.613	1.00112.17	Al6s	ATOM	45844	C6 CYT	1240	243.785	140.651	24.561	1.00101.02	Al		
ATOM	45792	P URI	1238	236.677	137.103	32.940	1.00193.28	Al6s	ATOM	45845	C2 CYT	1240	243.647	143.003	24.080	1.00101.02	Al		
ATOM	45793	O1P URI	1238	235.812	135.895	32.902	1.00201.09	Al6s	ATOM	45846	O2 CYT	1240	243.827	143.914	23.349	1.00101.02	Al		
ATOM	45794	O2P URI	1238	236.650	137.980	34.140	1.00201.09	Al6s	ATOM	45847	N3 CYT	1240	244.387	143.263	25.177	1.00101.02	Al		
ATOM	45795	O5' URI	1238	238.173	136.613	32.676	1.00193.28	Al6s	ATOM	45848	C4 CYT	1240	244.825	142.260	25.939	1.00101.02	Al		
ATOM	45796	C5' URI	1238	238.624	136.371	31.332	1.00193.28	Al6s	ATOM	45849	N4 CYT	1240	245.577	142.565	26.997	1.00101.02	Al		
ATOM	45797	C4' URI	1238	240.117	136.570	31.213	1.00193.28	Al6s	ATOM	45850	C5 CYT	1240	244.520	140.899	25.648	1.00101.02	Al		
ATOM	45798	O4' URI	1238	240.520	137.788	31.894	1.00193.28	Al6s	ATOM	45851	C2' CYT	1240	243.477	140.991	21.353	1.00107.06	Al		
ATOM	45799	C1' URI	1238	241.830	137.634	32.423	1.00193.28	Al6s	ATOM	45852	O2' CYT	1240	242.969	141.557	20.157	1.00107.06	Al		
ATOM	45800	N1 URI	1238	241.801	137.848	33.879	1.00201.09	Al6s	ATOM	45853	C3' CYT	1240	243.402	139.467	21.401	1.00107.06	Al		
ATOM	45801	C6 URI	1238	240.726	137.452	34.649	1.00201.09	Al6s	ATOM	45854	O3' CYT	1240	243.660	138.867	20.140	1.00107.06	Al		
ATOM	45802	C2 URI	1238	242.905	138.458	34.462	1.00201.09	Al6s	ATOM	45855	P CYT	1241	245.094	138.212	19.852	1.00110.54	Al		
ATOM	45803	O2 URI	1238	243.883	138.823	33.822	1.00201.09	Al6s	ATOM	45856	O1P CYT	1241	245.023	137.529	18.539	1.00104.40	Al		
ATOM	45804	N3 URI	1238	242.824	138.622	35.822	1.00201.09	Al6s	ATOM	45857	O2P CYT	1241	245.503	137.445	21.061	1.00104.40	Al		
ATOM	45805	C4 URI	1238	241.782	138.248	36.645	1.00201.09	Al6s	ATOM	45858	O5' CYT	1241	246.027	139.486	19.676	1.00110.54	Al		
ATOM	45806	O4 URI	1238	241.858	138.469	37.854	1.00201.09	Al6s	ATOM	45859	C5' CYT	1241	247.404	139.473	20.085	1.00110.54	Al		
ATOM	45807	C5 URI	1238	240.682	137.626	35.973	1.00201.09	Al6s	ATOM	45860	C4' CYT	1241	247.742	140.769	20.782	1.00110.54	Al		
ATOM	45808	C2' URI	1238	242.328	136.240	32.051	1.00193.28	Al6s	ATOM	45861	O4' CYT	1241	246.958	140.879	21.998	1.00110.54	Al		
ATOM	45809	O2' URI	1238	243.174	136.395	30.932	1.00193.28	Al6s	ATOM	45862	C1' CYT	1241	247.726	141.506	23.011	1.00110.54	Al		
ATOM	45810	C3' URI	1238	241.009	135.499	31.814	1.00193.28	Al6s	ATOM	45863	N1 CYT	1241	247.854	140.573	24.153	1.00104.40	Al		

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ATOM	45864	C6	CYT	1241	247.592	139.237	24.001	1.00104.40	AL6S	ATOM	45917	P	CYT	1244	260.374	145.910	19.090	1.0099.83	A
ATOM	45865	C2	CYT	1241	248.242	141.077	25.407	1.00104.40	AL6S	ATOM	45918	O1P	CYT	1244	261.423	146.707	18.402	1.00106.40	A
ATOM	45866	O2	CYT	1241	248.477	142.288	25.525	1.00104.40	AL6S	ATOM	45919	O2P	CYT	1244	259.768	144.750	18.400	1.00106.40	A
ATOM	45867	N3	CYT	1241	248.346	140.229	26.457	1.00104.40	AL6S	ATOM	45920	O5	CYT	1244	260.942	145.393	20.487	1.0099.83	A
ATOM	45868	C4	CYT	1241	248.076	138.931	26.298	1.00104.40	AL6S	ATOM	45921	C5	CYT	1244	261.851	146.201	21.261	1.0099.83	A
ATOM	45869	N4	CYT	1241	248.180	138.133	27.367	1.00104.40	AL6S	ATOM	45922	C4	CYT	1244	262.383	145.417	22.438	1.0099.83	A
ATOM	45870	C5	CYT	1241	247.686	138.391	25.036	1.00104.40	AL6S	ATOM	45923	O4	CYT	1244	261.312	145.145	23.377	1.0099.83	A
ATOM	45871	C2	CYT	1241	249.059	141.918	22.389	1.00110.54	AL6S	ATOM	45924	C1	CYT	1244	261.540	143.895	24.005	1.0099.83	A
ATOM	45872	O2	CYT	1241	248.931	143.255	21.944	1.00110.54	AL6S	ATOM	45925	N1	CYT	1244	260.377	143.017	23.789	1.00106.40	A
ATOM	45873	C3	CYT	1241	249.182	140.924	21.238	1.00110.54	AL6S	ATOM	45926	C6	CYT	1244	259.527	143.206	22.733	1.00106.40	A
ATOM	45874	O3	CYT	1241	249.976	141.412	20.168	1.00110.54	AL6S	ATOM	45927	C2	CYT	1244	260.156	141.963	22.695	1.00106.40	A
ATOM	45875	P	ADE	1242	251.561	141.569	20.355	1.0084.79	AL6S	ATOM	45928	O2	CYT	1244	260.947	141.802	25.642	1.00106.40	A
ATOM	45876	O1P	ADE	1242	252.208	141.001	19.145	1.00105.61	AL6S	ATOM	45929	N3	CYT	1244	259.096	141.148	24.513	1.00106.40	A
ATOM	45877	O2P	ADE	1242	251.934	141.049	21.696	1.00105.61	AL6S	ATOM	45930	C4	CYT	1244	258.277	141.341	23.480	1.00106.40	A
ATOM	45878	O5	ADE	1242	251.770	143.150	20.308	1.0084.79	AL6S	ATOM	45931	N4	CYT	1244	257.245	140.508	23.346	1.00106.40	A
ATOM	45879	C5	ADE	1242	251.047	143.953	19.348	1.0084.79	AL6S	ATOM	45932	C5	CYT	1244	258.479	142.398	22.539	1.00106.40	A
ATOM	45880	C4	ADE	1242	251.262	145.429	19.608	1.0084.79	AL6S	ATOM	45933	C2	CYT	1244	262.828	143.301	23.435	1.0099.83	A
ATOM	45881	O4	ADE	1242	250.778	145.762	20.932	1.0084.79	AL6S	ATOM	45934	O2	CYT	1244	263.895	143.548	24.324	1.0099.83	A
ATOM	45882	C1	ADE	1242	251.628	146.726	21.529	1.0084.79	AL6S	ATOM	45935	C3	CYT	1244	262.961	144.049	22.117	1.0099.83	A
ATOM	45883	N9	ADE	1242	252.202	146.134	22.741	1.00105.61	AL6S	ATOM	45936	O3	CYT	1244	264.311	144.123	21.692	1.0099.83	A
ATOM	45884	C4	ADE	1242	253.063	146.735	23.629	1.00105.61	AL6S	ATOM	45937	P	CYT	1245	264.927	142.929	20.811	1.0079.37	A
ATOM	45885	N3	ADE	1242	253.561	147.983	23.569	1.00105.61	AL6S	ATOM	45938	O1P	CYT	1245	266.293	143.331	20.379	1.00107.57	A
ATOM	45886	C2	ADE	1242	254.362	148.217	24.608	1.00105.61	AL6S	ATOM	45939	O2P	CYT	1245	263.909	142.574	19.787	1.00107.57	A
ATOM	45887	N1	ADE	1242	254.695	147.407	25.624	1.00105.61	AL6S	ATOM	45940	O5	CYT	1245	265.058	141.713	21.837	1.0079.37	A
ATOM	45888	C6	ADE	1242	254.177	146.160	25.654	1.00105.61	AL6S	ATOM	45941	C5	CYT	1245	266.015	141.757	22.904	1.0079.37	A
ATOM	45889	N6	ADE	1242	254.504	145.351	26.666	1.00105.61	AL6S	ATOM	45942	C4	CYT	1245	264.432	140.688	24.390	1.0079.37	A
ATOM	45890	C5	ADE	1242	253.315	145.788	24.608	1.00105.61	AL6S	ATOM	45943	O4	CYT	1245	263.983	139.376	24.698	1.0079.37	A
ATOM	45891	N7	ADE	1242	252.633	144.611	24.340	1.00105.61	AL6S	ATOM	45944	C1	CYT	1245	262.718	139.105	23.980	1.00107.57	A
ATOM	45892	C8	ADE	1242	251.990	144.866	23.229	1.00105.61	AL6S	ATOM	45945	N1	CYT	1245	262.320	139.882	22.925	1.00107.57	A
ATOM	45893	C2	ADE	1242	252.674	147.130	20.489	1.0084.79	AL6S	ATOM	45946	C6	CYT	1245	261.928	138.009	24.389	1.00107.57	A
ATOM	45894	O2	ADE	1242	252.234	148.304	19.831	1.0084.79	AL6S	ATOM	45947	C2	CYT	1245	262.288	137.332	25.371	1.00107.57	A
ATOM	45895	C3	ADE	1242	252.706	145.898	19.588	1.0084.79	AL6S	ATOM	45948	O2	CYT	1245	260.795	137.719	23.705	1.00107.57	A
ATOM	45896	O3	ADE	1242	253.128	146.196	18.261	1.0084.79	AL6S	ATOM	45949	N3	CYT	1245	260.432	138.471	22.664	1.00107.57	A
ATOM	45897	P	CYT	1243	254.489	145.551	17.699	1.00114.52	AL6S	ATOM	45950	C4	CYT	1245	259.324	138.132	22.006	1.00107.57	A
ATOM	45898	O1P	CYT	1243	254.807	146.224	16.407	1.0087.31	AL6S	ATOM	45951	N4	CYT	1245	261.196	139.603	22.246	1.00107.57	A
ATOM	45899	O2P	CYT	1243	254.361	144.070	17.747	1.0087.31	AL6S	ATOM	45952	C5	CYT	1245	265.097	138.396	24.319	1.0079.37	A
ATOM	45900	O5	CYT	1243	255.583	145.960	18.783	1.00114.52	AL6S	ATOM	45953	C2	CYT	1245	265.810	138.005	25.477	1.0079.37	A
ATOM	45901	C5	CYT	1243	256.021	147.328	18.929	1.00114.52	AL6S	ATOM	45954	O2	CYT	1245	265.914	139.218	23.326	1.0079.37	A
ATOM	45902	C4	CYT	1243	256.912	147.460	20.143	1.00114.52	AL6S	ATOM	45955	C3	CYT	1245	267.270	138.799	23.279	1.0079.37	A
ATOM	45903	O4	CYT	1243	256.132	147.211	21.339	1.00114.52	AL6S	ATOM	45956	O3	CYT	1245	267.732	137.711	22.185	1.00100.77	A
ATOM	45904	C1	CYT	1243	256.929	146.532	22.294	1.00114.52	AL6S	ATOM	45957	P	GUA	1246	269.225	137.648	22.214	1.0090.02	A
ATOM	45905	N1	CYT	1243	256.274	145.258	22.647	1.0087.31	AL6S	ATOM	45958	O1P	GUA	1246	267.033	138.009	20.901	1.0090.02	A
ATOM	45906	C6	CYT	1243	255.321	144.704	21.836	1.0087.31	AL6S	ATOM	45959	O2P	GUA	1246	267.176	136.333	22.762	1.00100.77	A
ATOM	45907	C2	CYT	1243	256.648	144.614	23.842	1.0087.31	AL6S	ATOM	45960	O5	GUA	1246	267.865	135.661	23.826	1.00100.77	A
ATOM	45908	O2	CYT	1243	257.533	145.121	24.556	1.0087.31	AL6S	ATOM	45961	C5	GUA	1246	267.221	134.333	24.113	1.00100.77	A
ATOM	45909	N3	CYT	1243	256.044	143.455	24.182	1.0087.31	AL6S	ATOM	45962	C4	GUA	1246	265.903	134.552	24.677	1.00100.77	A
ATOM	45910	C4	CYT	1243	255.116	142.926	23.382	1.0087.31	AL6S	ATOM	45963	C1	GUA	1246	263.020	133.527	24.243	1.00100.77	A
ATOM	45911	N4	CYT	1243	254.551	141.779	23.759	1.0087.31	AL6S	ATOM	45964	N9	GUA	1246	263.955	134.138	23.445	1.0090.02	A
ATOM	45912	C5	CYT	1243	254.725	143.550	22.160	1.0087.31	AL6S	ATOM	45965	C4	GUA	1246	262.753	133.556	23.092	1.0090.02	A
ATOM	45913	C2	CYT	1243	258.332	146.349	21.709	1.00114.52	AL6S	ATOM	45966	N3	GUA	1246	262.342	132.312	23.423	1.0090.02	A
ATOM	45914	O2	CYT	1243	259.186	147.356	22.212	1.00114.52	AL6S	ATOM	45967	C2	GUA	1246	261.145	132.041	22.932	1.0090.02	A
ATOM	45915	C3	CYT	1243	258.067	146.468	20.212	1.00114.52	AL6S	ATOM	45968	N2	GUA	1246	260.592	130.842	23.155	1.0090.02	A
ATOM	45916	O3	CYT	1243	259.207	146.938	19.496	1.00114.52	AL6S	ATOM	45969	N2	GUA	1246					A

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ATOM	45970	N1	GUA	1246	260.405	132.923	22.184	1.00	90.02	Al6s	ATOM	46023	P	ADE	1249	262.590	132.295	14.996	1.00	84.37	Al
ATOM	45971	C6	GUA	1246	260.804	134.210	21.835	1.00	90.02	Al6s	ATOM	46024	O1P	ADE	1249	262.325	133.722	14.666	1.00	70.68	Al
ATOM	45972	O6	GUA	1246	260.054	134.930	21.164	1.00	90.02	Al6s	ATOM	46025	O2P	ADE	1249	263.230	131.946	16.291	1.00	70.68	Al
ATOM	45973	C5	GUA	1246	262.092	134.510	22.343	1.00	90.02	Al6s	ATOM	46026	O5*	ADE	1249	261.232	131.462	14.881	1.00	84.37	Al
ATOM	45974	N7	GUA	1246	262.860	135.661	22.220	1.00	90.02	Al6s	ATOM	46027	C5*	ADE	1249	260.405	131.532	13.693	1.00	84.37	Al
ATOM	45975	C8	GUA	1246	263.951	135.397	22.888	1.00	90.02	Al6s	ATOM	46028	C4*	ADE	1249	259.404	130.393	13.670	1.00	84.37	Al
ATOM	45976	C2*	GUA	1246	265.846	132.539	23.419	1.00	100.77	Al6s	ATOM	46029	O4*	ADE	1249	260.117	129.134	13.671	1.00	84.37	Al
ATOM	45977	O2*	GUA	1246	266.306	131.492	24.254	1.00	100.77	Al6s	ATOM	46030	C1*	ADE	1249	259.376	128.169	14.388	1.00	84.37	Al
ATOM	45978	C3*	GUA	1246	266.967	133.437	22.914	1.00	100.77	Al6s	ATOM	46031	N9	ADE	1249	260.245	127.618	15.421	1.00	70.68	Al
ATOM	45979	O3*	GUA	1246	268.110	132.717	22.483	1.00	100.77	Al6s	ATOM	46032	C4	ADE	1249	260.274	126.315	15.858	1.00	70.68	Al
ATOM	45980	P	GUA	1247	268.366	132.519	20.903	1.00	115.92	Al6s	ATOM	46033	N3	ADE	1249	259.495	125.300	15.451	1.00	70.68	Al
ATOM	45981	O1P	GUA	1247	269.643	131.776	20.751	1.00	84.35	Al6s	ATOM	46034	C2	ADE	1249	259.827	124.170	16.071	1.00	70.68	Al
ATOM	45982	O2P	GUA	1247	268.193	133.833	20.221	1.00	84.35	Al6s	ATOM	46035	N1	ADE	1249	260.779	123.953	16.986	1.00	70.68	Al
ATOM	45983	O5*	GUA	1247	267.187	131.554	20.432	1.00	115.92	Al6s	ATOM	46036	C6	ADE	1249	261.546	124.993	17.377	1.00	70.68	Al
ATOM	45984	C5*	GUA	1247	267.182	130.161	20.807	1.00	115.92	Al6s	ATOM	46037	N6	ADE	1249	262.501	124.774	18.287	1.00	70.68	Al
ATOM	45985	C4*	GUA	1247	265.949	129.462	20.272	1.00	115.92	Al6s	ATOM	46038	C5	ADE	1249	261.290	126.252	16.791	1.00	70.68	Al
ATOM	45986	O4*	GUA	1247	264.762	130.054	20.859	1.00	115.92	Al6s	ATOM	46039	N7	ADE	1249	261.879	127.500	16.956	1.00	70.68	Al
ATOM	45987	C1*	GUA	1247	263.686	129.961	19.943	1.00	115.92	Al6s	ATOM	46040	C8	ADE	1249	261.220	128.273	16.129	1.00	70.68	Al
ATOM	45988	N9	GUA	1247	263.235	131.303	19.591	1.00	84.35	Al6s	ATOM	46041	C2*	ADE	1249	258.084	128.819	14.888	1.00	84.37	Al
ATOM	45989	C4	GUA	1247	261.966	131.632	19.189	1.00	84.35	Al6s	ATOM	46042	O2*	ADE	1249	257.041	128.473	14.002	1.00	84.37	Al
ATOM	45990	N3	GUA	1247	260.920	130.782	19.111	1.00	84.35	Al6s	ATOM	46043	C3*	ADE	1249	258.431	130.306	14.839	1.00	84.37	Al
ATOM	45991	C2	GUA	1247	259.835	131.372	18.647	1.00	84.35	Al6s	ATOM	46044	O3*	ADE	1249	257.277	131.107	14.569	1.00	84.37	Al
ATOM	45992	N2	GUA	1247	258.706	130.657	18.503	1.00	84.35	Al6s	ATOM	46045	P	ADE	1250	256.408	131.714	15.784	1.00	84.37	Al
ATOM	45993	N1	GUA	1247	259.779	132.701	18.288	1.00	84.35	Al6s	ATOM	46046	O1P	ADE	1250	255.565	132.807	15.218	1.00	84.97	Al
ATOM	45994	C6	GUA	1247	260.844	133.597	18.362	1.00	84.35	Al6s	ATOM	46047	O2P	ADE	1250	257.320	132.016	16.911	1.00	84.97	Al
ATOM	45995	O6	GUA	1247	260.687	134.772	18.007	1.00	84.35	Al6s	ATOM	46048	O5*	ADE	1250	255.463	130.509	16.238	1.00	61.73	Al
ATOM	45996	C5	GUA	1247	262.019	132.971	18.863	1.00	84.35	Al6s	ATOM	46049	C5*	ADE	1250	254.306	130.124	15.455	1.00	61.73	Al
ATOM	45997	N7	GUA	1247	263.290	133.484	19.093	1.00	84.35	Al6s	ATOM	46050	C4*	ADE	1250	253.785	128.783	15.917	1.00	61.73	Al
ATOM	45998	C8	GUA	1247	263.975	132.463	19.534	1.00	84.35	Al6s	ATOM	46051	O4*	ADE	1250	254.859	127.819	15.826	1.00	61.73	Al
ATOM	45999	C2*	GUA	1247	264.197	129.249	18.692	1.00	115.92	Al6s	ATOM	46052	C1*	ADE	1250	254.794	126.919	16.912	1.00	61.73	Al
ATOM	46000	O2*	GUA	1247	263.892	127.872	18.778	1.00	115.92	Al6s	ATOM	46053	N9	ADE	1250	256.049	127.016	17.650	1.00	84.97	Al
ATOM	46001	C3*	GUA	1247	265.692	129.526	18.772	1.00	115.92	Al6s	ATOM	46054	C4	ADE	1250	256.757	125.967	18.177	1.00	84.97	Al
ATOM	46002	O3*	GUA	1247	266.426	128.555	18.040	1.00	115.92	Al6s	ATOM	46055	N3	ADE	1250	257.362	123.932	18.732	1.00	84.97	Al
ATOM	46003	P	CYT	1248	267.233	128.996	16.719	1.00	103.32	Al6s	ATOM	46056	C2	ADE	1250	258.462	124.327	19.384	1.00	84.97	Al
ATOM	46004	O1P	CYT	1248	267.943	127.769	16.264	1.00	66.26	Al6s	ATOM	46057	N1	ADE	1250	258.740	125.648	19.440	1.00	84.97	Al
ATOM	46005	O2P	CYT	1248	268.007	130.237	17.006	1.00	66.26	Al6s	ATOM	46058	C6	ADE	1250	259.838	126.047	20.093	1.00	84.97	Al
ATOM	46006	O5*	CYT	1248	266.117	129.394	15.647	1.00	103.32	Al6s	ATOM	46059	N6	ADE	1250	257.850	126.528	18.804	1.00	84.97	Al
ATOM	46008	C4*	CYT	1248	265.406	130.258	13.472	1.00	103.32	Al6s	ATOM	46061	N7	ADE	1250	257.839	127.910	18.667	1.00	84.97	Al
ATOM	46009	O4*	CYT	1248	265.557	128.957	12.859	1.00	103.32	Al6s	ATOM	46062	C8	ADE	1250	256.756	128.148	17.974	1.00	84.97	Al
ATOM	46010	C1*	CYT	1248	264.287	128.434	12.527	1.00	103.32	Al6s	ATOM	46063	C2*	ADE	1250	253.579	127.278	17.768	1.00	61.73	Al
ATOM	46011	N1	CYT	1248	264.123	127.170	13.266	1.00	66.26	Al6s	ATOM	46064	O2*	ADE	1250	252.521	126.374	17.515	1.00	61.73	Al
ATOM	46012	C6	CYT	1248	264.436	127.090	14.596	1.00	66.26	Al6s	ATOM	46065	C3*	ADE	1250	253.327	128.733	17.366	1.00	61.73	Al
ATOM	46013	C2	CYT	1248	263.674	126.034	12.578	1.00	66.26	Al6s	ATOM	46066	O3*	ADE	1251	251.949	129.081	17.466	1.00	61.73	Al
ATOM	46014	N3	CYT	1248	263.342	126.140	11.379	1.00	66.26	Al6s	ATOM	46067	P	CYT	1251	251.511	130.391	18.277	1.00	93.30	Al
ATOM	46015	O2	CYT	1248	263.609	124.850	13.234	1.00	66.26	Al6s	ATOM	46068	O1P	CYT	1251	250.038	130.304	18.449	1.00	71.36	Al
ATOM	46016	C4	CYT	1248	263.956	124.779	14.520	1.00	66.26	Al6s	ATOM	46069	O2P	CYT	1251	252.104	131.571	17.593	1.00	71.36	Al
ATOM	46017	N4	CYT	1248	263.912	123.587	15.111	1.00	66.26	Al6s	ATOM	46070	O5*	CYT	1251	252.195	130.207	17.905	1.00	93.30	Al
ATOM	46018	C5	CYT	1248	264.372	125.927	15.253	1.00	66.26	Al6s	ATOM	46071	C5*	CYT	1251	252.009	128.991	20.453	1.00	93.30	Al
ATOM	46019	C2*	CYT	1248	263.237	129.506	12.819	1.00	103.32	Al6s	ATOM	46072	C4*	CYT	1251	253.225	128.694	21.302	1.00	93.30	Al
ATOM	46020	O2*	CYT	1248	262.981	130.227	11.632	1.00	103.32	Al6s	ATOM	46073	O4*	CYT	1251	254.415	128.861	20.483	1.00	93.30	Al
ATOM	46021	C3*	CYT	1248	263.942	130.352	13.871	1.00	103.32	Al6s	ATOM	46074	C1*	CYT	1251	255.491	129.319	21.285	1.00	93.30	Al
ATOM	46022	O3*	CYT	1248	263.510	131.707	13.820	1.00	103.32	Al6s	ATOM	46075	N1	CYT	1251	255.879	130.671	20.840	1.00	71.36	Al

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ATOM	46076	C6	CYT	1251	254.990	131.490	20.197	1.00	71.36	Al65	ATOM	46129	C2' GUA	1253	258.986	135.753	30.954	1.00112.02	Al
ATOM	46077	C2	CYT	1251	257.180	131.120	21.114	1.00	71.36	Al65	ATOM	46130	O2' GUA	1253	260.110	135.888	31.797	1.00112.02	Al
ATOM	46078	O2	CYT	1251	257.977	130.348	21.680	1.00	71.36	Al65	ATOM	46131	C3' GUA	1253	257.930	134.804	31.509	1.00112.02	Al
ATOM	46079	N3	CYT	1251	257.536	132.382	20.755	1.00	71.36	Al65	ATOM	46132	O3' GUA	1253	257.776	134.942	32.917	1.00112.02	Al
ATOM	46080	C4	CYT	1251	256.656	133.175	20.137	1.00	71.36	Al65	ATOM	46133	P GUA	1254	256.721	136.011	33.502	1.00115.36	Al
ATOM	46081	N4	CYT	1251	257.051	134.409	19.800	1.00	71.36	Al65	ATOM	46134	O1P GUA	1254	256.932	135.999	34.970	1.0084.06	Al
ATOM	46082	C5	CYT	1251	255.331	132.738	19.835	1.00	71.36	Al65	ATOM	46135	O2P GUA	1254	255.367	135.738	32.961	1.0084.06	Al
ATOM	46083	C2' CYT	1251	254.989	129.367	22.724	1.00	93.30	Al65	ATOM	46136	O5' GUA	1254	257.203	137.410	32.903	1.00115.36	Al	
ATOM	46084	O2' CYT	1251	255.267	128.130	23.355	1.00	93.30	Al65	ATOM	46137	C5' GUA	1254	258.439	137.999	33.329	1.00115.36	Al	
ATOM	46085	C3' CYT	1251	253.498	129.583	22.511	1.00	93.30	Al65	ATOM	46138	C4' GUA	1254	258.739	139.258	32.548	1.00115.36	Al	
ATOM	46086	O3' CYT	1251	252.754	129.228	23.671	1.00	93.30	Al65	ATOM	46139	C4' GUA	1254	258.865	138.950	31.135	1.00115.36	Al	
ATOM	46087	P GUA	1252	252.458	130.344	24.797	1.00	97.90	Al65	ATOM	46140	C1' GUA	1254	258.542	140.104	30.374	1.00115.36	Al	
ATOM	46088	O1P GUA	1252	251.424	129.764	25.687	1.00	75.30	Al65	ATOM	46141	N9 GUA	1254	257.471	139.796	29.431	1.0084.06	Al	
ATOM	46089	O2P GUA	1252	252.219	131.661	24.147	1.00	75.30	Al65	ATOM	46142	C4 GUA	1254	257.114	140.579	28.360	1.0084.06	Al	
ATOM	46090	O5' GUA	1252	253.823	130.457	25.615	1.00	97.90	Al65	ATOM	46143	N3 GUA	1254	257.709	141.736	27.994	1.0084.06	Al	
ATOM	46091	C5' GUA	1252	254.373	129.312	26.300	1.00	97.90	Al65	ATOM	46144	C2 GUA	1254	257.129	142.279	26.939	1.0084.06	Al	
ATOM	46092	C4' GUA	1252	255.780	129.598	26.783	1.00	97.90	Al65	ATOM	46145	N2 GUA	1254	257.588	143.432	26.452	1.0084.06	Al	
ATOM	46093	O4' GUA	1252	256.648	129.871	25.650	1.00	97.90	Al65	ATOM	46146	N1 GUA	1254	256.055	141.729	26.286	1.0084.06	Al	
ATOM	46094	C1' GUA	1252	257.624	130.835	26.010	1.00	97.90	Al65	ATOM	46147	O6 GUA	1254	255.429	140.536	26.638	1.0084.06	Al	
ATOM	46095	N9 GUA	1252	257.384	132.046	25.233	1.00	75.30	Al65	ATOM	46148	O6 GUA	1254	254.429	140.124	25.971	1.0084.06	Al	
ATOM	46096	C4 GUA	1252	258.226	133.126	25.119	1.00	75.30	Al65	ATOM	46149	C5 GUA	1254	256.037	139.944	27.783	1.0084.06	Al	
ATOM	46097	N3 GUA	1252	259.439	133.253	25.699	1.00	75.30	Al65	ATOM	46150	N7 GUA	1254	255.730	138.775	28.469	1.0084.06	Al	
ATOM	46098	C2 GUA	1252	260.002	134.421	25.419	1.00	75.30	Al65	ATOM	46151	C8 GUA	1254	256.609	138.724	29.434	1.0084.06	Al	
ATOM	46099	N2 GUA	1252	261.212	134.725	25.929	1.00	75.30	Al65	ATOM	46152	C2' GUA	1254	258.089	141.199	31.340	1.00115.36	Al	
ATOM	46100	N1 GUA	1252	259.419	135.380	24.625	1.00	75.30	Al65	ATOM	46153	O2' GUA	1254	259.132	142.138	31.518	1.00115.36	Al	
ATOM	46101	C6 GUA	1252	258.170	135.270	24.023	1.00	75.30	Al65	ATOM	46154	C3' GUA	1254	257.721	140.389	32.583	1.00115.36	Al	
ATOM	46102	O6 GUA	1252	257.730	136.202	23.339	1.00	75.30	Al65	ATOM	46155	O3' GUA	1254	257.795	141.181	33.766	1.00115.36	Al	
ATOM	46103	C5 GUA	1252	257.557	134.028	24.319	1.00	75.30	Al65	ATOM	46156	P GUA	1255	256.447	141.806	34.393	1.00101.78	Al	
ATOM	46104	N7 GUA	1252	256.326	133.523	23.931	1.00	75.30	Al65	ATOM	46157	O1P GUA	1255	256.833	142.480	35.659	1.00107.67	Al	
ATOM	46105	C8 GUA	1252	256.268	132.346	24.491	1.00	75.30	Al65	ATOM	46158	O2P GUA	1255	255.398	140.748	34.414	1.00107.67	Al	
ATOM	46106	C2' GUA	1252	257.439	131.131	27.493	1.00	97.90	Al65	ATOM	46159	O5' GUA	1255	256.007	142.934	33.358	1.00101.78	Al	
ATOM	46107	O2' GUA	1252	258.292	130.279	28.234	1.00	97.90	Al65	ATOM	46160	C5' GUA	1255	256.836	144.084	33.120	1.00101.78	Al	
ATOM	46108	C3' GUA	1252	255.962	130.812	27.676	1.00	97.90	Al65	ATOM	46161	C4' GUA	1255	256.421	144.765	31.839	1.00101.78	Al	
ATOM	46109	O3' GUA	1252	255.629	130.554	29.028	1.00	97.90	Al65	ATOM	46162	O4' GUA	1255	256.569	143.819	30.744	1.00101.78	Al	
ATOM	46110	P GUA	1253	255.093	131.759	29.948	1.00	112.02	Al65	ATOM	46163	C1' GUA	1255	255.494	143.970	29.825	1.00101.78	Al	
ATOM	46111	O1P GUA	1253	254.717	131.132	31.245	1.00	70.99	Al65	ATOM	46164	N9 GUA	1255	254.694	142.742	29.849	1.00107.67	Al	
ATOM	46112	O2P GUA	1253	254.084	132.560	29.193	1.00	70.99	Al65	ATOM	46165	C4 GUA	1255	253.668	142.406	28.987	1.00107.67	Al	
ATOM	46113	O5' GUA	1253	256.372	132.697	30.135	1.00	112.02	Al65	ATOM	46166	N3 GUA	1255	253.233	143.142	27.940	1.00107.67	Al	
ATOM	46114	C5' GUA	1253	257.462	132.314	30.998	1.00	112.02	Al65	ATOM	46167	C2 GUA	1255	252.221	142.562	27.316	1.00107.67	Al	
ATOM	46115	O5' GUA	1253	258.470	133.438	31.108	1.00	112.02	Al65	ATOM	46168	N2 GUA	1255	251.669	143.154	26.257	1.00107.67	Al	
ATOM	46116	C4' GUA	1253	259.090	133.665	29.815	1.00	112.02	Al65	ATOM	46169	N1 GUA	1255	251.676	141.357	27.688	1.00107.67	Al	
ATOM	46117	C1' GUA	1253	259.397	135.041	29.666	1.00	112.02	Al65	ATOM	46170	C6 GUA	1255	252.102	140.581	28.762	1.00107.67	Al	
ATOM	46118	N9 GUA	1253	258.639	135.561	28.537	1.00	70.99	Al65	ATOM	46171	O5 GUA	1255	251.532	139.511	29.018	1.00107.67	Al	
ATOM	46119	C4 GUA	1253	258.907	136.714	28.831	1.00	70.99	Al65	ATOM	46172	C5 GUA	1255	253.194	141.188	29.440	1.00107.67	Al	
ATOM	46120	N3 GUA	1253	259.947	137.554	28.039	1.00	70.99	Al65	ATOM	46173	N7 GUA	1255	253.915	140.757	30.546	1.00107.67	Al	
ATOM	46121	C2 GUA	1253	259.914	138.593	27.212	1.00	70.99	Al65	ATOM	46174	C8 GUA	1255	254.792	141.704	30.751	1.00107.67	Al	
ATOM	46122	N2 GUA	1253	260.864	139.532	27.273	1.00	70.99	Al65	ATOM	46175	C2' GUA	1255	254.676	145.183	30.277	1.00101.78	Al	
ATOM	46123	N1 GUA	1253	258.945	138.790	26.261	1.00	70.99	Al65	ATOM	46176	O2' GUA	1255	255.125	146.357	29.620	1.00101.78	Al	
ATOM	46124	C6 GUA	1253	257.872	137.939	26.026	1.00	70.99	Al65	ATOM	46177	C3' GUA	1255	254.961	145.198	31.774	1.00101.78	Al	
ATOM	46125	O6 GUA	1253	257.060	138.208	25.137	1.00	70.99	Al65	ATOM	46178	O3' GUA	1255	254.721	146.471	32.374	1.00101.78	Al	
ATOM	46126	C5 GUA	1253	257.887	136.821	26.906	1.00	70.99	Al65	ATOM	46179	P ADE	1256	253.205	146.948	32.663	1.00100.85	Al	
ATOM	46127	N7 GUA	1253	257.010	135.750	27.015	1.00	70.99	Al65	ATOM	46180	O1P ADE	1256	253.207	147.729	33.929	1.00106.58	Al	
ATOM	46128	C8 GUA	1253	257.499	135.027	27.988	1.00	70.99	Al65	ATOM	46181	O2P ADE	1256	252.289	145.779	32.526	1.00106.58	Al	

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ATOM	46182	O5' ADE	1256	252.908	147.955	31.467	1.00100.85	Al6S	ATOM	46235	O2	CYT	1258	241.755	146.860	25.977	1.00	81.79	Al6S
ATOM	46183	C5' ADE	1256	253.776	149.074	31.236	1.00100.85	Al6S	ATOM	46236	N3	CYT	1258	242.991	146.815	27.818	1.00	81.79	Al6S
ATOM	46184	C4' ADE	1256	253.375	149.805	29.984	1.00100.85	Al6S	ATOM	46237	C4	CYT	1258	243.829	146.864	28.750	1.00	81.79	Al6S
ATOM	46185	O4' ADE	1256	253.664	148.987	28.820	1.00100.85	Al6S	ATOM	46238	N4	CYT	1258	244.255	145.996	29.676	1.00	81.79	Al6S
ATOM	46186	C1' ADE	1256	252.684	149.221	27.817	1.00100.85	Al6S	ATOM	46239	C5	CYT	1258	244.275	148.222	28.773	1.00	81.79	Al6S
ATOM	46187	N9 ADE	1256	251.952	147.972	27.562	1.00106.58	Al6S	ATOM	46240	C2' CYT	1258	241.145	150.113	25.923	1.00166.28	Al6S		
ATOM	46188	C4 ADE	1256	251.124	147.728	26.488	1.00106.58	Al6S	ATOM	46241	O2' CYT	1258	240.476	150.076	24.679	1.00166.28	Al6S		
ATOM	46189	N3 ADE	1256	250.854	148.551	25.458	1.00106.58	Al6S	ATOM	46242	C3' CYT	1258	241.499	151.535	26.349	1.00166.28	Al6S		
ATOM	46190	C2 ADE	1256	249.987	147.987	24.617	1.00106.58	Al6S	ATOM	46243	O3' CYT	1258	240.505	152.482	25.953	1.00166.28	Al6S		
ATOM	46191	N1 ADE	1256	249.399	146.788	24.688	1.00106.58	Al6S	ATOM	46244	P	URY	1259	239.669	153.291	27.068	1.00147.04	Al6S	
ATOM	46192	C6 ADE	1256	249.687	145.989	25.740	1.00106.58	Al6S	ATOM	46245	O1P URI	1259	238.930	154.366	26.353	1.00156.43	Al6S		
ATOM	46193	N6 ADE	1256	249.086	144.803	25.827	1.00106.58	Al6S	ATOM	46246	O2P URI	1259	240.577	153.646	28.186	1.00156.43	Al6S		
ATOM	46194	C5 ADE	1256	250.602	146.464	26.695	1.00106.58	Al6S	ATOM	46247	O5' URI	1259	238.609	152.238	27.620	1.00147.04	Al6S		
ATOM	46195	N7 ADE	1256	251.110	145.905	27.859	1.00106.58	Al6S	ATOM	46248	C5' URI	1259	237.838	151.428	26.716	1.00147.04	Al6S		
ATOM	46196	C8 ADE	1256	251.908	146.831	28.332	1.00106.58	Al6S	ATOM	46249	C4' URI	1259	237.577	150.067	27.318	1.00147.04	Al6S		
ATOM	46197	C2' ADE	1256	251.741	150.302	28.347	1.00100.85	Al6S	ATOM	46250	O4' URI	1259	238.858	149.521	27.702	1.00147.04	Al6S		
ATOM	46198	O2' ADE	1256	252.158	151.575	27.893	1.00100.85	Al6S	ATOM	46251	C1' URI	1259	238.810	149.052	29.025	1.00147.04	Al6S		
ATOM	46199	C3' ADE	1256	251.898	150.127	29.851	1.00100.85	Al6S	ATOM	46252	N1 URI	1259	239.818	149.821	29.776	1.00156.43	Al6S		
ATOM	46200	O3' ADE	1256	251.499	151.269	30.587	1.00100.85	Al6S	ATOM	46253	C6 URI	1259	239.638	151.159	30.058	1.00156.43	Al6S		
ATOM	46201	P	1257	250.018	151.322	31.211	1.00119.21	Al6S	ATOM	46254	C2 URI	1259	240.989	149.165	30.158	1.00156.43	Al6S		
ATOM	46202	O1P GUA	1257	249.903	152.551	32.036	1.00	95.15	Al6S	ATOM	46255	O2 URI	1259	241.185	147.972	29.974	1.00156.43	Al6S	
ATOM	46203	O2P GUA	1257	249.743	149.995	31.829	1.00	95.15	Al6S	ATOM	46256	N3 URI	1259	241.924	149.963	30.768	1.00156.43	Al6S	
ATOM	46204	O5' GUA	1257	249.082	151.511	29.933	1.00119.21	Al6S	ATOM	46257	C4 URI	1259	241.816	151.312	31.046	1.00156.43	Al6S		
ATOM	46205	C5' GUA	1257	249.269	152.638	29.044	1.00119.21	Al6S	ATOM	46258	O4 URI	1259	242.775	151.906	31.544	1.00156.43	Al6S		
ATOM	46206	C4' GUA	1257	248.535	152.422	27.735	1.00119.21	Al6S	ATOM	46259	C5 URI	1259	240.571	151.904	30.659	1.00156.43	Al6S		
ATOM	46207	O4' GUA	1257	249.054	151.236	27.077	1.00119.21	Al6S	ATOM	46260	C2' URI	1259	237.343	149.071	29.489	1.00147.04	Al6S		
ATOM	46208	C1' GUA	1257	248.004	150.559	26.406	1.00119.21	Al6S	ATOM	46261	O2' URI	1259	236.765	147.791	29.311	1.00147.04	Al6S		
ATOM	46209	N9 GUA	1257	247.807	149.264	27.053	1.00	95.15	Al6S	ATOM	46262	C3' URI	1259	236.711	150.115	28.568	1.00147.04	Al6S	
ATOM	46210	C4 GUA	1257	247.116	148.188	26.540	1.00	95.15	Al6S	ATOM	46263	O3' URI	1259	235.385	149.683	28.220	1.00147.04	Al6S	
ATOM	46211	N3 GUA	1257	246.487	148.143	25.345	1.00	95.15	Al6S	ATOM	46264	P	ADE	1260	234.379	150.668	27.428	1.00134.33	Al6S
ATOM	46212	C2 GUA	1257	245.918	146.972	25.132	1.00	95.15	Al6S	ATOM	46265	O1P ADE	1260	233.055	149.992	27.439	1.00103.82	Al6S	
ATOM	46213	N2 GUA	1257	245.244	146.758	23.997	1.00	95.15	Al6S	ATOM	46266	O2P ADE	1260	234.509	152.048	27.970	1.00103.82	Al6S	
ATOM	46214	N1 GUA	1257	245.966	145.923	26.016	1.00	95.15	Al6S	ATOM	46267	O5' ADE	1260	234.883	150.669	25.915	1.00134.33	Al6S	
ATOM	46215	C6 GUA	1257	246.608	145.944	27.250	1.00	95.15	Al6S	ATOM	46268	C5' ADE	1260	235.195	151.904	25.232	1.00134.33	Al6S	
ATOM	46216	O6 GUA	1257	246.597	144.939	27.970	1.00	95.15	Al6S	ATOM	46269	C4' ADE	1260	236.046	151.625	24.015	1.00134.33	Al6S	
ATOM	46217	C5 GUA	1257	247.216	147.201	27.498	1.00	95.15	Al6S	ATOM	46270	O4' ADE	1260	237.129	150.739	24.390	1.00134.33	Al6S	
ATOM	46218	N7 GUA	1257	247.940	147.649	28.594	1.00	95.15	Al6S	ATOM	46271	C1' ADE	1260	237.403	149.826	23.350	1.00134.33	Al6S	
ATOM	46219	C8 GUA	1257	248.268	148.874	28.288	1.00	95.15	Al6S	ATOM	46272	N9 ADE	1260	237.455	148.475	23.914	1.00103.82	Al6S	
ATOM	46220	C2' GUA	1257	246.755	151.425	26.531	1.00119.21	Al6S	ATOM	46273	C4 ADE	1260	236.442	147.552	24.015	1.00103.82	Al6S		
ATOM	46221	O2' GUA	1257	246.674	152.297	25.420	1.00119.21	Al6S	ATOM	46274	N3 ADE	1260	235.172	147.680	23.591	1.00103.82	Al6S		
ATOM	46222	C3' GUA	1257	247.038	152.170	27.825	1.00119.21	Al6S	ATOM	46275	C2 ADE	1260	234.466	146.581	23.877	1.00103.82	Al6S		
ATOM	46223	O3' GUA	1257	246.269	153.355	27.920	1.00119.21	Al6S	ATOM	46276	N1 ADE	1260	234.860	145.454	24.491	1.00103.82	Al6S		
ATOM	46224	P	1258	244.822	153.293	28.611	1.00166.28	Al6S	ATOM	46277	C6 ADE	1260	236.148	145.358	24.900	1.00103.82	Al6S		
ATOM	46225	O1P CYT	1258	244.239	154.656	28.588	1.00	81.79	Al6S	ATOM	46278	N6 ADE	1260	236.548	144.239	25.507	1.00103.82	Al6S	
ATOM	46226	O2P CYT	1258	244.946	152.558	29.903	1.00	81.79	Al6S	ATOM	46279	C5 ADE	1260	236.995	146.456	24.657	1.00103.82	Al6S	
ATOM	46227	O5' CYT	1258	243.969	152.383	27.625	1.00166.28	Al6S	ATOM	46280	N7 ADE	1260	238.333	146.677	24.941	1.00103.82	Al6S		
ATOM	46228	C5' CYT	1258	243.710	152.793	26.271	1.00166.28	Al6S	ATOM	46281	C8 ADE	1260	238.556	147.880	24.477	1.00103.82	Al6S		
ATOM	46229	C4' CYT	1258	242.800	151.796	25.605	1.00166.28	Al6S	ATOM	46282	C2' ADE	1260	236.434	150.086	22.196	1.00134.33	Al6S		
ATOM	46230	O4' CYT	1258	243.470	150.511	25.554	1.00166.28	Al6S	ATOM	46283	O2' ADE	1260	237.162	150.708	21.173	1.00134.33	Al6S		
ATOM	46231	C1' CYT	1258	242.525	149.476	25.745	1.00166.28	Al6S	ATOM	46284	C3' ADE	1260	235.340	150.928	22.863	1.00134.33	Al6S		
ATOM	46232	N1 CYT	1258	242.985	148.588	26.835	1.00	81.79	Al6S	ATOM	46285	O3' ADE	1260	234.646	151.876	22.009	1.00134.33	Al6S	
ATOM	46233	C6 CYT	1258	243.832	149.041	27.806	1.00	81.79	Al6S	ATOM	46286	P	ADE	1261	235.340	153.289	21.594	1.00118.60	Al6S
ATOM	46234	C2 CYT	1258	242.546	147.249	26.850	1.00	81.79	Al6S	ATOM	46287	O1P ADE	1261	236.671	153.368	22.248	1.00	83.70	Al6S

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ATOM	46288	O2P	ADE	1261	234.346	154.369	21.838	1.00	83.70	Al6S	ATOM	46341	C4	CYT	1263	241.133	149.725	20.395	1.00143.96	Al
ATOM	46289	O5	ADE	1261	235.568	153.224	20.011	1.00118.60	Al6S	ATOM	46342	N4	CYT	1263	239.997	149.482	19.735	1.00143.96	Al	
ATOM	46290	C5	ADE	1261	236.307	152.133	19.400	1.00118.60	Al6S	ATOM	46343	C5	CYT	1263	242.028	150.730	19.926	1.00143.96	Al	
ATOM	46291	C4	ADE	1261	237.395	152.657	18.488	1.00118.60	Al6S	ATOM	46344	C2	CYT	1263	245.839	149.658	21.794	1.0091.94	Al	
ATOM	46292	O4	ADE	1261	236.770	153.301	17.362	1.00118.60	Al6S	ATOM	46345	O2	CYT	1263	246.755	149.175	22.760	1.0091.94	Al	
ATOM	46293	C1	ADE	1261	237.499	154.448	17.002	1.00118.60	Al6S	ATOM	46346	C3	CYT	1263	247.414	150.759	20.909	1.0091.94	Al	
ATOM	46294	N9	ADE	1261	236.557	155.562	17.029	1.0083.70	Al6S	ATOM	46347	O3	CYT	1263	247.732	150.478	20.452	1.0091.94	Al	
ATOM	46295	C4	ADE	1261	236.146	156.297	15.939	1.0083.70	Al6S	ATOM	46348	P	GU	1264	247.933	149.819	18.993	1.00111.47	Al	
ATOM	46296	N3	ADE	1261	236.542	156.162	14.661	1.0083.70	Al6S	ATOM	46349	O1P	GU	1264	249.390	149.733	18.712	1.0069.11	Al	
ATOM	46297	C2	ADE	1261	235.910	157.038	13.869	1.0083.70	Al6S	ATOM	46350	O2P	GU	1264	247.048	150.549	18.042	1.0069.11	Al	
ATOM	46298	N1	ADE	1261	235.005	157.967	14.186	1.0083.70	Al6S	ATOM	46351	O5	GU	1264	247.386	148.335	19.184	1.00111.47	Al	
ATOM	46299	C6	ADE	1261	234.634	158.083	15.477	1.0083.70	Al6S	ATOM	46352	C5	GU	1264	248.010	147.452	20.131	1.00111.47	Al	
ATOM	46300	N6	ADE	1261	233.749	159.022	15.794	1.0083.70	Al6S	ATOM	46353	C4	GU	1264	247.250	146.153	20.240	1.00111.47	Al	
ATOM	46301	C5	ADE	1261	235.220	157.198	16.419	1.0083.70	Al6S	ATOM	46354	O4	GU	1264	245.979	146.362	20.914	1.00111.47	Al	
ATOM	46302	N7	ADE	1261	235.049	157.035	17.789	1.0083.70	Al6S	ATOM	46355	C1	GU	1264	245.012	145.449	20.408	1.00111.47	Al	
ATOM	46303	C8	ADE	1261	235.869	156.062	18.101	1.0083.70	Al6S	ATOM	46356	N9	GU	1264	243.974	146.197	19.699	1.0069.11	Al	
ATOM	46304	C2	ADE	1261	238.741	154.533	17.894	1.00118.60	Al6S	ATOM	46357	C4	GU	1264	242.709	145.749	19.391	1.0069.11	Al	
ATOM	46305	O2	ADE	1261	239.825	153.952	17.205	1.00118.60	Al6S	ATOM	46358	N3	GU	1264	242.184	144.550	19.735	1.0069.11	Al	
ATOM	46306	C3	ADE	1261	239.481	153.683	19.094	1.00118.60	Al6S	ATOM	46359	C2	GU	1264	240.951	144.403	19.274	1.0069.11	Al	
ATOM	46307	O3	ADE	1261	239.698	152.936	21.229	1.00201.09	Al6S	ATOM	46360	N2	GU	1264	240.279	143.276	19.531	1.0069.11	Al	
ATOM	46308	P	URI	1262	239.481	153.015	19.631	1.00201.09	Al6S	ATOM	46361	N1	GU	1264	240.287	145.353	18.529	1.0069.11	Al	
ATOM	46309	O1P	URI	1262	239.172	151.630	21.684	1.00143.10	Al6S	ATOM	46362	C6	GU	1264	240.810	146.591	18.160	1.0069.11	Al	
ATOM	46310	O2P	URI	1262	239.207	154.190	21.866	1.00143.10	Al6S	ATOM	46363	O6	GU	1264	240.134	147.375	17.479	1.0069.11	Al	
ATOM	46311	O5	URI	1262	241.279	152.857	21.415	1.00201.09	Al6S	ATOM	46364	C5	GU	1264	242.128	146.766	18.655	1.0069.11	Al	
ATOM	46312	C5	URI	1262	242.045	153.982	21.873	1.00201.09	Al6S	ATOM	46365	N7	GU	1264	242.998	147.840	18.525	1.0069.11	Al	
ATOM	46313	C4	URI	1262	242.258	154.946	20.738	1.00201.09	Al6S	ATOM	46366	C8	GU	1264	244.073	147.463	19.165	1.0069.11	Al	
ATOM	46314	O4	URI	1262	240.986	155.540	20.381	1.00201.09	Al6S	ATOM	46367	C2	GU	1264	245.733	144.549	19.409	1.00111.47	Al	
ATOM	46315	C1	URI	1262	241.157	156.913	20.081	1.00201.09	Al6S	ATOM	46368	O2	GU	1264	246.717	143.397	20.074	1.00111.47	Al	
ATOM	46316	N1	URI	1262	240.269	157.685	20.970	1.00143.10	Al6S	ATOM	46369	C3	GU	1264	246.857	145.465	18.944	1.00111.47	Al	
ATOM	46317	C6	URI	1262	239.941	157.229	22.234	1.00143.10	Al6S	ATOM	46370	O3	GU	1264	247.911	144.760	18.312	1.00111.47	Al	
ATOM	46318	C2	URI	1262	239.735	158.870	20.485	1.00143.10	Al6S	ATOM	46371	P	CYT	1265	247.800	144.428	16.742	1.0086.21	Al	
ATOM	46319	O2	URI	1262	240.045	159.349	19.403	1.00143.10	Al6S	ATOM	46372	O1P	CYT	1265	249.086	143.820	16.330	1.0066.73	Al	
ATOM	46320	N3	URI	1262	238.827	159.477	21.320	1.00143.10	Al6S	ATOM	46373	O2P	CYT	1265	247.285	145.628	16.022	1.0066.73	Al	
ATOM	46321	C4	URI	1262	238.419	159.043	22.566	1.00143.10	Al6S	ATOM	46374	O5	CYT	1265	246.717	143.265	16.696	1.0086.21	Al	
ATOM	46322	O4	URI	1262	237.480	159.613	23.122	1.00143.10	Al6S	ATOM	46375	C5	CYT	1265	246.874	142.091	17.528	1.0086.21	Al	
ATOM	46323	C5	URI	1262	239.060	157.850	23.023	1.00143.10	Al6S	ATOM	46376	C4	CYT	1265	245.703	141.153	17.347	1.0086.21	Al	
ATOM	46324	C2	URI	1262	242.655	157.233	20.140	1.00201.09	Al6S	ATOM	46377	O4	CYT	1265	244.488	141.767	17.846	1.0086.21	Al	
ATOM	46325	O2	URI	1262	243.186	157.228	18.830	1.00201.09	Al6S	ATOM	46378	C1	CYT	1265	243.402	141.417	17.014	1.0086.21	Al	
ATOM	46326	C3	URI	1262	243.179	156.113	21.037	1.00201.09	Al6S	ATOM	46379	N1	CYT	1265	242.870	142.650	16.408	1.0066.73	Al	
ATOM	46327	O3	URI	1262	245.016	154.894	19.548	1.0091.94	Al6S	ATOM	46380	C6	CYT	1265	243.688	143.715	16.148	1.0066.73	Al	
ATOM	46328	P	CYT	1263	245.016	154.894	19.548	1.0091.94	Al6S	ATOM	46381	C2	CYT	1265	241.508	142.715	16.089	1.0066.73	Al	
ATOM	46329	O1P	CYT	1263	246.297	155.484	19.084	1.00143.96	Al6S	ATOM	46382	O2	CYT	1265	241.016	143.842	15.518	1.0066.73	Al	
ATOM	46330	O2P	CYT	1263	243.901	154.733	18.158	1.00143.96	Al6S	ATOM	46383	N3	CYT	1265	241.826	144.871	15.262	1.0066.73	Al	
ATOM	46331	O5	CYT	1263	245.348	153.460	20.157	1.0091.94	Al6S	ATOM	46384	C4	CYT	1265	241.826	144.871	15.262	1.0066.73	Al	
ATOM	46332	C5	CYT	1263	246.353	153.333	21.170	1.0091.94	Al6S	ATOM	46385	N4	CYT	1265	241.298	145.958	14.692	1.0066.73	Al	
ATOM	46333	C4	CYT	1263	246.305	151.973	21.815	1.0091.94	Al6S	ATOM	46386	C5	CYT	1265	243.214	144.832	15.579	1.0066.73	Al	
ATOM	46334	O4	CYT	1263	245.032	151.781	22.490	1.0091.94	Al6S	ATOM	46387	C2	CYT	1265	243.918	140.430	15.964	1.0086.21	Al	
ATOM	46335	C1	CYT	1263	244.698	150.398	22.492	1.0091.94	Al6S	ATOM	46388	O2	CYT	1265	243.699	139.114	16.429	1.0086.21	Al	
ATOM	46336	N1	CYT	1263	243.436	150.198	21.746	1.00143.96	Al6S	ATOM	46389	C3	CYT	1265	245.395	140.787	15.906	1.0086.21	Al	
ATOM	46337	C6	CYT	1263	243.152	150.938	20.630	1.00143.96	Al6S	ATOM	46390	O3	CYT	1265	246.213	139.706	15.486	1.0086.21	Al	
ATOM	46338	C2	CYT	1263	242.535	149.211	22.184	1.00143.96	Al6S	ATOM	46391	P	ADE	1266	246.920	139.756	14.045	1.0097.97	Al	
ATOM	46339	O2	CYT	1263	242.813	148.545	23.192	1.00143.96	Al6S	ATOM	46392	O1P	ADE	1266	245.832	139.829	13.046	1.0067.78	Al	
ATOM	46340	N3	CYT	1263	241.391	149.004	21.489	1.00143.96	Al6S	ATOM	46393	O2P	ADE	1266	247.923	138.655	13.978	1.0067.78	Al	

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ATOM	46394	05' ADE	1266	247.679	141.154	13.996	1.00	97.97	Al6S	ATOM	46447	N1 ADE	1268	240.547	142.686	0.663	1.00	75.39	A
ATOM	46395	C5' ADE	1266	248.424	141.541	12.829	1.00	97.97	Al6S	ATOM	46448	C6 ADE	1268	241.110	143.910	0.707	1.00	75.39	A
ATOM	46396	C4' ADE	1266	247.768	142.724	12.167	1.00	97.97	Al6S	ATOM	46449	N6 ADE	1268	240.577	144.884	-0.041	1.00	75.39	A
ATOM	46397	04' ADE	1266	246.433	142.348	11.778	1.00	97.97	Al6S	ATOM	46450	C5 ADE	1268	242.236	144.082	1.540	1.00	75.39	A
ATOM	46398	C1' ADE	1266	245.603	143.488	11.781	1.00	97.97	Al6S	ATOM	46451	N7 ADE	1268	243.039	145.182	1.815	1.00	75.39	A
ATOM	46399	N9 ADE	1266	244.266	143.102	12.236	1.00	67.78	Al6S	ATOM	46452	C8 ADE	1268	243.926	144.722	2.664	1.00	75.39	A
ATOM	46400	C4 ADE	1266	242.960	143.716	11.860	1.00	67.78	Al6S	ATOM	46453	C2' ADE	1268	245.709	141.817	3.245	1.00	10.93	A
ATOM	46401	N3 ADE	1266	241.680	145.094	10.903	1.00	67.78	Al6S	ATOM	46454	C2' ADE	1268	245.580	140.452	3.891	1.00	10.93	A
ATOM	46402	C2 ADE	1266	240.598	144.491	11.404	1.00	67.78	Al6S	ATOM	46455	C3' ADE	1268	246.932	142.478	3.891	1.00	10.93	A
ATOM	46403	N1 ADE	1266	240.766	143.408	12.196	1.00	67.78	Al6S	ATOM	46456	03' ADE	1268	247.971	141.511	4.017	1.00	10.93	A
ATOM	46404	C6 ADE	1266	239.681	142.790	12.457	1.00	67.78	Al6S	ATOM	46457	P ADE	1269	248.877	141.129	2.738	1.00	78.84	A
ATOM	46405	N6 ADE	1266	242.080	142.991	12.457	1.00	67.78	Al6S	ATOM	46458	01P ADE	1269	249.994	140.281	3.258	1.00	58.16	A
ATOM	46406	C5 ADE	1266	242.598	141.952	13.219	1.00	67.78	Al6S	ATOM	46459	02P ADE	1269	249.173	142.355	1.939	1.00	58.16	A
ATOM	46407	N7 ADE	1266	243.896	142.066	13.064	1.00	67.78	Al6S	ATOM	46460	05' ADE	1269	247.923	140.243	1.823	1.00	78.84	A
ATOM	46408	C8 ADE	1266	246.309	144.632	12.515	1.00	97.97	Al6S	ATOM	46461	C5' ADE	1269	248.042	138.809	1.763	1.00	78.84	A
ATOM	46409	C2' ADE	1266	246.474	145.728	11.641	1.00	97.97	Al6S	ATOM	46462	C4' ADE	1269	245.810	138.816	0.906	1.00	78.84	A
ATOM	46410	02' ADE	1266	247.578	143.950	13.047	1.00	97.97	Al6S	ATOM	46463	04' ADE	1269	245.179	139.067	-0.335	1.00	78.84	A
ATOM	46411	C3' ADE	1266	248.786	144.739	13.121	1.00	97.97	Al6S	ATOM	46464	C1' ADE	1269	244.937	140.503	-0.464	1.00	58.16	A
ATOM	46412	03' ADE	1266	249.443	145.411	11.792	1.00	113.81	Al6S	ATOM	46465	N9 ADE	1269	243.847	141.073	-1.053	1.00	58.16	A
ATOM	46413	P ADE	1267	250.844	145.725	12.177	1.00	113.81	Al6S	ATOM	46466	C4 ADE	1269	242.776	140.473	-1.565	1.00	58.16	A
ATOM	46414	01P ADE	1267	248.586	146.496	11.246	1.00	113.81	Al6S	ATOM	46467	N3 ADE	1269	241.942	141.356	-2.102	1.00	58.16	A
ATOM	46415	02P ADE	1267	249.535	144.245	10.707	1.00	113.81	Al6S	ATOM	46468	C2 ADE	1269	242.047	142.687	-2.178	1.00	58.16	A
ATOM	46416	05' ADE	1267	250.768	144.014	10.013	1.00	113.81	Al6S	ATOM	46469	N1 ADE	1269	243.231	144.605	-1.725	1.00	58.16	A
ATOM	46417	C5' ADE	1267	250.564	143.183	8.764	1.00	113.81	Al6S	ATOM	46470	C6 ADE	1269	243.133	143.277	-1.648	1.00	58.16	A
ATOM	46418	C4' ADE	1267	249.332	141.311	8.053	1.00	113.81	Al6S	ATOM	46471	N6 ADE	1269	244.095	142.448	-1.047	1.00	58.16	A
ATOM	46419	04' ADE	1267	247.940	141.162	8.509	1.00	113.81	Al6S	ATOM	46472	C5 ADE	1269	245.302	142.719	-0.428	1.00	58.16	A
ATOM	46420	C1' ADE	1267	247.295	140.010	8.890	1.00	113.81	Al6S	ATOM	46473	N7 ADE	1269	245.755	141.536	-0.090	1.00	58.16	A
ATOM	46421	N9 ADE	1267	247.802	138.768	8.953	1.00	113.81	Al6S	ATOM	46474	C8 ADE	1269	246.128	137.270	-1.437	1.00	78.84	A
ATOM	46422	C4 ADE	1267	246.875	137.907	9.372	1.00	113.81	Al6S	ATOM	46475	02' ADE	1269	247.475	138.700	-0.743	1.00	78.84	A
ATOM	46423	N3 ADE	1267	245.597	138.129	9.708	1.00	113.81	Al6S	ATOM	46476	C3' ADE	1269	248.447	137.874	-1.383	1.00	78.84	A
ATOM	46424	C2 ADE	1267	245.120	139.388	9.629	1.00	113.81	Al6S	ATOM	46477	P ADE	1270	249.258	138.442	-2.656	1.00	86.08	A
ATOM	46425	N1 ADE	1267	243.847	139.615	9.958	1.00	113.81	Al6S	ATOM	46478	03' ADE	1270	250.201	137.383	-3.095	1.00	83.76	A
ATOM	46426	C6 ADE	1267	245.997	140.391	9.202	1.00	113.81	Al6S	ATOM	46479	C3' ADE	1270	248.155	138.629	-3.793	1.00	86.08	A
ATOM	46427	N6 ADE	1267	245.826	141.752	8.624	1.00	113.81	Al6S	ATOM	46480	01P ADE	1270	246.436	137.920	-5.353	1.00	86.08	A
ATOM	46428	C5 ADE	1267	249.999	142.164	6.909	1.00	113.81	Al6S	ATOM	46481	02P ADE	1270	245.427	138.566	-4.532	1.00	86.08	A
ATOM	46429	N7 ADE	1267	249.413	142.323	6.086	1.00	113.81	Al6S	ATOM	46482	05' ADE	1270	244.723	139.523	-5.304	1.00	86.08	A
ATOM	46430	C8 ADE	1267	250.525	142.025	7.680	1.00	113.81	Al6S	ATOM	46483	C4' ADE	1270	244.922	140.853	-4.731	1.00	83.76	A
ATOM	46431	C2' ADE	1267	249.587	143.630	6.910	1.00	113.81	Al6S	ATOM	46484	N9 ADE	1270	244.161	141.957	-5.034	1.00	83.76	A
ATOM	46432	02' ADE	1267	250.043	144.751	5.429	1.00	113.81	Al6S	ATOM	46485	04' ADE	1270	242.631	143.251	-5.938	1.00	83.76	A
ATOM	46433	C3' ADE	1267	249.440	145.069	4.530	1.00	75.39	Al6S	ATOM	46486	C1' ADE	1270	243.110	144.373	-5.400	1.00	83.76	A
ATOM	46434	P ADE	1268	250.048	144.061	5.187	1.00	75.39	Al6S	ATOM	46487	N9 ADE	1270	244.198	144.294	-4.611	1.00	83.76	A
ATOM	46435	01P ADE	1268	247.837	144.910	6.153	1.00	110.93	Al6S	ATOM	46488	C4 ADE	1270	244.763	143.021	-4.396	1.00	83.76	A
ATOM	46436	02P ADE	1268	247.139	143.888	5.248	1.00	110.93	Al6S	ATOM	46489	N3 ADE	1270	245.852	142.590	-3.650	1.00	83.76	A
ATOM	46437	05' ADE	1268	246.389	142.906	3.888	1.00	110.93	Al6S	ATOM	46490	C2 ADE	1270	245.313	139.496	-6.712	1.00	86.08	A
ATOM	46438	C5' ADE	1268	245.047	143.349	2.972	1.00	75.39	Al6S	ATOM	46491	N1 ADE	1270	244.527	138.662	-7.545	1.00	86.08	A
ATOM	46439	C4' ADE	1268	244.540	142.563	2.239	1.00	75.39	Al6S	ATOM	46492	C6 ADE	1270	246.705	138.940	-6.448	1.00	86.08	A
ATOM	46440	04' ADE	1268	242.674	142.974	2.208	1.00	75.39	Al6S	ATOM	46493	N6 ADE	1270						A
ATOM	46441	C1' ADE	1268	241.086	141.706	1.396	1.00	75.39	Al6S	ATOM	46494	C5 ADE	1270						A
ATOM	46442	N9 ADE	1268							ATOM	46495	N7 ADE	1270						A
ATOM	46443	C4 ADE	1268							ATOM	46496	C8 ADE	1270						A
ATOM	46444	N3 ADE	1268							ATOM	46497	C2' ADE	1270						A
ATOM	46445	C2 ADE	1268							ATOM	46498	02' ADE	1270						A
ATOM	46446	C2 ADE	1268							ATOM	46499	C3' ADE	1270						A

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ATOM	46500	O3' ADE	1270	247.251	138.370	-7.627	1.00	86.08	Al6s	ATOM	46553	O4' URI	1273	257.434	147.669	-9.140	1.00	88.88	Al
ATOM	46501	P' GUA	1271	248.517	139.065	-8.329	1.00	68.24	Al6s	ATOM	46554	C1' URI	1273	258.367	146.775	-8.555	1.00	88.88	Al
ATOM	46502	O1P GUA	1271	248.509	138.738	-9.777	1.00	87.58	Al6s	ATOM	46555	N1 URI	1273	257.689	145.504	-8.270	1.00	90.83	Al
ATOM	46503	O2P GUA	1271	249.697	138.712	-7.505	1.00	87.58	Al6s	ATOM	46556	C6 URI	1273	256.596	145.102	-9.013	1.00	90.83	Al
ATOM	46504	O5' GUA	1271	248.243	140.628	-8.199	1.00	68.24	Al6s	ATOM	46557	C2 URI	1273	258.183	144.707	-7.239	1.00	90.83	Al
ATOM	46505	C5' GUA	1271	247.229	141.277	-8.987	1.00	68.24	Al6s	ATOM	46558	O2 URI	1273	259.136	145.023	-6.542	1.00	90.83	Al
ATOM	46506	C4' GUA	1271	247.249	142.769	-8.736	1.00	68.24	Al6s	ATOM	46559	N3 URI	1273	257.518	143.521	-7.060	1.00	90.83	Al
ATOM	46507	O4' GUA	1271	247.064	143.002	-7.315	1.00	68.24	Al6s	ATOM	46560	C4 URI	1273	256.435	143.058	-7.780	1.00	90.83	Al
ATOM	46508	C1' GUA	1271	247.854	144.103	-6.902	1.00	68.24	Al6s	ATOM	46561	O4 URI	1273	255.952	141.961	-7.503	1.00	90.83	Al
ATOM	46509	N9 GUA	1271	248.818	143.636	-5.908	1.00	87.58	Al6s	ATOM	46562	C5 URI	1273	255.975	143.940	-8.810	1.00	90.83	Al
ATOM	46510	C4 GUA	1271	249.731	144.416	-5.241	1.00	87.58	Al6s	ATOM	46563	C2' URI	1273	259.506	147.455	-9.556	1.00	88.88	Al
ATOM	46511	N3 GUA	1271	249.900	145.743	-5.404	1.00	87.58	Al6s	ATOM	46564	O2' URI	1273	260.568	146.576	-9.251	1.00	88.88	Al
ATOM	46512	C2 GUA	1271	250.845	146.219	-4.622	1.00	87.58	Al6s	ATOM	46565	C3' URI	1273	258.820	146.916	-10.871	1.00	88.88	Al
ATOM	46513	N2 GUA	1271	251.138	147.523	-4.669	1.00	87.58	Al6s	ATOM	46566	O3' URI	1273	259.736	147.292	-11.889	1.00	88.88	Al
ATOM	46514	N1 GUA	1271	251.571	145.453	-3.739	1.00	87.58	Al6s	ATOM	46567	P' GUA	1274	260.290	146.168	-12.901	1.00	86.05	Al
ATOM	46515	C6 GUA	1271	251.414	144.081	-3.551	1.00	87.58	Al6s	ATOM	46568	O1P GUA	1274	261.009	146.881	-13.994	1.00	89.80	Al
ATOM	46516	O6 GUA	1271	252.114	143.483	-2.720	1.00	87.58	Al6s	ATOM	46569	O2P GUA	1274	259.161	145.260	-13.247	1.00	89.80	Al
ATOM	46517	C5 GUA	1271	250.404	143.556	-4.396	1.00	87.58	Al6s	ATOM	46570	O5' GUA	1274	261.337	145.348	-12.014	1.00	86.05	Al
ATOM	46518	N7 GUA	1271	248.997	142.349	-5.444	1.00	87.58	Al6s	ATOM	46571	C5' GUA	1274	262.541	145.977	-11.547	1.00	86.05	Al
ATOM	46519	C8 GUA	1271	248.934	142.255	-4.537	1.00	68.24	Al6s	ATOM	46572	C4' GUA	1274	263.278	145.087	-10.573	1.00	86.05	Al
ATOM	46520	C2' GUA	1271	248.526	144.691	-8.143	1.00	68.24	Al6s	ATOM	46573	O4' GUA	1274	262.511	144.938	-9.349	1.00	86.05	Al
ATOM	46521	O2' GUA	1271	247.755	145.780	-8.625	1.00	68.24	Al6s	ATOM	46574	C1' GUA	1274	262.763	143.661	-8.778	1.00	86.05	Al
ATOM	46522	C3' GUA	1271	248.552	143.484	-9.078	1.00	68.24	Al6s	ATOM	46575	N9 GUA	1274	261.518	142.893	-8.771	1.00	89.80	Al
ATOM	46523	O3' GUA	1271	248.613	143.863	-10.457	1.00	68.24	Al6s	ATOM	46576	C4 GUA	1274	261.244	141.764	-8.021	1.00	89.80	Al
ATOM	46524	P' GUA	1272	249.995	143.706	-11.273	1.00	84.42	Al6s	ATOM	46577	N3 GUA	1274	262.054	141.203	-7.096	1.00	89.80	Al
ATOM	46525	O1P GUA	1272	249.655	143.941	-12.705	1.00	79.50	Al6s	ATOM	46578	C2 GUA	1274	261.531	140.101	-6.581	1.00	89.80	Al
ATOM	46526	O2P GUA	1272	250.674	142.440	-10.874	1.00	79.50	Al6s	ATOM	46579	N2 GUA	1274	262.194	139.420	-5.637	1.00	89.80	Al
ATOM	46527	O5' GUA	1272	250.897	144.916	-10.756	1.00	84.42	Al6s	ATOM	46580	N1 GUA	1274	260.318	139.587	-6.950	1.00	89.80	Al
ATOM	46528	C5' GUA	1272	250.621	146.282	-11.147	1.00	84.42	Al6s	ATOM	46581	C6 GUA	1274	259.471	140.142	-7.902	1.00	89.80	Al
ATOM	46529	C4' GUA	1272	251.588	147.224	-10.468	1.00	84.42	Al6s	ATOM	46582	O6 GUA	1274	258.405	139.583	-8.178	1.00	89.80	Al
ATOM	46530	O4' GUA	1272	251.408	147.113	-9.036	1.00	84.42	Al6s	ATOM	46583	C5 GUA	1274	260.010	141.393	-8.450	1.00	89.80	Al
ATOM	46531	C1' GUA	1272	252.661	147.186	-8.384	1.00	84.42	Al6s	ATOM	46584	N7 GUA	1274	259.494	142.193	-9.409	1.00	89.80	Al
ATOM	46532	N9 GUA	1272	252.863	145.941	-7.650	1.00	79.50	Al6s	ATOM	46585	C8 GUA	1274	260.412	143.107	-9.557	1.00	89.80	Al
ATOM	46533	C4 GUA	1272	253.856	145.677	-6.742	1.00	79.50	Al6s	ATOM	46586	C2' GUA	1274	263.793	142.965	-9.672	1.00	86.05	Al
ATOM	46534	N3 GUA	1272	254.833	145.525	-6.368	1.00	79.50	Al6s	ATOM	46587	O2' GUA	1274	263.098	143.177	-9.176	1.00	86.05	Al
ATOM	46535	C2 GUA	1272	255.646	145.979	-5.475	1.00	79.50	Al6s	ATOM	46588	C3' GUA	1274	263.559	143.659	-11.006	1.00	86.05	Al
ATOM	46536	N2 GUA	1272	256.685	146.682	-4.997	1.00	79.50	Al6s	ATOM	46589	O3' GUA	1274	264.667	143.528	-11.883	1.00	86.05	Al
ATOM	46537	N1 GUA	1272	255.504	144.701	-4.986	1.00	79.50	Al6s	ATOM	46590	P' GUA	1275	264.711	142.292	-12.918	1.00	95.28	Al
ATOM	46538	C6 GUA	1272	254.501	143.812	-5.355	1.00	79.50	Al6s	ATOM	46591	O1P GUA	1275	265.878	142.519	-13.810	1.00	77.57	Al
ATOM	46539	O6 GUA	1272	254.459	142.683	-4.850	1.00	79.50	Al6s	ATOM	46592	O2P GUA	1275	263.365	142.117	-13.518	1.00	77.57	Al
ATOM	46540	C5 GUA	1272	253.627	144.385	-6.316	1.00	79.50	Al6s	ATOM	46593	O5' GUA	1275	265.010	141.036	-11.979	1.00	95.28	Al
ATOM	46541	N7 GUA	1272	252.514	143.850	-6.945	1.00	79.50	Al6s	ATOM	46594	C5' GUA	1275	266.198	141.018	-11.171	1.00	95.28	Al
ATOM	46542	C8 GUA	1272	252.096	144.805	-7.726	1.00	79.50	Al6s	ATOM	46595	O4' GUA	1275	266.259	139.784	-10.300	1.00	95.28	Al
ATOM	46543	O2' GUA	1272	253.127	147.456	-9.444	1.00	84.42	Al6s	ATOM	46596	C4' GUA	1275	265.272	139.842	-9.238	1.00	95.28	Al
ATOM	46544	O2' GUA	1272	253.952	148.849	-9.495	1.00	84.42	Al6s	ATOM	46597	C1' GUA	1275	264.939	139.520	-8.832	1.00	95.28	Al
ATOM	46545	C3' GUA	1272	253.059	146.916	-10.702	1.00	84.42	Al6s	ATOM	46598	N9 GUA	1275	263.506	138.288	-9.020	1.00	77.57	Al
ATOM	46546	O3' GUA	1272	253.530	147.558	-11.883	1.00	84.42	Al6s	ATOM	46599	C4 GUA	1275	262.762	137.295	-8.413	1.00	77.57	Al
ATOM	46547	P' URI	1273	254.793	146.949	-12.672	1.00	88.88	Al6s	ATOM	46600	N3 GUA	1275	263.214	136.413	-7.492	1.00	77.57	Al
ATOM	46548	O1P URI	1273	255.087	147.873	-13.803	1.00	90.83	Al6s	ATOM	46601	C2 GUA	1275	262.279	135.556	-7.126	1.00	77.57	Al
ATOM	46549	O2P URI	1273	254.528	145.518	-12.948	1.00	90.83	Al6s	ATOM	46602	N2 GUA	1275	262.557	134.624	-6.208	1.00	77.57	Al
ATOM	46550	O5' URI	1273	255.984	147.023	-11.613	1.00	88.88	Al6s	ATOM	46603	N1 GUA	1275	261.002	135.556	-7.632	1.00	77.57	Al
ATOM	46551	C5' URI	1273	256.684	148.259	-11.377	1.00	88.88	Al6s	ATOM	46604	C6 GUA	1275	260.514	136.454	-8.578	1.00	77.57	Al
ATOM	46552	C4' URI	1273	257.876	148.035	-10.473	1.00	88.88	Al6s	ATOM	46605	O6 GUA	1275	259.348	136.361	-8.975	1.00	77.57	Al

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ATOM	46606	C5	GUA	1275	261.503	137.391	-8.968	1.00	77.57	Al6S	ATOM	46659	O5' CYT	1278	264.602	126.374	-15.968	1.00	55.62	A
ATOM	46607	N7	GUA	1275	261.439	138.448	-9.870	1.00	77.57	Al6S	ATOM	46660	C5' CYT	1278	263.713	125.267	-16.107	1.00	55.62	A
ATOM	46608	C8	GUA	1275	262.643	138.956	-9.863	1.00	77.57	Al6S	ATOM	46661	C4' CYT	1278	262.728	125.545	-17.195	1.00	55.62	A
ATOM	46609	C2' GUA	1275	265.733	137.557	-9.715	1.00	95.28	Al6S	ATOM	46662	O4' CYT	1278	262.137	126.838	-16.921	1.00	55.62	A	
ATOM	46610	O2' GUA	1275	266.899	137.134	-9.034	1.00	95.28	Al6S	ATOM	46663	C1' CYT	1278	262.254	127.663	-18.059	1.00	55.62	A	
ATOM	46611	C3' GUA	1275	266.023	138.425	-10.934	1.00	95.28	Al6S	ATOM	46664	N1	1278	262.476	129.045	-17.608	1.00	68.58	A	
ATOM	46612	O3' GUA	1275	267.129	137.934	-11.667	1.00	95.28	Al6S	ATOM	46665	C6	1278	263.421	129.326	-18.661	1.00	68.58	A	
ATOM	46613	P	GUA	1276	266.886	136.836	-12.820	1.00	81.25	Al6S	ATOM	46666	C2	1278	261.694	130.078	-18.161	1.00	68.58	A
ATOM	46614	O1P GUA	1276	268.195	136.650	-13.507	1.00	68.47	Al6S	ATOM	46667	O2	1278	260.832	129.801	-19.016	1.00	68.58	A	
ATOM	46615	O2P GUA	1276	265.684	137.237	-13.611	1.00	68.47	Al6S	ATOM	46668	N3	1278	261.894	131.345	-17.744	1.00	68.58	A	
ATOM	46616	O5' GUA	1276	266.564	135.498	-12.014	1.00	81.25	Al6S	ATOM	46669	C4	1278	262.819	131.604	-16.816	1.00	68.58	A	
ATOM	46617	C5' GUA	1276	267.527	134.969	-11.090	1.00	81.25	Al6S	ATOM	46670	N4	1278	262.980	132.871	-16.430	1.00	68.58	A	
ATOM	46618	C4' GUA	1276	266.929	133.863	-10.256	1.00	81.25	Al6S	ATOM	46671	C5	1278	263.621	130.575	-16.239	1.00	68.58	A	
ATOM	46619	O4' GUA	1276	265.837	134.379	-9.456	1.00	81.25	Al6S	ATOM	46672	C2' CYT	1278	263.390	127.095	-18.908	1.00	55.62	A	
ATOM	46620	C1' GUA	1276	264.847	133.376	-9.290	1.00	81.25	Al6S	ATOM	46673	O2' CYT	1278	263.157	127.367	-20.278	1.00	55.62	A	
ATOM	46621	N9	GUA	1276	263.621	133.810	-9.959	1.00	68.47	Al6S	ATOM	46674	C3' CYT	1278	263.283	125.603	-18.617	1.00	55.62	A
ATOM	46622	C4	GUA	1276	262.381	133.229	-9.826	1.00	68.47	Al6S	ATOM	46675	O3' CYT	1278	262.337	125.044	-19.512	1.00	55.62	A
ATOM	46623	N3	GUA	1276	262.084	132.172	-9.041	1.00	68.47	Al6S	ATOM	46676	P	1279	262.734	123.775	-20.400	1.00	78.06	A
ATOM	46624	C2	GUA	1276	260.817	131.820	-9.149	1.00	68.47	Al6S	ATOM	46677	O1P CYT	1279	263.705	122.956	-19.614	1.00	56.27	A
ATOM	46625	N2	GUA	1276	260.360	130.768	-8.449	1.00	68.47	Al6S	ATOM	46678	O2P CYT	1279	263.096	124.273	-21.753	1.00	56.27	A
ATOM	46626	N1	GUA	1276	259.908	132.464	-9.954	1.00	68.47	Al6S	ATOM	46679	O5' CYT	1279	261.367	122.966	-20.522	1.00	78.06	A
ATOM	46627	C6	GUA	1276	260.192	133.550	-10.769	1.00	68.47	Al6S	ATOM	46680	C5' CYT	1279	260.924	122.074	-19.474	1.00	78.06	A
ATOM	46628	O6	GUA	1276	259.303	134.042	-11.463	1.00	68.47	Al6S	ATOM	46681	C4' CYT	1279	259.418	121.946	-19.498	1.00	78.06	A
ATOM	46629	C5	GUA	1276	261.552	133.936	-10.670	1.00	68.47	Al6S	ATOM	46682	O4' CYT	1279	258.805	123.070	-18.809	1.00	78.06	A
ATOM	46630	N7	GUA	1276	262.250	134.951	-11.312	1.00	68.47	Al6S	ATOM	46683	C1' CYT	1279	257.786	123.598	-19.622	1.00	78.06	A
ATOM	46631	C8	GUA	1276	263.469	134.843	-10.856	1.00	68.47	Al6S	ATOM	46684	N1	1279	257.645	125.037	-19.387	1.00	56.27	A
ATOM	46632	C2' GUA	1276	265.383	132.109	-9.946	1.00	81.25	Al6S	ATOM	46685	C6	1279	258.722	125.829	-19.123	1.00	56.27	A	
ATOM	46633	O2' GUA	1276	266.058	131.351	-8.964	1.00	81.25	Al6S	ATOM	46686	C2	1279	256.371	125.595	-19.489	1.00	56.27	A	
ATOM	46634	C3' GUA	1276	266.315	132.693	-10.998	1.00	81.25	Al6S	ATOM	46687	O2	1279	255.402	124.845	-19.642	1.00	56.27	A	
ATOM	46635	O3' GUA	1276	267.277	131.768	-11.469	1.00	81.25	Al6S	ATOM	46688	N3	1279	256.220	126.929	-19.409	1.00	56.27	A	
ATOM	46636	P	CYT	1277	267.087	131.118	-12.926	1.00	88.97	Al6S	ATOM	46689	C4	1279	257.280	127.703	-19.209	1.00	56.27	A
ATOM	46637	O1P CYT	1277	268.251	130.226	-13.144	1.00	57.02	Al6S	ATOM	46690	N4	1279	257.089	129.023	-19.190	1.00	56.27	A	
ATOM	46638	O2P CYT	1277	266.763	132.186	-13.916	1.00	57.02	Al6S	ATOM	46691	C5	1279	258.587	127.158	-19.030	1.00	56.27	A	
ATOM	46639	O5' CYT	1277	265.797	130.200	-12.773	1.00	88.97	Al6S	ATOM	46692	C2' CYT	1279	258.197	123.275	-21.056	1.00	78.06	A	
ATOM	46640	C5' CYT	1277	265.774	129.137	-11.807	1.00	88.97	Al6S	ATOM	46693	O2' CYT	1279	257.080	123.312	-21.918	1.00	78.06	A	
ATOM	46641	C4' CYT	1277	264.461	128.389	-11.863	1.00	88.97	Al6S	ATOM	46694	C3' CYT	1279	258.780	121.880	-20.890	1.00	78.06	A	
ATOM	46642	O4' CYT	1277	263.377	129.225	-11.398	1.00	88.97	Al6S	ATOM	46695	O3' CYT	1279	257.679	120.981	-20.917	1.00	78.06	A	
ATOM	46643	C1' CYT	1277	262.193	128.880	-12.087	1.00	88.97	Al6S	ATOM	46696	P	1280	257.937	119.410	-21.086	1.00	54.92	A	
ATOM	46644	N1	CYT	1277	261.649	130.094	-12.722	1.00	57.02	Al6S	ATOM	46697	O1P ADE	1280	256.601	118.760	-21.074	1.00	75.52	A
ATOM	46645	C6	CYT	1277	262.457	131.154	-13.020	1.00	57.02	Al6S	ATOM	46698	O2P ADE	1280	258.863	119.177	-22.231	1.00	75.52	A
ATOM	46646	C2	CYT	1277	260.277	130.149	-13.014	1.00	57.02	Al6S	ATOM	46699	O5' ADE	1280	258.669	119.032	-19.729	1.00	54.92	A
ATOM	46647	O2	CYT	1277	259.564	129.172	-12.744	1.00	57.02	Al6S	ATOM	46700	C5' ADE	1280	259.844	118.227	-19.724	1.00	54.92	A
ATOM	46648	N3	CYT	1277	259.765	131.265	-13.582	1.00	57.02	Al6S	ATOM	46701	C4' ADE	1280	260.188	117.865	-18.311	1.00	54.92	A
ATOM	46649	C4	CYT	1277	260.562	132.297	-13.858	1.00	57.02	Al6S	ATOM	46702	O4' ADE	1280	260.571	119.060	-17.606	1.00	54.92	A
ATOM	46650	N4	CYT	1277	260.011	133.385	-14.403	1.00	57.02	Al6S	ATOM	46703	C1' ADE	1280	260.101	119.006	-16.277	1.00	54.92	A
ATOM	46651	C5	CYT	1277	261.960	132.263	-13.584	1.00	57.02	Al6S	ATOM	46704	N9	1280	259.562	120.337	-15.961	1.00	75.52	A
ATOM	46652	C2' CYT	1277	262.518	127.742	-13.060	1.00	88.97	Al6S	ATOM	46705	C4	1280	258.308	120.872	-16.142	1.00	75.52	A	
ATOM	46653	O2' CYT	1277	262.174	126.511	-12.454	1.00	88.97	Al6S	ATOM	46706	N3	1280	257.204	120.246	-16.570	1.00	75.52	A	
ATOM	46654	C3' CYT	1277	264.026	127.888	-13.228	1.00	88.97	Al6S	ATOM	46707	C2	1280	256.192	121.109	-16.680	1.00	75.52	A	
ATOM	46655	O3' CYT	1277	264.639	126.633	-13.473	1.00	88.97	Al6S	ATOM	46708	N1	1280	256.167	122.432	-16.437	1.00	75.52	A	
ATOM	46656	P	CYT	1278	265.607	126.445	-14.740	1.00	55.62	Al6S	ATOM	46709	C6	1280	257.297	123.030	-16.013	1.00	75.52	A
ATOM	46657	O1P CYT	1278	266.225	125.111	-14.549	1.00	68.58	Al6S	ATOM	46710	N6	1280	257.284	124.346	-15.796	1.00	75.52	A	
ATOM	46658	O2P CYT	1278	266.475	127.637	-14.917	1.00	68.58	Al6S	ATOM	46711	C5	1280	258.429	122.225	-15.839	1.00	75.52	A	

ATOM	46712	N7	ADE	1280	259.712	122.521	-15.412	1.00	75.52	Al6S	ATOM	46765	C5' URI	1283	261.036	122.281	-7.801	1.00	67.66	AJ
ATOM	46713	C8	ADE	1280	260.337	121.372	-15.483	1.00	75.52	Al6S	ATOM	46766	C4' URI	1283	260.499	123.613	-7.308	1.00	67.66	AJ
ATOM	46714	C2' ADE	1280	259.333	117.686	-16.079	1.00	54.92	Al6S	ATOM	46767	O4' URI	1283	261.605	124.499	-7.066	1.00	67.66	AJ	
ATOM	46715	O2' ADE	1280	260.214	116.809	-15.400	1.00	54.92	Al6S	ATOM	46768	C1' URI	1283	261.179	125.825	-7.260	1.00	67.66	AJ	
ATOM	46716	C3' ADE	1280	259.034	117.263	-17.531	1.00	54.92	Al6S	ATOM	46769	N1 URI	1283	262.304	126.612	-7.780	1.00	80.01	AJ	
ATOM	46717	O3' ADE	1280	259.078	115.861	-17.849	1.00	54.92	Al6S	ATOM	46770	C6 URI	1283	263.235	126.060	-8.628	1.00	80.01	AJ	
ATOM	46718	P	GUH	1281	258.089	114.825	-17.141	1.00	74.04	Al6S	ATOM	46771	C2 URI	1283	262.411	127.929	-7.362	1.00	80.01	AJ
ATOM	46719	O1P GUH	1281	258.119	113.572	-17.913	1.00	64.83	Al6S	ATOM	46772	O2 URI	1283	261.590	128.475	-6.641	1.00	80.01	AJ	
ATOM	46720	O2P GUH	1281	256.800	115.520	-16.921	1.00	64.83	Al6S	ATOM	46773	N3 URI	1283	263.520	128.588	-7.821	1.00	80.01	AJ	
ATOM	46721	O5' GUH	1281	258.810	114.549	-15.747	1.00	74.04	Al6S	ATOM	46774	C4 URI	1283	264.504	128.084	-8.642	1.00	80.01	AJ	
ATOM	46722	C5' GUH	1281	258.123	113.938	-14.629	1.00	74.04	Al6S	ATOM	46775	O4 URI	1283	265.490	128.777	-8.888	1.00	80.01	AJ	
ATOM	46723	C4' GUH	1281	257.630	115.006	-13.683	1.00	74.04	Al6S	ATOM	46776	C5 URI	1283	264.302	126.731	-9.060	1.00	80.01	AJ	
ATOM	46724	O4' GUH	1281	256.286	115.352	-14.072	1.00	74.04	Al6S	ATOM	46777	C2' URI	1283	259.894	125.824	-8.096	1.00	67.66	AJ	
ATOM	46725	C1' GUH	1281	255.539	115.688	-12.929	1.00	74.04	Al6S	ATOM	46778	O2' URI	1283	258.836	126.494	-7.429	1.00	67.66	AJ	
ATOM	46726	N9 GUH	1281	254.269	114.964	-12.949	1.00	64.83	Al6S	ATOM	46779	C3' URI	1283	259.647	124.334	-8.341	1.00	67.66	AJ	
ATOM	46727	C4 GUH	1281	253.042	115.550	-13.129	1.00	64.83	Al6S	ATOM	46780	O3' URI	1283	258.235	124.053	-8.281	1.00	67.66	AJ	
ATOM	46728	N3 GUH	1281	252.816	116.874	-13.244	1.00	64.83	Al6S	ATOM	46781	P	CYT	1284	257.492	123.621	-6.892	1.00	60.87	AJ
ATOM	46729	C2 GUH	1281	251.548	117.148	-13.423	1.00	64.83	Al6S	ATOM	46782	O1P CYT	1284	257.772	124.633	-5.843	1.00	44.20	AJ	
ATOM	46730	N2 GUH	1281	251.165	118.426	-13.518	1.00	64.83	Al6S	ATOM	46783	O2P CYT	1284	257.646	122.156	-6.574	1.00	44.20	AJ	
ATOM	46731	N1 GUH	1281	250.566	116.195	-13.514	1.00	64.83	Al6S	ATOM	46784	O5' CYT	1284	255.981	123.870	-7.311	1.00	60.87	AJ	
ATOM	46732	C6 GUH	1281	250.769	114.821	-13.411	1.00	64.83	Al6S	ATOM	46785	C5' CYT	1284	255.692	124.878	-8.296	1.00	60.87	AJ	
ATOM	46733	O6 GUH	1281	249.806	114.043	-13.537	1.00	64.83	Al6S	ATOM	46786	C4' CYT	1284	254.608	124.420	-9.232	1.00	60.87	AJ	
ATOM	46734	C5 GUH	1281	252.141	114.515	-13.179	1.00	64.83	Al6S	ATOM	46787	O4' CYT	1284	255.052	123.340	-10.091	1.00	60.87	AJ	
ATOM	46735	N7 GUH	1281	252.781	113.296	-12.981	1.00	64.83	Al6S	ATOM	46788	C1' CYT	1284	253.949	122.502	-10.398	1.00	60.87	AJ	
ATOM	46736	C8 GUH	1281	254.042	113.612	-12.841	1.00	64.83	Al6S	ATOM	46789	N1 CYT	1284	254.281	121.108	-10.030	1.00	44.20	AJ	
ATOM	46737	C2' GUH	1281	256.430	115.555	-11.697	1.00	74.04	Al6S	ATOM	46790	C6 CYT	1284	255.497	120.795	-9.499	1.00	44.20	AJ	
ATOM	46738	O2' GUH	1281	256.912	116.846	-11.379	1.00	74.04	Al6S	ATOM	46791	C2 CYT	1284	253.333	120.088	-10.264	1.00	44.20	AJ	
ATOM	46739	C3' GUH	1281	257.541	114.872	-11.599	1.00	74.04	Al6S	ATOM	46792	O2 CYT	1284	252.219	120.387	-10.702	1.00	44.20	AJ	
ATOM	46740	O3' GUH	1281	258.839	114.872	-11.599	1.00	74.04	Al6S	ATOM	46793	N3 CYT	1284	253.658	118.804	-10.004	1.00	44.20	AJ	
ATOM	46741	P	URI	1282	258.994	115.577	-10.141	1.00	72.15	Al6S	ATOM	46794	C4 CYT	1284	254.857	118.510	-9.518	1.00	44.20	AJ
ATOM	46742	O1P URI	1282	260.175	114.910	-9.542	1.00	62.71	Al6S	ATOM	46795	N4 CYT	1284	255.139	117.227	-9.296	1.00	44.20	AJ	
ATOM	46743	O2P URI	1282	257.731	115.628	-9.357	1.00	62.71	Al6S	ATOM	46796	C5 CYT	1284	255.825	119.520	-9.236	1.00	44.20	AJ	
ATOM	46744	O5' URI	1282	259.415	117.074	-10.509	1.00	72.15	Al6S	ATOM	46797	C2' CYT	1284	252.724	123.064	-9.677	1.00	60.87	AJ	
ATOM	46745	C5' URI	1282	260.662	117.333	-11.188	1.00	72.15	Al6S	ATOM	46798	O2' CYT	1284	251.981	123.868	-10.574	1.00	60.87	AJ	
ATOM	46746	C4' URI	1282	260.745	118.774	-11.639	1.00	72.15	Al6S	ATOM	46799	C3' CYT	1284	253.374	123.867	-8.558	1.00	60.87	AJ	
ATOM	46747	O4' URI	1282	259.676	119.023	-12.562	1.00	72.15	Al6S	ATOM	46800	O3' CYT	1284	252.573	124.908	-8.031	1.00	60.87	AJ	
ATOM	46748	C1' URI	1282	259.285	120.370	-12.467	1.00	72.15	Al6S	ATOM	46801	P	GUH	1285	252.251	124.921	-6.457	1.00	61.03	AJ
ATOM	46749	N1 URI	1282	257.821	120.451	-12.584	1.00	62.71	Al6S	ATOM	46802	O1P GUH	1285	251.199	125.956	-6.273	1.00	72.01	AJ	
ATOM	46750	C6 URI	1282	257.042	119.329	-12.476	1.00	62.71	Al6S	ATOM	46803	O2P GUH	1285	253.519	125.007	-5.674	1.00	72.01	AJ	
ATOM	46751	C2 URI	1282	257.255	121.675	-12.865	1.00	62.71	Al6S	ATOM	46804	O5' GUH	1285	251.586	123.492	-6.220	1.00	61.03	AJ	
ATOM	46752	O2 URI	1282	257.896	122.708	-12.895	1.00	62.71	Al6S	ATOM	46805	C5' GUH	1285	250.320	123.178	-6.827	1.00	61.03	AJ	
ATOM	46753	N3 URI	1282	255.907	121.644	-13.109	1.00	62.71	Al6S	ATOM	46806	C4' GUH	1285	249.953	121.747	-6.567	1.00	61.03	AJ	
ATOM	46754	C4 URI	1282	255.085	120.539	-13.083	1.00	62.71	Al6S	ATOM	46807	O4' GUH	1285	250.755	120.868	-7.385	1.00	61.03	AJ	
ATOM	46755	O4 URI	1282	253.939	120.627	-13.520	1.00	62.71	Al6S	ATOM	46808	C1' GUH	1285	250.975	119.649	-6.693	1.00	61.03	AJ	
ATOM	46756	C5 URI	1282	255.733	119.332	-12.710	1.00	62.71	Al6S	ATOM	46809	N9 GUH	1285	252.413	119.431	-6.569	1.00	72.01	AJ	
ATOM	46757	C2' URI	1282	260.020	121.049	-11.305	1.00	72.15	Al6S	ATOM	46810	C4 GUH	1285	253.064	118.216	-6.520	1.00	72.01	AJ	
ATOM	46758	O2' URI	1282	260.942	121.959	-11.859	1.00	72.15	Al6S	ATOM	46811	N3 GUH	1285	252.485	116.997	-6.575	1.00	72.01	AJ	
ATOM	46759	C3' URI	1282	260.649	119.858	-10.568	1.00	72.15	Al6S	ATOM	46812	C2 GUH	1285	253.378	116.021	-6.495	1.00	72.01	AJ	
ATOM	46760	O3' URI	1282	261.988	120.017	-10.001	1.00	72.15	Al6S	ATOM	46813	N2 GUH	1285	252.976	114.740	-6.507	1.00	72.01	AJ	
ATOM	46761	P	URI	1283	262.663	121.473	-9.758	1.00	67.66	Al6S	ATOM	46814	N1 GUH	1285	254.731	116.229	-6.392	1.00	72.01	AJ
ATOM	46762	O1P URI	1283	263.129	122.007	-11.063	1.00	80.01	Al6S	ATOM	46815	C6 GUH	1285	255.347	117.475	-6.343	1.00	72.01	AJ	
ATOM	46763	O2P URI	1283	263.644	121.277	-8.673	1.00	80.01	Al6S	ATOM	46816	O6 GUH	1285	256.579	117.556	-6.263	1.00	72.01	AJ	
ATOM	46764	O5' URI	1283	261.511	122.409	-9.172	1.00	67.66	Al6S	ATOM	46817	C5 GUH	1285	254.402	118.526	-6.403	1.00	72.01	AJ	

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ATOM	46818	N7	GUA	1285	254.591	119.900	-6.371	1.00	72.01	Al6s	ATOM	46871	O2P	URI	1288	247.635	113.690	5.024	1.00	58.41	A
ATOM	46819	C8	GUA	1285	253.388	120.395	-6.474	1.00	72.01	Al6s	ATOM	46872	O5' URI	1288	247.971	111.321	4.333	1.00	50.48	A	
ATOM	46820	C2' GUA	1285	250.274	119.752	-5.339	1.00	61.03	Al6s	ATOM	46873	C5' URI	1288	247.682	110.169	3.536	1.00	50.48	A		
ATOM	46821	O2' GUA	1285	249.008	119.144	-5.459	1.00	61.03	Al6s	ATOM	46874	C4' URI	1288	248.943	109.391	3.268	1.00	50.48	A		
ATOM	46822	C3' GUA	1285	250.174	121.260	-5.151	1.00	61.03	Al6s	ATOM	46875	O4' URI	1288	249.791	110.099	2.329	1.00	50.48	A		
ATOM	46823	O3' GUA	1285	249.079	121.610	-4.331	1.00	61.03	Al6s	ATOM	46876	C1' URI	1288	251.151	109.851	2.642	1.00	50.48	A		
ATOM	46824	P	GUA	1286	249.310	122.513	-3.019	1.00	52.38	Al6s	ATOM	46877	N1 URI	1288	251.823	111.135	2.887	1.00	58.41	A	
ATOM	46825	O1P	GUA	1286	248.774	123.865	-3.307	1.00	79.14	Al6s	ATOM	46878	C6 URI	1288	251.111	112.275	3.155	1.00	58.41	A	
ATOM	46826	O2P	GUA	1286	250.687	122.368	-2.526	1.00	79.14	Al6s	ATOM	46879	C2 URI	1288	253.204	111.159	2.841	1.00	58.41	A	
ATOM	46827	O5' GUA	1286	248.322	121.852	-1.969	1.00	52.38	Al6s	ATOM	46880	O2 URI	1288	253.877	110.168	2.597	1.00	58.41	A		
ATOM	46828	C5' GUA	1286	248.797	121.338	-0.738	1.00	52.38	Al6s	ATOM	46881	N3 URI	1288	253.772	112.385	3.088	1.00	58.41	A		
ATOM	46829	C4' GUA	1286	249.064	119.879	-0.869	1.00	52.38	Al6s	ATOM	46882	C4 URI	1288	253.116	113.561	3.364	1.00	58.41	A		
ATOM	46830	O4' GUA	1286	249.981	119.716	-1.953	1.00	52.38	Al6s	ATOM	46883	O4 URI	1288	253.764	114.587	3.575	1.00	58.41	A		
ATOM	46831	C1' GUA	1286	250.949	118.760	-1.605	1.00	52.38	Al6s	ATOM	46884	C5 URI	1288	251.694	113.453	3.387	1.00	58.41	A		
ATOM	46832	N9	GUA	1286	252.262	119.342	-1.867	1.00	79.14	Al6s	ATOM	46885	C2' URI	1288	251.196	108.935	3.864	1.00	50.48	A	
ATOM	46833	C4	GUA	1286	253.366	118.706	-2.391	1.00	79.14	Al6s	ATOM	46886	O2' URI	1288	251.403	107.598	3.465	1.00	50.48	A	
ATOM	46834	N3	GUA	1286	253.471	117.393	-2.661	1.00	79.14	Al6s	ATOM	46887	C3' URI	1288	249.824	109.173	4.478	1.00	50.48	A	
ATOM	46835	C2	GUA	1286	254.627	117.102	-3.222	1.00	79.14	Al6s	ATOM	46888	O3' URI	1288	249.372	108.105	5.291	1.00	50.48	A	
ATOM	46836	N2	GUA	1286	254.891	115.862	-3.582	1.00	79.14	Al6s	ATOM	46889	P	URI	1289	249.487	108.239	6.885	1.00	72.87	A
ATOM	46837	N1	GUA	1286	255.609	118.016	-3.484	1.00	79.14	Al6s	ATOM	46890	O1P	URI	1289	248.710	107.115	7.477	1.00	60.52	A
ATOM	46838	C6	GUA	1286	255.525	119.372	-3.219	1.00	79.14	Al6s	ATOM	46891	O2P	URI	1289	249.145	109.650	7.236	1.00	60.52	A
ATOM	46839	O6	GUA	1286	256.465	120.122	-3.523	1.00	79.14	Al6s	ATOM	46892	O5' URI	1289	251.038	107.989	7.165	1.00	72.87	A	
ATOM	46840	C5	GUA	1286	254.290	119.703	-2.617	1.00	79.14	Al6s	ATOM	46893	C5' URI	1289	251.628	106.696	6.903	1.00	72.87	A	
ATOM	46841	N7	GUA	1286	253.806	120.927	-2.187	1.00	79.14	Al6s	ATOM	46894	C4' URI	1289	253.142	106.782	6.852	1.00	72.87	A	
ATOM	46842	C8	GUA	1286	252.614	120.660	-1.727	1.00	79.14	Al6s	ATOM	46895	O4' URI	1289	253.560	107.694	5.800	1.00	72.87	A	
ATOM	46843	C2' GUA	1286	250.618	118.205	-0.213	1.00	52.38	Al6s	ATOM	46896	C1' URI	1289	254.785	108.313	6.162	1.00	72.87	A		
ATOM	46844	O2' GUA	1286	249.851	117.040	-0.388	1.00	52.38	Al6s	ATOM	46897	N1 URI	1289	254.572	109.766	6.230	1.00	60.52	A		
ATOM	46845	C3' GUA	1286	249.706	119.269	0.365	1.00	52.38	Al6s	ATOM	46898	C6 URI	1289	253.318	110.287	6.456	1.00	60.52	A		
ATOM	46846	O3' GUA	1286	248.620	118.666	1.094	1.00	52.38	Al6s	ATOM	46899	C2 URI	1289	255.678	110.607	6.065	1.00	60.52	A		
ATOM	46847	P	ADE	1287	248.893	117.780	2.420	1.00	49.16	Al6s	ATOM	46900	O2 URI	1289	256.823	111.193	5.869	1.00	60.52	A	
ATOM	46848	O1P	ADE	1287	247.894	118.233	3.436	1.00	45.44	Al6s	ATOM	46901	N3 URI	1289	255.393	111.952	6.144	1.00	60.52	A	
ATOM	46849	O2P	ADE	1287	250.342	117.799	2.753	1.00	45.44	Al6s	ATOM	46902	C4 URI	1289	254.157	112.529	6.369	1.00	60.52	A	
ATOM	46850	O5' ADE	1287	248.516	116.280	2.020	1.00	49.16	Al6s	ATOM	46903	O4 URI	1289	254.061	113.753	6.417	1.00	60.52	A		
ATOM	46851	C5' ADE	1287	247.146	115.886	1.789	1.00	49.16	Al6s	ATOM	46904	C5 URI	1289	255.082	111.600	6.529	1.00	60.52	A		
ATOM	46852	C4' ADE	1287	247.099	114.506	1.178	1.00	49.16	Al6s	ATOM	46905	C2' URI	1289	255.207	107.742	7.513	1.00	72.87	A		
ATOM	46853	O4' ADE	1287	247.926	114.495	-0.010	1.00	49.16	Al6s	ATOM	46906	O2' URI	1289	256.084	106.658	7.291	1.00	72.87	A		
ATOM	46854	C1' ADE	1287	248.614	113.260	-0.107	1.00	49.16	Al6s	ATOM	46907	C3' URI	1289	253.872	107.287	8.087	1.00	72.87	A		
ATOM	46855	N9	ADE	1287	250.050	113.532	-0.066	1.00	45.44	Al6s	ATOM	46908	O3' URI	1289	254.047	106.283	9.078	1.00	72.87	A	
ATOM	46856	C4	ADE	1287	251.070	112.616	-0.161	1.00	45.44	Al6s	ATOM	46909	P	GUA	1290	254.414	106.719	10.580	1.00	91.77	A
ATOM	46857	N3	ADE	1287	250.965	111.287	-0.323	1.00	45.44	Al6s	ATOM	46910	O1P	GUA	1290	254.218	105.517	11.427	1.00	68.45	A
ATOM	46858	C2	ADE	1287	252.164	110.723	-0.345	1.00	45.44	Al6s	ATOM	46911	O2P	GUA	1290	253.705	107.985	10.921	1.00	68.45	A
ATOM	46859	N1	ADE	1287	253.370	111.288	-0.232	1.00	45.44	Al6s	ATOM	46912	O5' GUA	1290	255.970	107.058	10.506	1.00	91.77	A	
ATOM	46860	C6	ADE	1287	253.439	112.626	-0.065	1.00	45.44	Al6s	ATOM	46913	C5' GUA	1290	256.957	106.012	10.395	1.00	91.77	A	
ATOM	46861	N6	ADE	1287	254.640	113.197	0.066	1.00	45.44	Al6s	ATOM	46914	O4' GUA	1290	258.349	107.495	9.395	1.00	91.77	A	
ATOM	46862	C5	ADE	1287	252.233	113.341	-0.031	1.00	45.44	Al6s	ATOM	46915	O4' GUA	1290	258.571	107.495	9.395	1.00	91.77	A	
ATOM	46863	N7	ADE	1287	251.953	114.689	-0.130	1.00	45.44	Al6s	ATOM	46916	C1' GUA	1290	259.365	108.590	9.817	1.00	91.77	A	
ATOM	46864	C8	ADE	1287	250.652	114.742	0.098	1.00	45.44	Al6s	ATOM	46917	N9	GUA	1290	258.560	109.798	9.718	1.00	68.45	A
ATOM	46865	C2' ADE	1287	248.154	112.368	1.048	1.00	49.16	Al6s	ATOM	46918	C4	GUA	1290	259.019	111.088	9.757	1.00	68.45	A	
ATOM	46866	O2' ADE	1287	247.165	111.481	0.573	1.00	49.16	Al6s	ATOM	46919	N3	GUA	1290	260.304	111.466	9.886	1.00	68.45	A	
ATOM	46867	C3' ADE	1287	247.653	113.397	2.056	1.00	49.16	Al6s	ATOM	46920	C2	GUA	1290	260.431	112.781	9.896	1.00	68.45	A	
ATOM	46868	O3' ADE	1287	246.627	112.872	2.885	1.00	49.16	Al6s	ATOM	46921	N2	GUA	1290	261.641	113.336	10.019	1.00	68.45	A	
ATOM	46869	P	URI	1288	246.938	112.525	4.419	1.00	50.48	Al6s	ATOM	46922	N1	GUA	1290	259.380	113.650	9.784	1.00	68.45	A
ATOM	46870	O1P	URI	1288	245.686	112.016	5.032	1.00	58.41	Al6s	ATOM	46923	C6	GUA	1290	258.048	113.279	9.645	1.00	68.45	A

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ATOM	46924	O6	GUA	1290	257.174	114.146	9.536	1.00	68.45	Al6S	ATOM	46977	O3' GUA	1292	262.586	115.694	20.233	1.00	78.59	A	
ATOM	46925	C5	GUA	1290	257.899	111.878	9.642	1.00	68.45	Al6S	ATOM	46978	P	GUA	1293	261.691	115.731	21.564	1.00	95.18	A
ATOM	46926	N7	GUA	1290	256.758	111.101	9.536	1.00	68.45	Al6S	ATOM	46979	O1P	GUA	1293	262.632	116.052	22.666	1.00	60.08	A
ATOM	46927	C8	GUA	1290	257.198	109.875	9.582	1.00	68.45	Al6S	ATOM	46980	O2P	GUA	1293	260.892	114.469	21.623	1.00	60.08	A
ATOM	46928	C2' GUA	1290	259.760	108.343	11.268	1.00	91.77	Al6S	ATOM	46981	O5' GUA	1293	260.734	116.992	21.334	1.00	95.18	A		
ATOM	46929	O2' GUA	1290	261.026	107.718	11.301	1.00	91.77	Al6S	ATOM	46982	C5' GUA	1293	261.316	118.304	21.294	1.00	95.18	A		
ATOM	46930	C3' GUA	1290	258.626	107.443	11.736	1.00	91.77	Al6S	ATOM	46983	C4' GUA	1293	260.351	119.356	20.787	1.00	95.18	A		
ATOM	46931	O3' GUA	1290	258.978	106.685	12.885	1.00	91.77	Al6S	ATOM	46984	O4' GUA	1293	259.805	118.998	19.491	1.00	95.18	A		
ATOM	46932	P	GUA	1291	258.694	107.292	14.350	1.00	72.77	Al6S	ATOM	46985	C1' GUA	1293	258.644	119.782	19.253	1.00	95.18	A	
ATOM	46933	O1P	GUA	1291	259.218	106.282	15.321	1.00	66.47	Al6S	ATOM	46986	N9	GUA	1293	257.495	118.934	18.936	1.00	60.08	A
ATOM	46934	O2P	GUA	1291	257.273	107.716	14.429	1.00	66.47	Al6S	ATOM	46987	C4	GUA	1293	256.284	119.404	18.485	1.00	60.08	A
ATOM	46935	O5' GUA	1291	259.577	108.624	14.404	1.00	72.77	Al6S	ATOM	46988	N3	GUA	1293	255.989	120.695	18.234	1.00	60.08	A	
ATOM	46936	C5' GUA	1291	261.015	108.553	14.423	1.00	72.77	Al6S	ATOM	46989	C2	GUA	1293	254.744	120.855	17.845	1.00	60.08	A	
ATOM	46937	C4' GUA	1291	261.636	109.933	14.530	1.00	72.77	Al6S	ATOM	46990	N2	GUA	1293	254.296	122.091	17.572	1.00	60.08	A	
ATOM	46938	O4' GUA	1291	261.364	110.716	13.334	1.00	72.77	Al6S	ATOM	46991	N1	GUA	1293	253.851	119.823	17.700	1.00	60.08	A	
ATOM	46939	C1' GUA	1291	261.388	112.099	13.659	1.00	72.77	Al6S	ATOM	46992	C6	GUA	1293	254.132	118.482	17.947	1.00	60.08	A	
ATOM	46940	N9	GUA	1291	260.121	112.717	13.271	1.00	66.47	Al6S	ATOM	46993	O6	GUA	1293	253.253	117.627	17.781	1.00	60.08	A
ATOM	46941	C4	GUA	1291	259.898	114.059	13.044	1.00	66.47	Al6S	ATOM	46994	C5	GUA	1293	255.476	118.300	18.379	1.00	60.08	A
ATOM	46942	N3	GUA	1291	260.825	115.042	13.096	1.00	66.47	Al6S	ATOM	46995	N7	GUA	1293	256.168	117.146	18.734	1.00	60.08	A
ATOM	46943	C2	GUA	1291	260.296	116.232	12.847	1.00	66.47	Al6S	ATOM	46996	C8	GUA	1293	257.364	117.569	19.050	1.00	60.08	A
ATOM	46944	N2	GUA	1291	261.067	117.325	12.858	1.00	66.47	Al6S	ATOM	46997	C2' GUA	1293	258.351	120.560	20.534	1.00	95.18	A	
ATOM	46945	N1	GUA	1291	258.966	116.438	12.571	1.00	66.47	Al6S	ATOM	46998	O2' GUA	1293	258.845	121.877	20.387	1.00	95.18	A	
ATOM	46946	C6	GUA	1291	257.996	115.442	12.515	1.00	66.47	Al6S	ATOM	46999	C3' GUA	1293	259.371	120.571	22.713	1.00	95.18	A	
ATOM	46947	O6	GUA	1291	256.820	115.737	12.275	1.00	66.47	Al6S	ATOM	47000	O3' GUA	1293	258.232	120.747	23.845	1.00	84.40	A	
ATOM	46948	C5	GUA	1291	258.549	114.164	12.776	1.00	66.47	Al6S	ATOM	47001	P	URI	1294	258.887	121.351	25.025	1.00	64.99	A
ATOM	46949	N7	GUA	1291	257.942	112.918	12.806	1.00	66.47	Al6S	ATOM	47002	O1P	URI	1294	257.501	119.465	23.998	1.00	64.99	A
ATOM	46950	C8	GUA	1291	258.910	112.092	13.095	1.00	66.47	Al6S	ATOM	47003	O2P	URI	1294	257.233	121.831	23.239	1.00	84.40	A
ATOM	46951	C2' GUA	1291	261.636	112.216	15.164	1.00	72.77	Al6S	ATOM	47004	O5' URI	1294	257.691	123.161	22.963	1.00	84.40	A		
ATOM	46952	O2' GUA	1291	263.009	112.453	15.371	1.00	72.77	Al6S	ATOM	47005	C5' URI	1294	256.573	124.014	22.403	1.00	84.40	A		
ATOM	46953	C3' GUA	1291	261.208	110.841	15.673	1.00	72.77	Al6S	ATOM	47006	C4' URI	1294	256.063	123.417	21.183	1.00	84.40	A		
ATOM	46954	O3' GUA	1291	261.843	110.517	16.914	1.00	72.77	Al6S	ATOM	47007	C1' URI	1294	254.688	123.738	21.032	1.00	84.40	A		
ATOM	46955	P	GUA	1292	261.212	111.058	18.303	1.00	78.59	Al6S	ATOM	47008	O4' URI	1294	253.910	122.491	20.953	1.00	64.99	A	
ATOM	46956	O1P	GUA	1292	262.051	110.502	19.404	1.00	67.75	Al6S	ATOM	47009	N1	URI	1294	254.420	121.293	21.413	1.00	64.99	A
ATOM	46957	O2P	GUA	1292	259.749	110.789	18.300	1.00	67.75	Al6S	ATOM	47010	C6	URI	1294	252.126	123.596	20.395	1.00	64.99	A
ATOM	46958	O5' GUA	1292	261.430	112.643	18.241	1.00	78.59	Al6S	ATOM	47011	C2	URI	1294	252.636	122.555	19.990	1.00	64.99	A	
ATOM	46959	C5' GUA	1292	262.763	113.192	18.176	1.00	78.59	Al6S	ATOM	47012	O2	URI	1294	251.977	121.355	20.336	1.00	64.99	A	
ATOM	46960	C4' GUA	1292	262.742	114.699	17.997	1.00	78.59	Al6S	ATOM	47013	N3	URI	1294	252.435	120.134	20.770	1.00	64.99	A	
ATOM	46961	O4' GUA	1292	262.168	115.074	16.714	1.00	78.59	Al6S	ATOM	47014	C4	URI	1294	251.709	119.159	20.662	1.00	64.99	A	
ATOM	46962	C1' GUA	1292	261.572	116.366	16.819	1.00	78.59	Al6S	ATOM	47015	O4	URI	1294	253.742	120.146	21.341	1.00	64.99	A	
ATOM	46963	N9	GUA	1292	260.146	116.291	16.480	1.00	67.75	Al6S	ATOM	47016	C5	URI	1294	254.280	124.605	22.220	1.00	84.40	A
ATOM	46964	C4	GUA	1292	259.355	117.360	16.133	1.00	67.75	Al6S	ATOM	47017	C2' URI	1294	254.337	125.970	21.846	1.00	84.40	A	
ATOM	46965	N3	GUA	1292	259.762	118.642	16.041	1.00	67.75	Al6S	ATOM	47018	O2' URI	1294	255.331	124.221	23.256	1.00	84.40	A	
ATOM	46966	C2	GUA	1292	258.979	119.450	15.692	1.00	67.75	Al6S	ATOM	47019	C3' URI	1294	255.486	125.154	24.229	1.00	84.40	A	
ATOM	46967	N2	GUA	1292	259.012	120.772	15.574	1.00	67.75	Al6S	ATOM	47020	O3' URI	1294	254.948	126.384	26.365	1.00	52.31	A	
ATOM	46968	N1	GUA	1292	257.499	119.030	15.439	1.00	67.75	Al6S	ATOM	47021	P	CYT	1295	253.933	123.817	26.207	1.00	52.31	A
ATOM	46969	C6	GUA	1292	257.056	117.718	15.523	1.00	67.75	Al6S	ATOM	47022	O1P	CYT	1295	253.138	125.233	25.124	1.00	52.31	A
ATOM	46970	O6	GUA	1292	258.881	117.455	15.265	1.00	67.75	Al6S	ATOM	47023	O2P	CYT	1295	252.634	126.421	24.478	1.00	103.71	A
ATOM	46971	C5	GUA	1292	255.101	116.837	15.915	1.00	67.75	Al6S	ATOM	47024	O5' CYT	1295	251.192	126.234	24.039	1.00	103.71	A	
ATOM	46972	N7	GUA	1292	258.095	115.464	16.129	1.00	67.75	Al6S	ATOM	47025	C5' CYT	1295	250.097	125.300	22.926	1.00	103.71	A	
ATOM	46973	C8	GUA	1292	259.326	115.181	16.457	1.00	67.75	Al6S	ATOM	47026	C4' CYT	1295	249.854	124.612	22.987	1.00	103.71	A	
ATOM	46974	C2' GUA	1292	261.758	116.841	18.260	1.00	78.59	Al6S	ATOM	47027	O4' CYT	1295	251.097	125.300	22.926	1.00	103.71	A		
ATOM	46975	O2' GUA	1292	262.870	117.711	18.357	1.00	78.59	Al6S	ATOM	47028	C1' CYT	1295	250.096	123.160	23.133	1.00	52.31	A		
ATOM	46976	C3' GUA	1292	261.947	115.519	18.992	1.00	78.59	Al6S	ATOM	47029	N1	CYT	1295						A	

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ATOM	47030	C6	CYT	1295	251.277	122.683	23.635	1.00	52.31	Al6S	ATOM	47083	O3' GUA	1297	241.375	121.193	31.892	1.00	87.70	Al
ATOM	47031	C2	CYT	1295	249.078	122.264	22.765	1.00	52.31	Al6S	ATOM	47084	P	1298	241.794	121.179	33.447	1.00	75.46	Al
ATOM	47032	O2	CYT	1295	248.012	122.715	22.310	1.00	52.31	Al6S	ATOM	47085	O1P	1298	242.714	122.341	33.627	1.00	65.03	Al
ATOM	47033	N3	CYT	1295	249.275	120.932	22.924	1.00	52.31	Al6S	ATOM	47086	O2P	1298	240.556	121.075	34.273	1.00	65.03	Al
ATOM	47034	C4	CYT	1295	250.422	120.482	23.433	1.00	52.31	Al6S	ATOM	47087	O5' CYT	1298	242.590	119.812	33.644	1.00	75.46	Al
ATOM	47035	N4	CYT	1295	250.563	119.159	23.596	1.00	52.31	Al6S	ATOM	47088	C5' CYT	1298	243.493	119.664	34.740	1.00	75.46	Al
ATOM	47036	C5	CYT	1295	251.477	121.366	23.804	1.00	52.31	Al6S	ATOM	47089	O4' CYT	1298	243.923	118.225	34.896	1.00	75.46	Al
ATOM	47037	C2' CYT	1295	249.085	125.162	24.187	1.00	103.71	Al6S	ATOM	47090	O4' CYT	1298	242.784	117.403	35.251	1.00	75.46	Al	
ATOM	47038	O2' CYT	1295	248.219	126.192	23.748	1.00	103.71	Al6S	ATOM	47091	C1' CYT	1298	243.058	116.061	34.895	1.00	75.46	Al	
ATOM	47039	C3' CYT	1295	250.218	125.680	25.064	1.00	103.71	Al6S	ATOM	47092	N1	1298	241.894	115.487	34.196	1.00	65.03	Al	
ATOM	47040	O3' CYT	1295	249.774	126.651	25.993	1.00	103.71	Al6S	ATOM	47093	C6	1298	241.038	116.273	33.472	1.00	65.03	Al	
ATOM	47041	P	1296	249.301	126.182	27.454	1.00	91.12	Al6S	ATOM	47094	C2	1298	241.680	114.101	34.285	1.00	65.03	Al	
ATOM	47042	O1P	1296	249.294	127.404	28.285	1.00	70.05	Al6S	ATOM	47095	O2	1298	242.474	113.409	34.942	1.00	65.03	Al	
ATOM	47043	O2P	1296	250.091	125.006	27.880	1.00	70.05	Al6S	ATOM	47096	N3	1298	240.618	113.551	33.652	1.00	65.03	Al	
ATOM	47044	O5' URI	1296	247.802	125.679	27.242	1.00	91.12	Al6S	ATOM	47097	C4	1298	239.783	114.327	32.950	1.00	65.03	Al	
ATOM	47045	C5' URI	1296	246.776	126.561	26.724	1.00	91.12	Al6S	ATOM	47098	N4	1298	238.736	113.736	32.343	1.00	65.03	Al	
ATOM	47046	C4' URI	1296	245.527	125.776	26.369	1.00	91.12	Al6S	ATOM	47099	C5	1298	239.980	115.743	32.839	1.00	65.03	Al	
ATOM	47047	O4' URI	1296	245.802	124.880	25.263	1.00	91.12	Al6S	ATOM	47100	C2' CYT	1298	244.351	116.039	34.074	1.00	75.46	Al	
ATOM	47048	C1' URI	1296	244.999	123.723	25.383	1.00	91.12	Al6S	ATOM	47101	O2' CYT	1298	245.397	115.539	34.879	1.00	75.46	Al	
ATOM	47049	N1	1296	245.845	122.522	25.288	1.00	70.05	Al6S	ATOM	47102	C3' CYT	1298	244.522	117.511	33.694	1.00	75.46	Al	
ATOM	47050	C6	1296	247.168	122.531	25.662	1.00	70.05	Al6S	ATOM	47103	O3' CYT	1298	245.898	117.841	33.482	1.00	75.46	Al	
ATOM	47051	C2	1296	245.255	121.360	24.799	1.00	70.05	Al6S	ATOM	47104	P	1299	246.423	118.180	31.991	1.00	98.33	Al	
ATOM	47052	O2	1296	244.087	121.301	24.450	1.00	70.05	Al6S	ATOM	47105	O1P	1299	247.895	118.415	32.070	1.00	71.04	Al	
ATOM	47053	N3	1296	246.082	120.268	24.729	1.00	70.05	Al6S	ATOM	47106	O2P	1299	245.550	119.235	31.412	1.00	71.04	Al	
ATOM	47054	C4	1296	247.407	120.210	25.076	1.00	70.05	Al6S	ATOM	47107	O5' ADE	1299	246.204	116.821	31.187	1.00	98.33	Al	
ATOM	47055	O4	1296	248.030	119.158	24.906	1.00	70.05	Al6S	ATOM	47108	C5' ADE	1299	246.845	115.618	31.629	1.00	98.33	Al	
ATOM	47056	C5	1296	247.949	121.445	25.578	1.00	70.05	Al6S	ATOM	47109	C4' ADE	1299	246.087	114.399	31.162	1.00	98.33	Al	
ATOM	47057	C2' URI	1296	244.181	123.831	26.672	1.00	91.12	Al6S	ATOM	47110	O1' ADE	1299	244.697	114.506	31.545	1.00	98.33	Al	
ATOM	47058	O2' URI	1296	242.878	124.263	26.346	1.00	91.12	Al6S	ATOM	47111	C1' ADE	1299	243.882	113.877	30.573	1.00	98.33	Al	
ATOM	47059	C3' URI	1296	244.952	124.883	27.462	1.00	91.12	Al6S	ATOM	47112	N9	1299	242.915	114.862	30.080	1.00	71.04	Al	
ATOM	47060	O3' URI	1296	244.061	125.625	28.293	1.00	91.12	Al6S	ATOM	47113	C4	1299	241.740	114.609	29.409	1.00	71.04	Al	
ATOM	47061	P	1297	244.129	125.476	29.897	1.00	87.70	Al6S	ATOM	47114	N3	1299	241.244	113.413	29.045	1.00	71.04	Al	
ATOM	47062	O1P	1297	243.195	126.513	30.418	1.00	85.33	Al6S	ATOM	47115	C2	1299	240.078	113.560	28.413	1.00	71.04	Al	
ATOM	47063	O2P	1297	245.550	125.464	30.351	1.00	85.33	Al6S	ATOM	47116	N1	1299	239.399	114.681	28.129	1.00	71.04	Al	
ATOM	47064	O5' GUA	1297	243.519	124.038	30.212	1.00	87.70	Al6S	ATOM	47117	C6	1299	239.922	115.866	28.515	1.00	71.04	Al	
ATOM	47065	C5' GUA	1297	242.117	123.792	30.089	1.00	87.70	Al6S	ATOM	47118	N6	1299	239.244	116.986	28.245	1.00	71.04	Al	
ATOM	47066	C4' GUA	1297	241.887	122.340	29.807	1.00	87.70	Al6S	ATOM	47119	C5	1299	241.160	115.848	29.188	1.00	71.04	Al	
ATOM	47067	O4' GUA	1297	242.657	121.979	28.635	1.00	87.70	Al6S	ATOM	47120	N7	1299	241.957	116.862	29.699	1.00	71.04	Al	
ATOM	47068	C1' GUA	1297	243.111	120.646	28.757	1.00	87.70	Al6S	ATOM	47121	C8	1299	242.982	116.231	30.209	1.00	71.04	Al	
ATOM	47069	N9	1297	244.565	120.624	28.627	1.00	85.33	Al6S	ATOM	47122	C2' ADE	1299	244.805	113.276	29.507	1.00	98.33	Al	
ATOM	47070	C4	1297	245.324	119.524	28.299	1.00	85.33	Al6S	ATOM	47123	O2' ADE	1299	245.032	111.914	29.830	1.00	98.33	Al	
ATOM	47071	N3	1297	244.850	118.294	27.758	1.00	85.33	Al6S	ATOM	47124	C3' ADE	1299	246.068	113.371	29.669	1.00	98.33	Al	
ATOM	47072	C2	1297	245.822	117.436	27.457	1.00	85.33	Al6S	ATOM	47125	O3' ADE	1299	247.230	113.702	29.324	1.00	98.33	Al	
ATOM	47073	N2	1297	245.529	116.168	27.457	1.00	85.33	Al6S	ATOM	47126	P	1300	248.035	113.371	27.975	1.00	91.69	Al	
ATOM	47074	N1	1297	247.155	117.756	27.792	1.00	85.33	Al6S	ATOM	47127	O1P	1300	249.267	112.882	28.043	1.00	59.73	Al	
ATOM	47075	C6	1297	247.668	119.013	28.093	1.00	85.33	Al6S	ATOM	47128	O2P	1300	248.137	115.174	27.779	1.00	59.73	Al	
ATOM	47076	O6	1297	248.891	119.189	28.105	1.00	85.33	Al6S	ATOM	47129	O5' ADE	1300	247.119	113.099	26.821	1.00	91.69	Al	
ATOM	47077	C5	1297	246.632	119.951	28.360	1.00	85.33	Al6S	ATOM	47130	C5' ADE	1300	247.648	112.865	25.497	1.00	91.69	Al	
ATOM	47078	N7	1297	246.696	121.299	28.693	1.00	85.33	Al6S	ATOM	47131	C4' ADE	1300	246.549	112.996	24.471	1.00	91.69	Al	
ATOM	47079	C8	1297	245.448	121.658	28.833	1.00	85.33	Al6S	ATOM	47132	O4' ADE	1300	245.935	114.285	23.439	1.00	91.69	Al	
ATOM	47080	C2' GUA	1297	242.636	120.102	30.107	1.00	87.70	Al6S	ATOM	47133	C1' ADE	1300	245.160	114.861	23.439	1.00	91.69	Al	
ATOM	47081	O2' GUA	1297	241.479	119.310	29.936	1.00	87.70	Al6S	ATOM	47134	N9	1300	244.800	115.867	23.325	1.00	59.73	Al	
ATOM	47082	C3' GUA	1297	242.370	121.386	30.887	1.00	87.70	Al6S	ATOM	47135	C4	1300	243.590	116.321	22.861	1.00	59.73	Al	

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ATOM	47136	N3	ADE	1300	242.560	115.576	22.417	1.00	59.73	Al6S	ATOM	47189	OLP	CYT	1303	240.513	106.562	14.662	1.00	86.35	Al
ATOM	47137	C2	ADE	1300	241.547	116.355	22.045	1.00	59.73	Al6S	ATOM	47190	OLP	CYT	1303	239.061	107.061	16.705	1.00	86.35	Al
ATOM	47138	N1	ADE	1300	241.453	117.693	22.065	1.00	59.73	Al6S	ATOM	47191	OLP	CYT	1303	241.293	108.117	16.437	1.00	78.34	Al
ATOM	47139	C6	ADE	1300	242.505	118.413	22.517	1.00	59.73	Al6S	ATOM	47192	C5	CYT	1303	241.151	109.318	15.670	1.00	78.34	Al
ATOM	47140	N6	ADE	1300	242.408	119.748	22.527	1.00	59.73	Al6S	ATOM	47193	C4	CYT	1303	241.248	110.532	16.565	1.00	78.34	Al
ATOM	47141	C5	ADE	1300	243.645	117.702	22.946	1.00	59.73	Al6S	ATOM	47194	OLP	CYT	1303	240.194	110.467	17.559	1.00	78.34	Al
ATOM	47142	N7	ADE	1300	244.872	118.112	23.453	1.00	59.73	Al6S	ATOM	47195	C1	CYT	1303	240.752	110.625	18.848	1.00	78.34	Al
ATOM	47143	C8	ADE	1300	245.521	116.987	23.655	1.00	59.73	Al6S	ATOM	47196	N1	CYT	1303	239.940	109.868	19.820	1.00	86.35	Al
ATOM	47144	C2	ADE	1300	245.958	113.853	22.282	1.00	91.69	Al6S	ATOM	47197	C6	CYT	1303	239.370	108.670	19.485	1.00	86.35	Al
ATOM	47145	OLP	ADE	1300	245.077	113.187	21.394	1.00	91.69	Al6S	ATOM	47198	C2	CYT	1303	239.748	110.409	21.102	1.00	86.35	Al
ATOM	47146	C3	ADE	1300	246.965	112.931	23.004	1.00	91.69	Al6S	ATOM	47199	OLP	CYT	1303	240.295	111.490	21.398	1.00	86.35	Al
ATOM	47147	OLP	ADE	1300	246.867	111.582	22.548	1.00	91.69	Al6S	ATOM	47200	N3	CYT	1303	238.975	109.741	21.984	1.00	86.35	Al
ATOM	47148	P	CYT	1301	248.065	110.554	22.834	1.00	77.88	Al6S	ATOM	47201	C4	CYT	1303	238.411	108.581	21.638	1.00	86.35	Al
ATOM	47149	OLP	CYT	1301	248.070	110.313	24.295	1.00	82.57	Al6S	ATOM	47202	N4	CYT	1303	237.644	107.968	22.540	1.00	86.35	Al
ATOM	47150	OLP	CYT	1301	249.286	111.067	22.170	1.00	82.57	Al6S	ATOM	47203	C5	CYT	1303	238.605	108.002	20.354	1.00	86.35	Al
ATOM	47151	OLP	CYT	1301	247.616	109.193	22.134	1.00	77.88	Al6S	ATOM	47204	C2	CYT	1303	242.220	110.216	18.727	1.00	78.34	Al
ATOM	47152	C5	CYT	1301	248.570	108.376	21.424	1.00	77.88	Al6S	ATOM	47205	OLP	CYT	1303	242.979	110.829	19.752	1.00	78.34	Al
ATOM	47153	C4	CYT	1301	247.947	107.057	21.018	1.00	77.88	Al6S	ATOM	47206	C3	CYT	1303	242.557	110.739	17.331	1.00	78.34	Al
ATOM	47154	OLP	CYT	1301	247.784	106.215	22.187	1.00	77.88	Al6S	ATOM	47207	OLP	CYT	1303	242.772	112.146	17.441	1.00	78.34	Al
ATOM	47155	C1	CYT	1301	246.560	105.502	22.098	1.00	77.88	Al6S	ATOM	47208	P	GUA	1304	243.941	112.867	16.602	1.00	61.22	Al
ATOM	47156	N1	CYT	1301	245.683	106.005	23.169	1.00	82.57	Al6S	ATOM	47209	OLP	GUA	1304	243.713	112.612	15.162	1.00	83.15	Al
ATOM	47157	C6	CYT	1301	245.799	107.303	23.595	1.00	82.57	Al6S	ATOM	47210	OLP	GUA	1304	245.249	112.510	17.217	1.00	83.15	Al
ATOM	47158	C2	CYT	1301	244.720	105.150	23.744	1.00	82.57	Al6S	ATOM	47211	OLP	GUA	1304	243.628	114.411	16.837	1.00	61.22	Al
ATOM	47159	OLP	CYT	1301	244.629	103.966	23.357	1.00	82.57	Al6S	ATOM	47212	C5	GUA	1304	242.262	114.867	16.798	1.00	61.22	Al
ATOM	47160	N3	CYT	1301	243.916	105.642	24.708	1.00	82.57	Al6S	ATOM	47213	C4	GUA	1304	242.155	116.294	17.261	1.00	61.22	Al
ATOM	47161	C4	CYT	1301	244.036	106.917	25.102	1.00	82.57	Al6S	ATOM	47214	OLP	GUA	1304	242.494	116.401	18.663	1.00	61.22	Al
ATOM	47162	N4	CYT	1301	243.207	107.362	26.044	1.00	82.57	Al6S	ATOM	47215	C1	GUA	1304	243.034	117.691	18.919	1.00	61.22	Al
ATOM	47163	C5	CYT	1301	245.006	107.793	24.545	1.00	82.57	Al6S	ATOM	47216	N9	GUA	1304	244.354	117.545	19.535	1.00	83.15	Al
ATOM	47164	C2	CYT	1301	245.962	105.777	20.716	1.00	77.88	Al6S	ATOM	47217	C4	GUA	1304	245.120	118.563	20.062	1.00	83.15	Al
ATOM	47165	OLP	CYT	1301	246.343	104.763	19.805	1.00	77.88	Al6S	ATOM	47218	N3	GUA	1304	244.794	119.873	20.084	1.00	83.15	Al
ATOM	47166	C3	CYT	1301	246.560	107.141	20.395	1.00	77.88	Al6S	ATOM	47219	C2	GUA	1304	245.732	120.605	20.655	1.00	83.15	Al
ATOM	47167	OLP	CYT	1301	246.594	107.422	19.002	1.00	77.88	Al6S	ATOM	47220	N2	GUA	1304	245.584	121.932	20.738	1.00	83.15	Al
ATOM	47168	P	CYT	1302	245.444	108.340	18.359	1.00	80.22	Al6S	ATOM	47221	N1	GUA	1304	246.889	120.092	21.179	1.00	83.15	Al
ATOM	47169	OLP	CYT	1302	245.791	108.583	16.937	1.00	65.92	Al6S	ATOM	47222	C6	GUA	1304	247.244	118.749	21.173	1.00	83.15	Al
ATOM	47170	OLP	CYT	1302	245.189	109.495	19.255	1.00	65.92	Al6S	ATOM	47223	C6	GUA	1304	248.313	118.394	21.678	1.00	83.15	Al
ATOM	47171	OLP	CYT	1302	244.168	107.398	18.408	1.00	80.22	Al6S	ATOM	47224	C5	GUA	1304	246.256	117.951	20.548	1.00	83.15	Al
ATOM	47172	C5	CYT	1302	244.207	106.104	17.807	1.00	80.22	Al6S	ATOM	47225	N7	GUA	1304	246.215	116.581	20.323	1.00	83.15	Al
ATOM	47173	C4	CYT	1302	243.077	105.258	18.322	1.00	80.22	Al6S	ATOM	47226	C8	GUA	1304	245.074	116.385	19.719	1.00	83.15	Al
ATOM	47174	OLP	CYT	1302	243.242	105.070	19.750	1.00	80.22	Al6S	ATOM	47227	C2	GUA	1304	243.069	118.459	17.594	1.00	61.22	Al
ATOM	47175	C1	CYT	1302	241.969	104.988	20.367	1.00	65.92	Al6S	ATOM	47228	OLP	GUA	1304	241.952	119.331	17.528	1.00	61.22	Al
ATOM	47176	N1	CYT	1302	241.837	106.084	21.351	1.00	65.92	Al6S	ATOM	47229	C3	GUA	1304	243.044	117.317	16.578	1.00	61.22	Al
ATOM	47177	C6	CYT	1302	242.374	107.319	21.114	1.00	65.92	Al6S	ATOM	47230	OLP	GUA	1304	242.530	117.695	15.309	1.00	61.22	Al
ATOM	47178	C2	CYT	1302	241.125	105.839	22.534	1.00	65.92	Al6S	ATOM	47231	P	ADE	1305	243.481	117.623	14.011	1.00	70.19	Al
ATOM	47179	OLP	CYT	1302	240.946	104.705	22.738	1.00	65.92	Al6S	ATOM	47232	OLP	ADE	1305	242.605	117.497	12.812	1.00	58.10	Al
ATOM	47180	N3	CYT	1302	240.949	106.849	23.423	1.00	65.92	Al6S	ATOM	47233	OLP	ADE	1305	244.538	116.595	14.258	1.00	58.10	Al
ATOM	47181	C4	CYT	1302	241.459	108.049	23.176	1.00	65.92	Al6S	ATOM	47234	OLP	ADE	1305	244.119	119.077	13.952	1.00	70.19	Al
ATOM	47182	N4	CYT	1302	241.249	109.010	24.073	1.00	65.92	Al6S	ATOM	47235	C5	ADE	1305	243.268	120.208	13.736	1.00	70.19	Al
ATOM	47183	C5	CYT	1302	242.209	108.322	21.991	1.00	65.92	Al6S	ATOM	47236	C4	ADE	1305	243.833	121.433	14.398	1.00	70.19	Al
ATOM	47184	OLP	CYT	1302	240.914	105.088	19.265	1.00	80.22	Al6S	ATOM	47237	OLP	ADE	1305	244.011	121.193	15.818	1.00	70.19	Al
ATOM	47185	C2	CYT	1302	240.551	103.773	18.874	1.00	80.22	Al6S	ATOM	47238	C1	ADE	1305	245.177	121.861	16.273	1.00	70.19	Al
ATOM	47186	C3	CYT	1302	241.674	105.833	18.178	1.00	80.22	Al6S	ATOM	47239	N9	ADE	1305	246.118	120.846	16.745	1.00	58.10	Al
ATOM	47187	OLP	CYT	1302	241.126	105.625	16.878	1.00	80.22	Al6S	ATOM	47240	C4	ADE	1305	247.219	121.038	17.555	1.00	58.10	Al
ATOM	47188	P	CYT	1303	240.398	106.843	16.113	1.00	78.34	Al6S	ATOM	47241	N3	ADE	1305	247.673	122.199	18.075	1.00	58.10	Al

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ATOM	47242	C2	ADE	1305	248.752	121.988	18.829	1.00	58.10	A16S	ATOM	47295	O2P	CYT	1308	255.746	125.417	9.305	1.00	54.80	A1
ATOM	47243	N1	ADE	1305	249.383	120.837	19.103	1.00	58.10	A16S	ATOM	47296	O5'	CYT	1308	258.075	125.262	10.207	1.00	71.97	A1
ATOM	47244	C6	ADE	1305	248.906	119.692	18.568	1.00	58.10	A16S	ATOM	47297	C5'	CYT	1308	259.294	125.809	10.752	1.00	71.97	A1
ATOM	47245	N6	ADE	1305	249.532	118.548	18.845	1.00	58.10	A16S	ATOM	47298	C4'	CYT	1308	260.277	124.710	11.093	1.00	71.97	A1
ATOM	47246	C5	ADE	1305	247.765	119.779	17.747	1.00	58.10	A16S	ATOM	47299	O4'	CYT	1308	259.786	123.910	12.199	1.00	71.97	A1
ATOM	47247	N7	ADE	1305	247.033	118.820	17.060	1.00	58.10	A16S	ATOM	47300	C1'	CYT	1308	260.305	122.593	12.093	1.00	71.97	A1
ATOM	47248	C8	ADE	1305	246.076	119.503	16.482	1.00	58.10	A16S	ATOM	47301	N1	CYT	1308	259.200	121.623	12.089	1.00	54.80	A1
ATOM	47249	C2'	ADE	1305	245.737	122.652	15.094	1.00	70.19	A16S	ATOM	47302	C6	CYT	1308	257.964	121.946	11.591	1.00	54.80	A1
ATOM	47250	O2'	ADE	1305	245.218	123.973	15.106	1.00	70.19	A16S	ATOM	47303	C2	CYT	1308	259.447	120.333	12.591	1.00	54.80	A1
ATOM	47251	C3'	ADE	1305	245.210	121.840	13.922	1.00	70.19	A16S	ATOM	47304	O2	CYT	1308	260.568	120.071	13.050	1.00	54.80	A1
ATOM	47252	O3'	ADE	1305	245.170	122.573	12.718	1.00	70.19	A16S	ATOM	47305	N3	CYT	1308	258.462	119.724	12.559	1.00	54.80	A1
ATOM	47253	P	CYT	1306	246.429	122.507	11.736	1.00	66.45	A16S	ATOM	47306	C4	CYT	1308	257.268	119.708	12.050	1.00	54.80	A1
ATOM	47254	O1P	CYT	1306	246.104	123.301	10.525	1.00	54.38	A16S	ATOM	47307	N4	CYT	1308	256.345	118.773	12.015	1.00	54.80	A1
ATOM	47255	O2P	CYT	1306	246.850	121.074	11.612	1.00	54.38	A16S	ATOM	47308	C5	CYT	1308	256.979	121.034	11.548	1.00	54.80	A1
ATOM	47256	O5'	CYT	1306	247.561	123.281	12.541	1.00	66.45	A16S	ATOM	47309	C2'	CYT	1308	261.119	122.504	10.802	1.00	71.97	A1
ATOM	47257	C5'	CYT	1306	247.561	123.281	12.541	1.00	66.45	A16S	ATOM	47310	O2'	CYT	1308	262.500	122.587	11.103	1.00	71.97	A1
ATOM	47258	C4'	CYT	1306	248.594	125.132	13.691	1.00	66.45	A16S	ATOM	47311	C3'	CYT	1308	260.573	123.688	10.010	1.00	71.97	A1
ATOM	47259	O4'	CYT	1306	248.631	124.433	14.962	1.00	66.45	A16S	ATOM	47312	O3'	CYT	1308	261.492	124.163	9.047	1.00	71.97	A1
ATOM	47260	C1'	CYT	1306	249.973	124.183	15.332	1.00	66.45	A16S	ATOM	47313	P	CYT	1309	261.529	123.477	7.596	1.00	67.50	A1
ATOM	47261	N1	CYT	1306	250.172	122.733	15.439	1.00	54.38	A16S	ATOM	47314	O1P	CYT	1309	262.468	124.282	6.772	1.00	67.50	A1
ATOM	47262	C6	CYT	1306	249.344	121.857	14.798	1.00	54.38	A16S	ATOM	47315	O2P	CYT	1309	262.134	123.272	7.122	1.00	80.37	A1
ATOM	47263	C2	CYT	1306	251.236	122.258	16.211	1.00	54.38	A16S	ATOM	47316	O5'	CYT	1309	262.183	122.049	7.881	1.00	67.50	A1
ATOM	47264	O2	CYT	1306	251.976	123.075	16.785	1.00	54.38	A16S	ATOM	47317	C5'	CYT	1309	263.523	121.964	8.388	1.00	67.50	A1
ATOM	47265	N3	CYT	1306	251.435	120.926	16.317	1.00	54.38	A16S	ATOM	47318	C4'	CYT	1309	263.974	120.531	8.490	1.00	67.50	A1
ATOM	47266	C4	CYT	1306	250.622	120.081	15.688	1.00	54.38	A16S	ATOM	47319	O4'	CYT	1309	263.322	119.856	9.595	1.00	67.50	A1
ATOM	47267	N4	CYT	1306	250.857	118.774	15.825	1.00	54.38	A16S	ATOM	47320	C1'	CYT	1309	263.185	118.477	9.291	1.00	67.50	A1
ATOM	47268	C5	CYT	1306	249.531	120.537	14.894	1.00	54.38	A16S	ATOM	47321	N1	CYT	1309	261.760	118.106	9.375	1.00	80.37	A1
ATOM	47269	C2'	CYT	1306	250.870	124.800	14.267	1.00	66.45	A16S	ATOM	47322	C6	CYT	1309	260.774	119.045	9.229	1.00	80.37	A1
ATOM	47270	O2'	CYT	1306	251.211	126.098	14.691	1.00	66.45	A16S	ATOM	47323	C2	CYT	1309	261.427	116.761	9.597	1.00	80.37	A1
ATOM	47271	C3'	CYT	1306	249.941	124.820	13.066	1.00	66.45	A16S	ATOM	47324	O2	CYT	1309	262.338	115.930	9.724	1.00	80.37	A1
ATOM	47272	O3'	CYT	1306	250.324	125.772	12.092	1.00	66.45	A16S	ATOM	47325	N3	CYT	1309	260.124	116.403	9.663	1.00	80.37	A1
ATOM	47273	P	CYT	1307	251.343	125.329	10.936	1.00	65.80	A16S	ATOM	47326	C4	CYT	1309	259.170	117.326	9.514	1.00	80.37	A1
ATOM	47274	O1P	CYT	1307	251.326	126.390	9.909	1.00	51.22	A16S	ATOM	47327	N4	CYT	1309	257.895	116.928	9.584	1.00	80.37	A1
ATOM	47275	O2P	CYT	1307	251.048	123.928	10.556	1.00	51.22	A16S	ATOM	47328	C5	CYT	1309	259.480	118.702	9.288	1.00	80.37	A1
ATOM	47276	O5'	CYT	1307	252.756	125.308	11.663	1.00	65.80	A16S	ATOM	47329	C2'	CYT	1309	263.759	118.242	7.890	1.00	67.50	A1
ATOM	47277	C5'	CYT	1307	253.234	126.465	12.364	1.00	65.80	A16S	ATOM	47330	O2'	CYT	1309	265.048	117.666	7.993	1.00	67.50	A1
ATOM	47278	C4'	CYT	1307	254.537	126.157	13.060	1.00	65.80	A16S	ATOM	47331	C3'	CYT	1309	263.706	119.648	7.290	1.00	67.50	A1
ATOM	47279	O4'	CYT	1307	254.321	125.213	14.136	1.00	65.80	A16S	ATOM	47332	O3'	CYT	1309	264.648	119.648	6.250	1.00	67.50	A1
ATOM	47280	C1'	CYT	1307	255.471	124.407	14.292	1.00	65.80	A16S	ATOM	47333	P	ADE	1310	264.187	119.706	4.718	1.00	63.31	A1
ATOM	47281	N1	CYT	1307	255.077	122.992	14.244	1.00	51.22	A16S	ATOM	47334	O1P	ADE	1310	265.334	120.114	3.867	1.00	71.52	A1
ATOM	47282	C6	CYT	1307	253.915	122.596	13.639	1.00	51.22	A16S	ATOM	47335	O2P	ADE	1310	262.876	120.386	4.539	1.00	71.52	A1
ATOM	47283	C2	CYT	1307	256.918	122.045	14.854	1.00	51.22	A16S	ATOM	47336	O5'	ADE	1310	263.962	118.129	4.591	1.00	63.31	A1
ATOM	47284	O2	CYT	1307	256.984	122.426	15.368	1.00	51.22	A16S	ATOM	47337	C5'	ADE	1310	265.058	117.232	4.811	1.00	63.31	A1
ATOM	47285	N3	CYT	1307	255.549	120.742	14.865	1.00	51.22	A16S	ATOM	47338	C4'	ADE	1310	264.582	115.810	5.022	1.00	63.31	A1
ATOM	47286	C4	CYT	1307	254.404	120.369	14.294	1.00	51.22	A16S	ATOM	47339	O4'	ADE	1310	263.820	115.701	6.251	1.00	63.31	A1
ATOM	47287	N4	CYT	1307	254.074	119.077	14.356	1.00	51.22	A16S	ATOM	47340	C1'	ADE	1310	262.904	114.617	6.142	1.00	63.31	A1
ATOM	47288	C5	CYT	1307	256.496	124.822	13.238	1.00	65.80	A16S	ATOM	47341	N9	ADE	1310	261.537	115.126	6.278	1.00	71.52	A1
ATOM	47289	C2'	CYT	1307	255.398	125.699	13.873	1.00	65.80	A16S	ATOM	47342	C4	ADE	1310	260.414	114.346	6.427	1.00	71.52	A1
ATOM	47290	O2'	CYT	1307	257.398	125.699	13.873	1.00	65.80	A16S	ATOM	47343	N3	ADE	1310	260.359	113.006	6.537	1.00	71.52	A1
ATOM	47291	C3'	CYT	1307	255.618	125.521	12.204	1.00	65.80	A16S	ATOM	47344	C2	ADE	1310	259.096	112.592	6.616	1.00	71.52	A1
ATOM	47292	O3'	CYT	1307	256.311	126.520	11.464	1.00	65.80	A16S	ATOM	47345	N1	ADE	1310	257.969	113.311	6.596	1.00	71.52	A1
ATOM	47293	P	CYT	1308	256.807	126.199	9.974	1.00	71.97	A16S	ATOM	47346	C6	ADE	1310	258.064	114.655	6.485	1.00	71.52	A1
ATOM	47294	O1P	CYT	1308	257.268	127.473	9.368	1.00	54.80	A16S	ATOM	47347	N6	ADE	1310	256.944	115.376	6.448	1.00	71.52	A1

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ATOM	47348	C5	ADE	1310	259.345	115.218	6.404	1.00	71.52	Al6S	ATOM	47401	O5' ADE	1313	254.800	111.266	-5.249	1.00	57.10	Al	
ATOM	47349	N7	ADE	1310	259.782	116.531	6.288	1.00	71.52	Al6S	ATOM	47402	C5' ADE	1313	254.935	109.869	-4.880	1.00	57.10	Al	
ATOM	47350	C8	ADE	1310	261.086	116.424	6.228	1.00	71.52	Al6S	ATOM	47403	C4' ADE	1313	253.578	109.258	-4.626	1.00	57.10	Al	
ATOM	47351	C2' ADE	1310	263.078	114.001	4.752	1.00	63.31	Al6S	ATOM	47404	O4' ADE	1313	253.028	109.809	-3.409	1.00	57.10	Al		
ATOM	47352	O2' ADE	1310	263.905	112.855	4.818	1.00	63.31	Al6S	ATOM	47405	C1' ADE	1313	251.652	110.093	-3.584	1.00	57.10	Al		
ATOM	47353	C3' ADE	1310	263.688	115.163	3.976	1.00	63.31	Al6S	ATOM	47406	N9	ADE	1313	251.480	111.547	-3.466	1.00	52.06	Al	
ATOM	47354	O3' ADE	1310	264.374	114.716	2.816	1.00	63.31	Al6S	ATOM	47407	C4	ADE	1313	250.306	112.259	-3.477	1.00	52.06	Al	
ATOM	47355	P	URI	1311	263.633	114.802	1.393	1.00	71.93	Al6S	ATOM	47408	N3	ADE	1313	249.056	111.777	-3.594	1.00	52.06	Al
ATOM	47356	O1P URI	1311	264.555	114.363	0.302	1.00	71.60	Al6S	ATOM	47409	C2	ADE	1313	248.172	112.770	-3.575	1.00	52.06	Al	
ATOM	47357	O2P URI	1311	263.010	116.152	1.311	1.00	71.60	Al6S	ATOM	47410	N1	ADE	1313	248.381	114.090	-3.466	1.00	52.06	Al	
ATOM	47358	O5' URI	1311	262.464	113.727	1.540	1.00	71.93	Al6S	ATOM	47411	C6	ADE	1313	249.649	114.535	-3.354	1.00	52.06	Al	
ATOM	47359	C5' URI	1311	262.739	112.382	1.985	1.00	71.93	Al6S	ATOM	47412	N6	ADE	1313	249.862	115.849	-3.256	1.00	52.06	Al	
ATOM	47360	C4' URI	1311	261.451	111.593	2.124	1.00	71.93	Al6S	ATOM	47413	C5	ADE	1313	250.672	113.586	-3.352	1.00	52.06	Al	
ATOM	47361	O4' URI	1311	260.643	112.156	3.187	1.00	71.93	Al6S	ATOM	47414	N7	ADE	1313	252.044	113.709	-3.253	1.00	52.06	Al	
ATOM	47362	C1' URI	1311	259.268	112.041	2.860	1.00	71.93	Al6S	ATOM	47415	C8	ADE	1313	252.474	112.479	-3.324	1.00	52.06	Al	
ATOM	47363	N1	URI	1311	258.678	113.392	2.860	1.00	71.60	Al6S	ATOM	47416	C2' ADE	1313	251.236	109.510	-4.936	1.00	57.10	Al	
ATOM	47364	C6	URI	1311	259.448	114.502	2.585	1.00	71.60	Al6S	ATOM	47417	O2' ADE	1313	250.800	108.183	-4.735	1.00	57.10	Al	
ATOM	47365	C2	URI	1311	257.326	113.521	3.139	1.00	71.60	Al6S	ATOM	47418	C3' ADE	1313	252.548	109.553	-5.703	1.00	57.10	Al	
ATOM	47366	O2	URI	1311	256.591	112.570	3.346	1.00	71.60	Al6S	ATOM	47419	O3' ADE	1313	252.620	108.574	-6.729	1.00	57.10	Al	
ATOM	47367	N3	URI	1311	256.866	114.812	3.173	1.00	71.60	Al6S	ATOM	47420	P	ADE	1314	252.443	109.014	-8.264	1.00	63.45	Al
ATOM	47368	C4	URI	1311	257.593	115.960	2.947	1.00	71.60	Al6S	ATOM	47421	O1P ADE	1314	252.769	107.807	-9.070	1.00	49.57	Al	
ATOM	47369	O4	URI	1311	257.059	117.053	3.108	1.00	71.60	Al6S	ATOM	47422	O2P ADE	1314	253.169	110.289	-8.519	1.00	49.57	Al	
ATOM	47370	C5	URI	1311	258.963	115.743	2.623	1.00	71.60	Al6S	ATOM	47423	O5' ADE	1314	250.886	109.326	-8.384	1.00	63.45	Al	
ATOM	47371	C2' URI	1311	259.169	111.287	1.534	1.00	71.93	Al6S	ATOM	47424	C5' ADE	1314	249.910	108.275	-8.259	1.00	63.45	Al		
ATOM	47372	O2' URI	1311	259.006	109.913	1.820	1.00	71.93	Al6S	ATOM	47425	C4' ADE	1314	248.522	108.858	-8.176	1.00	63.45	Al		
ATOM	47373	C3' URI	1311	260.530	111.573	0.912	1.00	71.93	Al6S	ATOM	47426	O4' ADE	1314	248.426	109.688	-6.991	1.00	63.45	Al		
ATOM	47374	O3' URI	1311	260.907	110.554	0.003	1.00	71.93	Al6S	ATOM	47427	C1' ADE	1314	247.565	110.783	-7.246	1.00	63.45	Al		
ATOM	47375	P	GUA	1312	261.327	110.948	-1.494	1.00	71.75	Al6S	ATOM	47428	N9	ADE	1314	247.774	113.279	-6.888	1.00	49.57	Al
ATOM	47376	O1P GUA	1312	261.633	109.661	-2.174	1.00	71.71	Al6S	ATOM	47429	C4	ADE	1314	246.475	113.622	-6.908	1.00	49.57	Al	
ATOM	47377	O2P GUA	1312	262.326	112.046	-1.487	1.00	71.71	Al6S	ATOM	47430	N3	ADE	1314	247.330	114.930	-6.732	1.00	49.57	Al	
ATOM	47378	O5' GUA	1312	260.015	111.569	-2.121	1.00	77.75	Al6S	ATOM	47431	C2	ADE	1314	247.260	115.930	-6.732	1.00	49.57	Al	
ATOM	47379	C5' GUA	1312	258.771	110.918	-1.951	1.00	77.75	Al6S	ATOM	47432	N1	ADE	1314	247.426	111.022	-7.041	1.00	49.57	Al	
ATOM	47380	C4' GUA	1312	257.654	111.894	-2.144	1.00	77.75	Al6S	ATOM	47433	C6	ADE	1314	247.260	115.864	-6.551	1.00	49.57	Al	
ATOM	47381	O4' GUA	1312	257.758	112.946	-1.166	1.00	77.75	Al6S	ATOM	47434	N6	ADE	1314	248.555	115.490	-6.538	1.00	49.57	Al	
ATOM	47382	C1' GUA	1312	256.995	114.028	-1.619	1.00	77.75	Al6S	ATOM	47435	C5	ADE	1314	249.487	116.429	-6.367	1.00	49.57	Al	
ATOM	47383	N9	GUA	1312	257.519	115.286	-1.094	1.00	71.71	Al6S	ATOM	47436	N7	ADE	1314	248.844	114.129	-6.712	1.00	49.57	Al
ATOM	47384	C4	GUA	1312	256.776	116.237	-0.421	1.00	71.71	Al6S	ATOM	47437	C8	ADE	1314	250.037	113.428	-6.756	1.00	49.57	Al
ATOM	47385	N3	GUA	1312	255.458	116.149	-0.109	1.00	71.71	Al6S	ATOM	47438	C2' ADE	1314	249.666	112.185	-6.955	1.00	49.57	Al	
ATOM	47386	C2	GUA	1312	255.018	117.237	0.501	1.00	71.71	Al6S	ATOM	47439	O2' ADE	1314	247.039	110.634	-8.671	1.00	63.45	Al	
ATOM	47387	N2	GUA	1312	253.732	117.320	0.882	1.00	71.71	Al6S	ATOM	47440	C3' ADE	1314	245.812	109.938	-8.638	1.00	63.45	Al	
ATOM	47388	N1	GUA	1312	255.804	118.324	0.781	1.00	71.71	Al6S	ATOM	47441	O3' ADE	1314	248.117	109.780	-9.312	1.00	63.45	Al	
ATOM	47389	C6	GUA	1312	257.156	118.440	0.473	1.00	71.71	Al6S	ATOM	47442	P	GUA	1315	247.595	109.075	-10.420	1.00	63.45	Al
ATOM	47390	O6	GUA	1312	257.648	119.475	0.760	1.00	71.71	Al6S	ATOM	47443	O1P GUA	1315	247.830	109.650	-11.903	1.00	45.26	Al	
ATOM	47391	C5	GUA	1312	258.919	116.968	-0.174	1.00	71.71	Al6S	ATOM	47444	O2P GUA	1315	246.966	108.856	-12.831	1.00	53.18	Al	
ATOM	47392	N7	GUA	1312	258.796	115.779	-1.175	1.00	71.71	Al6S	ATOM	47445	O5' GUA	1315	249.302	109.719	-12.142	1.00	53.18	Al	
ATOM	47393	C8	GUA	1312	255.393	113.586	-3.127	1.00	77.75	Al6S	ATOM	47446	C5' GUA	1315	247.299	111.155	-11.863	1.00	45.26	Al	
ATOM	47394	C2' GUA	1312	256.765	113.869	-3.127	1.00	77.75	Al6S	ATOM	47447	C4' GUA	1315	245.911	111.450	-11.669	1.00	45.26	Al		
ATOM	47395	O2' GUA	1312	255.393	113.586	-3.259	1.00	77.75	Al6S	ATOM	47448	O4' GUA	1315	245.731	112.909	-11.340	1.00	45.26	Al		
ATOM	47396	C3' GUA	1312	257.616	112.642	-3.466	1.00	77.75	Al6S	ATOM	47449	C1' GUA	1315	246.483	113.222	-10.141	1.00	45.26	Al		
ATOM	47397	O3' GUA	1312	257.099	111.695	-4.428	1.00	77.75	Al6S	ATOM	47450	N9	GUA	1315	247.044	114.519	-10.248	1.00	45.26	Al	
ATOM	47398	P	ADE	1313	256.089	112.128	-5.619	1.00	57.10	Al6S	ATOM	47451	C4	GUA	1315	248.500	114.405	-10.149	1.00	53.18	Al
ATOM	47399	O1P ADE	1313	256.631	111.538	-6.875	1.00	52.06	Al6S	ATOM	47452	N3	GUA	1315	249.395	115.446	-10.079	1.00	53.18	Al	
ATOM	47400	O2P ADE	1313	255.746	113.576	-5.603	1.00	52.06	Al6S	ATOM	47453	C2	GUA	1315	249.083	116.756	-10.059	1.00	53.18	Al	
ATOM										Al6S	ATOM									Al	

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ATOM	47454	N2	GUA	1315	250.023	118.843	-9.951	1.00	53.18	Al6S	ATOM	47507	O2P	GUA	1318	237.767	119.220	-19.009	1.00	49.03	Al
ATOM	47455	N1	GUA	1315	251.433	117.040	-9.983	1.00	53.18	Al6S	ATOM	47508	O5'	GUA	1318	238.044	116.749	-19.067	1.00	41.41	Al
ATOM	47456	C6	GUA	1315	251.786	115.698	-10.021	1.00	53.18	Al6S	ATOM	47509	C5'	GUA	1318	238.542	115.521	-19.616	1.00	41.41	Al
ATOM	47457	O6	GUA	1315	252.989	115.374	-10.042	1.00	53.18	Al6S	ATOM	47510	C4'	GUA	1318	238.285	114.451	-18.642	1.00	41.41	Al
ATOM	47458	C5	GUA	1315	250.637	114.860	-10.054	1.00	53.18	Al6S	ATOM	47511	O4'	GUA	1318	239.130	114.656	-17.500	1.00	41.41	Al
ATOM	47459	N7	GUA	1315	250.530	113.476	-10.082	1.00	53.18	Al6S	ATOM	47512	C1'	GUA	1318	238.397	114.518	-16.309	1.00	41.41	Al
ATOM	47460	C8	GUA	1315	249.247	113.252	-10.132	1.00	53.18	Al6S	ATOM	47513	N9	GUA	1318	238.421	115.831	-15.672	1.00	49.03	Al
ATOM	47461	C2'	GUA	1315	246.577	115.120	-11.578	1.00	45.26	Al6S	ATOM	47514	C3	GUA	1318	239.510	116.416	-15.066	1.00	49.03	Al
ATOM	47462	O2'	GUA	1315	245.456	115.945	-11.349	1.00	45.26	Al6S	ATOM	47515	N3	GUA	1318	240.733	115.866	-14.929	1.00	49.03	Al
ATOM	47463	C3'	GUA	1315	246.249	113.872	-12.392	1.00	45.26	Al6S	ATOM	47516	C2	GUA	1318	241.571	116.681	-14.318	1.00	49.03	Al
ATOM	47464	O3'	GUA	1315	245.255	114.113	-13.377	1.00	45.26	Al6S	ATOM	47517	N1	GUA	1318	242.833	117.928	-13.084	1.00	49.03	Al
ATOM	47465	P	CYT	1316	245.560	113.764	-14.911	1.00	57.51	Al6S	ATOM	47518	C6	GUA	1318	241.237	117.299	-14.884	1.00	49.03	Al
ATOM	47466	O1P	CYT	1316	244.363	114.094	-15.713	1.00	54.59	Al6S	ATOM	47519	C6	GUA	1318	239.989	118.511	-14.017	1.00	49.03	Al
ATOM	47467	O2P	CYT	1316	246.139	112.390	-14.963	1.00	54.59	Al6S	ATOM	47520	O6	GUA	1318	239.796	119.652	-13.592	1.00	49.03	Al
ATOM	47468	O5'	CYT	1316	246.660	114.825	-15.332	1.00	57.51	Al6S	ATOM	47521	C5	GUA	1318	239.082	117.654	-14.662	1.00	49.03	Al
ATOM	47469	C5'	CYT	1316	246.335	116.212	-15.394	1.00	57.51	Al6S	ATOM	47522	N7	GUA	1318	237.753	117.847	-14.992	1.00	49.03	Al
ATOM	47470	C4'	CYT	1316	247.162	116.888	-16.453	1.00	57.51	Al6S	ATOM	47523	C8	GUA	1318	237.402	116.741	-15.585	1.00	49.03	Al
ATOM	47471	O4'	CYT	1316	248.557	116.812	-16.118	1.00	57.51	Al6S	ATOM	47524	C2'	GUA	1318	237.032	113.925	-16.676	1.00	41.41	Al
ATOM	47472	C1'	CYT	1316	249.318	116.825	-17.302	1.00	57.51	Al6S	ATOM	47525	O2'	GUA	1318	237.137	112.525	-16.598	1.00	41.41	Al
ATOM	47473	N1	CYT	1316	250.428	115.882	-17.126	1.00	54.59	Al6S	ATOM	47526	C3'	GUA	1318	236.859	114.391	-18.118	1.00	41.41	Al
ATOM	47474	C6	CYT	1316	250.190	114.584	-16.771	1.00	54.59	Al6S	ATOM	47527	O3'	GUA	1318	236.074	113.484	-18.900	1.00	41.41	Al
ATOM	47475	C2	CYT	1316	251.751	116.346	-17.281	1.00	54.59	Al6S	ATOM	47528	P	GUA	1319	235.200	114.033	-20.143	1.00	40.60	Al
ATOM	47476	O2	CYT	1316	251.950	117.524	-17.656	1.00	54.59	Al6S	ATOM	47529	O1P	GUA	1319	233.952	114.651	-19.610	1.00	62.80	Al
ATOM	47477	N3	CYT	1316	252.775	115.505	-17.018	1.00	54.59	Al6S	ATOM	47530	O2P	GUA	1319	236.077	114.825	-20.042	1.00	62.80	Al
ATOM	47478	C4	CYT	1316	253.527	114.249	-16.628	1.00	54.59	Al6S	ATOM	47531	O5'	GUA	1319	234.782	111.422	-20.958	1.00	40.60	Al
ATOM	47479	N4	CYT	1316	253.571	113.460	-16.337	1.00	54.59	Al6S	ATOM	47532	C5'	GUA	1319	234.941	111.472	-20.385	1.00	40.60	Al
ATOM	47480	C5	CYT	1316	251.197	113.744	-16.509	1.00	54.59	Al6S	ATOM	47533	C4'	GUA	1319	234.077	110.395	-21.087	1.00	40.60	Al
ATOM	47481	C2'	CYT	1316	248.379	116.672	-18.507	1.00	57.51	Al6S	ATOM	47534	O1'	GUA	1319	234.219	109.201	-19.277	1.00	40.60	Al
ATOM	47482	O2'	CYT	1316	247.042	116.316	-17.852	1.00	57.51	Al6S	ATOM	47535	C1'	GUA	1319	232.965	108.801	-19.780	1.00	40.60	Al
ATOM	47483	C3'	CYT	1316	248.321	117.898	-19.209	1.00	57.51	Al6S	ATOM	47536	N9	GUA	1319	232.869	109.242	-18.389	1.00	62.80	Al
ATOM	47484	O3'	CYT	1316	245.989	117.088	-18.397	1.00	57.51	Al6S	ATOM	47537	C4	GUA	1319	232.226	108.587	-17.375	1.00	62.80	Al
ATOM	47485	P	CYT	1317	245.339	116.717	-19.809	1.00	52.03	Al6S	ATOM	47538	N3	GUA	1319	231.562	107.422	-17.485	1.00	62.80	Al
ATOM	47486	O1P	CYT	1317	245.504	115.257	-20.069	1.00	72.09	Al6S	ATOM	47539	C2	GUA	1319	231.055	107.031	-16.330	1.00	62.80	Al
ATOM	47487	O2P	CYT	1317	245.851	117.710	-20.792	1.00	72.09	Al6S	ATOM	47540	N2	GUA	1319	230.365	105.886	-16.254	1.00	62.80	Al
ATOM	47488	O5'	CYT	1317	243.797	117.028	-19.542	1.00	52.03	Al6S	ATOM	47541	N1	GUA	1319	231.187	107.730	-15.163	1.00	62.80	Al
ATOM	47489	C5'	CYT	1317	243.063	116.319	-18.501	1.00	52.03	Al6S	ATOM	47542	C6	GUA	1319	231.866	108.933	-15.028	1.00	62.80	Al
ATOM	47490	C4'	CYT	1317	242.018	117.215	-17.859	1.00	52.03	Al6S	ATOM	47543	O6	GUA	1319	231.926	109.479	-13.926	1.00	62.80	Al
ATOM	47491	O4'	CYT	1317	242.589	118.026	-16.802	1.00	52.03	Al6S	ATOM	47544	C5	GUA	1319	232.415	109.365	-16.258	1.00	62.80	Al
ATOM	47492	C1'	CYT	1317	242.232	119.374	-17.002	1.00	52.03	Al6S	ATOM	47545	N7	GUA	1319	233.158	110.494	-16.563	1.00	62.80	Al
ATOM	47493	N1	CYT	1317	243.294	120.254	-16.472	1.00	72.09	Al6S	ATOM	47546	C8	GUA	1319	233.405	110.379	-17.836	1.00	62.80	Al
ATOM	47494	C6	CYT	1317	244.606	119.870	-16.489	1.00	72.09	Al6S	ATOM	47547	O2'	GUA	1319	231.916	109.397	-20.717	1.00	40.60	Al
ATOM	47495	C2	CYT	1317	242.935	121.505	-15.942	1.00	72.09	Al6S	ATOM	47548	C2'	GUA	1319	231.766	108.478	-21.771	1.00	40.60	Al
ATOM	47496	O2	CYT	1317	241.736	121.838	-15.925	1.00	72.09	Al6S	ATOM	47549	C3'	GUA	1319	232.579	110.709	-21.140	1.00	40.60	Al
ATOM	47497	N3	CYT	1317	243.901	122.319	-15.461	1.00	72.09	Al6S	ATOM	47550	O3'	GUA	1319	232.190	111.056	-22.473	1.00	40.60	Al
ATOM	47498	C4	CYT	1317	245.176	121.928	-15.486	1.00	72.09	Al6S	ATOM	47551	P	ADE	1320	230.933	112.033	-22.727	1.00	46.98	Al
ATOM	47499	N4	CYT	1317	246.096	122.764	-15.002	1.00	72.09	Al6S	ATOM	47552	O1P	ADE	1320	230.737	112.215	-24.194	1.00	50.28	Al
ATOM	47500	C5	CYT	1317	245.566	120.666	-16.008	1.00	72.09	Al6S	ATOM	47553	O2P	ADE	1320	231.138	113.222	-21.870	1.00	50.28	Al
ATOM	47501	C2'	CYT	1317	241.962	119.501	-18.495	1.00	52.03	Al6S	ATOM	47554	O5'	ADE	1320	229.679	111.227	-22.158	1.00	46.98	Al
ATOM	47502	O2'	CYT	1317	241.139	120.612	-18.739	1.00	52.03	Al6S	ATOM	47555	C4'	ADE	1320	229.102	110.143	-22.900	1.00	46.98	Al
ATOM	47503	C3'	CYT	1317	241.282	118.169	-18.783	1.00	52.03	Al6S	ATOM	47556	C5'	ADE	1320	228.099	109.396	-22.056	1.00	46.98	Al
ATOM	47504	O3'	CYT	1317	239.932	118.231	-18.341	1.00	52.03	Al6S	ATOM	47557	O4'	ADE	1320	228.770	108.814	-20.911	1.00	46.98	Al
ATOM	47505	P	GUA	1318	238.723	118.148	-19.401	1.00	41.41	Al6S	ATOM	47558	C1'	ADE	1320	227.886	108.778	-19.805	1.00	46.98	Al
ATOM	47506	O1P	GUA	1318	239.254	118.118	-20.797	1.00	49.03	Al6S	ATOM	47559	N9	ADE	1320	228.456	109.570	-18.717	1.00	50.28	Al

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ATOM	47560	C4	ADE	1320	228.355	109.315	-17.371	1.00	50.28	Al6S	ATOM	47613	C3' URI	1322	222.838	117.588	-14.740	1.00	53.19	Al
ATOM	47561	N3	ADE	1320	227.753	108.275	-15.780	1.00	50.28	Al6S	ATOM	47614	O3' URI	1322	221.734	118.094	-14.017	1.00	53.19	Al
ATOM	47562	C2	ADE	1320	227.846	108.367	-16.460	1.00	50.28	Al6S	ATOM	47615	P	1323	221.295	119.628	-14.221	1.00	46.75	Al
ATOM	47563	N1	ADE	1320	228.422	109.309	-14.719	1.00	50.28	Al6S	ATOM	47616	O1P	1323	219.879	119.755	-13.775	1.00	64.73	Al
ATOM	47564	C6	ADE	1320	229.009	110.346	-15.346	1.00	50.28	Al6S	ATOM	47617	O2P	1323	221.668	120.058	-15.590	1.00	64.73	Al
ATOM	47565	N6	ADE	1320	229.569	111.304	-14.608	1.00	50.28	Al6S	ATOM	47618	O5' CYT	1323	222.214	120.432	-13.201	1.00	46.75	Al
ATOM	47566	C5	ADE	1320	228.988	110.359	-16.744	1.00	50.28	Al6S	ATOM	47619	C5' CYT	1323	222.010	120.346	-11.777	1.00	46.75	Al
ATOM	47567	N7	ADE	1320	229.497	111.251	-17.672	1.00	50.28	Al6S	ATOM	47620	C4' CYT	1323	222.886	121.354	-11.065	1.00	46.75	Al
ATOM	47568	C8	ADE	1320	229.162	110.733	-18.823	1.00	50.28	Al6S	ATOM	47621	O4' CYT	1323	224.274	121.058	-11.377	1.00	46.75	Al
ATOM	47569	C2'	ADE	1320	226.552	109.374	-20.254	1.00	46.98	Al6S	ATOM	47622	C1' CYT	1323	225.009	122.262	-11.468	1.00	46.75	Al
ATOM	47570	O2'	ADE	1320	226.643	108.325	-20.518	1.00	46.98	Al6S	ATOM	47623	N1	1323	225.520	122.434	-12.842	1.00	64.73	Al
ATOM	47571	C3'	ADE	1320	226.968	110.218	-21.459	1.00	46.98	Al6S	ATOM	47624	C6	1323	224.962	121.779	-13.904	1.00	64.73	Al
ATOM	47572	O3'	ADE	1320	225.900	110.423	-22.385	1.00	46.98	Al6S	ATOM	47625	C2	1323	226.583	123.318	-13.044	1.00	64.73	Al
ATOM	47573	P	ADE	1321	225.310	111.904	-22.618	1.00	50.82	Al6S	ATOM	47626	O2	1323	227.090	123.880	-12.059	1.00	64.73	Al
ATOM	47574	O1P	ADE	1321	224.131	111.779	-23.504	1.00	53.89	Al6S	ATOM	47627	N3	1323	227.029	123.544	-14.297	1.00	64.73	Al
ATOM	47575	O2P	ADE	1321	226.430	112.784	-23.028	1.00	53.89	Al6S	ATOM	47628	C4	1323	226.460	122.926	-15.326	1.00	64.73	Al
ATOM	47576	O5'	ADE	1321	224.821	112.360	-21.164	1.00	50.82	Al6S	ATOM	47629	N4	1323	226.916	123.207	-16.541	1.00	64.73	Al
ATOM	47577	C5'	ADE	1321	223.847	111.581	-20.428	1.00	50.82	Al6S	ATOM	47630	C5	1323	225.394	121.997	-15.153	1.00	64.73	Al
ATOM	47578	C4'	ADE	1321	223.983	111.794	-18.924	1.00	50.82	Al6S	ATOM	47631	C2'	1323	224.039	123.407	-11.104	1.00	46.75	Al
ATOM	47579	O4'	ADE	1321	225.332	112.266	-17.375	1.00	50.82	Al6S	ATOM	47632	O2'	1323	222.712	122.818	-11.465	1.00	46.75	Al
ATOM	47580	C1'	ADE	1321	225.693	112.458	-18.484	1.00	50.82	Al6S	ATOM	47633	C3'	1323	221.637	123.456	-10.775	1.00	46.75	Al
ATOM	47581	N9	ADE	1321	226.805	113.144	-17.770	1.00	53.89	Al6S	ATOM	47634	O3' CYT	1323	221.012	124.830	-11.342	1.00	55.31	Al
ATOM	47582	C4	ADE	1321	227.576	113.908	-16.920	1.00	53.89	Al6S	ATOM	47635	P	1324	219.800	125.105	-10.552	1.00	65.05	Al
ATOM	47583	N3	ADE	1321	227.524	113.942	-15.578	1.00	53.89	Al6S	ATOM	47636	O1P	1324	220.915	124.788	-12.826	1.00	65.05	Al
ATOM	47584	C2	ADE	1321	228.384	114.833	-15.098	1.00	53.89	Al6S	ATOM	47637	O2P	1324	222.079	125.935	-10.934	1.00	55.31	Al
ATOM	47585	N1	ADE	1321	229.224	115.635	-15.751	1.00	53.89	Al6S	ATOM	47638	O5'	1324	222.529	126.063	-9.560	1.00	55.31	Al
ATOM	47586	C6	ADE	1321	230.255	115.580	-17.038	1.00	53.89	Al6S	ATOM	47639	C4'	1324	223.618	127.108	-9.458	1.00	55.31	Al
ATOM	47587	N6	ADE	1321	228.089	116.390	-17.733	1.00	53.89	Al6S	ATOM	47640	O4'	1324	224.821	126.636	-10.124	1.00	55.31	Al
ATOM	47588	C5	ADE	1321	228.191	114.353	-19.070	1.00	53.89	Al6S	ATOM	47641	N2	1324	225.441	127.715	-10.811	1.00	55.31	Al
ATOM	47589	N7	ADE	1321	227.253	113.438	-19.039	1.00	53.89	Al6S	ATOM	47642	C1'	1324	226.319	127.943	-12.233	1.00	65.05	Al
ATOM	47590	C8	ADE	1321	224.461	113.106	-17.017	1.00	50.82	Al6S	ATOM	47643	N9	1324	227.235	128.915	-12.984	1.00	65.05	Al
ATOM	47591	C2'	ADE	1321	223.693	112.438	-16.031	1.00	50.82	Al6S	ATOM	47644	C4	1324	227.862	129.247	-14.103	1.00	65.05	Al
ATOM	47592	O2'	ADE	1321	223.735	113.185	-18.355	1.00	50.82	Al6S	ATOM	47645	N3	1324	227.616	128.667	-15.318	1.00	65.05	Al
ATOM	47593	C3'	ADE	1321	222.350	113.465	-18.1275	1.00	50.82	Al6S	ATOM	47646	C2	1324	226.682	127.665	-15.551	1.00	65.05	Al
ATOM	47594	O3'	ADE	1321	221.813	114.981	-18.275	1.00	53.19	Al6S	ATOM	47647	N1	1324	226.541	127.205	-16.694	1.00	65.05	Al
ATOM	47595	P	URI	1322	220.345	114.919	-18.102	1.00	57.87	Al6S	ATOM	47648	C6	1324	225.997	127.306	-14.363	1.00	65.05	Al
ATOM	47596	O1P	URI	1322	222.381	115.639	-19.480	1.00	57.87	Al6S	ATOM	47649	N7	1324	224.997	126.368	-14.156	1.00	65.05	Al
ATOM	47597	O2P	URI	1322	222.433	115.718	-17.008	1.00	53.19	Al6S	ATOM	47650	O6	1324	224.736	126.447	-12.883	1.00	65.05	Al
ATOM	47598	O5'	URI	1322	222.145	115.277	-15.672	1.00	53.19	Al6S	ATOM	47651	C5	1324	224.638	128.988	-10.516	1.00	55.31	Al
ATOM	47599	C5'	URI	1322	222.960	116.071	-14.671	1.00	53.19	Al6S	ATOM	47652	N7	1324	225.235	129.709	-9.457	1.00	55.31	Al
ATOM	47600	C4'	URI	1322	224.378	115.812	-14.876	1.00	53.19	Al6S	ATOM	47653	C8	1324	223.275	128.420	-10.144	1.00	55.31	Al
ATOM	47601	O4'	URI	1322	225.122	116.993	-14.607	1.00	57.87	Al6S	ATOM	47654	C2'	1324	222.531	129.274	-9.291	1.00	55.31	Al
ATOM	47602	C1'	URI	1322	225.794	117.418	-15.846	1.00	57.87	Al6S	ATOM	47655	O2'	1324	221.305	130.112	-9.895	1.00	42.95	Al
ATOM	47603	N1	URI	1322	226.935	117.019	-17.075	1.00	57.87	Al6S	ATOM	47656	C3'	1324	220.412	130.480	-8.764	1.00	70.53	Al
ATOM	47604	C6	URI	1322	226.896	118.247	-15.743	1.00	57.87	Al6S	ATOM	47657	O3'	1325	220.755	129.364	-10.055	1.00	42.95	Al
ATOM	47605	C2	URI	1322	227.371	118.605	-14.676	1.00	57.87	Al6S	ATOM	47658	P	1325	221.985	131.336	-9.601	1.00	42.95	Al
ATOM	47606	O2	URI	1322	227.432	118.640	-16.942	1.00	57.87	Al6S	ATOM	47659	O1P	1325	222.716	132.336	-10.468	1.00	42.95	Al
ATOM	47607	N3	URI	1322	227.004	118.292	-18.195	1.00	57.87	Al6S	ATOM	47660	O5'	1325	223.707	133.149	-10.401	1.00	42.95	Al
ATOM	47608	C4	URI	1322	225.892	117.413	-18.219	1.00	57.87	Al6S	ATOM	47661	C5'	1325	224.683	132.257	-10.993	1.00	42.95	Al
ATOM	47609	O4	URI	1322	224.138	118.055	-14.109	1.00	53.19	Al6S	ATOM	47662	C4'	1325	225.028	132.719	-12.291	1.00	42.95	Al
ATOM	47610	C5	URI	1322						Al6S	ATOM	47663	O4' CYT	1325						Al
ATOM	47611	C2'	URI	1322						Al6S	ATOM	47664	O4' CYT	1325						Al
ATOM	47612	O2'	URI	1322						Al6S	ATOM	47665	C1' CYT	1325						Al

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ATOM	47666	N1	CYT	1325	224.617	131.707	-13.285	1.00	70.53	Al6S	ATOM	47719	O3' ADE	1327	223.861	145.558	-12.163	1.00	68.72	Al6S
ATOM	47667	C6	CYT	1325	223.711	130.731	-12.968	1.00	70.53	Al6S	ATOM	47720	P	1328	224.461	146.349	-10.868	1.00	55.17	Al6S
ATOM	47668	C2	CYT	1325	225.156	131.774	-14.579	1.00	70.53	Al6S	ATOM	47721	O1P GUA	1328	223.261	146.974	-10.252	1.00	72.86	Al6S
ATOM	47669	O2	CYT	1325	225.986	132.655	-14.843	1.00	70.53	Al6S	ATOM	47722	O2P GUA	1328	225.603	147.208	-11.247	1.00	72.86	Al6S
ATOM	47670	N3	CYT	1325	224.756	130.882	-15.508	1.00	70.53	Al6S	ATOM	47723	O5' GUA	1328	224.961	145.211	-9.862	1.00	55.17	Al6S
ATOM	47671	C4	CYT	1325	223.859	129.950	-15.191	1.00	70.53	Al6S	ATOM	47724	C5' GUA	1328	225.774	145.499	-8.674	1.00	55.17	Al6S
ATOM	47672	N4	CYT	1325	223.479	129.106	-16.147	1.00	70.53	Al6S	ATOM	47725	C4' GUA	1328	227.089	144.762	-8.786	1.00	55.17	Al6S
ATOM	47673	C5	CYT	1325	223.309	129.844	-13.879	1.00	70.53	Al6S	ATOM	47726	O4' GUA	1328	227.962	145.580	-9.585	1.00	55.17	Al6S
ATOM	47674	C2' CYT	1325	224.295	134.040	-12.529	1.00	42.95	Al6S	ATOM	47727	C1' GUA	1328	229.256	145.066	-9.468	1.00	55.17	Al6S	
ATOM	47675	O2' CYT	1325	225.141	135.131	-12.243	1.00	42.95	Al6S	ATOM	47728	N9 GUA	1328	230.251	146.107	-9.680	1.00	72.86	Al6S	
ATOM	47676	C3' CYT	1325	223.115	133.908	-11.579	1.00	42.95	Al6S	ATOM	47729	C4' GUA	1328	231.340	145.092	-10.679	1.00	72.86	Al6S	
ATOM	47677	O3' CYT	1325	222.588	135.165	-11.206	1.00	42.95	Al6S	ATOM	47730	N3 GUA	1328	231.340	145.114	-11.593	1.00	72.86	Al6S	
ATOM	47678	P	1326	221.368	135.787	-12.041	1.00	50.81	Al6S	ATOM	47731	C2' GUA	1328	232.307	145.382	-12.444	1.00	72.86	Al6S	
ATOM	47679	O1P URI	1326	220.912	136.978	-11.288	1.00	61.06	Al6S	ATOM	47732	N2 GUA	1328	232.597	144.510	-13.418	1.00	72.86	Al6S	
ATOM	47680	O2P URI	1326	220.399	134.713	-12.379	1.00	61.06	Al6S	ATOM	47733	N1 GUA	1328	233.061	146.524	-12.405	1.00	72.86	Al6S	
ATOM	47681	O5' URI	1326	222.040	136.282	-13.389	1.00	50.81	Al6S	ATOM	47734	C6 GUA	1328	233.615	147.547	-11.477	1.00	72.86	Al6S	
ATOM	47682	C5' URI	1326	223.103	137.228	-13.351	1.00	50.81	Al6S	ATOM	47735	O6 GUA	1328	233.642	148.542	-11.546	1.00	72.86	Al6S	
ATOM	47683	C4' URI	1326	222.860	138.309	-14.364	1.00	50.81	Al6S	ATOM	47736	C5 GUA	1328	231.881	147.265	-10.549	1.00	72.86	Al6S	
ATOM	47684	O4' URI	1326	223.049	137.768	-15.701	1.00	50.81	Al6S	ATOM	47737	N7 GUA	1328	230.443	147.998	-9.471	1.00	72.86	Al6S	
ATOM	47685	C1' URI	1326	221.949	138.135	-16.493	1.00	50.81	Al6S	ATOM	47738	C8 GUA	1328	229.326	144.176	-8.231	1.00	55.17	Al6S	
ATOM	47686	N1 URI	1326	221.773	137.162	-17.580	1.00	61.06	Al6S	ATOM	47739	C2' GUA	1328	229.326	144.176	-8.231	1.00	55.17	Al6S	
ATOM	47687	C6 URI	1326	220.908	136.087	-17.489	1.00	61.06	Al6S	ATOM	47740	O2' GUA	1328	229.371	142.870	-8.767	1.00	55.17	Al6S	
ATOM	47688	C2 URI	1326	222.499	137.392	-18.727	1.00	61.06	Al6S	ATOM	47741	C3' GUA	1328	227.966	144.409	-7.579	1.00	55.17	Al6S	
ATOM	47689	O2 URI	1326	223.300	138.304	-18.826	1.00	61.06	Al6S	ATOM	47742	O3' GUA	1328	227.426	143.235	-6.909	1.00	55.17	Al6S	
ATOM	47690	N3 URI	1326	222.252	136.518	-19.755	1.00	61.06	Al6S	ATOM	47743	P	1329	228.324	141.891	-6.615	1.00	55.54	Al6S	
ATOM	47691	C4 URI	1326	221.381	135.452	-19.745	1.00	61.06	Al6S	ATOM	47744	O1P URI	1329	227.871	141.374	-5.286	1.00	65.67	Al6S	
ATOM	47692	O4 URI	1326	221.197	134.823	-20.783	1.00	61.06	Al6S	ATOM	47745	O2P URI	1329	229.775	142.010	-6.858	1.00	65.67	Al6S	
ATOM	47693	C5 URI	1326	220.693	135.251	-18.507	1.00	61.06	Al6S	ATOM	47746	O5' URI	1329	227.736	140.852	-7.670	1.00	55.54	Al6S	
ATOM	47694	C2' URI	1326	220.772	138.337	-15.540	1.00	50.81	Al6S	ATOM	47747	C5' URI	1329	226.369	140.383	-7.517	1.00	55.54	Al6S	
ATOM	47695	O2' URI	1326	219.804	139.158	-16.181	1.00	50.81	Al6S	ATOM	47748	C4' URI	1329	225.988	139.439	-8.625	1.00	55.54	Al6S	
ATOM	47696	C3' URI	1326	221.477	138.973	-14.336	1.00	50.81	Al6S	ATOM	47749	O4' URI	1329	226.391	140.152	-9.881	1.00	55.54	Al6S	
ATOM	47697	O3' URI	1326	221.636	140.372	-14.593	1.00	50.81	Al6S	ATOM	47750	C1' URI	1329	226.391	139.323	-10.919	1.00	55.54	Al6S	
ATOM	47698	P	1327	221.387	141.446	-13.432	1.00	68.72	Al6S	ATOM	47751	N1 URI	1329	227.509	140.020	-11.573	1.00	65.67	Al6S	
ATOM	47699	O1P ADE	1327	220.888	140.764	-12.218	1.00	58.79	Al6S	ATOM	47752	C6 URI	1329	228.073	141.142	-11.016	1.00	65.67	Al6S	
ATOM	47700	O2P ADE	1327	220.597	142.527	-14.047	1.00	58.79	Al6S	ATOM	47753	C2 URI	1329	227.965	139.529	-12.770	1.00	65.67	Al6S	
ATOM	47701	O5' ADE	1327	222.842	142.012	-13.136	1.00	68.72	Al6S	ATOM	47754	O2 URI	1329	227.537	138.519	-13.274	1.00	65.67	Al6S	
ATOM	47702	C5' ADE	1327	223.246	142.351	-11.806	1.00	68.72	Al6S	ATOM	47755	N3 URI	1329	228.960	140.261	-13.354	1.00	65.67	Al6S	
ATOM	47703	C4' ADE	1327	224.522	143.147	-11.843	1.00	68.72	Al6S	ATOM	47756	C4 URI	1329	229.550	141.394	-12.865	1.00	65.67	Al6S	
ATOM	47704	O4' ADE	1327	225.558	142.301	-12.391	1.00	68.72	Al6S	ATOM	47757	O4 URI	1329	230.399	141.971	-13.541	1.00	65.67	Al6S	
ATOM	47705	C1' ADE	1327	226.510	143.108	-13.054	1.00	68.72	Al6S	ATOM	47758	C5 URI	1329	229.053	141.822	-11.604	1.00	65.67	Al6S	
ATOM	47706	N9 ADE	1327	226.939	142.470	-14.298	1.00	58.79	Al6S	ATOM	47759	C2' URI	1329	226.736	137.953	-10.314	1.00	55.54	Al6S	
ATOM	47707	C4 ADE	1327	227.939	142.952	-15.108	1.00	58.79	Al6S	ATOM	47760	O2' URI	1329	225.629	137.088	-10.465	1.00	55.54	Al6S	
ATOM	47708	N3 ADE	1327	228.667	144.063	-14.924	1.00	58.79	Al6S	ATOM	47761	C3' URI	1329	226.958	138.297	-8.850	1.00	55.54	Al6S	
ATOM	47709	C2 ADE	1327	229.543	144.221	-15.910	1.00	58.79	Al6S	ATOM	47762	O3' URI	1329	226.605	137.218	-7.999	1.00	55.54	Al6S	
ATOM	47710	N1 ADE	1327	229.760	143.457	-16.980	1.00	58.79	Al6S	ATOM	47763	P	1330	227.747	136.263	-7.411	1.00	54.53	Al6S	
ATOM	47711	C6 ADE	1327	229.016	142.350	-17.142	1.00	58.79	Al6S	ATOM	47764	O1P ADE	1330	227.109	135.208	-6.575	1.00	64.56	Al6S	
ATOM	47712	N6 ADE	1327	229.240	141.599	-18.217	1.00	58.79	Al6S	ATOM	47765	O2P ADE	1330	228.799	137.117	-6.575	1.00	64.56	Al6S	
ATOM	47713	C5 ADE	1327	228.042	142.062	-16.156	1.00	58.79	Al6S	ATOM	47766	O5' ADE	1330	228.344	135.591	-8.727	1.00	54.53	Al6S	
ATOM	47714	N7 ADE	1327	227.119	141.032	-16.012	1.00	58.79	Al6S	ATOM	47767	C5' ADE	1330	227.562	134.640	-9.475	1.00	54.53	Al6S	
ATOM	47715	C8 ADE	1327	226.491	141.324	-14.898	1.00	58.79	Al6S	ATOM	47768	O4' ADE	1330	228.293	134.191	-10.720	1.00	54.53	Al6S	
ATOM	47716	C2' ADE	1327	225.981	144.543	-13.171	1.00	68.72	Al6S	ATOM	47769	C4' ADE	1330	228.389	135.288	-11.657	1.00	54.53	Al6S	
ATOM	47717	O2' ADE	1327	226.794	145.407	-12.394	1.00	68.72	Al6S	ATOM	47770	C1' ADE	1330	229.573	135.156	-12.415	1.00	54.53	Al6S	
ATOM	47718	C3' ADE	1327	224.523	144.389	-12.737	1.00	68.72	Al6S	ATOM	47771	N9 ADE	1330	230.369	136.373	-12.250	1.00	64.56	Al6S	

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ATOM	47772	C4	ADE	1330	231.533	136.656	-12.922	1.00	64.56	A16S	ATOM	47825	C3' URI	1332	239.629	133.348	-7.410	1.00	49.65	A1
ATOM	47773	N3	ADE	1330	232.140	135.898	-13.850	1.00	64.56	A16S	ATOM	47826	O3' URI	1332	240.866	132.723	-7.113	1.00	49.65	A1
ATOM	47774	C2	ADE	1330	233.245	136.485	-14.280	1.00	64.56	A16S	ATOM	47827	P	1333	241.202	132.306	-5.598	1.00	51.88	A1
ATOM	47775	N1	ADE	1330	233.783	137.649	-13.909	1.00	64.56	A16S	ATOM	47828	O1P	1333	242.469	131.525	-5.660	1.00	90.90	A1
ATOM	47776	C6	ADE	1330	233.159	138.378	-12.964	1.00	64.56	A16S	ATOM	47829	O2P	1333	240.008	131.704	-4.959	1.00	90.90	A1
ATOM	47777	N6	ADE	1330	233.721	139.520	-12.574	1.00	64.56	A16S	ATOM	47830	O5' CYT	1333	241.474	133.710	-4.889	1.00	51.88	A1
ATOM	47778	C5	ADE	1330	231.958	137.875	-12.441	1.00	64.56	A16S	ATOM	47831	C5' CYT	1333	242.616	134.520	-5.258	1.00	51.88	A1
ATOM	47779	N7	ADE	1330	231.068	138.368	-11.496	1.00	64.56	A16S	ATOM	47832	C4' CYT	1333	242.714	135.743	-4.374	1.00	51.88	A1
ATOM	47780	C8	ADE	1330	230.146	137.443	-11.419	1.00	64.56	A16S	ATOM	47833	O4' CYT	1333	241.772	136.760	-4.802	1.00	51.88	A1
ATOM	47781	C2'	ADE	1330	230.296	133.890	-11.948	1.00	54.53	A16S	ATOM	47834	C1' CYT	1333	241.274	137.456	-3.670	1.00	51.88	A1
ATOM	47782	O2'	ADE	1330	229.983	133.847	-12.845	1.00	54.53	A16S	ATOM	47835	N1	1333	239.807	137.265	-3.592	1.00	90.90	A1
ATOM	47783	C3'	ADE	1330	229.712	133.684	-10.556	1.00	54.53	A16S	ATOM	47836	C6	1333	239.163	136.405	-4.439	1.00	90.90	A1
ATOM	47784	O3'	ADE	1330	229.723	132.318	-10.177	1.00	54.53	A16S	ATOM	47837	C2	1333	239.078	137.966	-2.612	1.00	90.90	A1
ATOM	47785	P	ADE	1331	230.858	131.786	-9.172	1.00	49.02	A16S	ATOM	47838	O2	1333	239.671	138.759	-1.865	1.00	90.90	A1
ATOM	47786	O1P	ADE	1331	230.774	130.310	-9.029	1.00	56.49	A16S	ATOM	47839	N3	1333	237.747	137.758	-2.507	1.00	90.90	A1
ATOM	47787	O2P	ADE	1331	230.806	132.628	-7.961	1.00	56.49	A16S	ATOM	47840	C4	1333	237.845	136.193	-4.340	1.00	90.90	A1
ATOM	47788	O5'	ADE	1331	232.217	132.149	-9.919	1.00	49.02	A16S	ATOM	47841	N4	1333	235.825	136.716	-3.170	1.00	90.90	A1
ATOM	47789	C5'	ADE	1331	232.637	131.468	-11.117	1.00	49.02	A16S	ATOM	47842	C5	1333	237.138	136.901	-3.327	1.00	90.90	A1
ATOM	47790	O4'	ADE	1331	233.911	132.094	-11.645	1.00	49.02	A16S	ATOM	47843	C2' CYT	1333	241.991	136.898	-2.434	1.00	51.88	A1
ATOM	47791	C1'	ADE	1331	233.616	133.417	-12.170	1.00	49.02	A16S	ATOM	47844	O2' CYT	1333	243.085	137.726	-2.109	1.00	51.88	A1
ATOM	47792	C1'	ADE	1331	234.656	134.314	-11.813	1.00	49.02	A16S	ATOM	47845	C3' CYT	1333	242.412	135.512	-2.905	1.00	51.88	A1
ATOM	47793	N9	ADE	1331	234.095	135.296	-10.881	1.00	56.49	A16S	ATOM	47846	O3' CYT	1333	243.546	135.021	-2.201	1.00	51.88	A1
ATOM	47794	C4	ADE	1331	234.676	136.466	-10.446	1.00	56.49	A16S	ATOM	47847	P	1334	243.358	133.883	-1.084	1.00	55.09	A1
ATOM	47795	N3	ADE	1331	235.870	136.968	-10.797	1.00	56.49	A16S	ATOM	47848	O1P	1334	244.655	133.170	-0.946	1.00	76.06	A1
ATOM	47796	C2	ADE	1331	236.099	138.115	-10.174	1.00	56.49	A16S	ATOM	47849	O2P	1334	242.127	133.119	-1.412	1.00	76.06	A1
ATOM	47797	N1	ADE	1331	235.336	138.769	-9.298	1.00	56.49	A16S	ATOM	47850	O5' GUA	1334	243.089	134.678	0.269	1.00	55.09	A1
ATOM	47798	C6	ADE	1331	234.148	138.240	-8.958	1.00	56.49	A16S	ATOM	47851	C5' GUA	1334	244.164	135.354	0.946	1.00	55.09	A1
ATOM	47799	N6	ADE	1331	233.395	138.890	-8.070	1.00	56.49	A16S	ATOM	47852	C4' GUA	1334	243.687	136.677	1.511	1.00	55.09	A1
ATOM	47800	C5	ADE	1331	233.778	137.025	-9.560	1.00	56.49	A16S	ATOM	47853	O4' GUA	1334	242.760	137.280	0.569	1.00	55.09	A1
ATOM	47801	N7	ADE	1331	232.645	136.232	-9.446	1.00	56.49	A16S	ATOM	47854	C1' GUA	1334	241.777	138.011	1.273	1.00	55.09	A1
ATOM	47802	C8	ADE	1331	232.881	135.227	-10.246	1.00	56.49	A16S	ATOM	47855	N9	1334	240.465	137.450	0.956	1.00	76.06	A1
ATOM	47803	C2'	ADE	1331	235.774	133.485	-11.173	1.00	49.02	A16S	ATOM	47856	C4	1334	239.250	138.005	1.276	1.00	76.06	A1
ATOM	47804	O2'	ADE	1331	236.673	133.050	-12.172	1.00	49.02	A16S	ATOM	47857	N3	1334	239.060	139.154	1.952	1.00	76.06	A1
ATOM	47805	C3'	ADE	1331	234.997	132.316	-10.600	1.00	49.02	A16S	ATOM	47858	C2	1334	237.782	139.425	2.117	1.00	76.06	A1
ATOM	47806	O3'	ADE	1331	235.820	131.179	-10.447	1.00	49.02	A16S	ATOM	47859	N2	1334	237.416	140.521	2.786	1.00	76.06	A1
ATOM	47807	P	URI	1332	236.229	130.694	-8.975	1.00	49.65	A16S	ATOM	47860	N1	1334	236.766	138.642	1.644	1.00	76.06	A1
ATOM	47808	O1P	URI	1332	236.859	129.352	-9.079	1.00	80.40	A16S	ATOM	47861	C6	1334	236.931	137.459	0.943	1.00	76.06	A1
ATOM	47809	O2P	URI	1332	235.064	130.887	-8.080	1.00	80.40	A16S	ATOM	47862	O6	1334	235.939	136.834	0.559	1.00	76.06	A1
ATOM	47810	O5'	URI	1332	237.337	131.738	-8.523	1.00	49.65	A16S	ATOM	47863	C5	1334	238.307	137.143	0.768	1.00	76.06	A1
ATOM	47811	C5'	URI	1332	238.559	131.885	-9.265	1.00	49.65	A16S	ATOM	47864	N7	1334	238.915	136.060	0.283	1.00	76.06	A1
ATOM	47812	C4'	URI	1332	239.271	133.163	-8.875	1.00	49.65	A16S	ATOM	47865	C8	1334	240.193	136.283	0.283	1.00	76.06	A1
ATOM	47813	O4'	URI	1332	238.439	134.309	-9.210	1.00	49.65	A16S	ATOM	47866	C2' GUA	1334	242.122	137.939	2.761	1.00	55.09	A1
ATOM	47814	C1'	URI	1332	238.618	135.328	-8.243	1.00	49.65	A16S	ATOM	47867	O2' GUA	1334	242.912	139.061	3.085	1.00	55.09	A1
ATOM	47815	N1	URI	1332	237.308	135.598	-7.616	1.00	80.40	A16S	ATOM	47868	C3' GUA	1334	242.938	136.656	2.833	1.00	55.09	A1
ATOM	47816	C6	URI	1332	236.429	134.579	-7.308	1.00	80.40	A16S	ATOM	47869	O3' GUA	1334	243.840	136.731	3.917	1.00	55.09	A1
ATOM	47817	C2	URI	1332	236.973	136.913	-7.353	1.00	80.40	A16S	ATOM	47870	P	1335	243.383	136.242	5.374	1.00	49.32	A1
ATOM	47818	O2	URI	1332	237.713	137.847	-7.589	1.00	80.40	A16S	ATOM	47871	O1P	1335	244.679	136.352	6.261	1.00	81.16	A1
ATOM	47819	N3	URI	1332	235.733	137.098	-6.800	1.00	80.40	A16S	ATOM	47872	O2P	1335	242.515	137.332	5.843	1.00	49.32	A1
ATOM	47820	C4	URI	1332	234.814	136.134	-6.482	1.00	80.40	A16S	ATOM	47873	O5' CYT	1335	242.315	137.332	6.200	1.00	49.32	A1
ATOM	47821	O4	URI	1332	233.740	136.472	-5.995	1.00	80.40	A16S	ATOM	47874	C5' CYT	1335	242.725	138.679	6.714	1.00	49.32	A1
ATOM	47822	C5	URI	1332	235.227	134.799	-6.767	1.00	80.40	A16S	ATOM	47875	C4' CYT	1335	241.550	139.494	6.714	1.00	49.32	A1
ATOM	47823	C2'	URI	1332	239.720	134.863	-7.283	1.00	49.65	A16S	ATOM	47876	O4' CYT	1335	240.682	139.921	5.625	1.00	49.32	A1
ATOM	47824	O2'	URI	1332	240.969	135.333	-7.747	1.00	49.65	A16S	ATOM	47877	C1' CYT	1335	239.329	139.883	6.057	1.00	49.32	A1

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ATOM	47878	N1	CYT	1335	238.645	138.755	5.377	1.00	81.16	Al6S	ATOM	47931	C8	GUA	1337	234.033	135.305	12.589	1.00	79.41	A
ATOM	47879	C6	CYT	1335	239.372	137.748	4.803	1.00	81.16	Al6S	ATOM	47932	C2'	GUA	1337	231.579	136.036	14.944	1.00	68.42	A
ATOM	47880	C2	CYT	1335	237.228	138.706	5.355	1.00	81.16	Al6S	ATOM	47933	C3'	GUA	1337	230.347	136.631	15.293	1.00	68.42	A
ATOM	47881	O2	CYT	1335	236.569	139.634	5.861	1.00	81.16	Al6S	ATOM	47934	O2'	GUA	1337	232.738	136.578	15.771	1.00	68.42	A
ATOM	47882	N3	CYT	1335	236.624	137.641	4.784	1.00	81.16	Al6S	ATOM	47935	O3'	GUA	1337	232.345	136.828	17.119	1.00	68.42	A
ATOM	47883	C4	CYT	1335	237.356	136.660	4.249	1.00	81.16	Al6S	ATOM	47936	P	ADE	1338	232.705	135.761	18.272	1.00	62.77	A
ATOM	47884	N4	CYT	1335	236.716	135.621	3.714	1.00	81.16	Al6S	ATOM	47937	O1P	ADE	1338	232.860	136.567	19.508	1.00	91.25	A
ATOM	47885	C5	CYT	1335	238.776	136.697	4.241	1.00	81.16	Al6S	ATOM	47938	O2P	ADE	1338	233.812	134.876	17.825	1.00	91.25	A
ATOM	47886	C2'	CYT	1335	239.353	139.607	7.562	1.00	49.32	Al6S	ATOM	47939	O5'	ADE	1338	231.401	134.857	18.430	1.00	62.77	A
ATOM	47887	O2'	CYT	1335	239.413	140.837	8.257	1.00	49.32	Al6S	ATOM	47940	C5'	ADE	1338	230.087	135.448	18.594	1.00	62.77	A
ATOM	47888	C3'	CYT	1335	240.629	138.798	7.699	1.00	49.32	Al6S	ATOM	47941	C4'	ADE	1338	229.022	134.550	17.992	1.00	62.77	A
ATOM	47889	O3'	CYT	1335	241.131	138.823	9.015	1.00	49.32	Al6S	ATOM	47942	O4'	ADE	1338	229.216	134.466	16.558	1.00	62.77	A
ATOM	47890	P	GUA	1336	240.733	137.650	10.034	1.00	65.93	Al6S	ATOM	47943	C1'	ADE	1338	228.914	133.158	16.109	1.00	62.77	A
ATOM	47891	O1P	GUA	1336	241.701	137.650	11.165	1.00	77.81	Al6S	ATOM	47944	N9	ADE	1338	230.116	132.592	15.493	1.00	91.25	A
ATOM	47892	O2P	GUA	1336	240.534	136.411	9.247	1.00	77.81	Al6S	ATOM	47945	C4	ADE	1338	230.161	131.534	14.617	1.00	91.25	A
ATOM	47893	O5'	GUA	1336	239.319	138.107	10.596	1.00	65.93	Al6S	ATOM	47946	N3	ADE	1338	229.126	130.825	14.141	1.00	91.25	A
ATOM	47894	C5'	GUA	1336	239.154	139.393	11.214	1.00	65.93	Al6S	ATOM	47947	C2	ADE	1338	229.551	129.862	13.331	1.00	91.25	A
ATOM	47895	C4'	GUA	1336	237.694	139.654	11.497	1.00	65.93	Al6S	ATOM	47948	N1	ADE	1338	230.796	129.549	12.970	1.00	91.25	A
ATOM	47896	O4'	GUA	1336	236.962	139.682	10.243	1.00	65.93	Al6S	ATOM	47949	C6	ADE	1338	231.813	130.282	13.464	1.00	91.25	A
ATOM	47897	C1'	GUA	1336	235.680	139.100	10.421	1.00	65.93	Al6S	ATOM	47950	N6	ADE	1338	233.054	129.967	13.105	1.00	91.25	A
ATOM	47898	N9	GUA	1336	235.604	137.886	9.602	1.00	77.81	Al6S	ATOM	47951	C5	ADE	1338	231.497	131.335	14.332	1.00	91.25	A
ATOM	47899	C4	GUA	1336	234.483	137.114	9.369	1.00	77.81	Al6S	ATOM	47952	N7	ADE	1338	232.285	132.261	15.001	1.00	91.25	A
ATOM	47900	N3	GUA	1336	233.238	137.362	9.823	1.00	77.81	Al6S	ATOM	47953	C8	ADE	1338	231.421	132.982	15.671	1.00	91.25	A
ATOM	47901	C2	GUA	1336	232.385	136.425	9.457	1.00	77.81	Al6S	ATOM	47954	C2'	ADE	1338	228.415	132.349	17.311	1.00	62.77	A
ATOM	47902	N2	GUA	1336	231.110	136.509	9.824	1.00	77.81	Al6S	ATOM	47955	O2'	ADE	1338	227.003	132.382	17.349	1.00	62.77	A
ATOM	47903	N1	GUA	1336	232.717	135.335	8.705	1.00	77.81	Al6S	ATOM	47956	C3'	ADE	1338	229.027	133.108	18.480	1.00	62.77	A
ATOM	47904	C6	GUA	1336	233.985	135.057	8.221	1.00	77.81	Al6S	ATOM	47957	O3'	ADE	1338	228.207	132.971	19.628	1.00	62.77	A
ATOM	47905	O6	GUA	1336	234.174	134.039	7.547	1.00	77.81	Al6S	ATOM	47958	P	URI	1339	228.864	132.614	21.044	1.00	59.44	A
ATOM	47906	C5	GUA	1336	234.920	136.035	8.605	1.00	77.81	Al6S	ATOM	47959	O1P	URI	1339	227.845	132.966	22.068	1.00	79.10	A
ATOM	47907	N7	GUA	1336	236.278	136.166	8.339	1.00	77.81	Al6S	ATOM	47960	O2P	URI	1339	230.217	133.222	21.103	1.00	79.10	A
ATOM	47908	C8	GUA	1336	236.639	137.266	8.941	1.00	77.81	Al6S	ATOM	47961	O5'	URI	1339	229.045	131.035	21.032	1.00	59.44	A
ATOM	47909	C2'	GUA	1336	235.531	138.796	11.914	1.00	65.93	Al6S	ATOM	47962	C5'	URI	1339	227.919	130.162	20.862	1.00	59.44	A
ATOM	47910	O2'	GUA	1336	234.946	139.904	12.572	1.00	65.93	Al6S	ATOM	47963	C4'	URI	1339	228.371	128.864	20.250	1.00	59.44	A
ATOM	47911	C3'	GUA	1336	236.979	138.602	12.331	1.00	65.93	Al6S	ATOM	47964	O4'	URI	1339	228.944	129.124	18.951	1.00	59.44	A
ATOM	47912	O3'	GUA	1336	237.157	138.798	13.724	1.00	65.93	Al6S	ATOM	47965	C1'	URI	1339	229.864	128.094	18.650	1.00	59.44	A
ATOM	47913	P	GUA	1337	237.027	137.548	14.723	1.00	68.42	Al6S	ATOM	47966	N1	URI	1339	231.006	128.656	17.914	1.00	79.10	A
ATOM	47914	O1P	GUA	1337	237.458	137.999	16.065	1.00	79.41	Al6S	ATOM	47967	C6	URI	1339	231.482	127.861	16.944	1.00	79.10	A
ATOM	47915	O2P	GUA	1337	237.687	136.372	14.101	1.00	79.41	Al6S	ATOM	47968	C2	URI	1339	231.590	127.861	16.944	1.00	79.10	A
ATOM	47916	O5'	GUA	1337	235.457	137.277	14.791	1.00	68.42	Al6S	ATOM	47969	O2	URI	1339	231.191	126.745	16.673	1.00	79.10	A
ATOM	47917	C5'	GUA	1337	234.537	138.326	15.182	1.00	68.42	Al6S	ATOM	47970	N3	URI	1339	232.661	128.419	16.302	1.00	79.10	A
ATOM	47918	C4'	GUA	1337	233.102	137.861	15.036	1.00	68.42	Al6S	ATOM	47971	C4	URI	1339	233.196	129.661	16.520	1.00	79.10	A
ATOM	47919	O4'	GUA	1337	232.835	137.584	13.638	1.00	68.42	Al6S	ATOM	47972	O4	URI	1339	234.202	130.000	15.904	1.00	79.10	A
ATOM	47920	C1'	GUA	1337	231.973	136.463	13.529	1.00	68.42	Al6S	ATOM	47973	C5	URI	1339	233.528	130.431	17.523	1.00	79.10	A
ATOM	47921	N9	GUA	1337	232.675	135.412	12.793	1.00	79.41	Al6S	ATOM	47974	C2'	URI	1339	230.191	127.335	19.943	1.00	59.44	A
ATOM	47922	C4	GUA	1337	232.105	134.322	12.167	1.00	79.41	Al6S	ATOM	47975	O2'	URI	1339	229.701	126.009	19.915	1.00	59.44	A
ATOM	47923	N3	GUA	1337	230.786	134.029	12.120	1.00	79.41	Al6S	ATOM	47976	C3'	URI	1339	229.491	128.174	21.006	1.00	59.44	A
ATOM	47924	C2	GUA	1337	230.555	132.909	11.459	1.00	79.41	Al6S	ATOM	47977	O3'	URI	1339	228.938	127.328	21.995	1.00	59.44	A
ATOM	47925	N2	GUA	1337	229.307	132.465	11.320	1.00	79.41	Al6S	ATOM	47978	P	CYT	1340	229.435	127.463	22.508	1.00	69.98	A
ATOM	47926	N1	GUA	1337	231.535	132.143	10.889	1.00	79.41	Al6S	ATOM	47979	O1P	CYT	1340	228.880	126.332	24.316	1.00	50.28	A
ATOM	47927	C6	GUA	1337	232.894	132.425	10.920	1.00	79.41	Al6S	ATOM	47980	O2P	CYT	1340	229.152	128.871	23.902	1.00	50.28	A
ATOM	47928	O6	GUA	1337	233.692	131.665	10.372	1.00	79.41	Al6S	ATOM	47981	O5'	CYT	1340	231.008	127.286	23.385	1.00	69.98	A
ATOM	47929	C5	GUA	1337	233.161	133.618	11.625	1.00	79.41	Al6S	ATOM	47982	C5'	CYT	1340	231.585	126.046	22.950	1.00	69.98	A
ATOM	47930	N7	GUA	1337	234.367	134.249	11.897	1.00	79.41	Al6S	ATOM	47983	C4'	CYT	1340	233.033	126.255	22.586	1.00	69.98	A

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ATOM	47984	O4' CYT	1340	233.112	127.097	21.412	1.00	69.98	Al6S	ATOM	48037	N7 GUA	1342	237.738	123.809	22.957	1.00	75.23	Al
ATOM	47985	C1' CYT	1340	234.270	127.897	21.480	1.00	69.98	Al6S	ATOM	48038	C8 GUA	1342	238.965	124.247	22.903	1.00	75.23	Al
ATOM	47986	N1 CYT	1340	233.901	129.304	21.259	1.00	50.28	Al6S	ATOM	48039	C2' GUA	1342	241.715	123.648	21.032	1.00	64.14	Al
ATOM	47987	C6 CYT	1340	232.745	129.835	21.768	1.00	50.28	Al6S	ATOM	48040	O2' GUA	1342	242.929	123.000	20.713	1.00	64.14	Al
ATOM	47988	C2 CYT	1340	234.756	130.093	20.484	1.00	50.28	Al6S	ATOM	48041	C3' GUA	1342	241.795	125.169	21.006	1.00	64.14	Al
ATOM	47989	O2 CYT	1340	235.827	129.593	20.069	1.00	50.28	Al6S	ATOM	48042	O3' GUA	1342	242.666	125.655	20.000	1.00	64.14	Al
ATOM	47990	N3 CYT	1340	234.406	131.376	20.200	1.00	50.28	Al6S	ATOM	48043	P CYT	1343	242.056	126.422	18.731	1.00	72.07	Al
ATOM	47991	C4 CYT	1340	233.255	131.873	20.663	1.00	50.28	Al6S	ATOM	48044	O1P CYT	1343	243.191	126.990	17.950	1.00	69.09	Al
ATOM	47992	N4 CYT	1340	232.924	133.127	20.299	1.00	50.28	Al6S	ATOM	48045	O2P CYT	1343	240.971	127.324	19.202	1.00	69.09	Al
ATOM	47993	C5 CYT	1340	232.385	131.104	21.499	1.00	50.28	Al6S	ATOM	48046	O5' CYT	1343	241.396	125.238	17.892	1.00	72.07	Al
ATOM	47994	C2' CYT	1340	234.993	127.591	22.789	1.00	69.98	Al6S	ATOM	48047	C5' CYT	1343	242.212	124.173	17.372	1.00	72.07	Al
ATOM	47995	O2' CYT	1340	236.006	126.660	22.479	1.00	69.98	Al6S	ATOM	48048	C4' CYT	1343	241.361	122.997	16.946	1.00	72.07	Al
ATOM	47996	C3' CYT	1340	233.875	126.980	23.623	1.00	69.98	Al6S	ATOM	48049	O4' CYT	1343	240.699	122.417	18.102	1.00	72.07	Al
ATOM	47997	O3' CYT	1340	234.342	126.079	24.627	1.00	69.98	Al6S	ATOM	48050	C1' CYT	1343	239.459	121.858	17.707	1.00	72.07	Al
ATOM	47998	P ADE	1341	234.902	126.659	26.025	1.00	66.68	Al6S	ATOM	48051	N1 CYT	1343	238.363	122.505	18.459	1.00	69.09	Al
ATOM	47999	O1P ADE	1341	234.102	127.856	26.404	1.00	63.34	Al6S	ATOM	48052	C6 CYT	1343	237.402	123.839	18.758	1.00	69.09	Al
ATOM	48000	O2P ADE	1341	235.012	125.506	26.972	1.00	63.34	Al6S	ATOM	48053	C2 CYT	1343	237.260	121.725	18.858	1.00	69.09	Al
ATOM	48001	O5' ADE	1341	236.363	127.172	25.641	1.00	66.68	Al6S	ATOM	48054	O2 CYT	1343	237.237	120.513	18.568	1.00	69.09	Al
ATOM	48002	C5' ADE	1341	237.145	127.968	26.545	1.00	66.68	Al6S	ATOM	48055	N3 CYT	1343	236.246	122.312	19.543	1.00	69.09	Al
ATOM	48003	C4' ADE	1341	238.543	127.406	26.650	1.00	66.68	Al6S	ATOM	48056	C4 CYT	1343	236.300	123.616	19.827	1.00	69.09	Al
ATOM	48004	O4' ADE	1341	238.510	126.129	27.334	1.00	66.68	Al6S	ATOM	48057	N4 CYT	1343	235.282	124.153	20.503	1.00	69.09	Al
ATOM	48005	C1' ADE	1341	239.502	125.275	26.795	1.00	66.68	Al6S	ATOM	48058	C5 CYT	1343	237.402	124.430	19.430	1.00	69.09	Al
ATOM	48006	N9 ADE	1341	238.882	123.984	26.475	1.00	63.34	Al6S	ATOM	48059	O2' CYT	1343	239.327	122.054	16.199	1.00	72.07	Al
ATOM	48007	C4 ADE	1341	239.513	122.814	26.119	1.00	63.34	Al6S	ATOM	48060	C2' CYT	1343	239.798	123.864	15.610	1.00	72.07	Al
ATOM	48008	N3 ADE	1341	240.822	122.625	25.903	1.00	63.34	Al6S	ATOM	48061	C3' CYT	1343	240.239	123.255	15.953	1.00	72.07	Al
ATOM	48009	C2 ADE	1341	241.075	121.343	25.649	1.00	63.34	Al6S	ATOM	48062	O3' CYT	1343	240.724	123.347	14.607	1.00	72.07	Al
ATOM	48010	N1 ADE	1341	240.231	120.304	25.594	1.00	63.34	Al6S	ATOM	48063	P CYT	1344	239.741	123.848	13.416	1.00	59.12	Al
ATOM	48011	C6 ADE	1341	238.920	120.530	25.810	1.00	63.34	Al6S	ATOM	48064	O1P CYT	1344	240.516	124.742	12.501	1.00	64.63	Al
ATOM	48012	N6 ADE	1341	238.077	119.493	25.768	1.00	63.34	Al6S	ATOM	48065	O2P CYT	1344	238.483	124.348	14.013	1.00	64.63	Al
ATOM	48013	C5 ADE	1341	238.522	121.848	26.078	1.00	63.34	Al6S	ATOM	48066	O5' CYT	1344	239.421	122.493	12.642	1.00	59.12	Al
ATOM	48014	N7 ADE	1341	237.281	122.406	26.339	1.00	63.34	Al6S	ATOM	48067	C5' CYT	1344	239.958	120.274	13.151	1.00	59.12	Al
ATOM	48015	C8 ADE	1341	237.545	123.674	26.551	1.00	63.34	Al6S	ATOM	48068	O4' CYT	1344	239.501	120.067	12.380	1.00	59.12	Al
ATOM	48016	C2' ADE	1341	240.223	126.025	25.675	1.00	66.68	Al6S	ATOM	48069	O4' CYT	1344	239.957	118.964	13.186	1.00	59.12	Al
ATOM	48017	O2' ADE	1341	241.413	126.568	26.204	1.00	66.68	Al6S	ATOM	48070	C1' CYT	1344	239.021	117.935	13.153	1.00	59.12	Al
ATOM	48018	C3' ADE	1341	239.222	127.120	25.326	1.00	66.68	Al6S	ATOM	48071	N1 CYT	1344	238.781	117.490	14.529	1.00	64.63	Al
ATOM	48019	O3' ADE	1341	239.948	128.549	24.852	1.00	66.68	Al6S	ATOM	48072	C6 CYT	1344	238.101	118.257	15.436	1.00	64.63	Al
ATOM	48020	P GUA	1342	240.921	129.643	23.012	1.00	75.23	Al6S	ATOM	48073	C2 CYT	1344	239.266	116.242	14.891	1.00	64.63	Al
ATOM	48021	O1P GUA	1342	239.948	128.549	23.277	1.00	64.14	Al6S	ATOM	48074	O2 CYT	1344	239.928	115.595	14.051	1.00	64.63	Al
ATOM	48022	O2P GUA	1342	238.545	128.699	22.810	1.00	75.23	Al6S	ATOM	48075	N3 CYT	1344	239.021	115.767	16.140	1.00	64.63	Al
ATOM	48023	O5' GUA	1342	240.567	127.187	22.721	1.00	64.14	Al6S	ATOM	48076	C4 CYT	1344	238.339	116.507	17.013	1.00	64.63	Al
ATOM	48024	C5' GUA	1342	241.966	126.889	22.917	1.00	64.14	Al6S	ATOM	48077	N4 CYT	1344	238.106	115.986	18.219	1.00	64.63	Al
ATOM	48025	C4' GUA	1342	242.307	125.506	22.395	1.00	64.14	Al6S	ATOM	48078	C5 CYT	1344	237.862	117.809	16.682	1.00	64.63	Al
ATOM	48026	O4' GUA	1342	241.746	124.494	23.263	1.00	64.14	Al6S	ATOM	48079	C2' CYT	1344	237.833	118.346	12.280	1.00	59.12	Al
ATOM	48027	C1' GUA	1342	241.327	123.385	22.490	1.00	64.14	Al6S	ATOM	48080	O2' CYT	1344	237.958	117.869	11.033	1.00	59.12	Al
ATOM	48028	N9 GUA	1342	239.882	123.250	22.649	1.00	75.23	Al6S	ATOM	48081	C3' CYT	1344	238.001	119.864	12.181	1.00	59.12	Al
ATOM	48029	C4 GUA	1342	239.169	122.085	22.549	1.00	75.23	Al6S	ATOM	48082	O3' CYT	1344	237.722	120.250	10.823	1.00	59.12	Al
ATOM	48030	N3 GUA	1342	239.686	120.865	22.307	1.00	75.23	Al6S	ATOM	48083	P ADE	1345	236.296	120.867	10.405	1.00	64.49	Al
ATOM	48031	C2 GUA	1342	238.753	119.939	22.259	1.00	75.23	Al6S	ATOM	48084	O1P ADE	1345	235.416	120.979	11.597	1.00	93.60	Al
ATOM	48032	N2 GUA	1342	239.090	118.660	22.041	1.00	75.23	Al6S	ATOM	48085	O2P ADE	1345	235.833	120.104	9.227	1.00	93.60	Al
ATOM	48033	N1 GUA	1342	237.416	120.192	22.424	1.00	75.23	Al6S	ATOM	48086	O5' ADE	1345	236.681	122.329	9.912	1.00	64.49	Al
ATOM	48034	C6 GUA	1342	236.861	121.438	22.663	1.00	75.23	Al6S	ATOM	48087	C5' ADE	1345	237.227	122.549	8.597	1.00	64.49	Al
ATOM	48035	O6 GUA	1342	235.640	121.550	22.779	1.00	75.23	Al6S	ATOM	48088	C4' ADE	1345	237.181	124.022	8.271	1.00	64.49	Al
ATOM	48036	C5 GUA	1342	237.852	122.443	22.732	1.00	75.23	Al6S	ATOM	48089	O4' ADE	1345	235.868	124.506	8.650	1.00	64.49	Al

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ATOM	48090	C1' ADE	1345	235.976	125.458	9.688	1.00	64.49	Al6S	ATOM	48143	C8 GUA	1347	233.284	125.597	7.321	1.00	71.34	Al
ATOM	48091	N9 ADE	1345	234.923	125.162	10.662	1.00	93.60	Al6S	ATOM	48144	C2' GUA	1347	230.086	124.854	6.044	1.00	44.80	Al
ATOM	48092	C4 ADE	1345	234.648	125.841	11.824	1.00	93.60	Al6S	ATOM	48145	O2' GUA	1347	228.949	124.018	6.025	1.00	44.80	Al
ATOM	48093	N3 ADE	1345	235.276	126.927	12.305	1.00	93.60	Al6S	ATOM	48146	C3' GUA	1347	230.697	125.016	4.662	1.00	44.80	Al
ATOM	48094	C2 ADE	1345	234.744	127.300	13.464	1.00	93.60	Al6S	ATOM	48147	O3' GUA	1347	229.693	125.061	3.671	1.00	44.80	Al
ATOM	48095	N1 ADE	1345	233.734	126.751	14.149	1.00	93.60	Al6S	ATOM	48148	P	1348	229.120	126.478	3.201	1.00	48.46	Al
ATOM	48096	C6 ADE	1345	233.127	125.656	13.639	1.00	93.60	Al6S	ATOM	48149	O1P CYT	1348	228.055	126.256	2.191	1.00	78.93	Al
ATOM	48097	N6 ADE	1345	232.128	125.095	14.324	1.00	93.60	Al6S	ATOM	48150	O2P CYT	1348	230.272	127.359	2.871	1.00	78.93	Al
ATOM	48098	C5 ADE	1345	233.593	125.167	12.411	1.00	93.60	Al6S	ATOM	48151	O5' CYT	1348	228.420	127.024	4.520	1.00	48.46	Al
ATOM	48099	N7 ADE	1345	233.197	124.095	11.628	1.00	93.60	Al6S	ATOM	48152	C5' CYT	1348	227.298	126.326	5.112	1.00	48.46	Al
ATOM	48100	C8 ADE	1345	234.011	124.136	10.606	1.00	93.60	Al6S	ATOM	48153	C4' CYT	1348	226.776	127.095	6.301	1.00	48.46	Al
ATOM	48101	C2' ADE	1345	237.395	125.344	10.250	1.00	64.49	Al6S	ATOM	48154	O4' CYT	1348	227.726	126.995	7.388	1.00	48.46	Al
ATOM	48102	O2' ADE	1345	237.840	126.590	10.755	1.00	64.49	Al6S	ATOM	48155	C1' CYT	1348	227.806	128.240	8.062	1.00	48.46	Al
ATOM	48103	C3' ADE	1345	238.183	124.886	9.025	1.00	64.49	Al6S	ATOM	48156	N1 CYT	1348	229.199	128.744	7.966	1.00	78.93	Al
ATOM	48104	O3' ADE	1345	238.481	126.027	8.215	1.00	64.49	Al6S	ATOM	48157	C6 CYT	1348	230.026	128.334	6.957	1.00	78.93	Al
ATOM	48105	P	1346	239.568	125.917	7.035	1.00	61.68	Al6S	ATOM	48158	C2 CYT	1348	229.666	129.657	8.931	1.00	78.93	Al
ATOM	48106	O1P URI	1346	240.001	127.304	6.667	1.00	68.67	Al6S	ATOM	48159	O2 CYT	1348	228.902	130.033	9.834	1.00	78.93	Al
ATOM	48107	O2P URI	1346	240.572	124.913	7.494	1.00	68.67	Al6S	ATOM	48160	N3 CYT	1348	230.936	130.110	8.848	1.00	78.93	Al
ATOM	48108	O5' URI	1346	238.771	125.278	5.811	1.00	61.68	Al6S	ATOM	48161	C4 CYT	1348	231.730	129.695	7.864	1.00	78.93	Al
ATOM	48109	C5' URI	1346	238.419	126.037	4.626	1.00	61.68	Al6S	ATOM	48162	N4 CYT	1348	232.976	130.160	7.836	1.00	78.93	Al
ATOM	48110	C4' URI	1346	237.646	125.143	3.690	1.00	61.68	Al6S	ATOM	48163	C5' CYT	1348	231.284	128.781	6.870	1.00	78.93	Al
ATOM	48111	O4' URI	1346	238.545	124.122	3.213	1.00	61.68	Al6S	ATOM	48164	C2' CYT	1348	226.772	129.182	7.435	1.00	48.46	Al
ATOM	48112	C1' URI	1346	237.947	122.848	3.321	1.00	61.68	Al6S	ATOM	48165	O2' CYT	1348	225.561	129.147	8.157	1.00	48.46	Al
ATOM	48113	N1 URI	1346	238.899	121.961	3.997	1.00	68.67	Al6S	ATOM	48166	C3' CYT	1348	226.606	128.583	6.054	1.00	48.46	Al
ATOM	48114	C6 URI	1346	239.704	122.418	5.008	1.00	68.67	Al6S	ATOM	48167	O3' CYT	1348	225.336	128.890	5.525	1.00	48.46	Al
ATOM	48115	C2 URI	1346	238.967	120.652	3.568	1.00	68.67	Al6S	ATOM	48168	P	1349	225.152	130.218	4.648	1.00	49.17	Al
ATOM	48116	O2 URI	1346	238.260	120.212	2.673	1.00	68.67	Al6S	ATOM	48169	O1P CYT	1349	223.785	130.203	4.081	1.00	73.65	Al
ATOM	48117	N3 URI	1346	239.894	119.877	4.222	1.00	68.67	Al6S	ATOM	48170	O2P CYT	1349	226.326	130.329	3.745	1.00	73.65	Al
ATOM	48118	C4 URI	1346	240.739	120.277	5.238	1.00	68.67	Al6S	ATOM	48171	O5' CYT	1349	225.230	131.407	5.704	1.00	49.17	Al
ATOM	48119	O4 URI	1346	241.532	119.467	5.727	1.00	68.67	Al6S	ATOM	48172	C5' CYT	1349	224.173	131.625	6.664	1.00	49.17	Al
ATOM	48120	C5 URI	1346	240.597	121.645	5.623	1.00	68.67	Al6S	ATOM	48173	C4' CYT	1349	224.514	132.786	7.568	1.00	49.17	Al
ATOM	48121	C2' URI	1346	236.557	122.973	3.953	1.00	61.68	Al6S	ATOM	48174	O4' CYT	1349	225.643	132.450	8.417	1.00	49.17	Al
ATOM	48122	O2' URI	1346	235.510	122.547	3.111	1.00	61.68	Al6S	ATOM	48175	C1' CYT	1349	226.453	133.597	8.608	1.00	49.17	Al
ATOM	48123	C3' URI	1346	236.542	124.420	4.440	1.00	61.68	Al6S	ATOM	48176	N1 CYT	1349	227.808	133.329	8.088	1.00	73.65	Al
ATOM	48124	O3' URI	1346	235.316	125.159	4.381	1.00	61.68	Al6S	ATOM	48177	C6 CYT	1349	228.113	132.148	7.472	1.00	73.65	Al
ATOM	48125	P	1347	234.621	125.524	2.964	1.00	44.80	Al6S	ATOM	48178	C2 CYT	1349	228.786	134.322	8.232	1.00	73.65	Al
ATOM	48126	O1P GUA	1347	235.096	124.618	1.913	1.00	71.34	Al6S	ATOM	48179	O2 CYT	1349	228.480	135.396	8.776	1.00	73.65	Al
ATOM	48127	O2P GUA	1347	234.694	126.991	2.735	1.00	71.34	Al6S	ATOM	48180	N3 CYT	1349	230.034	134.091	7.766	1.00	73.65	Al
ATOM	48128	O5' GUA	1347	233.096	125.184	3.269	1.00	44.80	Al6S	ATOM	48181	C4 CYT	1349	230.319	132.935	7.167	1.00	73.65	Al
ATOM	48129	C5' GUA	1347	232.689	123.822	3.533	1.00	44.80	Al6S	ATOM	48182	N4 CYT	1349	231.564	132.754	6.725	1.00	73.65	Al
ATOM	48130	C4' GUA	1347	231.569	123.779	4.547	1.00	44.80	Al6S	ATOM	48183	C5 CYT	1349	229.342	131.915	6.997	1.00	73.65	Al
ATOM	48131	O4' GUA	1347	232.079	123.552	5.884	1.00	44.80	Al6S	ATOM	48184	C2' CYT	1349	225.803	134.763	7.866	1.00	49.17	Al
ATOM	48132	C1' GUA	1347	231.227	124.188	6.825	1.00	44.80	Al6S	ATOM	48185	O2' CYT	1349	225.068	133.542	8.778	1.00	49.17	Al
ATOM	48133	N9 GUA	1347	232.006	125.168	7.586	1.00	71.34	Al6S	ATOM	48186	C3' CYT	1349	224.944	134.043	6.842	1.00	49.17	Al
ATOM	48134	C4 GUA	1347	231.589	125.867	8.703	1.00	71.34	Al6S	ATOM	48187	O3' CYT	1349	223.848	134.826	6.454	1.00	49.17	Al
ATOM	48135	N3 GUA	1347	230.387	125.756	9.312	1.00	71.34	Al6S	ATOM	48188	P	1350	223.964	135.705	5.133	1.00	54.35	Al
ATOM	48136	C2 GUA	1347	230.278	126.579	10.342	1.00	71.34	Al6S	ATOM	48189	O1P GUA	1350	222.724	136.528	5.010	1.00	67.51	Al
ATOM	48137	N2 GUA	1347	229.149	126.604	11.065	1.00	71.34	Al6S	ATOM	48190	O2P GUA	1350	224.316	134.753	4.062	1.00	67.51	Al
ATOM	48138	N1 GUA	1347	231.268	127.439	10.739	1.00	71.34	Al6S	ATOM	48191	O5' GUA	1350	225.231	136.652	5.395	1.00	54.35	Al
ATOM	48139	C6 GUA	1347	232.511	127.570	10.124	1.00	71.34	Al6S	ATOM	48192	C5' GUA	1350	225.088	137.860	6.170	1.00	54.35	Al
ATOM	48140	O6 GUA	1347	233.332	128.388	10.555	1.00	71.34	Al6S	ATOM	48193	C4' GUA	1350	226.426	138.521	6.483	1.00	54.35	Al
ATOM	48141	C5 GUA	1347	232.642	126.695	9.026	1.00	71.34	Al6S	ATOM	48194	O4' GUA	1350	227.377	137.580	7.055	1.00	54.35	Al
ATOM	48142	N7 GUA	1347	233.701	126.512	8.151	1.00	71.34	Al6S	ATOM	48195	C1' GUA	1350	228.688	138.113	6.922	1.00	54.35	Al

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ATOM	48196	N9	GUA	1350	229.564	137.155	6.247	1.00	67.51	Al6s	ATOM	48249	C8	GUA	1352	233.447	142.618	0.723	1.00	91.25	Al
ATOM	48197	C4	GUA	1350	230.939	137.265	6.117	1.00	67.51	Al6s	ATOM	48250	C2	GUA	1352	235.554	145.402	0.065	1.00	62.24	Al
ATOM	48198	N3	GUA	1350	231.712	138.265	6.606	1.00	67.51	Al6s	ATOM	48251	O2	GUA	1352	236.640	146.177	0.515	1.00	62.24	Al
ATOM	48199	C2	GUA	1350	232.989	138.100	6.299	1.00	67.51	Al6s	ATOM	48252	C3	GUA	1352	234.298	146.246	-0.107	1.00	62.24	Al
ATOM	48200	N2	GUA	1350	233.098	138.999	6.688	1.00	67.51	Al6s	ATOM	48253	O3	GUA	1352	234.647	147.540	-0.602	1.00	62.24	Al
ATOM	48201	N1	GUA	1350	233.470	137.043	5.582	1.00	67.51	Al6s	ATOM	48254	P	GUA	1352	234.911	147.767	-2.175	1.00	53.22	Al
ATOM	48202	C6	GUA	1350	232.702	136.001	5.076	1.00	67.51	Al6s	ATOM	48255	O1P	GUA	1353	235.333	149.167	-2.373	1.00	77.02	Al
ATOM	48203	O6	GUA	1350	233.248	135.089	4.450	1.00	67.51	Al6s	ATOM	48256	O2P	GUA	1353	233.748	147.245	-2.938	1.00	77.02	Al
ATOM	48204	C5	GUA	1350	231.324	136.165	5.388	1.00	67.51	Al6s	ATOM	48257	O5	GUA	1353	236.180	146.842	-2.472	1.00	53.22	Al
ATOM	48205	N7	GUA	1350	230.228	135.371	5.073	1.00	67.51	Al6s	ATOM	48258	C5	GUA	1353	237.493	147.219	-1.997	1.00	53.22	Al
ATOM	48206	C8	GUA	1350	229.209	135.994	5.603	1.00	67.51	Al6s	ATOM	48259	C4	GUA	1353	238.581	146.412	-2.682	1.00	53.22	Al
ATOM	48207	C2	GUA	1350	228.579	139.408	6.116	1.00	54.35	Al6s	ATOM	48260	O4	GUA	1353	238.593	145.039	-2.214	1.00	53.22	Al
ATOM	48208	O2	GUA	1350	228.596	140.494	7.028	1.00	54.35	Al6s	ATOM	48261	C1	GUA	1353	239.019	144.191	-3.269	1.00	53.22	Al
ATOM	48209	C3	GUA	1350	227.234	139.242	5.411	1.00	54.35	Al6s	ATOM	48262	N9	GUA	1353	237.981	143.196	-3.525	1.00	77.02	Al
ATOM	48210	O3	GUA	1350	226.709	140.530	5.086	1.00	54.35	Al6s	ATOM	48263	C4	GUA	1353	238.150	141.991	-4.166	1.00	77.02	Al
ATOM	48211	P	CYT	1351	227.322	141.359	3.840	1.00	53.75	Al6s	ATOM	48264	N3	GUA	1353	239.313	141.503	-4.646	1.00	77.02	Al
ATOM	48212	O1P	CYT	1351	226.633	142.674	3.742	1.00	76.91	Al6s	ATOM	48265	C2	GUA	1353	239.157	140.342	-5.214	1.00	77.02	Al
ATOM	48213	O2P	CYT	1351	227.339	140.455	2.662	1.00	76.91	Al6s	ATOM	48266	N2	GUA	1353	240.220	139.679	-5.714	1.00	77.02	Al
ATOM	48214	O5	CYT	1351	228.835	141.640	4.262	1.00	53.75	Al6s	ATOM	48267	N1	GUA	1353	237.951	139.680	-5.327	1.00	77.02	Al
ATOM	48215	C5	CYT	1351	229.154	142.569	5.322	1.00	53.75	Al6s	ATOM	48268	C6	GUA	1353	236.738	140.166	-4.851	1.00	77.02	Al
ATOM	48216	C4	CYT	1351	230.620	142.949	5.280	1.00	53.75	Al6s	ATOM	48269	O6	GUA	1353	235.702	139.509	-5.014	1.00	77.02	Al
ATOM	48217	O4	CYT	1351	231.459	141.810	5.607	1.00	53.75	Al6s	ATOM	48270	C5	GUA	1353	236.896	141.425	-4.215	1.00	77.02	Al
ATOM	48218	C1	CYT	1351	232.661	141.877	4.857	1.00	53.75	Al6s	ATOM	48271	N7	GUA	1353	235.961	142.247	-3.602	1.00	77.02	Al
ATOM	48219	N1	CYT	1351	232.758	140.674	4.002	1.00	76.91	Al6s	ATOM	48272	C8	GUA	1353	236.649	143.282	-3.207	1.00	77.02	Al
ATOM	48220	C6	CYT	1351	231.700	139.815	3.865	1.00	76.91	Al6s	ATOM	48273	C2	GUA	1353	239.297	145.063	-4.501	1.00	53.22	Al
ATOM	48221	C2	CYT	1351	233.958	140.426	3.318	1.00	76.91	Al6s	ATOM	48274	O2	GUA	1353	240.673	145.344	-4.605	1.00	53.22	Al
ATOM	48222	O2	CYT	1351	234.908	141.212	3.460	1.00	76.91	Al6s	ATOM	48275	C3	GUA	1353	238.506	146.320	-4.194	1.00	53.22	Al
ATOM	48223	N3	CYT	1351	234.050	139.335	2.520	1.00	76.91	Al6s	ATOM	48276	O3	GUA	1353	239.150	147.424	-4.774	1.00	53.22	Al
ATOM	48224	C4	CYT	1351	233.011	138.506	2.396	1.00	76.91	Al6s	ATOM	48277	P	URI	1354	238.556	148.073	-6.105	1.00	55.15	Al
ATOM	48225	N4	CYT	1351	233.149	137.446	1.601	1.00	76.91	Al6s	ATOM	48278	O1P	URI	1354	239.320	149.311	-6.383	1.00	94.23	Al
ATOM	48226	C5	CYT	1351	231.784	138.729	3.081	1.00	76.91	Al6s	ATOM	48279	O2P	URI	1354	237.078	148.141	-5.969	1.00	94.23	Al
ATOM	48227	C2	CYT	1351	232.627	143.168	4.034	1.00	53.75	Al6s	ATOM	48280	O5	URI	1354	238.910	147.012	-7.227	1.00	55.15	Al
ATOM	48228	O2	CYT	1351	233.315	144.182	4.729	1.00	53.75	Al6s	ATOM	48281	C5	URI	1354	240.259	146.827	-7.652	1.00	55.15	Al
ATOM	48229	C3	CYT	1351	231.135	143.442	3.941	1.00	53.75	Al6s	ATOM	48282	C4	URI	1354	240.352	145.677	-8.624	1.00	55.15	Al
ATOM	48230	O3	CYT	1351	230.871	144.818	3.780	1.00	53.75	Al6s	ATOM	48283	O4	URI	1354	240.102	144.421	-7.940	1.00	55.15	Al
ATOM	48231	P	GUA	1352	230.230	145.343	2.412	1.00	62.24	Al6s	ATOM	48284	C1	URI	1354	238.526	143.504	-8.298	1.00	94.23	Al
ATOM	48232	O1P	GUA	1352	229.643	146.687	2.670	1.00	91.25	Al6s	ATOM	48285	N1	URI	1354	237.606	143.659	-7.273	1.00	94.23	Al
ATOM	48233	O2P	GUA	1352	231.367	144.253	1.882	1.00	91.25	Al6s	ATOM	48286	C6	URI	1354	237.706	141.872	-8.866	1.00	94.23	Al
ATOM	48234	O5	GUA	1352	232.487	145.530	1.447	1.00	62.24	Al6s	ATOM	48287	C2	URI	1354	238.260	141.239	-9.750	1.00	94.23	Al
ATOM	48235	C5	GUA	1352	233.325	146.692	1.562	1.00	62.24	Al6s	ATOM	48288	O2	URI	1354	236.483	141.502	-8.363	1.00	94.23	Al
ATOM	48236	C4	GUA	1352	233.785	146.343	1.325	1.00	62.24	Al6s	ATOM	48289	N3	URI	1354	235.769	142.128	-7.370	1.00	94.23	Al
ATOM	48237	O4	GUA	1352	234.097	145.053	1.917	1.00	62.24	Al6s	ATOM	48290	C4	URI	1354	234.628	141.745	-7.115	1.00	94.23	Al
ATOM	48238	C1	GUA	1352	235.155	144.450	1.196	1.00	62.24	Al6s	ATOM	48291	O4	URI	1354	236.417	143.268	-6.805	1.00	94.23	Al
ATOM	48239	N9	GUA	1352	234.716	143.150	0.694	1.00	91.25	Al6s	ATOM	48292	C5	URI	1354	239.378	144.215	-10.205	1.00	55.15	Al
ATOM	48240	C4	GUA	1352	235.515	142.212	0.077	1.00	91.25	Al6s	ATOM	48293	C2	URI	1354	240.479	143.894	-11.038	1.00	55.15	Al
ATOM	48241	N3	GUA	1352	236.838	142.331	-0.161	1.00	91.25	Al6s	ATOM	48294	O2	URI	1354	239.909	146.485	-10.865	1.00	55.15	Al
ATOM	48242	C2	GUA	1352	237.326	141.275	-0.780	1.00	91.25	Al6s	ATOM	48295	C3	URI	1354	238.916	147.054	-11.996	1.00	52.51	Al
ATOM	48243	N2	GUA	1352	238.620	141.237	-1.102	1.00	91.25	Al6s	ATOM	48296	O3	URI	1355	239.700	147.436	-13.206	1.00	76.99	Al
ATOM	48244	N1	GUA	1352	236.582	140.181	-1.131	1.00	91.25	Al6s	ATOM	48297	P	GUA	1355	238.019	148.054	-11.373	1.00	52.51	Al
ATOM	48245	C6	GUA	1352	235.219	140.030	-0.898	1.00	91.25	Al6s	ATOM	48298	O1P	GUA	1355	238.029	145.791	-12.391	1.00	52.51	Al
ATOM	48246	O6	GUA	1352	234.642	138.994	-1.261	1.00	91.25	Al6s	ATOM	48299	O2P	GUA	1355	238.574	144.706	-13.177	1.00	52.51	Al
ATOM	48247	C5	GUA	1352	234.375	141.166	-0.237	1.00	91.25	Al6s	ATOM	48300	O5	GUA	1355						
ATOM	48248	N7	GUA	1352	233.375	141.435	0.176	1.00	91.25	Al6s	ATOM	48301	C5	GUA	1355						

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ATOM	48302	C4'	GUA	1355	237.522	143.644	-13.413	1.00	52.51	Al6S	ATOM	48355	C6	ADE	1357	227.061	137.563	-18.313	1.00	61.81	Al
ATOM	48303	O4'	GUA	1355	237.214	142.941	-12.177	1.00	52.51	Al6S	ATOM	48356	N6	ADE	1357	226.392	138.398	-17.522	1.00	61.81	Al
ATOM	48304	C1'	GUA	1355	235.835	142.624	-12.142	1.00	52.51	Al6S	ATOM	48357	C5	ADE	1357	228.228	137.920	-18.996	1.00	61.81	Al
ATOM	48305	N9	GUA	1355	235.220	143.384	-11.058	1.00	76.99	Al6S	ATOM	48358	N7	ADE	1357	228.959	139.094	-19.029	1.00	61.81	Al
ATOM	48306	C4	GUA	1355	234.097	143.037	-10.344	1.00	76.99	Al6S	ATOM	48359	C8	ADE	1357	229.954	138.828	-19.834	1.00	61.81	Al
ATOM	48307	N3	GUA	1355	233.381	141.906	-10.495	1.00	76.99	Al6S	ATOM	48360	C2'	ADE	1357	230.449	137.046	-22.696	1.00	53.26	Al
ATOM	48308	C2	GUA	1355	232.350	141.862	-9.674	1.00	76.99	Al6S	ATOM	48361	O2'	ADE	1357	230.946	135.932	-23.410	1.00	53.26	Al
ATOM	48309	N2	GUA	1355	231.526	140.806	-9.690	1.00	76.99	Al6S	ATOM	48362	C3'	ADE	1357	231.066	138.362	-23.144	1.00	53.26	Al
ATOM	48310	N1	GUA	1355	232.043	142.849	-8.777	1.00	76.99	Al6S	ATOM	48363	O3'	ADE	1357	231.240	138.441	-24.545	1.00	53.26	Al
ATOM	48311	C6	GUA	1355	232.752	144.027	-8.605	1.00	76.99	Al6S	ATOM	48364	P	URI	1358	230.216	139.322	-25.414	1.00	52.97	Al
ATOM	48312	O6	GUA	1355	232.355	144.860	-7.772	1.00	76.99	Al6S	ATOM	48365	O1P	URI	1358	230.616	139.240	-26.846	1.00	58.24	Al
ATOM	48313	C5	GUA	1355	233.874	144.087	-9.480	1.00	76.99	Al6S	ATOM	48366	O2P	URI	1358	230.100	140.653	-24.752	1.00	58.24	Al
ATOM	48314	N7	GUA	1355	234.844	145.066	-9.635	1.00	76.99	Al6S	ATOM	48367	O5'	URI	1358	228.843	138.534	-25.272	1.00	52.97	Al
ATOM	48315	C8	GUA	1355	235.623	144.604	-10.574	1.00	76.99	Al6S	ATOM	48368	C5'	URI	1358	228.774	137.161	-25.662	1.00	52.97	Al
ATOM	48316	C2'	GUA	1355	235.236	143.053	-13.483	1.00	52.51	Al6S	ATOM	48369	C4'	URI	1358	227.520	136.521	-25.140	1.00	52.97	Al
ATOM	48317	O2'	GUA	1355	235.261	141.993	-14.413	1.00	52.51	Al6S	ATOM	48370	C1'	URI	1358	227.562	136.422	-23.693	1.00	52.97	Al
ATOM	48318	C3'	GUA	1355	236.182	144.164	-13.896	1.00	52.51	Al6S	ATOM	48371	C1'	URI	1358	226.245	136.538	-23.181	1.00	52.97	Al
ATOM	48319	O3'	GUA	1355	236.154	144.396	-15.286	1.00	52.51	Al6S	ATOM	48372	N1	URI	1358	226.175	137.711	-22.294	1.00	58.24	Al
ATOM	48320	P	ADE	1356	234.852	145.057	-15.940	1.00	48.42	Al6S	ATOM	48373	C6	URI	1358	226.807	138.890	-22.597	1.00	58.24	Al
ATOM	48321	O1P	ADE	1356	235.173	145.502	-17.335	1.00	68.57	Al6S	ATOM	48374	C2	URI	1358	225.415	137.597	-21.159	1.00	58.24	Al
ATOM	48322	O2P	ADE	1356	234.308	146.035	-14.970	1.00	68.57	Al6S	ATOM	48375	O2	URI	1358	224.878	136.560	-20.830	1.00	58.24	Al
ATOM	48323	O5'	ADE	1356	233.831	143.838	-15.987	1.00	48.42	Al6S	ATOM	48376	N3	URI	1358	225.305	138.740	-20.416	1.00	58.24	Al
ATOM	48324	C5'	ADE	1356	233.157	143.465	-17.213	1.00	48.42	Al6S	ATOM	48377	C4	URI	1358	225.869	139.953	-20.679	1.00	58.24	Al
ATOM	48325	C4'	ADE	1356	233.784	142.216	-17.789	1.00	48.42	Al6S	ATOM	48378	O4	URI	1358	225.578	140.914	-19.972	1.00	58.24	Al
ATOM	48326	O4'	ADE	1356	233.911	141.200	-16.760	1.00	48.42	Al6S	ATOM	48379	C5	URI	1358	226.681	139.986	-21.850	1.00	58.24	Al
ATOM	48327	C1'	ADE	1356	233.655	139.926	-17.313	1.00	48.42	Al6S	ATOM	48380	C2'	URI	1358	225.295	136.702	-24.373	1.00	52.97	Al
ATOM	48328	N9	ADE	1356	232.475	139.382	-16.636	1.00	68.57	Al6S	ATOM	48381	O2'	URI	1358	224.743	135.451	-24.742	1.00	52.97	Al
ATOM	48329	C4	ADE	1356	231.827	138.199	-16.903	1.00	68.57	Al6S	ATOM	48382	C3'	URI	1358	226.231	137.256	-25.435	1.00	52.97	Al
ATOM	48330	N3	ADE	1356	232.133	137.297	-17.847	1.00	68.57	Al6S	ATOM	48383	O3'	URI	1358	225.763	136.996	-26.737	1.00	52.97	Al
ATOM	48331	C2	ADE	1356	231.285	136.279	-17.810	1.00	68.57	Al6S	ATOM	48384	P	ADE	1359	224.754	138.028	-27.421	1.00	54.82	Al
ATOM	48332	N1	ADE	1356	230.242	136.073	-17.002	1.00	68.57	Al6S	ATOM	48385	O1P	ADE	1359	224.720	137.722	-28.879	1.00	59.08	Al
ATOM	48333	C6	ADE	1356	229.959	136.997	-16.066	1.00	68.57	Al6S	ATOM	48386	O2P	ADE	1359	225.120	139.393	-26.957	1.00	59.08	Al
ATOM	48334	N6	ADE	1356	228.916	136.786	-15.260	1.00	68.57	Al6S	ATOM	48387	O5'	ADE	1359	223.340	137.658	-26.791	1.00	54.82	Al
ATOM	48335	C5	ADE	1356	230.786	138.128	-16.000	1.00	68.57	Al6S	ATOM	48388	C5'	ADE	1359	222.624	136.491	-26.372	1.00	54.82	Al
ATOM	48336	N7	ADE	1356	230.773	139.243	-15.179	1.00	68.57	Al6S	ATOM	48389	C4'	ADE	1359	221.393	136.282	-26.372	1.00	54.82	Al
ATOM	48337	C8	ADE	1356	231.788	139.953	-15.596	1.00	68.57	Al6S	ATOM	48390	C4'	ADE	1359	221.791	136.037	-24.999	1.00	54.82	Al
ATOM	48338	C2'	ADE	1356	233.481	140.112	-18.824	1.00	48.42	Al6S	ATOM	48391	C1'	ADE	1359	220.818	136.576	-24.111	1.00	54.82	Al
ATOM	48339	O2'	ADE	1356	234.742	139.961	-19.442	1.00	48.42	Al6S	ATOM	48392	N9	ADE	1359	221.437	137.629	-23.304	1.00	59.08	Al
ATOM	48340	C3'	ADE	1356	233.009	141.554	-18.909	1.00	48.42	Al6S	ATOM	48393	C4	ADE	1359	221.000	138.084	-22.084	1.00	59.08	Al
ATOM	48341	O3'	ADE	1356	233.345	142.138	-20.151	1.00	48.42	Al6S	ATOM	48394	N3	ADE	1359	219.965	137.627	-21.364	1.00	59.08	Al
ATOM	48342	P	ADE	1357	232.258	142.168	-21.327	1.00	53.26	Al6S	ATOM	48395	C2	ADE	1359	219.819	138.342	-19.816	1.00	59.08	Al
ATOM	48343	O1P	ADE	1357	232.924	142.746	-22.522	1.00	61.81	Al6S	ATOM	48396	N1	ADE	1359	220.533	139.380	-19.816	1.00	59.08	Al
ATOM	48344	O2P	ADE	1357	231.010	142.780	-20.817	1.00	61.81	Al6S	ATOM	48397	C6	ADE	1359	221.566	139.808	-20.567	1.00	59.08	Al
ATOM	48345	O5'	ADE	1357	231.953	140.627	-21.601	1.00	53.26	Al6S	ATOM	48398	N6	ADE	1359	222.278	140.850	-20.146	1.00	59.08	Al
ATOM	48346	C5'	ADE	1357	232.958	139.756	-22.167	1.00	53.26	Al6S	ATOM	48399	C5	ADE	1359	221.830	139.132	-21.756	1.00	59.08	Al
ATOM	48347	C4'	ADE	1357	232.389	138.378	-22.409	1.00	53.26	Al6S	ATOM	48400	N7	ADE	1359	222.800	139.311	-22.726	1.00	59.08	Al
ATOM	48348	O4'	ADE	1357	232.111	137.727	-21.141	1.00	53.26	Al6S	ATOM	48401	C8	ADE	1359	222.528	138.393	-23.616	1.00	59.08	Al
ATOM	48349	C1'	ADE	1357	230.916	136.970	-21.243	1.00	53.26	Al6S	ATOM	48402	C2'	ADE	1359	219.699	137.170	-24.963	1.00	54.82	Al
ATOM	48350	N9	ADE	1357	229.933	137.556	-20.332	1.00	61.81	Al6S	ATOM	48403	O2'	ADE	1359	218.647	136.627	-25.050	1.00	54.82	Al
ATOM	48351	C4	ADE	1357	228.809	136.963	-19.799	1.00	61.81	Al6S	ATOM	48404	C3'	ADE	1359	220.426	137.447	-26.274	1.00	54.82	Al
ATOM	48352	N3	ADE	1357	228.360	135.710	-20.000	1.00	61.81	Al6S	ATOM	48405	O3'	ADE	1359	219.542	137.516	-27.368	1.00	54.82	Al
ATOM	48353	C2	ADE	1357	227.253	135.466	-19.292	1.00	61.81	Al6S	ATOM	48406	P	CYT	1360	218.583	138.793	-27.518	1.00	52.46	Al
ATOM	48354	N1	ADE	1357	226.591	136.310	-18.477	1.00	61.81	Al6S	ATOM	48407	O1P	CYT	1360	219.407	140.015	-27.385	1.00	45.13	Al

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ATOM	48408	O2P	CYT	1360	217.407	138.599	-26.621	1.00	45.13	Al6S	ATOM	48461	N3	URI	1362	212.528	131.544	-24.066	1.00	57.94	Al
ATOM	48409	O5'	CYT	1360	218.079	138.722	-29.024	1.00	52.46	Al6S	ATOM	48462	C4	URI	1362	212.892	132.842	-24.316	1.00	57.94	Al
ATOM	48410	C5'	CYT	1360	218.916	139.156	-30.107	1.00	52.46	Al6S	ATOM	48463	O4	URI	1362	213.440	133.490	-23.423	1.00	57.94	Al
ATOM	48411	C4'	CYT	1360	218.756	138.231	-31.286	1.00	52.46	Al6S	ATOM	48464	C5	URI	1362	212.475	133.347	-25.592	1.00	57.94	Al
ATOM	48412	O4'	CYT	1360	219.491	137.000	-31.077	1.00	52.46	Al6S	ATOM	48465	C2'	URI	1362	209.156	130.375	-26.961	1.00	82.95	Al
ATOM	48413	C1'	CYT	1360	218.764	135.915	-31.629	1.00	52.46	Al6S	ATOM	48466	O2'	URI	1362	208.769	129.029	-26.806	1.00	82.95	Al
ATOM	48414	N1	CYT	1360	218.599	134.865	-30.593	1.00	45.13	Al6S	ATOM	48467	C3'	URI	1362	208.740	130.066	-28.264	1.00	82.95	Al
ATOM	48415	C6	CYT	1360	218.760	135.157	-29.262	1.00	45.13	Al6S	ATOM	48468	O3'	URI	1362	207.500	130.762	-28.944	1.00	82.95	Al
ATOM	48416	C2	CYT	1360	218.316	133.539	-30.994	1.00	45.13	Al6S	ATOM	48469	P	URI	1363	206.946	129.242	-29.118	1.00	60.83	Al
ATOM	48417	O2	CYT	1360	218.086	133.299	-32.193	1.00	45.13	Al6S	ATOM	48470	O1P	URI	1363	205.790	129.466	-30.022	1.00	74.19	Al
ATOM	48418	N3	CYT	1360	218.290	132.556	-30.055	1.00	45.13	Al6S	ATOM	48471	O2P	URI	1363	206.729	128.543	-27.830	1.00	74.19	Al
ATOM	48419	C4	CYT	1360	218.510	132.852	-28.767	1.00	45.13	Al6S	ATOM	48472	O5'	URI	1363	208.029	128.413	-29.951	1.00	60.83	Al
ATOM	48420	N4	CYT	1360	218.535	131.846	-27.888	1.00	45.13	Al6S	ATOM	48473	C5'	URI	1363	207.589	127.492	-30.992	1.00	60.83	Al
ATOM	48421	C5	CYT	1360	218.728	134.191	-28.326	1.00	45.13	Al6S	ATOM	48474	C4'	URI	1363	208.431	126.224	-31.039	1.00	60.83	Al
ATOM	48422	C2'	CYT	1360	217.483	136.474	-32.258	1.00	52.46	Al6S	ATOM	48475	O4'	URI	1363	209.779	126.522	-31.487	1.00	60.83	Al
ATOM	48423	O2'	CYT	1360	217.700	136.703	-33.633	1.00	52.46	Al6S	ATOM	48476	C1'	URI	1363	210.673	125.548	-30.971	1.00	60.83	Al
ATOM	48424	C3'	CYT	1360	217.326	137.796	-31.527	1.00	52.46	Al6S	ATOM	48477	N1	URI	1363	211.795	126.208	-30.280	1.00	74.19	Al
ATOM	48425	O3'	CYT	1360	216.627	138.757	-32.294	1.00	52.46	Al6S	ATOM	48478	C6	URI	1363	211.867	127.575	-30.137	1.00	74.19	Al
ATOM	48426	P	GUA	1361	215.079	139.023	-33.985	1.00	69.93	Al6S	ATOM	48479	C2	URI	1363	212.765	125.392	-29.776	1.00	74.19	Al
ATOM	48427	O1P	GUA	1361	214.522	139.837	-33.095	1.00	48.87	Al6S	ATOM	48480	O2	URI	1363	212.765	124.176	-29.862	1.00	74.19	Al
ATOM	48428	O2P	GUA	1361	214.959	139.503	-30.579	1.00	48.87	Al6S	ATOM	48481	N3	URI	1363	213.829	126.052	-29.161	1.00	74.19	Al
ATOM	48429	O5'	GUA	1361	214.445	137.568	-32.067	1.00	69.93	Al6S	ATOM	48482	C4	URI	1363	213.965	127.411	-28.993	1.00	74.19	Al
ATOM	48430	C5'	GUA	1361	213.700	137.018	-30.971	1.00	69.93	Al6S	ATOM	48483	O4	URI	1363	214.981	127.854	-28.454	1.00	74.19	Al
ATOM	48431	C4'	GUA	1361	213.856	135.523	-30.956	1.00	69.93	Al6S	ATOM	48484	C5	URI	1363	212.879	128.186	-29.525	1.00	74.19	Al
ATOM	48432	O4'	GUA	1361	215.118	135.172	-30.334	1.00	69.93	Al6S	ATOM	48485	C2'	URI	1363	209.874	124.596	-30.817	1.00	60.83	Al
ATOM	48433	C1'	GUA	1361	214.977	133.946	-29.637	1.00	69.93	Al6S	ATOM	48486	O2'	URI	1363	209.583	123.434	-30.817	1.00	60.83	Al
ATOM	48434	N9	GUA	1361	215.326	134.147	-28.234	1.00	48.87	Al6S	ATOM	48487	C3'	URI	1363	208.620	125.404	-29.770	1.00	60.83	Al
ATOM	48435	C4	GUA	1361	215.427	133.162	-27.288	1.00	48.87	Al6S	ATOM	48488	O3'	URI	1363	207.543	124.509	-29.531	1.00	51.84	Al
ATOM	48436	N3	GUA	1361	215.199	131.853	-27.490	1.00	48.87	Al6S	ATOM	48489	P	CYT	1364	207.319	123.905	-28.050	1.00	51.84	Al
ATOM	48437	C2	GUA	1361	215.404	131.150	-26.398	1.00	48.87	Al6S	ATOM	48490	O1P	CYT	1364	206.159	122.972	-28.097	1.00	79.09	Al
ATOM	48438	N2	GUA	1361	215.235	129.829	-26.419	1.00	48.87	Al6S	ATOM	48491	O2P	CYT	1364	207.286	125.074	-27.124	1.00	79.09	Al
ATOM	48439	N1	GUA	1361	215.795	131.688	-25.202	1.00	48.87	Al6S	ATOM	48492	O5'	CYT	1364	208.629	123.046	-27.739	1.00	51.84	Al
ATOM	48440	C6	GUA	1361	216.029	133.037	-24.973	1.00	48.87	Al6S	ATOM	48493	C5'	CYT	1364	208.958	121.899	-28.530	1.00	51.84	Al
ATOM	48441	O6	GUA	1361	216.379	133.420	-23.854	1.00	48.87	Al6S	ATOM	48494	C4'	CYT	1364	210.247	121.278	-28.056	1.00	51.84	Al
ATOM	48442	C5	GUA	1361	215.815	133.802	-26.131	1.00	48.87	Al6S	ATOM	48495	O4'	CYT	1364	211.372	122.146	-28.328	1.00	51.84	Al
ATOM	48443	N7	GUA	1361	215.931	135.167	-26.337	1.00	48.87	Al6S	ATOM	48496	C1'	CYT	1364	212.333	122.012	-27.297	1.00	51.84	Al
ATOM	48444	C8	GUA	1361	215.630	135.328	-27.597	1.00	48.87	Al6S	ATOM	48497	N1	CYT	1364	212.605	123.343	-26.724	1.00	79.09	Al
ATOM	48445	C2'	GUA	1361	213.538	133.468	-29.812	1.00	69.93	Al6S	ATOM	48498	C6	CYT	1364	211.697	124.360	-26.846	1.00	79.09	Al
ATOM	48446	O2'	GUA	1361	213.508	132.508	-30.847	1.00	69.93	Al6S	ATOM	48499	C2	CYT	1364	213.818	123.558	-26.055	1.00	79.09	Al
ATOM	48447	C3'	GUA	1361	212.822	134.771	-30.148	1.00	69.93	Al6S	ATOM	48500	O2	CYT	1364	214.622	122.615	-25.933	1.00	79.09	Al
ATOM	48448	O3'	GUA	1361	211.639	134.583	-30.906	1.00	69.93	Al6S	ATOM	48501	N3	CYT	1364	214.081	124.783	-25.551	1.00	79.09	Al
ATOM	48449	P	URI	1362	210.212	134.644	-30.170	1.00	82.95	Al6S	ATOM	48502	C4	CYT	1364	213.189	122.766	-25.682	1.00	79.09	Al
ATOM	48450	O1P	URI	1362	209.175	134.707	-31.232	1.00	57.94	Al6S	ATOM	48503	N4	CYT	1364	213.491	126.953	-25.164	1.00	79.09	Al
ATOM	48451	O2P	URI	1362	210.247	135.700	-29.123	1.00	57.94	Al6S	ATOM	48504	C5	CYT	1364	211.947	125.575	-26.346	1.00	79.09	Al
ATOM	48452	O5'	URI	1362	210.120	133.241	-29.423	1.00	82.95	Al6S	ATOM	48505	C2'	CYT	1364	211.807	120.995	-26.281	1.00	51.84	Al
ATOM	48453	C5'	URI	1362	210.098	132.007	-30.159	1.00	82.95	Al6S	ATOM	48506	O2'	CYT	1364	212.411	119.746	-26.519	1.00	51.84	Al
ATOM	48454	C4'	URI	1362	209.907	130.860	-29.208	1.00	82.95	Al6S	ATOM	48507	C3'	CYT	1364	210.313	120.998	-26.573	1.00	51.84	Al
ATOM	48455	O4'	URI	1362	211.071	130.770	-28.359	1.00	82.95	Al6S	ATOM	48508	C3'	CYT	1364	209.728	119.743	-26.312	1.00	48.46	Al
ATOM	48456	C1'	URI	1362	210.686	130.427	-27.046	1.00	57.94	Al6S	ATOM	48509	P	CYT	1365	208.880	119.536	-24.974	1.00	47.70	Al
ATOM	48457	N1	URI	1362	211.435	131.271	-26.101	1.00	57.94	Al6S	ATOM	48510	O1P	CYT	1365	208.288	118.173	-25.022	1.00	47.70	Al
ATOM	48458	C6	URI	1362	211.775	132.565	-26.416	1.00	57.94	Al6S	ATOM	48511	O2P	CYT	1365	207.975	120.725	-24.848	1.00	47.70	Al
ATOM	48459	C2	URI	1362	211.811	130.714	-24.881	1.00	57.94	Al6S	ATOM	48512	O5'	CYT	1365	210.004	119.542	-23.840	1.00	48.46	Al
ATOM	48460	O2	URI	1362	211.531	129.575	-24.541	1.00	57.94	Al6S	ATOM	48513	C5'	CYT	1365	210.921	118.442	-23.729	1.00	48.46	Al

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ATOM	48514	C4	CYT	1365	211.907	118.671	-22.614	1.00	48.46	Al6s	ATOM	48567	C8	GUA	1367	207.644	124.050	-15.486	1.00	35.51	Al
ATOM	48515	O4	CYT	1365	212.750	119.795	-22.956	1.00	48.46	Al6s	ATOM	48568	C2	GUA	1367	206.579	124.779	-12.401	1.00	54.30	Al
ATOM	48516	C1	CYT	1365	213.140	120.475	-21.770	1.00	48.46	Al6s	ATOM	48569	O2	GUA	1367	206.696	125.273	-11.077	1.00	54.30	Al
ATOM	48517	N1	CYT	1365	212.778	121.908	-21.875	1.00	47.70	Al6s	ATOM	48570	C3	GUA	1367	206.252	123.298	-12.450	1.00	54.30	Al
ATOM	48518	C6	CYT	1365	211.925	122.360	-22.845	1.00	47.70	Al6s	ATOM	48571	O3	GUA	1367	205.256	122.935	-11.539	1.00	54.30	Al
ATOM	48519	C2	CYT	1365	213.347	122.811	-20.963	1.00	47.70	Al6s	ATOM	48572	P	GUA	1368	203.740	122.880	-12.047	1.00	61.25	Al
ATOM	48520	O2	CYT	1365	214.082	122.373	-20.059	1.00	47.70	Al6s	ATOM	48573	O1P	GUA	1368	203.016	122.244	-10.914	1.00	42.14	Al
ATOM	48521	N3	CYT	1365	213.077	124.130	-21.083	1.00	47.70	Al6s	ATOM	48574	O2P	GUA	1368	203.667	122.267	-13.414	1.00	42.14	Al
ATOM	48522	C4	CYT	1365	212.266	124.560	-22.045	1.00	47.70	Al6s	ATOM	48575	O5	GUA	1368	203.336	124.417	-12.212	1.00	61.25	Al
ATOM	48523	N4	CYT	1365	212.047	125.874	-22.133	1.00	47.70	Al6s	ATOM	48576	C5	GUA	1368	203.490	125.335	-11.124	1.00	61.25	Al
ATOM	48524	C5	CYT	1365	211.644	123.664	-22.964	1.00	47.40	Al6s	ATOM	48577	O4	GUA	1368	204.331	127.096	-12.574	1.00	61.25	Al
ATOM	48525	C2	CYT	1365	212.490	119.769	-20.586	1.00	48.46	Al6s	ATOM	48578	C4	GUA	1368	203.866	128.164	-13.380	1.00	61.25	Al
ATOM	48526	O2	CYT	1365	213.412	118.898	-19.968	1.00	48.46	Al6s	ATOM	48579	C1	GUA	1368	203.914	127.790	-14.790	1.00	42.14	Al
ATOM	48527	C3	CYT	1365	211.335	119.048	-21.262	1.00	48.46	Al6s	ATOM	48580	N9	GUA	1368	203.914	127.790	-14.790	1.00	42.14	Al
ATOM	48528	O3	CYT	1365	210.870	117.962	-20.490	1.00	48.46	Al6s	ATOM	48581	C4	GUA	1368	203.745	128.659	-15.845	1.00	42.14	Al
ATOM	48529	P	CYT	1366	209.548	118.160	-19.600	1.00	60.87	Al6s	ATOM	48582	N3	GUA	1368	203.557	129.989	-15.747	1.00	42.14	Al
ATOM	48530	O1P	CYT	1366	209.195	116.867	-18.962	1.00	34.46	Al6s	ATOM	48583	C2	GUA	1368	203.387	130.553	-16.926	1.00	42.14	Al
ATOM	48531	O2P	CYT	1366	208.575	118.851	-20.475	1.00	34.46	Al6s	ATOM	48584	N2	GUA	1368	203.177	131.868	-17.003	1.00	42.14	Al
ATOM	48532	O5	CYT	1366	209.994	119.129	-18.420	1.00	60.87	Al6s	ATOM	48585	N1	GUA	1368	203.404	129.871	-18.109	1.00	42.14	Al
ATOM	48533	C5	CYT	1366	210.843	118.628	-17.374	1.00	60.87	Al6s	ATOM	48586	C6	GUA	1368	203.570	127.990	-19.356	1.00	42.14	Al
ATOM	48534	C4	CYT	1366	211.108	119.689	-16.339	1.00	60.87	Al6s	ATOM	48587	O6	GUA	1368	203.778	127.878	-16.975	1.00	42.14	Al
ATOM	48535	O4	CYT	1366	211.874	120.769	-16.921	1.00	60.87	Al6s	ATOM	48588	C5	GUA	1368	203.996	126.545	-16.647	1.00	42.14	Al
ATOM	48536	C1	CYT	1366	211.525	121.989	-16.293	1.00	60.87	Al6s	ATOM	48589	N7	GUA	1368	204.081	128.541	-15.341	1.00	42.14	Al
ATOM	48537	N1	CYT	1366	210.948	122.890	-17.298	1.00	34.46	Al6s	ATOM	48590	C8	GUA	1368	202.421	128.445	-12.979	1.00	61.25	Al
ATOM	48538	C6	CYT	1366	210.534	122.422	-18.513	1.00	34.46	Al6s	ATOM	48591	C2	GUA	1368	202.369	129.582	-12.134	1.00	61.25	Al
ATOM	48539	C2	CYT	1366	210.822	124.242	-16.978	1.00	34.46	Al6s	ATOM	48592	O2	GUA	1368	202.030	127.145	-12.289	1.00	61.25	Al
ATOM	48540	O2	CYT	1366	211.200	124.630	-15.857	1.00	34.46	Al6s	ATOM	48593	C3	GUA	1368	200.941	127.359	-11.410	1.00	61.25	Al
ATOM	48541	N3	CYT	1366	210.293	125.090	-17.884	1.00	34.46	Al6s	ATOM	48594	O3	GUA	1369	199.437	127.317	-11.986	1.00	57.97	Al
ATOM	48542	C4	CYT	1366	209.899	124.631	-19.066	1.00	34.46	Al6s	ATOM	48595	P	GUA	1369	199.591	127.128	-10.786	1.00	40.92	Al
ATOM	48543	N4	CYT	1366	209.401	125.505	-19.932	1.00	34.46	Al6s	ATOM	48596	O1P	GUA	1369	199.347	126.346	-13.102	1.00	40.92	Al
ATOM	48544	C5	CYT	1366	210.006	123.256	-19.417	1.00	34.46	Al6s	ATOM	48597	O2P	GUA	1369	199.189	128.764	-12.610	1.00	57.97	Al
ATOM	48545	C2	CYT	1366	210.502	121.672	-15.210	1.00	60.87	Al6s	ATOM	48598	O5	GUA	1369	199.301	129.935	-11.795	1.00	57.97	Al
ATOM	48546	O2	CYT	1366	211.168	121.490	-13.976	1.00	60.87	Al6s	ATOM	48599	C5	GUA	1369	199.098	131.178	-12.621	1.00	57.97	Al
ATOM	48547	C3	CYT	1366	209.901	120.387	-15.749	1.00	60.87	Al6s	ATOM	48600	C4	GUA	1369	199.720	131.923	-14.755	1.00	57.97	Al
ATOM	48548	O3	CYT	1366	209.271	119.632	-14.745	1.00	60.87	Al6s	ATOM	48601	O1	GUA	1369	199.924	130.954	-15.826	1.00	40.92	Al
ATOM	48549	P	GUA	1367	207.353	118.544	-13.715	1.00	35.51	Al6s	ATOM	48602	C1	GUA	1369	199.840	131.189	-17.175	1.00	40.92	Al
ATOM	48550	O1P	GUA	1367	207.071	119.717	-15.993	1.00	35.51	Al6s	ATOM	48603	N9	GUA	1369	199.534	132.360	-17.753	1.00	40.92	Al
ATOM	48551	O2P	GUA	1367	207.362	121.048	-13.914	1.00	54.30	Al6s	ATOM	48604	C4	GUA	1369	199.541	132.267	-19.068	1.00	40.92	Al
ATOM	48552	O5	GUA	1367	207.753	121.237	-12.556	1.00	54.30	Al6s	ATOM	48605	N3	GUA	1369	199.245	133.329	-19.807	1.00	40.92	Al
ATOM	48553	C5	GUA	1367	208.512	123.510	-12.907	1.00	54.30	Al6s	ATOM	48606	C2	GUA	1369	199.837	131.126	-19.756	1.00	40.92	Al
ATOM	48554	C4	GUA	1367	207.939	124.796	-13.088	1.00	54.30	Al6s	ATOM	48607	N2	GUA	1369	200.163	129.913	-19.176	1.00	40.92	Al
ATOM	48555	O4	GUA	1367	207.726	125.010	-14.511	1.00	35.51	Al6s	ATOM	48608	N1	GUA	1369	200.439	128.944	-19.886	1.00	40.92	Al
ATOM	48556	C1	GUA	1367	207.527	126.216	-15.132	1.00	35.51	Al6s	ATOM	48609	C6	GUA	1369	200.383	129.988	-17.775	1.00	40.92	Al
ATOM	48557	N9	GUA	1367	207.546	127.423	-14.540	1.00	35.51	Al6s	ATOM	48610	O6	GUA	1369	200.243	129.625	-15.685	1.00	40.92	Al
ATOM	48558	C4	GUA	1367	207.334	128.401	-15.409	1.00	35.51	Al6s	ATOM	48611	C5	GUA	1369	198.033	133.548	-14.146	1.00	57.97	Al
ATOM	48559	N3	GUA	1367	207.070	128.200	-16.740	1.00	35.51	Al6s	ATOM	48612	N7	GUA	1369	197.867	131.189	-13.506	1.00	57.97	Al
ATOM	48560	C2	GUA	1367	206.724	126.878	-18.548	1.00	35.51	Al6s	ATOM	48613	C8	GUA	1369	195.684	131.538	-12.816	1.00	57.97	Al
ATOM	48561	N2	GUA	1367	207.301	125.912	-16.454	1.00	35.51	Al6s	ATOM	48614	O2	GUA	1369	195.308	130.827	-13.225	1.00	39.75	Al
ATOM	48562	C6	GUA	1367	207.387	124.545	-16.667	1.00	35.51	Al6s	ATOM	48615	C3	GUA	1370	194.331	131.071	-12.135	1.00	54.99	Al
ATOM	48563	O6	GUA	1367							ATOM	48616	O3	GUA	1369						
ATOM	48564	O6	GUA	1367							ATOM	48617	P	CYT	1370						
ATOM	48565	C5	GUA	1367							ATOM	48618	O1P	CYT	1370						
ATOM	48566	N7	GUA	1367							ATOM	48619	O1P	CYT	1370						

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ATOM	48620	O2P	CYT	1370	195.651	129.421	-13.592	1.00	54.99	Al6S	ATOM	48673	C5	URI	1372	190.519	126.914	-20.718	1.00	47.22	Al
ATOM	48621	O5'	CYT	1370	194.865	131.623	-14.530	1.00	39.75	Al6S	ATOM	48674	C2'	URI	1372	188.175	126.927	-24.638	1.00	50.61	Al
ATOM	48622	C5'	CYT	1370	194.677	133.032	-14.477	1.00	39.75	Al6S	ATOM	48675	O2'	URI	1372	188.051	127.114	-26.034	1.00	50.61	Al
ATOM	48623	C4'	CYT	1370	194.328	133.568	-15.838	1.00	39.75	Al6S	ATOM	48676	C3'	URI	1372	187.021	127.551	-23.869	1.00	50.61	Al
ATOM	48624	O4'	CYT	1370	195.507	133.568	-16.677	1.00	39.75	Al6S	ATOM	48677	O3'	URI	1372	185.771	127.315	-24.498	1.00	50.61	Al
ATOM	48625	C1'	CYT	1370	195.133	133.313	-18.025	1.00	39.75	Al6S	ATOM	48678	P	URI	1373	184.844	126.094	-24.007	1.00	54.79	Al
ATOM	48626	N1	CYT	1370	195.742	132.034	-18.432	1.00	54.99	Al6S	ATOM	48679	O1P	URI	1373	183.538	126.328	-24.667	1.00	44.38	Al
ATOM	48627	C6	CYT	1370	196.078	131.080	-17.525	1.00	54.99	Al6S	ATOM	48680	O2P	URI	1373	184.904	125.941	-22.525	1.00	44.38	Al
ATOM	48628	C2	CYT	1370	195.950	131.800	-19.804	1.00	54.99	Al6S	ATOM	48681	O5'	URI	1373	185.521	124.801	-24.649	1.00	54.79	Al
ATOM	48629	O2	CYT	1370	195.649	132.686	-20.614	1.00	54.99	Al6S	ATOM	48682	C5'	URI	1373	185.570	124.613	-26.078	1.00	54.79	Al
ATOM	48630	N3	CYT	1370	196.467	130.613	-20.200	1.00	54.99	Al6S	ATOM	48683	O4'	URI	1373	186.409	123.406	-26.414	1.00	54.79	Al
ATOM	48631	C4	CYT	1370	196.766	129.681	-19.294	1.00	54.99	Al6S	ATOM	48684	C4'	URI	1373	187.767	123.637	-25.969	1.00	54.79	Al
ATOM	48632	N4	CYT	1370	197.239	128.515	-19.723	1.00	54.99	Al6S	ATOM	48685	C1'	URI	1373	188.327	122.429	-25.492	1.00	54.79	Al
ATOM	48633	C5	CYT	1370	196.584	129.902	-17.903	1.00	54.99	Al6S	ATOM	48686	N1	URI	1373	188.750	122.620	-24.095	1.00	44.38	Al
ATOM	48634	C2'	CYT	1370	193.605	133.227	-18.070	1.00	39.75	Al6S	ATOM	48687	C6	URI	1373	188.303	123.685	-23.353	1.00	44.38	Al
ATOM	48635	O2'	CYT	1370	193.038	134.477	-18.432	1.00	39.75	Al6S	ATOM	48688	C2	URI	1373	189.616	121.685	-23.544	1.00	44.38	Al
ATOM	48636	C3'	CYT	1370	193.288	132.800	-16.641	1.00	39.75	Al6S	ATOM	48689	O2	URI	1373	190.062	120.735	-24.173	1.00	44.38	Al
ATOM	48637	O3'	CYT	1370	191.948	133.087	-16.272	1.00	39.75	Al6S	ATOM	48690	N3	URI	1373	189.950	121.909	-22.233	1.00	44.38	Al
ATOM	48638	P	CYT	1371	189.831	131.924	-16.355	1.00	52.49	Al6S	ATOM	48691	C4	URI	1373	189.535	122.956	-21.441	1.00	44.38	Al
ATOM	48639	O1P	CYT	1371	189.633	132.398	-15.620	1.00	52.49	Al6S	ATOM	48692	O4	URI	1373	189.969	123.056	-20.295	1.00	44.38	Al
ATOM	48640	O2P	CYT	1371	191.462	130.622	-15.968	1.00	52.49	Al6S	ATOM	48693	C5	URI	1373	188.660	123.880	-22.083	1.00	44.38	Al
ATOM	48641	O5'	CYT	1371	190.435	131.903	-17.896	1.00	51.64	Al6S	ATOM	48694	C2'	URI	1373	187.289	121.321	-25.672	1.00	54.79	Al
ATOM	48642	C5'	CYT	1371	189.801	133.037	-18.483	1.00	51.64	Al6S	ATOM	48695	O2'	URI	1373	187.585	120.614	-26.855	1.00	54.79	Al
ATOM	48643	C4'	CYT	1371	189.802	132.923	-19.980	1.00	51.64	Al6S	ATOM	48696	C3'	URI	1373	185.989	122.114	-26.469	1.00	54.79	Al
ATOM	48644	O4'	CYT	1371	191.172	132.906	-20.455	1.00	51.64	Al6S	ATOM	48697	O3'	URI	1374	183.908	120.505	-25.699	1.00	44.79	Al
ATOM	48645	C1'	CYT	1371	191.273	132.076	-21.606	1.00	51.64	Al6S	ATOM	48698	P	URI	1374	183.643	121.039	-24.340	1.00	43.36	Al
ATOM	48646	N1	CYT	1371	192.130	130.913	-21.282	1.00	52.49	Al6S	ATOM	48699	O1P	URI	1374	183.779	120.304	-26.643	1.00	44.79	Al
ATOM	48647	C6	CYT	1371	192.333	130.582	-19.984	1.00	52.49	Al6S	ATOM	48700	O2P	URI	1374	184.689	119.129	-25.520	1.00	44.79	Al
ATOM	48648	O2	CYT	1371	192.646	130.129	-22.330	1.00	52.49	Al6S	ATOM	48701	O5'	URI	1374	185.068	118.350	-26.673	1.00	44.79	Al
ATOM	48649	N3	CYT	1371	192.433	130.468	-23.506	1.00	52.49	Al6S	ATOM	48702	C5'	URI	1374	185.899	117.158	-26.260	1.00	44.79	Al
ATOM	48650	C4	CYT	1371	193.365	129.025	-22.030	1.00	52.49	Al6S	ATOM	48703	O4'	URI	1374	187.242	117.579	-25.921	1.00	44.79	Al
ATOM	48651	N4	CYT	1371	193.587	128.699	-20.755	1.00	52.49	Al6S	ATOM	48704	C4'	URI	1374	187.713	116.828	-24.813	1.00	44.79	Al
ATOM	48652	C5	CYT	1371	193.107	129.496	-19.680	1.00	52.49	Al6S	ATOM	48705	C1'	URI	1374	187.901	117.765	-23.712	1.00	43.36	Al
ATOM	48653	C2'	CYT	1371	189.858	131.612	-21.941	1.00	51.64	Al6S	ATOM	48706	N9	URI	1374	188.759	117.653	-22.646	1.00	43.36	Al
ATOM	48654	C2'	CYT	1371	189.289	132.518	-22.864	1.00	51.64	Al6S	ATOM	48707	C4	URI	1374	189.305	116.831	-21.313	1.00	43.36	Al
ATOM	48655	O2'	CYT	1371	189.206	131.657	-20.565	1.00	51.64	Al6S	ATOM	48708	N3	URI	1374	191.191	115.926	-20.926	1.00	43.36	Al
ATOM	48656	C3'	CYT	1371	187.788	131.654	-20.593	1.00	51.64	Al6S	ATOM	48709	C2	URI	1374	190.210	117.941	-20.523	1.00	43.36	Al
ATOM	48657	O3'	CYT	1371	185.569	130.656	-20.084	1.00	47.22	Al6S	ATOM	48710	N2	URI	1374	189.358	119.010	-20.755	1.00	43.36	Al
ATOM	48658	P	URI	1372	187.695	129.618	-19.082	1.00	47.22	Al6S	ATOM	48711	N1	URI	1374	188.348	119.979	-19.981	1.00	43.36	Al
ATOM	48659	O1P	URI	1372	187.156	129.385	-21.493	1.00	50.61	Al6S	ATOM	48712	C6	URI	1374	188.588	118.810	-21.918	1.00	43.36	Al
ATOM	48660	O2P	URI	1372	187.888	129.885	-22.792	1.00	50.61	Al6S	ATOM	48713	O6	URI	1374	187.624	118.960	-22.498	1.00	43.36	Al
ATOM	48661	O5'	URI	1372	187.392	129.028	-23.880	1.00	50.61	Al6S	ATOM	48714	C5	URI	1374	186.653	115.776	-24.488	1.00	44.79	Al
ATOM	48662	C5'	URI	1372	188.838	129.031	-23.748	1.00	50.61	Al6S	ATOM	48715	N7	URI	1374	186.903	115.580	-25.185	1.00	44.79	Al
ATOM	48663	C4'	URI	1372	189.352	127.772	-24.157	1.00	50.61	Al6S	ATOM	48716	C8	URI	1374	185.399	116.432	-25.028	1.00	44.79	Al
ATOM	48664	O4'	URI	1372	190.075	127.138	-23.038	1.00	47.22	Al6S	ATOM	48717	C2'	URI	1374	184.411	115.074	-25.306	1.00	44.79	Al
ATOM	48665	C1'	URI	1372	189.886	127.510	-21.733	1.00	47.22	Al6S	ATOM	48718	O2'	URI	1375	183.379	115.074	-24.152	1.00	36.16	Al
ATOM	48666	N1	URI	1372	190.959	126.124	-23.356	1.00	47.22	Al6S	ATOM	48719	O3'	URI	1375	182.365	114.159	-24.730	1.00	43.65	Al
ATOM	48667	C6	URI	1372	191.163	125.768	-24.495	1.00	47.22	Al6S	ATOM	48720	P	URI	1375	182.942	116.351	-23.503	1.00	43.65	Al
ATOM	48668	O2	URI	1372	191.592	125.539	-22.293	1.00	47.22	Al6S	ATOM	48721	O1P	URI	1375	184.259	114.247	-23.114	1.00	36.16	Al
ATOM	48669	O2	URI	1372	192.001	125.157	-20.129	1.00	47.22	Al6S	ATOM	48722	O2P	URI	1375	184.817	112.999	-23.484	1.00	36.16	Al
ATOM	48670	N3	URI	1372							ATOM	48723	O5'	URI	1375						
ATOM	48671	C4	URI	1372							ATOM	48724	O5'	URI	1375						
ATOM	48672	O4	URI	1372							ATOM	48725	C5'	URI	1375						

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ATOM	48726	C4' URI	1375	185.691	112.480	-22.388	1.00	36.16	Al6s	ATOM	48779	C2' CYT	1377	189.695	110.577	-13.008	1.00	35.03	Al
ATOM	48727	O4' URI	1375	186.809	113.378	-22.180	1.00	36.16	Al6s	ATOM	48780	O2' CYT	1377	191.045	110.587	-12.589	1.00	35.03	Al
ATOM	48728	C1' URI	1375	187.202	113.351	-20.816	1.00	36.16	Al6s	ATOM	48781	O3' CYT	1377	189.027	109.204	-13.002	1.00	35.03	Al
ATOM	48729	N1 URI	1375	187.134	114.719	-20.265	1.00	43.65	Al6s	ATOM	48782	O3' CYT	1377	189.498	108.334	-11.983	1.00	35.03	Al
ATOM	48730	C6 URI	1375	186.457	115.720	-20.915	1.00	43.65	Al6s	ATOM	48783	P ADE	1378	188.647	108.147	-10.638	1.00	46.83	Al
ATOM	48731	C2 URI	1375	187.761	114.968	-19.050	1.00	43.65	Al6s	ATOM	48784	O1P ADE	1378	189.435	107.292	-9.712	1.00	35.23	Al
ATOM	48732	O2 URI	1375	187.400	114.131	-18.444	1.00	43.65	Al6s	ATOM	48785	O2P ADE	1378	187.255	107.750	-11.008	1.00	35.23	Al
ATOM	48733	N3 URI	1375	187.611	116.239	-18.570	1.00	43.65	Al6s	ATOM	48786	O5' ADE	1378	188.638	109.610	-10.014	1.00	46.83	Al
ATOM	48734	C4 URI	1375	186.925	117.269	-19.156	1.00	43.65	Al6s	ATOM	48787	C5' ADE	1378	189.822	110.153	-9.421	1.00	46.83	Al
ATOM	48735	O4 URI	1375	186.793	118.329	-18.545	1.00	43.65	Al6s	ATOM	48788	C4' ADE	1378	189.478	111.358	-8.597	1.00	46.83	Al
ATOM	48736	C5 URI	1375	186.335	116.949	-20.415	1.00	36.16	Al6s	ATOM	48789	O4' ADE	1378	187.989	112.400	-9.477	1.00	46.83	Al
ATOM	48737	C2' URI	1375	186.268	112.372	-20.101	1.00	36.16	Al6s	ATOM	48790	C1' ADE	1378	187.752	112.876	-9.000	1.00	46.83	Al
ATOM	48738	O2' URI	1375	186.899	111.109	-20.024	1.00	36.16	Al6s	ATOM	48791	N9' ADE	1378	186.964	113.350	-10.131	1.00	35.23	Al
ATOM	48739	C3' URI	1375	185.052	112.372	-21.025	1.00	36.16	Al6s	ATOM	48792	C4 ADE	1378	186.502	114.631	-10.270	1.00	35.23	Al
ATOM	48740	O3' URI	1375	184.284	111.191	-20.914	1.00	36.16	Al6s	ATOM	48793	N3 ADE	1378	186.644	115.639	-9.401	1.00	35.23	Al
ATOM	48741	P ADE	1376	183.093	111.112	-19.835	1.00	36.51	Al6s	ATOM	48794	C2 ADE	1378	186.101	116.748	-9.884	1.00	35.23	Al
ATOM	48742	O1P ADE	1376	181.795	111.212	-20.543	1.00	49.23	Al6s	ATOM	48795	N1 ADE	1378	185.476	116.950	-11.046	1.00	35.23	Al
ATOM	48743	O2P ADE	1376	183.392	112.039	-18.723	1.00	49.23	Al6s	ATOM	48796	C6 ADE	1378	185.345	115.912	-11.892	1.00	35.23	Al
ATOM	48744	O5' ADE	1376	183.212	109.628	-19.309	1.00	36.51	Al6s	ATOM	48797	N6 ADE	1378	184.721	116.112	-13.053	1.00	35.23	Al
ATOM	48745	C5' ADE	1376	183.021	109.313	-17.951	1.00	36.51	Al6s	ATOM	48798	C5 ADE	1378	185.881	114.678	-11.498	1.00	35.23	Al
ATOM	48746	C4' ADE	1376	183.766	108.059	-17.650	1.00	36.51	Al6s	ATOM	48799	N7 ADE	1378	185.920	113.437	-12.114	1.00	35.23	Al
ATOM	48747	O4' ADE	1376	183.584	107.170	-18.779	1.00	36.51	Al6s	ATOM	48800	C8 ADE	1378	186.566	112.684	-11.258	1.00	35.23	Al
ATOM	48748	C1' ADE	1376	184.830	106.865	-19.367	1.00	36.51	Al6s	ATOM	48801	C2' ADE	1378	187.156	111.736	-8.192	1.00	46.83	Al
ATOM	48749	N9 ADE	1376	184.664	106.895	-20.814	1.00	49.23	Al6s	ATOM	48802	O2' ADE	1378	186.229	112.263	-7.278	1.00	46.83	Al
ATOM	48750	C4 ADE	1376	185.091	105.929	-21.682	1.00	49.23	Al6s	ATOM	48803	C3' ADE	1378	188.444	111.933	-6.394	1.00	46.83	Al
ATOM	48751	N3 ADE	1376	185.756	104.807	-21.374	1.00	49.23	Al6s	ATOM	48804	O3' ADE	1378	188.744	111.933	-6.394	1.00	46.83	Al
ATOM	48752	C2 ADE	1376	185.985	104.094	-22.463	1.00	49.23	Al6s	ATOM	48805	P CYT	1379	188.892	111.236	-4.961	1.00	58.40	Al
ATOM	48753	N1 ADE	1376	185.656	104.358	-23.733	1.00	49.23	Al6s	ATOM	48806	O1P CYT	1379	187.936	110.106	-4.875	1.00	58.40	Al
ATOM	48754	C6 ADE	1376	184.997	105.500	-24.007	1.00	49.23	Al6s	ATOM	48807	O2P CYT	1379	188.839	112.326	-3.955	1.00	104.52	Al
ATOM	48755	N6 ADE	1376	184.688	105.768	-25.280	1.00	49.23	Al6s	ATOM	48808	O5' CYT	1379	190.358	110.622	-4.991	1.00	58.40	Al
ATOM	48756	C5 ADE	1376	184.686	106.340	-22.932	1.00	49.23	Al6s	ATOM	48809	C5' CYT	1379	191.471	111.340	-5.577	1.00	58.40	Al
ATOM	48757	N7 ADE	1376	184.031	107.558	-22.859	1.00	49.23	Al6s	ATOM	48810	C4' CYT	1379	192.768	110.639	-5.149	1.00	58.40	Al
ATOM	48758	C8 ADE	1376	184.050	107.845	-21.584	1.00	36.51	Al6s	ATOM	48811	O4' CYT	1379	192.912	110.884	-3.137	1.00	58.40	Al
ATOM	48759	C2' ADE	1376	185.827	107.900	-18.871	1.00	36.51	Al6s	ATOM	48812	C1' CYT	1379	193.457	109.717	-3.137	1.00	58.40	Al
ATOM	48760	O2' ADE	1376	187.113	107.313	-18.817	1.00	36.51	Al6s	ATOM	48813	N1 CYT	1379	192.577	109.276	-2.035	1.00	104.52	Al
ATOM	48761	C3' ADE	1376	185.266	108.236	-17.494	1.00	36.51	Al6s	ATOM	48814	C6 CYT	1379	191.568	108.373	-2.248	1.00	104.52	Al
ATOM	48762	O3' ADE	1376	185.665	107.259	-16.557	1.00	36.51	Al6s	ATOM	48815	C2 CYT	1379	192.795	109.806	-0.746	1.00	104.52	Al
ATOM	48763	P CYT	1377	185.709	107.638	-15.010	1.00	35.03	Al6s	ATOM	48816	O2 CYT	1379	193.723	110.625	-0.571	1.00	104.52	Al
ATOM	48764	O1P CYT	1377	185.753	106.367	-14.216	1.00	37.53	Al6s	ATOM	48817	N3 CYT	1379	191.992	109.413	0.272	1.00	104.52	Al
ATOM	48765	O2P CYT	1377	184.608	108.614	-14.894	1.00	37.53	Al6s	ATOM	48818	N4 CYT	1379	191.010	108.535	0.049	1.00	104.52	Al
ATOM	48766	O5' CYT	1377	187.089	108.417	-14.775	1.00	35.03	Al6s	ATOM	48819	C4 CYT	1379	190.240	108.185	1.084	1.00	104.52	Al
ATOM	48767	C5' CYT	1377	188.339	107.717	-14.895	1.00	35.03	Al6s	ATOM	48820	C5 CYT	1379	190.771	107.978	-1.246	1.00	104.52	Al
ATOM	48768	C4' CYT	1377	189.400	108.618	-14.350	1.00	35.03	Al6s	ATOM	48821	C2' CYT	1379	193.722	108.682	-4.231	1.00	58.40	Al
ATOM	48769	O4' CYT	1377	189.521	109.747	-15.239	1.00	35.03	Al6s	ATOM	48822	O2' CYT	1379	195.105	108.636	-4.508	1.00	58.40	Al
ATOM	48770	C1' CYT	1377	189.674	110.930	-14.494	1.00	35.03	Al6s	ATOM	48823	C3' CYT	1379	192.840	109.189	-5.364	1.00	58.40	Al
ATOM	48771	N1 CYT	1377	188.651	111.887	-14.928	1.00	37.53	Al6s	ATOM	48824	O3' CYT	1379	193.298	108.850	-6.685	1.00	58.40	Al
ATOM	48772	C6 CYT	1377	187.622	111.502	-15.735	1.00	37.53	Al6s	ATOM	48825	P ADE	1380	194.773	109.305	-7.201	1.00	51.31	Al
ATOM	48773	C2 CYT	1377	188.768	113.209	-14.527	1.00	37.53	Al6s	ATOM	48826	O1P ADE	1380	195.623	108.078	-6.442	1.00	51.78	Al
ATOM	48774	O2 CYT	1377	189.689	113.522	-13.755	1.00	37.53	Al6s	ATOM	48827	O2P ADE	1380	195.279	110.507	-6.447	1.00	51.78	Al
ATOM	48775	N3 CYT	1377	187.882	114.118	-14.983	1.00	37.53	Al6s	ATOM	48828	O5' ADE	1380	194.842	111.098	-9.089	1.00	51.31	Al
ATOM	48776	C4 CYT	1377	186.907	113.741	-15.799	1.00	37.53	Al6s	ATOM	48829	C5' ADE	1380	193.793	111.660	-9.986	1.00	51.31	Al
ATOM	48777	N4 CYT	1377	186.087	114.676	-16.255	1.00	37.53	Al6s	ATOM	48830	C4' ADE	1380	192.655	112.107	-9.214	1.00	51.31	Al
ATOM	48778	C5 CYT	1377	186.739	112.388	-16.192	1.00	37.53	Al6s	ATOM	48831	O4' ADE	1380						Al

ATOM	48832	C1' ADE	1380	192.126	113.295	-9.792	1.00	51.31	Al6S	ATOM	48885	C3' CYT	1382	200.047	107.469	-11.682	1.00	36.84	Al
ATOM	48833	N9 ADE	1380	192.255	114.381	-8.820	1.00	51.78	Al6S	ATOM	48886	O3' CYT	1382	199.690	106.237	-11.064	1.00	36.84	Al
ATOM	48834	C4 ADE	1380	191.613	115.595	-8.880	1.00	51.78	Al6S	ATOM	48887	P	1383	199.404	105.428	-11.568	1.00	49.51	Al
ATOM	48835	N3 ADE	1380	190.744	116.012	-9.814	1.00	51.78	Al6S	ATOM	48888	OLP GUA	1383	197.952	104.547	-10.455	1.00	55.64	Al
ATOM	48836	C2 ADE	1380	190.334	117.244	-9.552	1.00	51.78	Al6S	ATOM	48889	O2P GUA	1383	198.761	104.823	-12.885	1.00	55.64	Al
ATOM	48837	N1 ADE	1380	190.670	118.051	-8.548	1.00	51.78	Al6S	ATOM	48890	O5' GUA	1383	197.312	106.563	-11.829	1.00	49.51	Al
ATOM	48838	C6 ADE	1380	191.549	117.606	-7.628	1.00	51.78	Al6S	ATOM	48891	C5' GUA	1383	196.621	107.211	-10.750	1.00	49.51	Al
ATOM	48839	N6 ADE	1380	191.893	118.416	-6.627	1.00	51.78	Al6S	ATOM	48892	C4' GUA	1383	195.236	107.659	-11.192	1.00	49.51	Al
ATOM	48840	C5 ADE	1380	192.054	116.310	-7.783	1.00	51.78	Al6S	ATOM	48893	O4' GUA	1383	195.342	108.598	-12.301	1.00	49.51	Al
ATOM	48841	N7 ADE	1380	192.950	115.560	-7.031	1.00	51.78	Al6S	ATOM	48894	C1' GUA	1383	194.253	108.415	-13.194	1.00	49.51	Al
ATOM	48842	C8 ADE	1380	193.036	114.426	-7.686	1.00	51.78	Al6S	ATOM	48895	N9 GUA	1383	194.778	107.867	-14.442	1.00	55.64	Al
ATOM	48843	C2' ADE	1380	192.950	113.607	-11.036	1.00	51.31	Al6S	ATOM	48896	C4 GUA	1383	194.077	107.642	-15.602	1.00	55.64	Al
ATOM	48844	O2' ADE	1380	192.326	113.105	-12.205	1.00	51.31	Al6S	ATOM	48897	N3 GUA	1383	192.792	107.966	-15.826	1.00	55.64	Al
ATOM	48845	C3' ADE	1380	194.250	112.905	-10.695	1.00	51.31	Al6S	ATOM	48898	C2 GUA	1383	192.384	107.568	-17.012	1.00	55.64	Al
ATOM	48846	O3' ADE	1380	195.001	112.553	-11.805	1.00	51.31	Al6S	ATOM	48899	N2 GUA	1383	191.133	107.806	-17.392	1.00	55.64	Al
ATOM	48847	P	1381	196.182	113.503	-12.259	1.00	38.25	Al6S	ATOM	48900	N1 GUA	1383	193.172	106.907	-17.909	1.00	55.64	Al
ATOM	48848	OLP CYT	1381	197.000	113.880	-11.071	1.00	58.50	Al6S	ATOM	48901	C6 GUA	1383	194.499	106.563	-17.701	1.00	55.64	Al
ATOM	48849	O2P CYT	1381	195.565	114.555	-13.098	1.00	58.50	Al6S	ATOM	48902	O6 GUA	1383	195.120	105.953	-18.571	1.00	55.64	Al
ATOM	48850	O5' CYT	1381	197.045	112.552	-13.185	1.00	38.25	Al6S	ATOM	48903	C5 GUA	1383	194.953	106.990	-16.435	1.00	55.64	Al
ATOM	48851	C5' CYT	1381	197.650	111.344	-12.674	1.00	38.25	Al6S	ATOM	48904	N7 GUA	1383	196.049	107.404	-14.666	1.00	55.64	Al
ATOM	48852	C4' CYT	1381	198.288	110.594	-13.813	1.00	38.25	Al6S	ATOM	48905	C8 GUA	1383	193.320	107.388	-12.548	1.00	49.51	Al
ATOM	48853	O4' CYT	1381	197.229	110.066	-14.644	1.00	38.25	Al6S	ATOM	48906	C2' GUA	1383	192.366	108.043	-11.739	1.00	49.51	Al
ATOM	48854	C1' CYT	1381	197.337	110.600	-15.944	1.00	38.25	Al6S	ATOM	48907	O2' GUA	1383	194.287	105.584	-11.697	1.00	49.51	Al
ATOM	48855	N1 CYT	1381	195.978	110.745	-16.488	1.00	58.50	Al6S	ATOM	48908	C3' GUA	1383	193.590	105.943	-10.645	1.00	43.36	Al
ATOM	48856	C6 CYT	1381	195.077	111.596	-15.918	1.00	58.50	Al6S	ATOM	48909	O3' GUA	1384	193.268	104.371	-10.749	1.00	43.36	Al
ATOM	48857	C2 CYT	1381	196.446	109.210	-18.090	1.00	58.50	Al6S	ATOM	48910	P	1384	192.445	104.025	-9.570	1.00	46.64	Al
ATOM	48858	O2 CYT	1381	194.384	110.117	-18.125	1.00	58.50	Al6S	ATOM	48911	OLP CYT	1384	194.538	104.650	-11.000	1.00	46.64	Al
ATOM	48859	N3 CYT	1381	193.517	110.965	-17.575	1.00	58.50	Al6S	ATOM	48912	O2P CYT	1384	192.327	104.231	-12.023	1.00	43.36	Al
ATOM	48860	C4 CYT	1381	192.317	111.092	-18.146	1.00	58.50	Al6S	ATOM	48913	O5' CYT	1384	190.437	104.820	-13.398	1.00	43.36	Al
ATOM	48861	N4 CYT	1381	198.845	111.733	-16.422	1.00	58.50	Al6S	ATOM	48914	C5' CYT	1384	191.375	105.400	-14.344	1.00	43.36	Al
ATOM	48862	C5 CYT	1381	198.166	111.879	-15.815	1.00	38.25	Al6S	ATOM	48915	C4' CYT	1384	191.188	104.810	-15.621	1.00	43.36	Al
ATOM	48863	C2' CYT	1381	198.852	112.209	-16.994	1.00	38.25	Al6S	ATOM	48916	O1' CYT	1384	193.516	104.007	-15.242	1.00	46.64	Al
ATOM	48864	O2' CYT	1381	200.198	110.756	-15.299	1.00	38.25	Al6S	ATOM	48917	N1 CYT	1384	192.562	103.856	-17.567	1.00	46.64	Al
ATOM	48865	C3' CYT	1381	201.618	110.647	-14.557	1.00	60.02	Al6S	ATOM	48918	C6 CYT	1384	193.698	103.290	-17.893	1.00	46.64	Al
ATOM	48866	O3' CYT	1381	201.879	111.916	-13.831	1.00	60.02	Al6S	ATOM	48919	O2 CYT	1384	194.718	103.077	-17.063	1.00	46.64	Al
ATOM	48867	P	1382	202.577	110.184	-15.588	1.00	60.02	Al6S	ATOM	48920	C2 CYT	1384	195.817	102.493	-17.567	1.00	46.64	Al
ATOM	48868	OLP CYT	1382	202.577	110.184	-15.588	1.00	60.02	Al6S	ATOM	48921	O2 CYT	1384	194.655	103.446	-15.682	1.00	46.64	Al
ATOM	48869	O2P CYT	1382	201.090	107.206	-12.763	1.00	36.84	Al6S	ATOM	48922	N3 CYT	1384	190.068	103.775	-15.488	1.00	43.36	Al
ATOM	48870	O5' CYT	1382	201.418	109.474	-13.502	1.00	36.84	Al6S	ATOM	48923	C4 CYT	1384	188.841	104.347	-15.918	1.00	43.36	Al
ATOM	48871	C5' CYT	1382	202.385	107.350	-12.126	1.00	36.84	Al6S	ATOM	48924	N4 CYT	1384	190.111	102.466	-13.993	1.00	43.36	Al
ATOM	48872	C4' CYT	1382	202.224	107.734	-10.784	1.00	36.84	Al6S	ATOM	48925	C5 CYT	1384	188.887	102.944	-13.509	1.00	43.36	Al
ATOM	48873	O4' CYT	1382	203.307	108.668	-10.454	1.00	60.02	Al6S	ATOM	48926	C2' CYT	1384	188.765	102.368	-13.233	1.00	62.70	Al
ATOM	48874	C1' CYT	1382	203.536	109.777	-9.346	1.00	60.02	Al6S	ATOM	48927	O2' CYT	1384	187.443	101.082	-12.638	1.00	58.54	Al
ATOM	48875	N1 CYT	1382	203.887	107.392	-8.659	1.00	60.02	Al6S	ATOM	48928	C3' CYT	1385	189.992	100.945	-12.510	1.00	62.70	Al
ATOM	48876	C6 CYT	1382	205.362	110.305	-9.825	1.00	60.02	Al6S	ATOM	48929	O3' CYT	1385	187.984	101.240	-15.763	1.00	62.70	Al
ATOM	48877	C2 CYT	1382	206.362	111.091	-9.514	1.00	60.02	Al6S	ATOM	48930	P	1385	188.573	100.864	-17.111	1.00	62.70	Al
ATOM	48878	O2 CYT	1382	204.544	110.613	-10.950	1.00	60.02	Al6S	ATOM	48931	OLP CYT	1385	189.868	101.499	-17.279	1.00	62.70	Al
ATOM	48879	N3 CYT	1382	200.812	108.307	-10.661	1.00	36.84	Al6S	ATOM	48932	O2P CYT	1385	190.740	100.636	-17.990	1.00	62.70	Al
ATOM	48880	C4 CYT	1382	200.317	108.123	-9.349	1.00	36.84	Al6S	ATOM	48933	O5' CYT	1385						
ATOM	48881	N4 CYT	1382							ATOM	48934	C5' CYT	1385						
ATOM	48882	C5 CYT	1382							ATOM	48935	C4' CYT	1385						
ATOM	48883	C2' CYT	1382							ATOM	48936	O4' CYT	1385						
ATOM	48884	O2' CYT	1382							ATOM	48937	C1' CYT	1385						

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ATOM	48938	N1	CYT	1385	191.925	100.366	-17.149	1.00	58.54	Al6S	ATOM	48991	C3' GUA	1387	189.442	89.283	-22.690	1.00	57.86	Al
ATOM	48939	C6	CYT	1385	192.060	100.944	-15.916	1.00	58.54	Al6S	ATOM	48992	O3' GUA	1387	188.737	88.073	-22.951	1.00	57.86	Al
ATOM	48940	C2	CYT	1385	192.913	99.508	-17.631	1.00	58.54	Al6S	ATOM	48993	P	1388	188.910	86.825	-21.945	1.00	75.14	Al
ATOM	48941	O2	CYT	1385	192.762	98.991	-18.744	1.00	58.54	Al6S	ATOM	48994	O1P URI	1388	187.735	85.936	-22.098	1.00	64.50	Al
ATOM	48942	N3	CYT	1385	194.006	99.262	-16.871	1.00	58.54	Al6S	ATOM	48995	O2P URI	1388	189.279	87.336	-20.600	1.00	64.50	Al
ATOM	48943	C4	CYT	1385	194.125	99.829	-15.669	1.00	58.54	Al6S	ATOM	48996	O5' URI	1388	190.189	86.050	-22.488	1.00	75.14	Al
ATOM	48944	N4	CYT	1385	195.214	99.554	-14.945	1.00	58.54	Al6S	ATOM	48997	C5' URI	1388	190.361	85.756	-23.891	1.00	75.14	Al
ATOM	48945	C5	CYT	1385	193.132	100.703	-15.151	1.00	58.54	Al6S	ATOM	48998	C4' URI	1388	191.772	85.265	-24.147	1.00	75.14	Al
ATOM	48946	C2'	CYT	1385	189.956	99.377	-18.376	1.00	62.70	Al6S	ATOM	48999	O4' URI	1388	192.723	86.340	-23.914	1.00	75.14	Al
ATOM	48947	O2'	CYT	1385	189.532	99.491	-19.721	1.00	62.70	Al6S	ATOM	49000	C1' URI	1388	193.920	85.811	-23.359	1.00	75.14	Al
ATOM	48948	C3'	CYT	1385	188.825	99.379	-17.347	1.00	62.70	Al6S	ATOM	49001	N1 URI	1388	194.178	86.473	-22.068	1.00	64.50	Al
ATOM	48949	O3'	CYT	1385	187.644	98.716	-17.813	1.00	62.70	Al6S	ATOM	49002	C6 URI	1388	193.164	87.080	-21.361	1.00	64.50	Al
ATOM	48950	P	CYT	1386	187.407	97.160	-17.465	1.00	51.71	Al6S	ATOM	49003	C2 URI	1388	195.485	86.479	-21.587	1.00	64.50	Al
ATOM	48951	O1P	CYT	1386	185.946	96.960	-17.236	1.00	57.67	Al6S	ATOM	49004	O2 URI	1388	196.411	85.946	-22.171	1.00	64.50	Al
ATOM	48952	O2P	CYT	1386	188.377	96.751	-16.406	1.00	57.67	Al6S	ATOM	49005	N3 URI	1388	195.665	87.137	-20.395	1.00	64.50	Al
ATOM	48953	O5'	CYT	1386	187.826	96.417	-18.809	1.00	51.71	Al6S	ATOM	49006	C4 URI	1388	194.694	87.780	-19.646	1.00	64.50	Al
ATOM	48954	C5'	CYT	1386	187.217	96.764	-20.058	1.00	51.71	Al6S	ATOM	49007	O4 URI	1388	195.013	88.358	-18.597	1.00	64.50	Al
ATOM	48955	C4'	CYT	1386	187.961	96.119	-21.198	1.00	51.71	Al6S	ATOM	49008	C5 URI	1388	193.368	87.716	-20.204	1.00	64.50	Al
ATOM	48956	O4'	CYT	1386	189.273	96.721	-21.325	1.00	51.71	Al6S	ATOM	49009	C2' URI	1388	193.764	84.291	-23.269	1.00	75.14	Al
ATOM	48957	C1'	CYT	1386	190.217	95.738	-21.722	1.00	51.71	Al6S	ATOM	49010	O2' URI	1388	194.353	83.689	-24.411	1.00	75.14	Al
ATOM	48958	N1	CYT	1386	191.249	95.634	-20.669	1.00	57.67	Al6S	ATOM	49011	C3' URI	1388	192.248	84.139	-23.240	1.00	75.14	Al
ATOM	48959	C6	CYT	1386	190.960	95.965	-19.370	1.00	57.67	Al6S	ATOM	49012	O3' URI	1388	191.819	82.871	-23.700	1.00	75.14	Al
ATOM	48960	C2	CYT	1386	192.547	95.199	-21.019	1.00	57.67	Al6S	ATOM	49013	P	1389	191.290	81.793	-22.641	1.00	79.49	Al
ATOM	48961	O2	CYT	1386	192.782	94.853	-22.193	1.00	57.67	Al6S	ATOM	49014	O1P	1389	190.849	80.612	-23.432	1.00	83.21	Al
ATOM	48962	N3	CYT	1386	193.503	95.151	-20.062	1.00	57.67	Al6S	ATOM	49015	O2P	1389	190.333	82.454	-21.711	1.00	83.21	Al
ATOM	48963	C4	CYT	1386	193.209	95.515	-18.808	1.00	57.67	Al6S	ATOM	49016	O5' URI	1389	192.594	81.408	-21.814	1.00	79.49	Al
ATOM	48964	N4	CYT	1386	194.189	95.433	-17.916	1.00	57.67	Al6S	ATOM	49017	C5' URI	1389	193.680	80.708	-22.441	1.00	79.49	Al
ATOM	48965	C5	CYT	1386	191.898	95.917	-18.419	1.00	57.67	Al6S	ATOM	49018	C4' URI	1389	194.894	80.716	-21.548	1.00	79.49	Al
ATOM	48966	C2'	CYT	1386	189.458	94.431	-21.937	1.00	51.71	Al6S	ATOM	49019	O4' URI	1389	195.320	82.084	-21.339	1.00	79.49	Al
ATOM	48967	O2'	CYT	1386	189.130	94.278	-23.308	1.00	51.71	Al6S	ATOM	49020	C1' URI	1389	195.848	82.223	-20.032	1.00	79.49	Al
ATOM	48968	C3'	CYT	1386	188.248	94.639	-21.036	1.00	51.71	Al6S	ATOM	49021	N1	1389	195.080	83.259	-19.319	1.00	83.21	Al
ATOM	48969	O3'	CYT	1386	187.152	93.813	-21.366	1.00	51.71	Al6S	ATOM	49022	C6	1389	193.788	83.553	-19.668	1.00	83.21	Al
ATOM	48970	P	GUA	1387	186.939	92.444	-20.557	1.00	57.86	Al6S	ATOM	49023	C2	1389	195.694	83.927	-18.255	1.00	83.21	Al
ATOM	48971	O1P	GUA	1387	185.522	92.042	-20.764	1.00	69.34	Al6S	ATOM	49024	O2	1389	196.875	83.660	-17.978	1.00	83.21	Al
ATOM	48972	O2P	GUA	1387	187.462	92.601	-19.174	1.00	69.34	Al6S	ATOM	49025	N3	1389	194.989	84.842	-17.556	1.00	83.21	Al
ATOM	48973	O5'	GUA	1387	187.881	91.421	-21.328	1.00	57.86	Al6S	ATOM	49026	C4	1389	193.722	85.103	-17.887	1.00	83.21	Al
ATOM	48974	C5'	GUA	1387	187.639	91.136	-22.709	1.00	57.86	Al6S	ATOM	49027	N4	1389	193.057	85.995	-17.147	1.00	83.21	Al
ATOM	48975	C4'	GUA	1387	188.849	90.512	-23.354	1.00	57.86	Al6S	ATOM	49028	C5	1389	193.079	84.457	-18.986	1.00	83.21	Al
ATOM	48976	O4'	GUA	1387	189.952	91.460	-23.379	1.00	57.86	Al6S	ATOM	49029	C2'	1389	195.774	80.859	-19.337	1.00	79.49	Al
ATOM	48977	C1'	GUA	1387	191.182	90.758	-23.301	1.00	57.86	Al6S	ATOM	49030	O2' URI	1389	197.026	80.202	-19.383	1.00	79.49	Al
ATOM	48978	N9	GUA	1387	191.857	91.111	-22.054	1.00	69.34	Al6S	ATOM	49031	C3' URI	1389	194.696	80.153	-20.150	1.00	79.49	Al
ATOM	48979	C4	GUA	1387	193.214	91.060	-21.814	1.00	69.34	Al6S	ATOM	49032	O3' URI	1389	194.863	78.743	-20.127	1.00	79.49	Al
ATOM	48980	N3	GUA	1387	195.171	90.716	-22.709	1.00	69.34	Al6S	ATOM	49033	P	1390	194.289	77.893	-18.890	1.00	79.86	Al
ATOM	48981	C2	GUA	1387	196.451	90.412	-22.927	1.00	69.34	Al6S	ATOM	49034	O1P	1390	194.712	76.487	-19.142	1.00	85.66	Al
ATOM	48982	N2	GUA	1387	196.451	90.412	-22.927	1.00	69.34	Al6S	ATOM	49035	O5' ADE	1390	195.098	78.454	-17.633	1.00	85.66	Al
ATOM	48983	N1	GUA	1387	195.640	91.054	-20.857	1.00	69.34	Al6S	ATOM	49036	C5' ADE	1390	196.367	77.881	-17.265	1.00	79.86	Al
ATOM	48984	C6	GUA	1387	195.016	91.682	-18.755	1.00	69.34	Al6S	ATOM	49037	C5' ADE	1390	196.755	78.301	-15.868	1.00	79.86	Al
ATOM	48985	O6	GUA	1387	193.363	91.404	-20.485	1.00	69.34	Al6S	ATOM	49038	C4' ADE	1390	196.648	80.246	-14.575	1.00	79.86	Al
ATOM	48986	C5	GUA	1387	192.131	91.687	-19.909	1.00	69.34	Al6S	ATOM	49039	O1' ADE	1390	195.627	81.274	-14.734	1.00	85.66	Al
ATOM	48987	N7	GUA	1387	191.841	89.267	-23.289	1.00	57.86	Al6S	ATOM	49040	C4	1390	195.294	82.200	-13.780	1.00	85.66	Al
ATOM	48988	C8	GUA	1387	190.842	88.752	-24.614	1.00	57.86	Al6S	ATOM	49041	N9	1390	195.842	82.341	-12.561	1.00	85.66	Al
ATOM	48990	O2'	GUA	1387						Al6S	ATOM	49043	N3	1390						Al

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ATOM	49044	C2	ADE	1390	195.265	83.340	-11.905	1.00	85.66	Al6s	ATOM	49097	O3' GUA	1392	188.397	76.301	-5.199	1.00	96.56	Al
ATOM	49045	N1	ADE	1390	194.272	84.154	-12.300	1.00	85.66	Al6s	ATOM	49098	P	CYT	1393	187.241	75.323	-5.744	1.00158.41	Al
ATOM	49046	C6	ADE	1390	193.742	83.978	-13.534	1.00	85.66	Al6s	ATOM	49099	O1P	CYT	1393	187.040	74.257	-4.736	1.00107.99	Al
ATOM	49047	N6	ADE	1390	192.749	84.781	-13.930	1.00	85.66	Al6s	ATOM	49100	O2P	CYT	1393	187.565	74.950	-7.146	1.00107.99	Al
ATOM	49048	C5	ADE	1390	194.273	82.952	-14.328	1.00	85.66	Al6s	ATOM	49101	O5' CYT	1393	185.937	76.240	-5.746	1.00158.41	Al	
ATOM	49049	N7	ADE	1390	193.972	82.513	-15.609	1.00	85.66	Al6s	ATOM	49102	C5' CYT	1393	185.352	76.694	-4.504	1.00158.41	Al	
ATOM	49050	C8	ADE	1390	194.803	81.520	-15.804	1.00	85.66	Al6s	ATOM	49103	C4' CYT	1393	184.149	77.580	-4.764	1.00158.41	Al	
ATOM	49051	C2' ADE	1390	196.135	79.098	-13.708	1.00	79.86	Al6s	ATOM	49104	O4' CYT	1393	184.570	77.793	-5.442	1.00158.41	Al		
ATOM	49052	O2' ADE	1390	197.148	78.675	-12.821	1.00	79.86	Al6s	ATOM	49105	C1' CYT	1393	183.552	79.219	-6.334	1.00158.41	Al		
ATOM	49053	C3' ADE	1390	195.740	78.065	-14.757	1.00	79.86	Al6s	ATOM	49106	N1	CYT	1393	184.094	79.228	-7.708	1.00107.99	Al	
ATOM	49054	O3' ADE	1390	195.788	76.748	-14.222	1.00	79.86	Al6s	ATOM	49107	C6	CYT	1393	183.138	78.416	-8.059	1.00107.99	Al	
ATOM	49055	P	CYT	1391	194.562	76.211	-13.326	1.00	90.04	Al6s	ATOM	49108	C2	CYT	1393	183.511	80.078	-8.662	1.00107.99	Al
ATOM	49056	O1P	CYT	1391	194.909	74.826	-12.903	1.00	97.40	Al6s	ATOM	49109	O2	CYT	1393	182.570	80.817	-8.319	1.00107.99	Al
ATOM	49057	O2P	CYT	1391	193.293	76.457	-14.063	1.00	97.40	Al6s	ATOM	49110	N3	CYT	1393	183.988	80.072	-9.932	1.00107.99	Al
ATOM	49058	O5' CYT	1391	194.571	77.158	-12.042	1.00	90.04	Al6s	ATOM	49111	C4	CYT	1393	185.004	79.269	-10.260	1.00107.99	Al	
ATOM	49059	C5' CYT	1391	195.551	76.978	-11.002	1.00	90.04	Al6s	ATOM	49112	N4	CYT	1393	185.442	79.293	-11.522	1.00107.99	Al	
ATOM	49060	C4' CYT	1391	195.132	77.704	-9.747	1.00	90.04	Al6s	ATOM	49113	C5	CYT	1393	185.618	78.404	-9.310	1.00107.99	Al	
ATOM	49061	O4' CYT	1391	195.178	79.135	-9.974	1.00	90.04	Al6s	ATOM	49114	C2' CYT	1393	182.368	78.262	-6.184	1.00158.41	Al		
ATOM	49062	C1' CYT	1391	194.145	79.770	-9.233	1.00	90.04	Al6s	ATOM	49115	O2' CYT	1393	181.431	78.809	-5.279	1.00158.41	Al		
ATOM	49063	N1	CYT	1391	193.253	80.487	-10.170	1.00	97.40	Al6s	ATOM	49116	C3' CYT	1393	183.045	77.007	-5.644	1.00158.41	Al	
ATOM	49064	C6	CYT	1391	193.122	80.082	-11.471	1.00	97.40	Al6s	ATOM	49117	O3' CYT	1393	182.135	76.186	-4.913	1.00158.41	Al	
ATOM	49065	C2	CYT	1391	192.522	81.587	-9.699	1.00	97.40	Al6s	ATOM	49118	P	CYT	1394	181.164	75.168	-5.702	1.00160.30	Al
ATOM	49066	O2	CYT	1391	192.665	81.948	-8.519	1.00	97.40	Al6s	ATOM	49119	O1P	CYT	1394	180.518	74.293	-4.687	1.00123.76	Al
ATOM	49067	N3	CYT	1391	191.677	82.229	-10.540	1.00	97.40	Al6s	ATOM	49120	O2P	CYT	1394	180.041	76.115	-6.314	1.00160.30	Al
ATOM	49068	C4	CYT	1391	191.548	81.816	-11.802	1.00	97.40	Al6s	ATOM	49121	O5' CYT	1394	180.909	74.553	-6.834	1.00160.30	Al	
ATOM	49069	N4	CYT	1391	190.695	82.477	-12.592	1.00	97.40	Al6s	ATOM	49122	C5' CYT	1394	179.105	76.802	-5.461	1.00160.30	Al	
ATOM	49070	C5	CYT	1391	192.287	80.709	-12.311	1.00	97.40	Al6s	ATOM	49123	O4' CYT	1394	178.222	77.706	-6.285	1.00160.30	Al	
ATOM	49071	C2' CYT	1391	193.398	78.689	-8.446	1.00	90.04	Al6s	ATOM	49124	C4' CYT	1394	179.053	78.710	-6.925	1.00160.30	Al		
ATOM	49072	O2' CYT	1391	193.859	78.634	-7.108	1.00	90.04	Al6s	ATOM	49125	C1' CYT	1394	178.574	78.966	-6.235	1.00160.30	Al		
ATOM	49073	C3' CYT	1391	193.715	77.441	-9.263	1.00	90.04	Al6s	ATOM	49126	N1	CYT	1394	179.627	78.585	-9.204	1.00123.76	Al	
ATOM	49074	O3' CYT	1391	193.592	76.243	-8.510	1.00	90.04	Al6s	ATOM	49127	C6	CYT	1394	180.587	77.663	-8.876	1.00123.76	Al	
ATOM	49075	P	GUA	1392	192.174	75.487	-8.454	1.00	96.56	Al6s	ATOM	49128	C2	CYT	1394	179.624	79.176	-10.476	1.00123.76	Al
ATOM	49076	O1P	GUA	1392	192.359	74.292	-7.593	1.00105.82	Al6s	ATOM	49129	O2	CYT	1394	178.749	80.016	-10.750	1.00123.76	Al	
ATOM	49077	O2P	GUA	1392	191.675	75.314	-9.843	1.00105.82	Al6s	ATOM	49130	N3	CYT	1394	180.574	78.816	-11.373	1.00123.76	Al	
ATOM	49078	O5' GUA	1392	191.232	76.524	-7.688	1.00	96.56	Al6s	ATOM	49131	C4	CYT	1394	181.498	77.910	-11.041	1.00123.76	Al	
ATOM	49079	C5' GUA	1392	191.451	76.817	-6.290	1.00	96.56	Al6s	ATOM	49132	N4	CYT	1394	182.407	77.581	-11.957	1.00123.76	Al	
ATOM	49080	C4' GUA	1392	190.352	77.700	-5.734	1.00	96.56	Al6s	ATOM	49133	C5	CYT	1394	181.530	77.301	-9.755	1.00123.76	Al	
ATOM	49081	O4' GUA	1392	190.496	79.057	-6.228	1.00	96.56	Al6s	ATOM	49134	C2' CYT	1394	177.286	78.161	-8.423	1.00160.30	Al		
ATOM	49082	C1' GUA	1392	189.215	79.659	-6.337	1.00	96.56	Al6s	ATOM	49135	O2' CYT	1394	176.161	78.964	-8.123	1.00160.30	Al		
ATOM	49083	N9	GUA	1392	188.985	80.022	-7.734	1.00105.82	Al6s	ATOM	49136	C3' CYT	1394	177.490	77.024	-7.431	1.00160.30	Al		
ATOM	49084	C4	GUA	1392	187.990	80.846	-8.209	1.00105.82	Al6s	ATOM	49137	O3' CYT	1394	176.268	76.423	-7.020	1.00160.30	Al		
ATOM	49085	N3	GUA	1392	187.063	81.481	-7.463	1.00105.82	Al6s	ATOM	49138	P	ADE	1395	175.768	75.066	-7.731	1.00106.48	Al	
ATOM	49086	C2	GUA	1392	186.237	82.195	-8.207	1.00105.82	Al6s	ATOM	49139	O1P	ADE	1395	174.941	74.449	-6.820	1.00123.56	Al	
ATOM	49087	N2	GUA	1392	185.252	82.898	-7.627	1.00105.82	Al6s	ATOM	49140	O2P	ADE	1395	176.941	74.268	-8.181	1.00106.48	Al	
ATOM	49088	N1	GUA	1392	186.314	82.276	-9.574	1.00105.82	Al6s	ATOM	49141	O5' ADE	1395	174.996	75.572	-9.028	1.00106.48	Al		
ATOM	49089	C6	GUA	1392	187.258	81.629	-10.362	1.00105.82	Al6s	ATOM	49142	C5' ADE	1395	173.783	76.335	-8.906	1.00106.48	Al		
ATOM	49090	O6	GUA	1392	187.234	81.766	-11.588	1.00105.82	Al6s	ATOM	49143	C4' ADE	1395	173.486	77.051	-10.196	1.00106.48	Al		
ATOM	49091	C5	GUA	1392	188.153	80.864	-9.578	1.00105.82	Al6s	ATOM	49144	O4' ADE	1395	174.593	77.927	-10.518	1.00106.48	Al		
ATOM	49092	N7	GUA	1392	189.230	80.076	-9.957	1.00105.82	Al6s	ATOM	49145	C1' ADE	1395	174.773	77.970	-11.919	1.00106.48	Al		
ATOM	49093	C8	GUA	1392	189.695	79.600	-8.834	1.00105.82	Al6s	ATOM	49146	N9	ADE	1395	176.128	77.519	-12.229	1.00123.56	Al	
ATOM	49094	C2' GUA	1392	188.178	78.648	-5.844	1.00	96.56	Al6s	ATOM	49147	C4	ADE	1395	176.704	77.535	-13.472	1.00123.56	Al	
ATOM	49095	O2' GUA	1392	187.875	78.912	-4.490	1.00	96.56	Al6s	ATOM	49148	N3	ADE	1395	176.149	77.960	-14.617	1.00123.56	Al	
ATOM	49096	C3' GUA	1392	188.909	77.325	-6.047	1.00	96.56	Al6s	ATOM	49149	C2	ADE	1395	176.995	77.814	-15.626	1.00123.56	Al	

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ATOM	49150	N1	ADE	1395	178.241	77.330	-15.624	1.00123.56	Al6S	ATOM	49203	P	GUA	1398	170.345	71.650	-23.407	1.00	89.40	Al
ATOM	49151	C6	ADE	1395	178.772	76.917	-14.455	1.00123.56	Al6S	ATOM	49204	01P	GUA	1398	169.047	71.570	-24.117	1.00	87.97	Al
ATOM	49152	N6	ADE	1395	180.021	76.444	-14.451	1.00123.56	Al6S	ATOM	49205	02P	GUA	1398	170.494	70.989	-22.092	1.00	87.97	Al
ATOM	49153	C5	ADE	1395	177.971	77.015	-13.307	1.00123.56	Al6S	ATOM	49206	05' GUA	1398	171.494	71.123	-24.372	1.00	89.40	Al	
ATOM	49154	N7	ADE	1395	178.195	76.682	-11.980	1.00123.56	Al6S	ATOM	49207	C5' GUA	1398	171.695	71.728	-25.660	1.00	89.40	Al	
ATOM	49155	C8	ADE	1395	177.074	77.000	-11.385	1.00123.56	Al6S	ATOM	49208	C4' GUA	1398	172.856	71.081	-26.378	1.00	89.40	Al	
ATOM	49156	C2' ADE	1395	173.698	77.092	-12.560	1.00106.48	Al6S	ATOM	49209	04' GUA	1398	174.105	71.444	-25.732	1.00	89.40	Al		
ATOM	49157	02' ADE	1395	172.631	77.917	-12.974	1.00106.48	Al6S	ATOM	49210	C1' GUA	1398	175.033	70.377	-25.856	1.00	89.40	Al		
ATOM	49158	C3' ADE	1395	173.329	76.161	-11.413	1.00106.48	Al6S	ATOM	49211	N9' GUA	1398	175.449	69.948	-24.520	1.00	87.97	Al		
ATOM	49159	03' ADE	1395	171.993	75.699	-11.512	1.00106.48	Al6S	ATOM	49212	C4' GUA	1398	176.493	69.098	-24.237	1.00	87.97	Al		
ATOM	49160	P	URI	1396	171.672	74.344	-12.312	1.00	84.70	ATOM	49213	N3' GUA	1398	177.312	68.520	-25.144	1.00	87.97	Al	
ATOM	49161	01P	URI	1396	170.213	74.089	-12.180	1.00112.17	Al6S	ATOM	49214	C2' GUA	1398	178.212	67.744	-24.572	1.00	87.97	Al	
ATOM	49162	02P	URI	1396	172.645	73.308	-11.876	1.00112.17	Al6S	ATOM	49215	N2' GUA	1398	179.100	67.096	-25.328	1.00	87.97	Al	
ATOM	49163	05' URI	1396	171.956	74.712	-13.836	1.00	84.70	Al6S	ATOM	49216	N1' GUA	1398	178.307	67.549	-23.214	1.00	87.97	Al	
ATOM	49164	C5' URI	1396	171.254	75.788	-14.468	1.00	84.70	Al6S	ATOM	49217	C6' GUA	1398	177.480	68.139	-22.260	1.00	87.97	Al	
ATOM	49165	C4' URI	1396	171.887	76.129	-15.793	1.00	84.70	Al6S	ATOM	49218	06' GUA	1398	177.659	67.903	-21.059	1.00	87.97	Al	
ATOM	49166	04' URI	1396	173.270	76.537	-15.607	1.00	84.70	Al6S	ATOM	49219	C5' GUA	1398	176.502	68.974	-22.862	1.00	87.97	Al	
ATOM	49167	C1' URI	1396	174.022	76.204	-16.768	1.00	84.70	Al6S	ATOM	49220	N7' GUA	1398	175.490	69.733	-22.289	1.00	87.97	Al	
ATOM	49168	N1' URI	1396	175.197	75.389	-16.400	1.00112.17	Al6S	ATOM	49221	C8' GUA	1398	174.892	70.291	-23.307	1.00	87.97	Al		
ATOM	49169	C6' URI	1396	175.292	74.751	-15.181	1.00112.17	Al6S	ATOM	49222	C2' GUA	1398	174.355	69.261	-26.656	1.00	89.40	Al		
ATOM	49170	C2' URI	1396	176.217	75.262	-17.343	1.00112.17	Al6S	ATOM	49223	02' GUA	1398	174.724	69.369	-28.019	1.00	89.40	Al		
ATOM	49171	02' URI	1396	176.207	75.836	-18.419	1.00112.17	Al6S	ATOM	49224	C3' GUA	1398	172.877	69.560	-26.421	1.00	89.40	Al		
ATOM	49172	N3' URI	1396	177.253	74.441	-16.974	1.00112.17	Al6S	ATOM	49225	03' GUA	1398	172.052	69.033	-27.456	1.00	89.40	Al		
ATOM	49173	C4' URI	1396	177.391	73.757	-15.788	1.00112.17	Al6S	ATOM	49226	P	GUA	1399	171.143	67.740	-27.166	1.00119.27	Al		
ATOM	49174	04' URI	1396	178.340	72.981	-15.646	1.00112.17	Al6S	ATOM	49227	01P	GUA	1399	170.455	67.404	-28.438	1.00105.54	Al		
ATOM	49175	C5' URI	1396	176.326	73.964	-14.853	1.00112.17	Al6S	ATOM	49228	02P	GUA	1399	170.344	67.980	-25.940	1.00105.54	Al		
ATOM	49176	C2' URI	1396	173.081	75.487	-17.740	1.00	84.70	Al6S	ATOM	49229	05' GUA	1399	172.195	66.596	-26.824	1.00119.27	Al		
ATOM	49177	02' URI	1396	172.607	76.410	-18.700	1.00	84.70	Al6S	ATOM	49230	C5' GUA	1399	173.241	66.242	-27.752	1.00119.27	Al		
ATOM	49178	C3' URI	1396	171.972	75.007	-16.811	1.00	84.70	Al6S	ATOM	49231	C4' GUA	1399	174.308	65.434	-27.050	1.00119.27	Al		
ATOM	49179	03' URI	1396	170.747	74.826	-17.509	1.00	84.70	Al6S	ATOM	49232	04' GUA	1399	174.965	66.261	-26.059	1.00119.27	Al		
ATOM	49180	P	GUA	1397	170.516	73.486	-18.368	1.00	81.76	Al6S	ATOM	49233	C1' GUA	1399	175.283	65.482	-24.920	1.00119.27	Al	
ATOM	49181	01P	GUA	1397	169.067	73.390	-18.697	1.00	94.84	Al6S	ATOM	49234	N9' GUA	1399	174.637	66.082	-23.755	1.00105.54	Al	
ATOM	49182	02P	GUA	1397	171.192	72.363	-17.666	1.00	94.84	Al6S	ATOM	49235	C4' GUA	1399	174.999	65.894	-22.445	1.00105.54	Al	
ATOM	49183	05' GUA	1397	171.312	73.773	-19.713	1.00	81.76	Al6S	ATOM	49236	N3' GUA	1399	176.006	65.111	-22.008	1.00105.54	Al		
ATOM	49184	C5' GUA	1397	170.971	74.900	-20.528	1.00	81.76	Al6S	ATOM	49237	C2' GUA	1399	176.114	65.133	-20.692	1.00105.54	Al		
ATOM	49185	C4' GUA	1397	171.759	74.879	-21.813	1.00	81.76	Al6S	ATOM	49238	N2' GUA	1399	177.058	64.397	-20.091	1.00105.54	Al		
ATOM	49186	04' GUA	1397	173.131	75.295	-21.586	1.00	81.76	Al6S	ATOM	49239	N1' GUA	1399	175.304	65.875	-19.867	1.00105.54	Al		
ATOM	49187	C1' GUA	1397	173.986	74.613	-22.491	1.00	81.76	Al6S	ATOM	49240	C6' GUA	1399	174.262	66.692	-20.291	1.00105.54	Al		
ATOM	49188	N9' GUA	1397	174.971	73.850	-21.726	1.00	94.84	Al6S	ATOM	49241	06' GUA	1399	173.596	67.322	-19.458	1.00105.54	Al		
ATOM	49189	C4' GUA	1397	176.072	73.197	-22.239	1.00	94.84	Al6S	ATOM	49242	C5' GUA	1399	174.127	66.670	-21.707	1.00105.54	Al		
ATOM	49190	N3' GUA	1397	176.445	73.163	-23.543	1.00	94.84	Al6S	ATOM	49243	N7' GUA	1399	173.527	67.326	-22.539	1.00105.54	Al		
ATOM	49191	C2' GUA	1397	177.532	72.431	-23.730	1.00	94.84	Al6S	ATOM	49244	C8' GUA	1399	173.564	66.946	-23.742	1.00105.54	Al		
ATOM	49192	N2' GUA	1397	178.032	72.275	-24.970	1.00	94.84	Al6S	ATOM	49245	C2' GUA	1399	174.856	64.039	-25.195	1.00119.27	Al		
ATOM	49193	N1' GUA	1397	178.206	71.793	-22.717	1.00	94.84	Al6S	ATOM	49246	02' GUA	1399	175.971	63.305	-25.653	1.00119.27	Al		
ATOM	49194	C6' GUA	1397	177.846	71.817	-21.368	1.00	94.84	Al6S	ATOM	49247	C3' GUA	1399	173.801	64.225	-26.279	1.00119.27	Al		
ATOM	49195	06' GUA	1397	178.530	71.205	-20.533	1.00	94.84	Al6S	ATOM	49248	03' GUA	1399	173.712	63.090	-27.131	1.00119.27	Al		
ATOM	49196	C5' GUA	1397	176.675	72.592	-21.155	1.00	94.84	Al6S	ATOM	49249	P	ADE	1400	172.762	61.860	-26.730	1.00147.67	Al	
ATOM	49197	N7' GUA	1397	175.980	72.870	-19.984	1.00	94.84	Al6S	ATOM	49250	01P	ADE	1400	171.688	61.776	-27.753	1.00138.33	Al	
ATOM	49198	C8' GUA	1397	174.984	73.621	-20.368	1.00	94.84	Al6S	ATOM	49251	02P	ADE	1400	172.401	61.972	-25.289	1.00138.33	Al	
ATOM	49199	C2' GUA	1397	173.108	73.715	-23.369	1.00	81.76	Al6S	ATOM	49252	05' ADE	1400	173.713	60.593	-26.899	1.00147.67	Al		
ATOM	49200	02' GUA	1397	172.795	74.385	-24.573	1.00	81.76	Al6S	ATOM	49253	C5' ADE	1400	174.338	60.280	-28.165	1.00147.67	Al		
ATOM	49201	C3' GUA	1397	171.881	73.529	-22.490	1.00	81.76	Al6S	ATOM	49254	C4' ADE	1400	175.229	59.070	-28.007	1.00147.67	Al		
ATOM	49202	03' GUA	1397	170.726	73.190	-23.228	1.00	81.76	Al6S	ATOM	49255	04' ADE	1400	176.328	59.411	-27.123	1.00147.67	Al		

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ATOM	49256	Cl ⁺ ADE	1400	176.593	58.330	-26.244	1.00147.67	Al6S	ATOM	49309	C5 ⁺ CYT	1402	169.987	55.390	-22.285	1.00191.68	Al
ATOM	49257	N9 ADE	1400	176.371	58.792	-24.871	1.00138.33	Al6S	ATOM	49310	C2 ⁺ CYT	1402	170.358	52.520	-17.882	1.00154.29	Al
ATOM	49258	C4 ADE	1400	176.741	58.146	-23.713	1.00138.33	Al6S	ATOM	49311	O2 ⁺ CYT	1402	170.790	52.001	-17.638	1.00154.29	Al
ATOM	49259	N3 ADE	1400	177.369	56.963	-23.601	1.00138.33	Al6S	ATOM	49312	C3 ⁺ CYT	1402	170.241	51.455	-19.967	1.00154.29	Al
ATOM	49260	C2 ADE	1400	177.568	56.655	-22.320	1.00138.33	Al6S	ATOM	49313	O3 ⁺ CYT	1402	169.699	50.230	-19.482	1.00154.29	Al
ATOM	49261	N1 ADE	1400	177.240	57.343	-21.221	1.00138.33	Al6S	ATOM	49314	P ⁺ GUA	1403	168.113	49.962	-19.593	1.00158.74	Al
ATOM	49262	C6 ADE	1400	176.611	58.530	-21.367	1.00138.33	Al6S	ATOM	49315	O1P GUA	1403	167.887	48.528	-19.271	1.00186.90	Al
ATOM	49263	N6 ADE	1400	176.290	59.221	-20.270	1.00138.33	Al6S	ATOM	49316	O2P GUA	1403	167.624	50.506	-20.888	1.00186.90	Al
ATOM	49264	C5 ADE	1400	176.335	58.967	-22.677	1.00138.33	Al6S	ATOM	49317	O5 ⁺ GUA	1403	167.487	50.843	-18.421	1.00158.74	Al
ATOM	49265	N7 ADE	1400	175.712	60.106	-23.168	1.00138.33	Al6S	ATOM	49318	C5 ⁺ GUA	1403	167.645	50.457	-17.040	1.00158.74	Al
ATOM	49266	C8 ADE	1400	175.758	59.953	-24.469	1.00138.33	Al6S	ATOM	49319	C4 ⁺ GUA	1403	167.004	51.477	-16.127	1.00158.74	Al
ATOM	49267	C2 ⁺ ADE	1400	175.685	57.165	-26.646	1.00147.67	Al6S	ATOM	49320	O4 ⁺ GUA	1403	167.696	52.746	-16.263	1.00158.74	Al
ATOM	49268	O2 ⁺ ADE	1400	176.379	56.274	-27.491	1.00147.67	Al6S	ATOM	49321	C1 ⁺ GUA	1403	166.773	53.813	-16.114	1.00158.74	Al
ATOM	49269	C3 ⁺ ADE	1400	174.540	57.887	-27.342	1.00147.67	Al6S	ATOM	49322	N9 GUA	1403	166.743	54.587	-17.355	1.00186.90	Al
ATOM	49270	O3 ⁺ ADE	1400	173.862	57.062	-28.288	1.00147.67	Al6S	ATOM	49323	C4 GUA	1403	166.223	55.854	-17.517	1.00186.90	Al
ATOM	49271	P ⁺ GUA	1401	172.476	56.350	-27.880	1.00196.14	Al6S	ATOM	49324	N3 GUA	1403	165.673	55.618	-16.547	1.00186.90	Al
ATOM	49272	O1P GUA	1401	172.109	55.446	-29.001	1.00129.28	Al6S	ATOM	49325	C2 GUA	1403	165.243	57.779	-17.015	1.00186.90	Al
ATOM	49273	O2P GUA	1401	171.509	57.387	-27.431	1.00129.28	Al6S	ATOM	49326	N2 GUA	1403	164.671	58.664	-16.183	1.00186.90	Al
ATOM	49274	O5 ⁺ GUA	1401	172.850	55.452	-26.616	1.00196.14	Al6S	ATOM	49327	N1 GUA	1403	165.342	58.158	-18.331	1.00186.90	Al
ATOM	49275	C5 ⁺ GUA	1401	173.832	54.401	-26.711	1.00196.14	Al6S	ATOM	49328	C6 GUA	1403	165.902	57.389	-19.347	1.00186.90	Al
ATOM	49276	C4 ⁺ GUA	1401	174.268	53.971	-25.331	1.00196.14	Al6S	ATOM	49329	O6 GUA	1403	165.935	57.826	-20.503	1.00186.90	Al
ATOM	49277	O4 ⁺ GUA	1401	174.866	55.106	-24.651	1.00196.14	Al6S	ATOM	49330	C5 GUA	1403	166.373	56.142	-18.857	1.00186.90	Al
ATOM	49278	Cl ⁺ GUA	1401	174.529	55.077	-23.272	1.00196.14	Al6S	ATOM	49331	N7 GUA	1403	166.990	55.090	-19.522	1.00186.90	Al
ATOM	49279	N9 GUA	1401	173.766	56.283	-22.956	1.00129.28	Al6S	ATOM	49332	C2 ⁺ GUA	1403	167.196	54.195	-18.594	1.00186.90	Al
ATOM	49280	C4 GUA	1401	173.584	56.837	-21.707	1.00129.28	Al6S	ATOM	49333	C2 ⁺ GUA	1403	165.404	53.203	-15.805	1.00158.74	Al
ATOM	49281	N3 GUA	1401	174.107	56.378	-20.547	1.00129.28	Al6S	ATOM	49334	O2 ⁺ GUA	1403	165.184	53.194	-14.408	1.00158.74	Al
ATOM	49282	C2 GUA	1401	173.734	57.114	-19.509	1.00129.28	Al6S	ATOM	49335	C3 ⁺ GUA	1403	165.545	51.809	-16.403	1.00158.74	Al
ATOM	49283	N2 GUA	1401	174.164	56.803	-18.275	1.00129.28	Al6S	ATOM	49336	O3 ⁺ GUA	1403	164.640	50.674	-15.467	1.00158.74	Al
ATOM	49284	Cl ⁺ GUA	1401	172.913	58.210	-19.604	1.00129.28	Al6S	ATOM	49337	P ⁺ GUA	1404	163.181	50.880	-16.467	1.00156.48	Al
ATOM	49285	C6 GUA	1401	172.364	58.701	-20.785	1.00129.28	Al6S	ATOM	49338	O1P GUA	1404	162.544	49.521	-15.776	1.00159.57	Al
ATOM	49286	O6 GUA	1401	171.627	59.697	-21.907	1.00129.28	Al6S	ATOM	49339	C1P GUA	1404	163.318	50.659	-17.948	1.00159.57	Al
ATOM	49287	C5 GUA	1401	172.760	57.925	-21.907	1.00129.28	Al6S	ATOM	49340	O5 ⁺ GUA	1404	162.380	51.989	-16.060	1.00156.48	Al
ATOM	49288	N7 GUA	1401	172.444	58.064	-23.252	1.00129.28	Al6S	ATOM	49341	C5 ⁺ GUA	1404	161.872	52.152	-14.724	1.00156.48	Al
ATOM	49289	C8 GUA	1401	173.065	57.076	-23.835	1.00129.28	Al6S	ATOM	49342	C4 ⁺ GUA	1404	161.102	53.446	-14.601	1.00156.48	Al
ATOM	49290	C2 ⁺ GUA	1401	173.720	53.802	-23.021	1.00196.14	Al6S	ATOM	49343	O4 ⁺ GUA	1404	162.005	54.572	-14.777	1.00156.48	Al
ATOM	49291	O2 ⁺ GUA	1401	174.573	52.774	-22.557	1.00196.14	Al6S	ATOM	49344	Cl ⁺ GUA	1404	161.321	55.638	-15.422	1.00156.48	Al
ATOM	49292	C3 ⁺ GUA	1401	173.149	53.519	-24.405	1.00196.14	Al6S	ATOM	49345	N9 GUA	1404	161.919	55.852	-16.738	1.00159.57	Al
ATOM	49293	O3 ⁺ GUA	1401	172.819	52.147	-24.586	1.00196.14	Al6S	ATOM	49346	C4 GUA	1404	161.635	56.888	-17.600	1.00159.57	Al
ATOM	49294	P ⁺ CYT	1402	171.304	51.656	-24.352	1.00154.29	Al6S	ATOM	49347	N3 GUA	1404	160.778	57.904	-17.362	1.00159.57	Al
ATOM	49295	O1P CYT	1402	171.228	50.231	-24.762	1.00191.68	Al6S	ATOM	49348	C2 GUA	1404	160.701	58.736	-18.386	1.00159.57	Al
ATOM	49296	O2P CYT	1402	170.388	52.646	-24.976	1.00154.29	Al6S	ATOM	49349	N2 GUA	1404	159.896	59.803	-18.313	1.00159.57	Al
ATOM	49297	O5 ⁺ CYT	1402	171.106	51.731	-22.773	1.00154.29	Al6S	ATOM	49350	N1 GUA	1404	161.407	58.585	-19.555	1.00159.57	Al
ATOM	49298	C5 ⁺ CYT	1402	171.829	50.854	-21.887	1.00154.29	Al6S	ATOM	49351	C6 GUA	1404	162.295	57.549	-19.824	1.00159.57	Al
ATOM	49299	C4 ⁺ CYT	1402	171.676	51.317	-20.458	1.00154.29	Al6S	ATOM	49352	O6 GUA	1404	162.882	57.507	-20.914	1.00159.57	Al
ATOM	49300	O4 ⁺ CYT	1402	172.233	52.653	-20.342	1.00154.29	Al6S	ATOM	49353	C5 GUA	1404	162.389	56.645	-18.728	1.00159.57	Al
ATOM	49301	C1 ⁺ CYT	1402	171.433	53.439	-19.471	1.00154.29	Al6S	ATOM	49354	N7 GUA	1404	163.144	55.489	-18.575	1.00159.57	Al
ATOM	49302	N1 CYT	1402	170.853	54.557	-20.251	1.00191.68	Al6S	ATOM	49355	C8 GUA	1404	162.839	55.058	-17.381	1.00159.57	Al
ATOM	49303	C6 CYT	1402	170.533	54.395	-21.517	1.00191.68	Al6S	ATOM	49356	C2 ⁺ GUA	1404	159.867	55.206	-15.592	1.00156.48	Al
ATOM	49304	C2 CYT	1402	170.620	55.792	-19.617	1.00191.68	Al6S	ATOM	49357	O2 ⁺ GUA	1404	159.095	55.669	-14.500	1.00156.48	Al
ATOM	49305	O2 CYT	1402	170.931	55.930	-18.421	1.00191.68	Al6S	ATOM	49358	C3 ⁺ GUA	1404	160.009	53.690	-15.631	1.00156.48	Al
ATOM	49306	N3 CYT	1402	170.064	56.803	-20.329	1.00191.68	Al6S	ATOM	49359	O3 ⁺ GUA	1404	158.785	53.019	-15.367	1.00156.48	Al
ATOM	49307	C4 CYT	1402	169.753	56.625	-21.617	1.00191.68	Al6S	ATOM	49360	P ⁺ GUA	1405	157.760	52.746	-16.581	1.00154.95	Al
ATOM	49308	N4 CYT	1402	169.207	57.649	-22.279	1.00191.68	Al6S	ATOM	49361	O1P GUA	1405	156.790	51.709	-16.139	1.00128.04	Al

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ATOM	49362	O2P	GUA	1405	158.554	52.527	-17.821	1.00128.04	Al6S	ATOM	49415	N3	URI	1407	153.261	56.851	-26.654	1.00139.29	Al
ATOM	49363	O5'	GUA	1405	156.978	54.126	-16.742	1.00154.95	Al6S	ATOM	49416	O4	URI	1407	153.187	55.937	-25.626	1.00139.29	Al
ATOM	49364	C5'	GUA	1405	156.343	54.752	-15.610	1.00154.95	Al6S	ATOM	49417	C4	URI	1407	153.828	54.885	-25.707	1.00139.29	Al
ATOM	49365	C4'	GUA	1405	155.891	56.150	-15.962	1.00154.95	Al6S	ATOM	49418	C5	URI	1407	152.319	56.318	-24.549	1.00139.29	Al
ATOM	49366	O4'	GUA	1405	157.042	56.936	-16.369	1.00154.95	Al6S	ATOM	49419	C2'	URI	1407	149.701	59.509	-26.489	1.00119.70	Al
ATOM	49367	C1'	GUA	1405	156.671	57.837	-17.401	1.00154.95	Al6S	ATOM	49420	O2'	URI	1407	149.544	60.643	-27.317	1.00119.70	Al
ATOM	49368	N9	GUA	1405	157.403	57.484	-18.617	1.00128.04	Al6S	ATOM	49421	C3'	URI	1407	148.694	59.454	-25.344	1.00119.70	Al
ATOM	49369	C4	GUA	1405	157.525	58.262	-19.744	1.00128.04	Al6S	ATOM	49422	O3'	URI	1407	147.410	59.932	-25.709	1.00119.70	Al
ATOM	49370	N3	GUA	1405	157.005	59.497	-19.914	1.00128.04	Al6S	ATOM	49423	P	CYT	1408	146.372	58.939	-26.420	1.0089.62	Al
ATOM	49371	C2	GUA	1405	157.287	59.991	-21.107	1.00128.04	Al6S	ATOM	49424	O1P	CYT	1408	145.051	59.618	-26.436	1.00119.18	Al
ATOM	49372	N2	GUA	1405	156.850	61.216	-21.440	1.00128.04	Al6S	ATOM	49425	O2P	CYT	1408	146.501	57.592	-27.813	1.0089.62	Al
ATOM	49373	N1	GUA	1405	158.019	59.322	-22.061	1.00128.04	Al6S	ATOM	49426	O5'	CYT	1408	146.912	58.877	-27.914	1.0089.62	Al
ATOM	49374	C6	GUA	1405	158.561	58.048	-21.908	1.00128.04	Al6S	ATOM	49427	C5'	CYT	1408	146.987	60.078	-28.693	1.0089.62	Al
ATOM	49375	O6	GUA	1405	159.200	57.533	-22.833	1.00128.04	Al6S	ATOM	49428	C4'	CYT	1408	147.676	59.818	-30.004	1.0089.62	Al
ATOM	49376	C5	GUA	1405	158.270	57.510	-20.630	1.00128.04	Al6S	ATOM	49429	O4'	CYT	1408	149.076	59.511	-29.782	1.0089.62	Al
ATOM	49377	N7	GUA	1405	158.617	56.288	-20.069	1.00128.04	Al6S	ATOM	49430	C1'	CYT	1408	149.525	58.609	-30.783	1.0089.62	Al
ATOM	49378	C8	GUA	1405	158.086	56.317	-18.877	1.00128.04	Al6S	ATOM	49431	N1	CYT	1408	150.027	57.386	-30.135	1.00119.18	Al
ATOM	49379	C2'	GUA	1405	155.167	57.693	-17.614	1.00154.95	Al6S	ATOM	49432	C6	CYT	1408	149.654	57.059	-28.860	1.00119.18	Al
ATOM	49380	O2'	GUA	1405	154.492	58.660	-16.835	1.00154.95	Al6S	ATOM	49433	C2	CYT	1408	150.894	56.548	-30.857	1.00119.18	Al
ATOM	49381	C3'	GUA	1405	154.933	56.266	-17.136	1.00154.95	Al6S	ATOM	49434	O2	CYT	1408	151.220	56.865	-32.014	1.00119.18	Al
ATOM	49382	O3'	GUA	1405	153.582	56.021	-16.777	1.00154.95	Al6S	ATOM	49435	N3	CYT	1408	151.349	55.415	-30.277	1.00119.18	Al
ATOM	49383	P	CYT	1406	152.531	55.585	-17.915	1.00176.11	Al6S	ATOM	49436	C4	CYT	1408	150.975	55.104	-29.032	1.00119.18	Al
ATOM	49384	O1P	CYT	1406	151.259	55.232	-17.230	1.00135.32	Al6S	ATOM	49437	N4	CYT	1408	151.449	53.973	-28.501	1.00119.18	Al
ATOM	49385	O2P	CYT	1406	153.175	54.539	-18.825	1.00135.32	Al6S	ATOM	49438	C5'	CYT	1408	150.098	55.939	-28.277	1.00119.18	Al
ATOM	49386	O5'	CYT	1406	152.302	56.926	-18.742	1.00176.11	Al6S	ATOM	49439	C2'	CYT	1408	148.345	58.308	-31.709	1.0089.62	Al
ATOM	49387	C5'	CYT	1406	151.878	58.130	-18.080	1.00176.11	Al6S	ATOM	49440	O2'	CYT	1408	148.432	59.111	-32.873	1.0089.62	Al
ATOM	49388	C4'	CYT	1406	151.808	59.273	-19.059	1.00176.11	Al6S	ATOM	49441	C3'	CYT	1408	147.157	58.643	-30.811	1.0089.62	Al
ATOM	49389	O4'	CYT	1406	153.142	59.627	-19.513	1.00176.11	Al6S	ATOM	49442	P	CYT	1408	145.976	58.954	-31.538	1.0089.62	Al
ATOM	49390	C1'	CYT	1406	153.085	60.058	-20.866	1.00176.11	Al6S	ATOM	49443	O3'	URI	1409	144.942	57.779	-31.896	1.00110.48	Al
ATOM	49391	N1	CYT	1406	153.920	59.165	-21.695	1.00135.32	Al6S	ATOM	49444	O1P	URI	1409	143.689	58.409	-32.381	1.0087.55	Al
ATOM	49392	C6	CYT	1406	154.349	57.954	-21.222	1.00135.32	Al6S	ATOM	49445	O2P	URI	1409	144.895	56.841	-30.742	1.0087.55	Al
ATOM	49393	C2	CYT	1406	154.257	59.575	-22.996	1.00135.32	Al6S	ATOM	49446	O5'	URI	1409	145.642	57.029	-33.113	1.00110.48	Al
ATOM	49394	O2	CYT	1406	153.867	60.684	-23.402	1.00135.32	Al6S	ATOM	49447	C5'	URI	1409	145.962	57.736	-34.327	1.00110.48	Al
ATOM	49395	N3	CYT	1406	154.967	58.753	-23.777	1.00135.32	Al6S	ATOM	49448	C4'	URI	1409	146.712	56.833	-35.274	1.00110.48	Al
ATOM	49396	C4	CYT	1406	155.400	57.569	-23.307	1.00135.32	Al6S	ATOM	49449	O4'	URI	1409	148.071	56.636	-34.807	1.00110.48	Al
ATOM	49397	N4	CYT	1406	156.119	56.788	-24.118	1.00135.32	Al6S	ATOM	49450	C1'	URI	1409	148.486	55.306	-35.084	1.00110.48	Al
ATOM	49398	C5	CYT	1406	155.082	57.133	-21.987	1.00135.32	Al6S	ATOM	49451	N1	URI	1409	148.779	54.627	-33.811	1.0087.55	Al
ATOM	49399	C2'	CYT	1406	151.621	60.014	-21.304	1.00176.11	Al6S	ATOM	49452	C6	URI	1409	148.259	55.078	-32.617	1.0087.55	Al
ATOM	49400	O2'	CYT	1406	151.044	61.297	-21.169	1.00176.11	Al6S	ATOM	49453	C2	URI	1409	149.533	53.508	-33.850	1.0087.55	Al
ATOM	49401	C3'	CYT	1406	151.042	58.989	-20.338	1.00176.11	Al6S	ATOM	49454	O2	URI	1409	150.076	53.070	-34.884	1.0087.55	Al
ATOM	49402	O3'	CYT	1406	149.638	59.106	-20.175	1.00176.11	Al6S	ATOM	49455	N3	URI	1409	149.822	52.916	-32.632	1.0087.55	Al
ATOM	49403	P	URI	1407	148.668	58.192	-21.071	1.00119.70	Al6S	ATOM	49456	C4	URI	1409	149.335	53.316	-31.409	1.0087.55	Al
ATOM	49404	O1P	URI	1407	147.266	58.532	-20.718	1.00139.29	Al6S	ATOM	49457	O4	URI	1409	149.657	52.694	-30.398	1.0087.55	Al
ATOM	49405	O2P	URI	1407	149.131	56.787	-20.969	1.00139.29	Al6S	ATOM	49458	C5	URI	1409	148.501	54.476	-31.450	1.0087.55	Al
ATOM	49406	O5'	URI	1407	148.951	58.694	-22.555	1.00119.70	Al6S	ATOM	49459	O2'	URI	1409	147.353	54.691	-35.840	1.00110.48	Al
ATOM	49407	C5'	URI	1407	148.877	60.093	-22.875	1.00119.70	Al6S	ATOM	49460	C2'	URI	1409	147.583	54.615	-37.232	1.00110.48	Al
ATOM	49408	C4'	URI	1407	149.333	60.337	-24.291	1.00119.70	Al6S	ATOM	49461	C3'	URI	1409	146.152	55.428	-35.383	1.00110.48	Al
ATOM	49409	O4'	URI	1407	150.755	60.081	-24.423	1.00119.70	Al6S	ATOM	49462	O3'	URI	1409	145.040	55.334	-36.250	1.00110.48	Al
ATOM	49410	C1'	URI	1407	151.028	59.621	-25.736	1.00119.70	Al6S	ATOM	49463	P	ADE	1410	143.931	54.208	-35.971	1.00130.32	Al
ATOM	49411	N1	URI	1407	151.771	58.352	-25.672	1.00139.29	Al6S	ATOM	49464	O1P	ADE	1410	142.744	54.522	-36.807	1.0093.15	Al
ATOM	49412	C6	URI	1407	151.657	57.483	-24.607	1.00139.29	Al6S	ATOM	49465	O2P	ADE	1410	143.772	54.092	-34.490	1.0093.15	Al
ATOM	49413	C2	URI	1407	152.599	58.052	-26.744	1.00139.29	Al6S	ATOM	49466	O5'	ADE	1410	144.619	52.877	-36.518	1.00130.32	Al
ATOM	49414	O2	URI	1407	152.736	58.795	-27.703	1.00139.29	Al6S	ATOM	49467	C5'	ADE	1410	145.106	52.802	-37.874	1.00130.32	Al

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ATOM	49468	C4' ADE	1410	145.887	51.527	-38.085	1.00130.32	Al6s	ATOM	49521	C2' CYT	1412	144.805	40.367	-31.631	1.00103.23	Al
ATOM	49469	O4' ADE	1410	147.157	51.590	-37.391	1.00130.32	Al6s	ATOM	49522	O2' CYT	1412	145.559	39.188	-31.430	1.00103.23	Al
ATOM	49470	C1' ADE	1410	147.516	50.295	-36.937	1.00130.32	Al6s	ATOM	49523	C3' CYT	1412	143.871	40.309	-32.832	1.00103.23	Al
ATOM	49471	N9 ADE	1410	147.755	50.350	-35.492	1.0093.15	Al6s	ATOM	49524	O3' CYT	1412	143.224	39.058	-32.949	1.00103.23	Al
ATOM	49472	C4 ADE	1410	148.556	49.495	-34.771	1.0093.15	Al6s	ATOM	49525	P CYT	1413	141.810	38.847	-32.220	1.0092.60	Al
ATOM	49473	N3 ADE	1410	149.250	48.440	-35.232	1.0093.15	Al6s	ATOM	49526	O1P CYT	1413	141.297	37.497	-32.572	1.0060.58	Al
ATOM	49474	C2 ADE	1410	149.923	47.850	-34.243	1.0093.15	Al6s	ATOM	49527	O2P CYT	1413	140.974	40.048	-32.511	1.0060.58	Al
ATOM	49475	N1 ADE	1410	149.978	48.170	-32.946	1.0093.15	Al6s	ATOM	49528	O5' CYT	1413	142.190	38.839	-30.672	1.0092.60	Al
ATOM	49476	C6 ADE	1410	149.268	49.234	-32.514	1.0093.15	Al6s	ATOM	49529	C5' CYT	1413	142.958	37.758	-30.106	1.0092.60	Al
ATOM	49477	N6 ADE	1410	148.323	49.552	-31.222	1.0093.15	Al6s	ATOM	49530	C4' CYT	1413	143.113	37.942	-28.613	1.0092.60	Al
ATOM	49478	C5 ADE	1410	148.509	49.946	-33.464	1.0093.15	Al6s	ATOM	49531	O4' CYT	1413	143.928	39.113	-28.345	1.0092.60	Al
ATOM	49479	N7 ADE	1410	147.682	51.055	-33.357	1.0093.15	Al6s	ATOM	49532	C1' CYT	1413	143.466	39.763	-27.170	1.0092.60	Al
ATOM	49480	C8 ADE	1410	147.257	51.252	-34.582	1.0093.15	Al6s	ATOM	49533	N1 CYT	1413	142.992	41.114	-27.531	1.0060.58	Al
ATOM	49481	C2' ADE	1410	146.408	49.321	-37.346	1.00130.32	Al6s	ATOM	49534	C6 CYT	1413	142.594	41.403	-28.806	1.0060.58	Al
ATOM	49482	O2' ADE	1410	146.793	48.628	-38.515	1.00130.32	Al6s	ATOM	49535	C2 CYT	1413	142.958	42.101	-26.544	1.0060.58	Al
ATOM	49483	C3' ADE	1410	145.228	50.261	-37.568	1.00130.32	Al6s	ATOM	49536	O2 CYT	1413	143.308	41.809	-25.392	1.0060.58	Al
ATOM	49484	O3' ADE	1410	144.296	49.744	-38.503	1.00130.32	Al6s	ATOM	49537	N3 CYT	1413	142.545	43.347	-26.869	1.0060.58	Al
ATOM	49485	P CYT	1411	142.989	48.982	-37.970	1.00104.68	Al6s	ATOM	49538	C4 CYT	1413	142.169	43.620	-28.119	1.0060.58	Al
ATOM	49486	O1P CYT	1411	142.117	48.698	-39.147	1.0083.44	Al6s	ATOM	49539	N4 CYT	1413	141.775	44.862	-28.400	1.0060.58	Al
ATOM	49487	O2P CYT	1411	142.449	49.776	-36.831	1.0083.44	Al6s	ATOM	49540	C5 CYT	1413	142.181	42.631	-29.140	1.0060.58	Al
ATOM	49488	O5' CYT	1411	143.565	47.599	-37.427	1.00104.68	Al6s	ATOM	49541	C2' CYT	1413	142.345	38.909	-26.588	1.0092.60	Al
ATOM	49489	C5' CYT	1411	144.077	46.629	-38.349	1.00104.68	Al6s	ATOM	49542	O2' CYT	1413	142.887	38.019	-25.633	1.0092.60	Al
ATOM	49490	C4' CYT	1411	144.983	45.645	-37.653	1.00104.68	Al6s	ATOM	49543	C3' CYT	1413	141.836	38.200	-27.832	1.0092.60	Al
ATOM	49491	O4' CYT	1411	146.076	46.345	-37.006	1.00104.68	Al6s	ATOM	49544	O3' CYT	1413	141.117	37.027	-27.523	1.0092.60	Al
ATOM	49492	C1' CYT	1411	146.522	45.590	-35.889	1.00104.68	Al6s	ATOM	49545	P CYT	1414	139.517	37.102	-27.423	1.0079.57	Al
ATOM	49493	N1 CYT	1411	146.427	46.410	-34.666	1.0083.44	Al6s	ATOM	49546	O1P GUA	1414	139.040	35.727	-27.108	1.0062.01	Al
ATOM	49494	C6 CYT	1411	145.609	47.509	-34.602	1.0083.44	Al6s	ATOM	49547	O2P GUA	1414	139.993	37.817	-28.622	1.0062.01	Al
ATOM	49495	C2 CYT	1411	147.191	46.028	-33.543	1.0083.44	Al6s	ATOM	49548	O5' GUA	1414	139.251	38.035	-26.162	1.0079.57	Al
ATOM	49496	O2 CYT	1411	147.938	45.033	-33.628	1.0083.44	Al6s	ATOM	49549	C5' GUA	1414	139.770	37.685	-24.872	1.0079.57	Al
ATOM	49497	N3 CYT	1411	147.092	46.750	-32.401	1.0083.44	Al6s	ATOM	49550	C4' GUA	1414	139.652	38.851	-23.927	1.0079.57	Al
ATOM	49498	C4 CYT	1411	146.283	47.812	-32.348	1.0083.44	Al6s	ATOM	49551	O1' GUA	1414	140.415	39.966	-24.448	1.0079.57	Al
ATOM	49499	N4 CYT	1411	146.216	48.485	-31.197	1.0083.44	Al6s	ATOM	49552	C1' GUA	1414	139.744	41.182	-24.176	1.0079.57	Al
ATOM	49500	C5 CYT	1411	145.506	48.230	-33.475	1.0083.44	Al6s	ATOM	49553	N9 GUA	1414	139.401	41.790	-25.457	1.0062.01	Al
ATOM	49501	C2' CYT	1411	145.642	44.347	-35.789	1.00104.68	Al6s	ATOM	49554	C4 GUA	1414	139.178	43.123	-25.716	1.0062.01	Al
ATOM	49502	O2' CYT	1411	146.292	43.258	-36.417	1.00104.68	Al6s	ATOM	49555	N3 GUA	1414	139.256	44.133	-24.824	1.0062.01	Al
ATOM	49503	C3' CYT	1411	144.397	44.796	-36.541	1.00104.68	Al6s	ATOM	49556	C2' GUA	1414	138.968	45.302	-25.377	1.0062.01	Al
ATOM	49504	O3' CYT	1411	143.669	43.683	-37.019	1.00104.68	Al6s	ATOM	49557	N2 GUA	1414	138.627	45.462	-26.697	1.0062.01	Al
ATOM	49505	P CYT	1412	142.515	43.049	-36.100	1.00103.23	Al6s	ATOM	49558	N1 GUA	1414	138.223	44.688	-28.810	1.0062.01	Al
ATOM	49506	O1P CYT	1412	141.797	42.040	-36.919	1.0080.76	Al6s	ATOM	49559	C6 GUA	1414	138.543	44.436	-27.634	1.0062.01	Al
ATOM	49507	O2P CYT	1412	141.760	44.185	-35.504	1.0080.76	Al6s	ATOM	49560	O6 GUA	1414	138.888	41.922	-27.629	1.0062.01	Al
ATOM	49508	O5' CYT	1412	143.304	42.289	-34.940	1.00103.23	Al6s	ATOM	49561	C5 GUA	1414	138.854	43.183	-27.056	1.0062.01	Al
ATOM	49509	C5' CYT	1412	144.146	41.162	-35.244	1.00103.23	Al6s	ATOM	49562	N7 GUA	1414	138.888	41.922	-27.629	1.0062.01	Al
ATOM	49510	C4' CYT	1412	144.798	40.626	-33.991	1.00103.23	Al6s	ATOM	49563	C8 GUA	1414	139.219	41.130	-26.648	1.0062.01	Al
ATOM	49511	O4' CYT	1412	145.715	41.609	-33.445	1.00103.23	Al6s	ATOM	49564	C2' GUA	1414	138.515	40.840	-23.335	1.0079.57	Al
ATOM	49512	C1' CYT	1412	145.735	41.510	-32.027	1.00103.23	Al6s	ATOM	49565	O2' GUA	1414	138.876	40.935	-21.973	1.0079.57	Al
ATOM	49513	N1 CYT	1412	145.280	42.788	-31.439	1.0080.76	Al6s	ATOM	49566	C3' GUA	1414	138.251	39.397	-23.745	1.0079.57	Al
ATOM	49514	C6 CYT	1412	145.510	43.665	-32.155	1.0080.76	Al6s	ATOM	49567	O3' GUA	1414	137.570	38.658	-22.745	1.0079.57	Al
ATOM	49515	C2 CYT	1412	145.640	43.083	-30.119	1.0080.76	Al6s	ATOM	49568	P ADE	1415	135.989	38.858	-22.537	1.0061.39	Al
ATOM	49516	O2 CYT	1412	146.344	42.216	-29.492	1.0080.76	Al6s	ATOM	49569	O1P ADE	1415	135.290	37.597	-22.882	1.0060.74	Al
ATOM	49517	N3 CYT	1412	145.212	44.236	-29.560	1.0080.76	Al6s	ATOM	49570	O2P ADE	1415	135.579	40.125	-23.200	1.0060.74	Al
ATOM	49518	C4 CYT	1412	144.455	45.080	-30.266	1.0080.76	Al6s	ATOM	49571	O5' ADE	1415	135.863	39.026	-20.960	1.0061.39	Al
ATOM	49519	N4 CYT	1412	144.050	46.203	-29.670	1.0080.76	Al6s	ATOM	49572	C5' ADE	1415	136.489	38.079	-20.071	1.0061.39	Al
ATOM	49520	C5 CYT	1412	144.079	44.810	-31.612	1.0080.76	Al6s	ATOM	49573	C4' ADE	1415	136.467	38.599	-18.658	1.0061.39	Al

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ATOM	49574	O4' ADE	1415	137.337	39.754	-18.548	1.00	61.39	Al65	ATOM	49627	O6 GUA	1417	130.237	42.200	-22.614	1.00	57.19	Al
ATOM	49575	C1' ADE	1415	136.757	40.715	-17.680	1.00	61.39	Al65	ATOM	49628	C5 GUA	1417	129.398	43.107	-20.559	1.00	57.19	Al
ATOM	49576	N9 ADE	1415	136.518	41.944	-18.449	1.00	60.74	Al65	ATOM	49629	N7 GUA	1417	129.296	42.053	-19.657	1.00	57.19	Al
ATOM	49577	C4 ADE	1415	136.283	43.212	-17.956	1.00	60.74	Al65	ATOM	49630	C8 GUA	1417	128.827	42.591	-18.565	1.00	57.19	Al
ATOM	49578	N3 ADE	1415	136.244	43.604	-16.670	1.00	60.74	Al65	ATOM	49631	C2' GUA	1417	126.483	44.881	-17.765	1.00	48.96	Al
ATOM	49579	C2 ADE	1415	135.974	44.904	-16.580	1.00	60.74	Al65	ATOM	49632	O2' GUA	1417	126.020	46.153	-17.364	1.00	48.96	Al
ATOM	49580	N1 ADE	1415	135.748	45.792	-17.552	1.00	60.74	Al65	ATOM	49633	C3' GUA	1417	126.082	43.790	-16.790	1.00	48.96	Al
ATOM	49581	C6 ADE	1415	135.788	45.368	-18.833	1.00	60.74	Al65	ATOM	49634	O3' GUA	1417	124.762	43.968	-16.296	1.00	48.96	Al
ATOM	49582	N6 ADE	1415	135.546	46.246	-19.805	1.00	60.74	Al65	ATOM	49635	P GUA	1420	123.552	43.080	-16.890	1.00	52.42	Al
ATOM	49583	C5 ADE	1415	136.079	44.013	-19.065	1.00	60.74	Al65	ATOM	49636	O1P URI	1418	122.611	42.831	-15.754	1.00	64.86	Al
ATOM	49584	N7 ADE	1415	136.465	42.063	-19.816	1.00	60.74	Al65	ATOM	49637	O5' URI	1418	122.826	44.057	-17.912	1.00	52.42	Al
ATOM	49585	C8 ADE	1415	135.474	40.102	-17.117	1.00	61.39	Al65	ATOM	49638	O5' URI	1418	122.095	41.936	-17.667	1.00	64.86	Al
ATOM	49586	C2' ADE	1415	135.755	39.487	-15.875	1.00	61.39	Al65	ATOM	49639	C5' URI	1418	122.284	45.289	-17.450	1.00	52.42	Al
ATOM	49587	O2' ADE	1415	135.113	39.097	-18.203	1.00	61.39	Al65	ATOM	49640	C4' URI	1418	122.305	46.312	-18.546	1.00	52.42	Al
ATOM	49588	C3' ADE	1415	134.283	38.035	-17.763	1.00	61.39	Al65	ATOM	49641	O4' URI	1418	123.674	46.562	-18.961	1.00	52.42	Al
ATOM	49589	O3' ADE	1415	132.695	38.139	-17.983	1.00	52.47	Al65	ATOM	49642	C1' URI	1418	123.699	46.867	-20.349	1.00	52.42	Al
ATOM	49590	P ADE	1416	132.058	36.942	-17.388	1.00	59.47	Al65	ATOM	49643	N1 URI	1418	124.577	45.898	-21.041	1.00	64.86	Al
ATOM	49591	O1P ADE	1416	132.421	38.489	-19.401	1.00	59.47	Al65	ATOM	49644	C6 URI	1418	124.943	44.709	-20.453	1.00	64.86	Al
ATOM	49592	O2P ADE	1416	132.282	39.366	-17.063	1.00	52.47	Al65	ATOM	49645	C2 URI	1418	125.018	46.214	-22.321	1.00	64.86	Al
ATOM	49593	O5' ADE	1416	132.491	39.307	-15.639	1.00	52.47	Al65	ATOM	49646	O2 URI	1418	124.742	47.257	-22.883	1.00	64.86	Al
ATOM	49594	C5' ADE	1416	132.049	40.593	-14.995	1.00	52.47	Al65	ATOM	49647	N3 URI	1418	125.799	45.261	-22.920	1.00	64.86	Al
ATOM	49595	C4' ADE	1416	132.947	41.667	-15.375	1.00	52.47	Al65	ATOM	49648	C4 URI	1418	126.186	44.055	-22.391	1.00	64.86	Al
ATOM	49596	O4' ADE	1416	132.344	42.863	-15.533	1.00	52.47	Al65	ATOM	49649	O4 URI	1418	126.878	43.294	-23.068	1.00	64.86	Al
ATOM	49597	C1' ADE	1416	132.260	44.616	-17.349	1.00	59.47	Al65	ATOM	49650	C5 URI	1418	125.709	43.804	-21.066	1.00	64.86	Al
ATOM	49598	N9 ADE	1416	132.102	45.714	-16.592	1.00	59.47	Al65	ATOM	49651	C2' URI	1418	122.247	46.839	-20.851	1.00	52.42	Al
ATOM	49599	C4 ADE	1416	132.025	46.805	-17.357	1.00	59.47	Al65	ATOM	49652	O2' URI	1418	121.683	48.140	-20.825	1.00	52.42	Al
ATOM	49600	N3 ADE	1416	132.076	46.914	-18.693	1.00	59.47	Al65	ATOM	49653	C3' URI	1418	121.582	45.933	-19.825	1.00	52.42	Al
ATOM	49601	C2 ADE	1416	132.233	45.789	-19.424	1.00	59.47	Al65	ATOM	49654	O3' URI	1418	120.184	46.163	-19.747	1.00	52.42	Al
ATOM	49602	N1 ADE	1416	132.261	45.896	-20.753	1.00	59.47	Al65	ATOM	49655	P CYT	1419	119.197	45.311	-20.679	1.00	49.75	Al
ATOM	49603	C6 ADE	1416	132.345	44.564	-18.728	1.00	59.47	Al65	ATOM	49656	O1P CYT	1419	117.825	45.863	-20.544	1.00	70.21	Al
ATOM	49604	N6 ADE	1416	132.524	42.558	-18.049	1.00	59.47	Al65	ATOM	49657	O2P CYT	1419	119.440	43.874	-20.410	1.00	70.21	Al
ATOM	49605	C5 ADE	1416	130.747	42.561	-15.187	1.00	52.47	Al65	ATOM	49658	O5' CYT	1419	119.713	45.625	-22.151	1.00	49.75	Al
ATOM	49606	N7 ADE	1416	132.524	42.558	-18.049	1.00	59.47	Al65	ATOM	49659	C4' CYT	1419	119.530	46.930	-22.745	1.00	49.75	Al
ATOM	49607	C8 ADE	1416	130.465	42.892	-13.842	1.00	52.47	Al65	ATOM	49660	C5' CYT	1419	120.059	46.933	-24.157	1.00	49.75	Al
ATOM	49608	C2' ADE	1416	130.674	41.064	-15.427	1.00	52.47	Al65	ATOM	49661	O4' CYT	1419	121.490	46.712	-24.109	1.00	49.75	Al
ATOM	49609	O2' ADE	1416	129.632	40.443	-14.691	1.00	52.47	Al65	ATOM	49662	C1' CYT	1419	121.890	45.929	-25.218	1.00	49.75	Al
ATOM	49610	C3' ADE	1416	128.224	40.157	-15.412	1.00	48.96	Al65	ATOM	49663	N1 CYT	1419	122.561	44.702	-24.741	1.00	70.21	Al
ATOM	49611	O3' ADE	1416	127.256	39.680	-14.388	1.00	57.19	Al65	ATOM	49664	C6 CYT	1419	122.390	44.246	-23.465	1.00	70.21	Al
ATOM	49612	P GUA	1417	127.756	41.596	-15.904	1.00	48.96	Al65	ATOM	49665	C2 CYT	1419	123.375	43.997	-25.635	1.00	70.21	Al
ATOM	49613	O1P GUA	1417	127.423	42.638	-14.963	1.00	48.96	Al65	ATOM	49666	O2 CYT	1419	123.532	44.441	-26.781	1.00	70.21	Al
ATOM	49614	O2P GUA	1417	127.136	43.916	-15.700	1.00	48.96	Al65	ATOM	49667	N3 CYT	1419	123.968	42.859	-25.232	1.00	70.21	Al
ATOM	49615	O5' GUA	1417	128.342	44.307	-16.399	1.00	48.96	Al65	ATOM	49668	C4 CYT	1419	123.787	42.419	-23.991	1.00	70.21	Al
ATOM	49616	C4' GUA	1417	128.009	44.825	-17.676	1.00	48.96	Al65	ATOM	49669	N4 CYT	1419	124.392	41.288	-23.643	1.00	70.21	Al
ATOM	49617	O4' GUA	1417	128.931	44.279	-19.977	1.00	57.19	Al65	ATOM	49670	C5 CYT	1419	122.979	43.119	-23.053	1.00	70.21	Al
ATOM	49618	C1' GUA	1417	128.572	43.937	-18.691	1.00	57.19	Al65	ATOM	49671	O2' CYT	1419	120.651	45.625	-26.056	1.00	49.75	Al
ATOM	49619	C1' GUA	1417	128.931	44.279	-19.977	1.00	57.19	Al65	ATOM	49672	C2' CYT	1419	120.570	46.530	-27.134	1.00	49.75	Al
ATOM	49620	N9 GUA	1417	128.848	45.508	-20.522	1.00	57.19	Al65	ATOM	49673	C3' CYT	1419	119.538	45.813	-25.042	1.00	49.75	Al
ATOM	49621	C4 GUA	1417	129.250	45.520	-21.779	1.00	57.19	Al65	ATOM	49674	O3' CYT	1419	118.309	46.112	-25.678	1.00	49.75	Al
ATOM	49622	N3 GUA	1417	129.703	44.413	-22.452	1.00	57.19	Al65	ATOM	49675	P GUA	1420	117.390	44.904	-26.190	1.00	58.27	Al
ATOM	49623	C2 GUA	1417	129.805	43.135	-21.915	1.00	57.19	Al65	ATOM	49676	O1P GUA	1420	116.101	45.449	-26.714	1.00	65.95	Al
ATOM	49624	N2 GUA	1417							ATOM	49677	O2P GUA	1420	117.379	45.895	-25.099	1.00	65.95	Al
ATOM	49625	N1 GUA	1417							ATOM	49678	O5' GUA	1420	118.202	44.281	-27.408	1.00	58.27	Al
ATOM	49626	C6 GUA	1417							ATOM	49679	C5' GUA	1420	118.244	44.950	-28.668	1.00	58.27	Al

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ATOM	49680	C4' GUA	1420	119.010	44.130	-29.670	1.00	58.27	Al6S	ATOM	49733	C5' CYT	1422	117.818	34.763	-28.432	1.00	62.52	Al
ATOM	49681	O4' GUA	1420	120.377	43.977	-29.219	1.00	58.27	Al6S	ATOM	49734	C2' CYT	1422	118.050	31.195	-31.158	1.00	70.41	Al
ATOM	49682	C1' GUA	1420	120.884	42.730	-29.659	1.00	58.27	Al6S	ATOM	49735	O2' CYT	1422	118.672	30.196	-31.943	1.00	70.41	Al
ATOM	49683	N9 GUA	1420	121.321	41.967	-28.497	1.00	65.95	Al6S	ATOM	49736	C3' CYT	1422	116.890	31.865	-31.873	1.00	70.41	Al
ATOM	49684	C4' GUA	1420	122.105	40.843	-28.517	1.00	65.95	Al6S	ATOM	49737	O3' CYT	1422	116.047	30.929	-32.518	1.00	70.41	Al
ATOM	49685	N3 GUA	1420	122.615	40.255	-29.615	1.00	65.95	Al6S	ATOM	49738	P' GUA	1423	114.698	30.456	-31.784	1.00	71.31	Al
ATOM	49686	C2' GUA	1420	123.329	39.182	-29.312	1.00	65.95	Al6S	ATOM	49739	O1P GUA	1423	114.241	29.219	-32.464	1.00	69.79	Al
ATOM	49687	N2 GUA	1420	123.919	38.466	-30.285	1.00	65.95	Al6S	ATOM	49740	O2P GUA	1423	113.779	31.622	-31.689	1.00	69.79	Al
ATOM	49688	N1 GUA	1420	123.521	38.725	-28.035	1.00	65.95	Al6S	ATOM	49741	O5' GUA	1423	115.192	30.060	-30.323	1.00	71.31	Al
ATOM	49689	C6 GUA	1420	123.008	39.315	-26.893	1.00	65.95	Al6S	ATOM	49742	C5' GUA	1423	116.106	28.967	-30.136	1.00	71.31	Al
ATOM	49690	O6 GUA	1420	123.244	38.822	-25.793	1.00	65.95	Al6S	ATOM	49743	C4' GUA	1423	116.336	28.710	-28.665	1.00	71.31	Al
ATOM	49691	C5 GUA	1420	122.243	40.468	-27.199	1.00	65.95	Al6S	ATOM	49744	O4' GUA	1423	117.006	29.847	-28.068	1.00	71.31	Al
ATOM	49692	N7 GUA	1420	121.563	41.344	-26.363	1.00	65.95	Al6S	ATOM	49745	C1' GUA	1423	116.508	30.066	-26.760	1.00	71.31	Al
ATOM	49693	C8 GUA	1420	121.032	42.216	-27.177	1.00	65.95	Al6S	ATOM	49746	N9 GUA	1423	115.883	31.388	-26.738	1.00	69.79	Al
ATOM	49694	C2' GUA	1420	119.778	42.020	-30.438	1.00	58.27	Al6S	ATOM	49747	C4 GUA	1423	115.867	32.276	-25.689	1.00	69.79	Al
ATOM	49695	O2' GUA	1420	119.973	42.249	-31.815	1.00	58.27	Al6S	ATOM	49748	N3 GUA	1423	116.408	32.074	-24.472	1.00	69.79	Al
ATOM	49696	C3' GUA	1420	118.528	42.707	-29.898	1.00	58.27	Al6S	ATOM	49749	C2 GUA	1423	116.252	33.122	-23.684	1.00	69.79	Al
ATOM	49697	O3' GUA	1420	117.435	42.650	-30.814	1.00	58.27	Al6S	ATOM	49750	N2 GUA	1423	116.725	33.088	-22.434	1.00	69.79	Al
ATOM	49698	P' GUA	1421	116.303	41.510	-30.646	1.00	60.75	Al6S	ATOM	49751	N1 GUA	1423	115.619	34.282	-24.062	1.00	69.79	Al
ATOM	49699	O1P CYT	1421	115.169	41.887	-31.536	1.00	65.43	Al6S	ATOM	49752	C6 GUA	1423	115.054	34.516	-25.313	1.00	69.79	Al
ATOM	49700	O2P CYT	1421	116.053	41.258	-29.199	1.00	65.43	Al6S	ATOM	49753	O6 GUA	1423	114.515	35.611	-25.559	1.00	69.79	Al
ATOM	49701	O5' CYT	1421	116.994	40.212	-31.250	1.00	60.75	Al6S	ATOM	49754	N7 GUA	1423	115.205	33.392	-26.165	1.00	69.79	Al
ATOM	49702	C5' CYT	1421	117.252	40.122	-32.650	1.00	60.75	Al6S	ATOM	49755	N7 GUA	1423	114.790	33.199	-27.475	1.00	69.79	Al
ATOM	49703	C4' CYT	1421	118.081	38.905	-32.944	1.00	60.75	Al6S	ATOM	49756	C8 GUA	1423	115.210	32.000	-27.772	1.00	69.79	Al
ATOM	49704	O4' CYT	1421	119.361	39.035	-32.277	1.00	60.75	Al6S	ATOM	49757	C2' GUA	1423	115.542	28.922	-26.439	1.00	71.31	Al
ATOM	49705	C1' CYT	1421	119.817	37.756	-31.875	1.00	60.75	Al6S	ATOM	49758	O2' GUA	1423	116.244	27.892	-25.770	1.00	71.31	Al
ATOM	49706	N1 CYT	1421	119.966	37.734	-30.408	1.00	65.43	Al6S	ATOM	49759	C3' GUA	1423	115.081	28.507	-27.834	1.00	71.31	Al
ATOM	49707	C6 CYT	1421	119.323	38.641	-29.609	1.00	65.43	Al6S	ATOM	49760	O3' GUA	1423	114.643	27.154	-27.898	1.00	71.31	Al
ATOM	49708	C2' CYT	1421	120.788	36.755	-29.842	1.00	65.43	Al6S	ATOM	49761	P' GUA	1424	113.142	26.812	-28.375	1.00	110.57	Al
ATOM	49709	O2' CYT	1421	121.349	35.935	-30.594	1.00	65.43	Al6S	ATOM	49762	O1P GUA	1424	112.717	27.777	-29.423	1.00	114.04	Al
ATOM	49710	N3 CYT	1421	120.950	36.723	-28.498	1.00	65.43	Al6S	ATOM	49763	O2P GUA	1424	112.311	26.643	-27.158	1.00	114.04	Al
ATOM	49711	C4' CYT	1421	120.329	37.618	-27.731	1.00	65.43	Al6S	ATOM	49764	O5' GUA	1424	113.311	25.375	-29.039	1.00	114.04	Al
ATOM	49712	N4 CYT	1421	120.533	37.556	-26.418	1.00	65.43	Al6S	ATOM	49765	C5' GUA	1424	112.950	25.121	-30.410	1.00	110.57	Al
ATOM	49713	C5' CYT	1421	119.475	36.619	-28.278	1.00	65.43	Al6S	ATOM	49766	C4' GUA	1424	113.957	24.189	-31.049	1.00	110.57	Al
ATOM	49714	O2' CYT	1421	118.792	36.729	-32.341	1.00	60.75	Al6S	ATOM	49767	O4' GUA	1424	115.131	24.936	-31.464	1.00	110.57	Al
ATOM	49715	C2' CYT	1421	119.199	36.200	-33.587	1.00	60.75	Al6S	ATOM	49768	C1' GUA	1424	116.293	24.137	-31.302	1.00	114.04	Al
ATOM	49716	C3' CYT	1421	117.538	37.584	-32.428	1.00	60.75	Al6S	ATOM	49769	N9 GUA	1424	117.214	24.854	-30.420	1.00	114.04	Al
ATOM	49717	O3' CYT	1421	116.533	37.007	-33.243	1.00	60.75	Al6S	ATOM	49770	C4 GUA	1424	118.036	24.332	-29.438	1.00	114.04	Al
ATOM	49718	P' CYT	1422	115.434	36.050	-32.562	1.00	70.41	Al6S	ATOM	49771	N3 GUA	1424	118.184	23.022	-29.127	1.00	114.04	Al
ATOM	49719	O1P CYT	1422	114.378	35.767	-33.572	1.00	62.52	Al6S	ATOM	49772	C2 GUA	1424	119.028	22.841	-28.122	1.00	114.04	Al
ATOM	49720	O2P CYT	1422	115.059	36.629	-31.242	1.00	62.52	Al6S	ATOM	49773	N2 GUA	1424	119.293	21.598	-27.691	1.00	114.04	Al
ATOM	49721	O5' CYT	1422	116.235	34.705	-32.275	1.00	70.41	Al6S	ATOM	49774	N1 GUA	1424	119.671	23.867	-27.469	1.00	114.04	Al
ATOM	49722	C5' CYT	1422	117.820	33.972	-33.350	1.00	70.41	Al6S	ATOM	49775	C6 GUA	1424	119.526	25.223	-27.770	1.00	114.04	Al
ATOM	49723	C4' CYT	1422	117.611	32.806	-32.822	1.00	70.41	Al6S	ATOM	49776	O6 GUA	1424	120.130	26.075	-27.105	1.00	114.04	Al
ATOM	49724	O4' CYT	1422	118.734	33.286	-32.039	1.00	70.41	Al6S	ATOM	49777	C5 GUA	1424	118.640	25.425	-28.853	1.00	114.04	Al
ATOM	49725	C1' CYT	1422	119.008	32.367	-30.996	1.00	70.41	Al6S	ATOM	49778	N7 GUA	1424	118.243	26.597	-29.473	1.00	114.04	Al
ATOM	49726	N1 CYT	1422	118.765	33.022	-29.702	1.00	62.52	Al6S	ATOM	49779	C8 GUA	1424	117.408	26.210	-30.397	1.00	114.04	Al
ATOM	49727	C6 CYT	1422	118.028	34.171	-29.611	1.00	62.52	Al6S	ATOM	49780	C2' GUA	1424	115.841	22.760	-30.801	1.00	110.57	Al
ATOM	49728	C2' CYT	1422	119.304	32.440	-28.554	1.00	62.52	Al6S	ATOM	49781	O2' GUA	1424	115.728	21.889	-31.908	1.00	110.57	Al
ATOM	49729	O2' CYT	1422	119.953	31.387	-28.663	1.00	62.52	Al6S	ATOM	49782	C3' GUA	1424	114.493	23.078	-30.157	1.00	110.57	Al
ATOM	49730	N3 CYT	1422	119.103	33.030	-27.359	1.00	62.52	Al6S	ATOM	49783	O3' GUA	1424	113.627	21.939	-30.107	1.00	110.57	Al
ATOM	49731	C4 CYT	1422	118.389	34.151	-27.282	1.00	62.52	Al6S	ATOM	49784	P' GUA	1425	113.257	21.271	-28.684	1.00	117.13	Al
ATOM	49732	N4 CYT	1422	118.219	34.694	-26.081	1.00	62.52	Al6S	ATOM	49785	O1P GUA	1425	111.866	21.674	-28.357	1.00	97.76	Al

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ATOM	49786	O2P	GUA	1425	114.354	21.536	-27.705	1.00	97.76	Al6s	ATOM	49839	N3	GUA	1427	116.711	24.409	-19.479	1.00	74.76	Al
ATOM	49787	O5'	GUA	1425	113.212	19.711	-28.991	1.00	117.13	Al6s	ATOM	49840	C2	GUA	1427	116.221	25.615	-19.252	1.00	74.76	Al
ATOM	49788	C5'	GUA	1425	114.041	18.781	-28.268	1.00	117.13	Al6s	ATOM	49841	N2	GUA	1427	116.215	26.104	-18.008	1.00	74.76	Al
ATOM	49789	C4'	GUA	1425	114.089	17.468	-29.004	1.00	117.13	Al6s	ATOM	49842	N1	GUA	1427	115.699	26.431	-20.228	1.00	74.76	Al
ATOM	49790	O4'	GUA	1425	112.747	16.946	-29.062	1.00	117.13	Al6s	ATOM	49843	C6	GUA	1427	115.611	26.107	-21.578	1.00	74.76	Al
ATOM	49791	C1'	GUA	1425	112.502	16.390	-30.332	1.00	117.13	Al6s	ATOM	49844	O6	GUA	1427	115.134	26.918	-22.383	1.00	74.76	Al
ATOM	49792	N9	GUA	1425	111.298	17.019	-30.855	1.00	97.76	Al6s	ATOM	49845	C5	GUA	1427	116.121	24.814	-21.832	1.00	74.76	Al
ATOM	49793	C4	GUA	1425	110.185	16.364	-31.296	1.00	97.76	Al6s	ATOM	49846	N7	GUA	1427	116.211	24.109	-23.020	1.00	74.76	Al
ATOM	49794	N3	GUA	1425	110.045	15.027	-31.384	1.00	97.76	Al6s	ATOM	49847	C8	GUA	1427	116.761	22.977	-22.682	1.00	74.76	Al
ATOM	49795	C2	GUA	1425	108.845	14.686	-31.818	1.00	97.76	Al6s	ATOM	49848	C2'	GUA	1427	116.897	21.351	-19.357	1.00	80.30	Al
ATOM	49796	N2	GUA	1425	108.536	13.386	-31.978	1.00	97.76	Al6s	ATOM	49849	O2'	GUA	1427	117.812	20.339	-18.453	1.00	80.30	Al
ATOM	49797	N1	GUA	1425	107.856	15.594	-32.131	1.00	97.76	Al6s	ATOM	49850	C3'	GUA	1427	115.884	20.339	-18.869	1.00	80.30	Al
ATOM	49798	C6	GUA	1425	107.981	16.979	-32.040	1.00	97.76	Al6s	ATOM	49851	O3'	GUA	1427	115.418	19.428	-18.888	1.00	80.30	Al
ATOM	49799	O6	GUA	1425	107.024	17.707	-32.330	1.00	97.76	Al6s	ATOM	49852	P	CYT	1428	113.837	19.253	-18.666	1.00	69.79	Al
ATOM	49800	C5	GUA	1425	109.269	17.354	-31.591	1.00	97.76	Al6s	ATOM	49853	O1P	CYT	1428	113.614	17.970	-17.963	1.00	61.61	Al
ATOM	49801	N7	GUA	1425	109.814	18.612	-31.376	1.00	97.76	Al6s	ATOM	49854	O2P	CYT	1428	113.162	19.501	-19.964	1.00	61.61	Al
ATOM	49802	C8	GUA	1425	111.023	18.366	-30.951	1.00	97.76	Al6s	ATOM	49855	O5'	CYT	1428	113.464	20.439	-17.673	1.00	69.79	Al
ATOM	49803	C2'	GUA	1425	113.777	16.493	-31.170	1.00	117.13	Al6s	ATOM	49856	C5'	CYT	1428	114.075	20.526	-16.374	1.00	69.79	Al
ATOM	49804	O2'	GUA	1425	114.422	15.239	-31.138	1.00	117.13	Al6s	ATOM	49857	C4'	CYT	1428	113.694	21.821	-15.692	1.00	69.79	Al
ATOM	49805	C3'	GUA	1425	115.549	17.595	-30.446	1.00	117.13	Al6s	ATOM	49858	O4'	CYT	1428	114.399	22.941	-16.293	1.00	69.79	Al
ATOM	49806	O3'	GUA	1425	115.958	17.375	-30.491	1.00	117.13	Al6s	ATOM	49859	C1'	CYT	1428	113.560	24.086	-16.304	1.00	69.79	Al
ATOM	49807	P	ADE	1426	116.911	18.410	-31.263	1.00	138.75	Al6s	ATOM	49860	N1	CYT	1428	113.287	24.445	-17.714	1.00	61.61	Al
ATOM	49808	O1P	ADE	1426	116.052	19.394	-31.966	1.00	201.09	Al6s	ATOM	49861	C6	CYT	1428	113.450	23.523	-18.709	1.00	61.61	Al
ATOM	49809	O2P	ADE	1426	117.893	17.613	-32.040	1.00	201.09	Al6s	ATOM	49862	C2	CYT	1428	112.841	26.741	-18.022	1.00	61.61	Al
ATOM	49810	O5'	ADE	1426	117.709	19.161	-30.106	1.00	138.75	Al6s	ATOM	49863	O2	CYT	1428	112.708	26.569	-17.108	1.00	61.61	Al
ATOM	49811	C5'	ADE	1426	117.115	19.425	-28.819	1.00	138.75	Al6s	ATOM	49864	N3	CYT	1428	112.563	26.056	-19.312	1.00	61.61	Al
ATOM	49812	C4'	ADE	1426	117.790	18.581	-27.770	1.00	138.75	Al6s	ATOM	49865	C4	CYT	1428	112.715	25.138	-20.272	1.00	61.61	Al
ATOM	49813	O4'	ADE	1426	119.207	18.571	-28.025	1.00	138.75	Al6s	ATOM	49866	N4	CYT	1428	112.421	25.481	-21.532	1.00	61.61	Al
ATOM	49814	C1'	ADE	1426	119.892	18.350	-26.815	1.00	138.75	Al6s	ATOM	49867	C5	CYT	1428	113.177	23.823	-19.986	1.00	61.61	Al
ATOM	49815	N9	ADE	1426	121.096	19.187	-26.799	1.00	201.09	Al6s	ATOM	49868	C2'	CYT	1428	112.275	23.709	-15.563	1.00	69.79	Al
ATOM	49816	C4	ADE	1426	122.242	18.909	-27.510	1.00	201.09	Al6s	ATOM	49869	O2'	CYT	1428	112.379	24.019	-14.186	1.00	69.79	Al
ATOM	49817	N3	ADE	1426	122.467	17.856	-28.318	1.00	201.09	Al6s	ATOM	49870	C3'	CYT	1428	112.230	22.208	-15.782	1.00	69.79	Al
ATOM	49818	C2	ADE	1426	123.690	17.915	-28.840	1.00	201.09	Al6s	ATOM	49871	O3'	CYT	1428	111.411	21.556	-14.831	1.00	69.79	Al
ATOM	49819	N1	ADE	1426	124.645	18.836	-28.661	1.00	201.09	Al6s	ATOM	49872	P	CYT	1429	109.874	21.273	-15.193	1.00	67.08	Al
ATOM	49820	C6	ADE	1426	124.390	19.882	-27.843	1.00	201.09	Al6s	ATOM	49873	O1P	CYT	1429	109.297	20.427	-14.114	1.00	73.63	Al
ATOM	49821	N6	ADE	1426	125.343	20.799	-27.665	1.00	201.09	Al6s	ATOM	49874	O2P	CYT	1429	109.801	20.813	-16.609	1.00	73.63	Al
ATOM	49822	C5	ADE	1426	123.123	19.937	-27.225	1.00	201.09	Al6s	ATOM	49875	O5'	CYT	1429	109.207	22.716	-15.126	1.00	67.08	Al
ATOM	49823	N7	ADE	1426	122.547	20.848	-26.348	1.00	201.09	Al6s	ATOM	49876	C5'	CYT	1429	109.136	23.453	-13.890	1.00	67.08	Al
ATOM	49824	C8	ADE	1426	121.349	20.359	-26.125	1.00	201.09	Al6s	ATOM	49877	C4'	CYT	1429	108.349	24.731	-14.088	1.00	67.08	Al
ATOM	49825	O2'	ADE	1426	118.897	18.446	-25.649	1.00	138.75	Al6s	ATOM	49878	O4'	CYT	1429	109.133	25.681	-14.855	1.00	67.08	Al
ATOM	49826	O2'	ADE	1426	118.695	17.153	-25.112	1.00	138.75	Al6s	ATOM	49879	C1'	CYT	1429	108.282	26.434	-15.701	1.00	67.08	Al
ATOM	49827	C3'	ADE	1426	117.643	19.020	-26.320	1.00	138.75	Al6s	ATOM	49880	N1	CYT	1429	108.641	26.155	-17.100	1.00	73.63	Al
ATOM	49828	O3'	ADE	1426	116.469	18.411	-25.776	1.00	138.75	Al6s	ATOM	49881	C6	CYT	1429	109.381	25.055	-17.432	1.00	73.63	Al
ATOM	49829	P	GUA	1427	115.595	19.174	-24.658	1.00	80.30	Al6s	ATOM	49882	C2	CYT	1429	108.193	27.031	-18.096	1.00	73.63	Al
ATOM	49830	O1P	GUA	1427	114.319	18.415	-24.504	1.00	74.76	Al6s	ATOM	49883	O2	CYT	1429	107.530	28.022	-17.769	1.00	73.63	Al
ATOM	49831	O2P	GUA	1427	115.547	20.628	-25.006	1.00	74.76	Al6s	ATOM	49884	N3	CYT	1429	108.491	26.769	-19.390	1.00	73.63	Al
ATOM	49832	O5'	GUA	1427	116.410	18.985	-23.299	1.00	80.30	Al6s	ATOM	49885	C4	CYT	1429	109.203	25.683	-19.703	1.00	73.63	Al
ATOM	49833	C5'	GUA	1427	115.727	19.089	-22.040	1.00	80.30	Al6s	ATOM	49886	N4	CYT	1429	109.462	25.454	-20.992	1.00	73.63	Al
ATOM	49834	C4'	GUA	1427	116.644	19.626	-20.972	1.00	80.30	Al6s	ATOM	49887	C5	CYT	1429	109.678	24.780	-18.707	1.00	73.63	Al
ATOM	49835	O4'	GUA	1427	117.531	20.624	-21.530	1.00	80.30	Al6s	ATOM	49888	C2'	CYT	1429	106.850	25.996	-15.421	1.00	67.08	Al
ATOM	49836	C1'	GUA	1427	117.624	21.734	-20.649	1.00	80.30	Al6s	ATOM	49889	O2'	CYT	1429	106.284	26.866	-14.472	1.00	67.08	Al
ATOM	49837	N9	GUA	1427	117.034	22.883	-21.337	1.00	74.76	Al6s	ATOM	49890	C3'	CYT	1429	107.065	24.591	-14.885	1.00	67.08	Al
ATOM	49838	C4	GUA	1427	116.628	24.074	-20.781	1.00	74.76	Al6s	ATOM	49891	O3'	CYT	1429	105.974	24.118	-14.119	1.00	67.08	Al

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ATOM	49892	P	URI	1430	104.846	23.225	-14.836	1.00	59.54	Al6s	ATOM	49945	O2	CYT	1432	103.095	25.440	-25.178	1.00	58.24	Al
ATOM	49893	O1P	URI	1430	103.839	22.851	-13.802	1.00	62.58	Al6s	ATOM	49946	N3	CYT	1432	102.936	24.488	-23.122	1.00	58.24	Al
ATOM	49894	O2P	URI	1430	105.527	22.165	-15.631	1.00	62.58	Al6s	ATOM	49947	C4	CYT	1432	102.274	24.399	-21.966	1.00	58.24	Al
ATOM	49895	O5	URI	1430	104.155	24.244	-15.847	1.00	59.54	Al6s	ATOM	49948	N4	CYT	1432	102.742	23.567	-21.041	1.00	58.24	Al
ATOM	49896	C5	URI	1430	103.502	25.428	-15.356	1.00	59.54	Al6s	ATOM	49949	C5	CYT	1432	101.106	25.164	-21.707	1.00	58.24	Al
ATOM	49897	C4	URI	1430	103.005	26.281	-16.501	1.00	59.54	Al6s	ATOM	49950	C2	CYT	1432	99.926	26.568	-25.859	1.00	60.84	Al
ATOM	49898	O4	URI	1430	104.127	26.819	-17.247	1.00	59.54	Al6s	ATOM	49951	O2	CYT	1432	100.565	25.808	-26.867	1.00	60.84	Al
ATOM	49899	C1	URI	1430	103.747	27.019	-18.596	1.00	59.54	Al6s	ATOM	49952	O3	CYT	1432	99.345	27.876	-26.375	1.00	60.84	Al
ATOM	49900	N1	URI	1430	104.621	26.221	-19.473	1.00	62.58	Al6s	ATOM	49953	O3	CYT	1432	100.258	28.398	-27.322	1.00	60.84	Al
ATOM	49901	C6	URI	1430	105.341	25.151	-18.990	1.00	62.58	Al6s	ATOM	49954	P	GUA	1433	99.716	29.204	-28.596	1.00	56.21	Al
ATOM	49902	C2	URI	1430	104.676	26.562	-20.819	1.00	62.58	Al6s	ATOM	49955	O1P	GUA	1433	98.228	29.080	-28.686	1.00	56.05	Al
ATOM	49903	O2	URI	1430	104.102	27.531	-21.290	1.00	62.58	Al6s	ATOM	49956	O2P	GUA	1433	100.570	28.811	-29.753	1.00	56.05	Al
ATOM	49904	N3	URI	1430	105.437	25.725	-21.594	1.00	62.58	Al6s	ATOM	49957	O5	GUA	1433	100.009	30.719	-28.230	1.00	56.21	Al
ATOM	49905	C4	URI	1430	106.146	24.618	-21.177	1.00	62.58	Al6s	ATOM	49958	C5	GUA	1433	101.313	31.146	-27.850	1.00	56.21	Al
ATOM	49906	O4	URI	1430	106.688	23.899	-22.016	1.00	62.58	Al6s	ATOM	49959	C4	GUA	1433	101.209	32.474	-27.169	1.00	56.21	Al
ATOM	49907	C5	URI	1430	106.081	24.362	-19.775	1.00	62.58	Al6s	ATOM	49960	C4	GUA	1433	100.259	32.348	-26.087	1.00	56.21	Al
ATOM	49908	C2	URI	1430	102.282	26.601	-18.723	1.00	59.54	Al6s	ATOM	49961	C1	GUA	1433	100.634	33.214	-25.040	1.00	56.21	Al
ATOM	49909	O2	URI	1430	101.496	27.763	-18.557	1.00	59.54	Al6s	ATOM	49962	N9	GUA	1433	100.580	32.473	-23.784	1.00	56.05	Al
ATOM	49910	C3	URI	1430	102.126	25.628	-17.558	1.00	59.54	Al6s	ATOM	49963	C4	GUA	1433	101.357	31.400	-23.406	1.00	56.05	Al
ATOM	49911	O3	URI	1430	100.768	25.503	-17.978	1.00	59.54	Al6s	ATOM	49964	N3	GUA	1433	102.340	30.830	-24.134	1.00	56.05	Al
ATOM	49912	P	ADE	1431	99.705	24.638	-17.978	1.00	53.97	Al6s	ATOM	49965	C2	GUA	1433	102.881	29.796	-23.509	1.00	56.05	Al
ATOM	49913	O1P	ADE	1431	98.971	23.739	-17.047	1.00	100.51	Al6s	ATOM	49966	N2	GUA	1433	103.861	29.103	-24.093	1.00	56.05	Al
ATOM	49914	O2P	ADE	1431	100.381	24.062	-19.168	1.00	100.51	Al6s	ATOM	49967	N1	GUA	1433	102.495	29.361	-22.269	1.00	56.05	Al
ATOM	49915	O5	ADE	1431	98.681	25.754	-18.456	1.00	53.97	Al6s	ATOM	49968	C6	GUA	1433	101.482	29.925	-21.504	1.00	56.05	Al
ATOM	49916	C5	ADE	1431	97.634	25.482	-19.400	1.00	53.97	Al6s	ATOM	49969	O6	GUA	1433	101.189	29.434	-20.407	1.00	56.05	Al
ATOM	49917	C4	ADE	1431	96.994	26.787	-19.811	1.00	53.97	Al6s	ATOM	49970	C5	GUA	1433	100.895	31.041	-22.159	1.00	56.05	Al
ATOM	49918	O4	ADE	1431	96.528	27.448	-18.609	1.00	53.97	Al6s	ATOM	49971	N7	GUA	1433	99.865	31.878	-21.756	1.00	56.05	Al
ATOM	49919	C1	ADE	1431	96.911	28.806	-18.616	1.00	53.97	Al6s	ATOM	49972	C8	GUA	1433	99.714	32.709	-22.747	1.00	56.05	Al
ATOM	49920	N9	ADE	1431	97.730	29.032	-17.431	1.00	100.51	Al6s	ATOM	49973	C2	GUA	1433	101.962	33.896	-25.408	1.00	56.21	Al
ATOM	49921	C4	ADE	1431	97.397	29.837	-16.371	1.00	100.51	Al6s	ATOM	49974	O2	GUA	1433	101.703	35.228	-25.814	1.00	56.21	Al
ATOM	49922	N3	ADE	1431	96.279	30.564	-16.224	1.00	100.51	Al6s	ATOM	49975	C3	GUA	1433	102.485	33.006	-26.539	1.00	56.21	Al
ATOM	49923	C2	ADE	1431	96.299	31.223	-15.070	1.00	100.51	Al6s	ATOM	49976	O3	GUA	1433	103.224	33.752	-27.510	1.00	56.21	Al
ATOM	49924	N1	ADE	1431	97.239	31.238	-14.118	1.00	100.51	Al6s	ATOM	49977	P	GUA	1434	104.749	33.358	-27.842	1.00	60.30	Al
ATOM	49925	C6	ADE	1431	98.353	30.497	-14.298	1.00	100.51	Al6s	ATOM	49978	O1P	GUA	1434	105.161	34.246	-28.957	1.00	55.97	Al
ATOM	49926	N6	ADE	1431	99.296	30.520	-13.352	1.00	100.51	Al6s	ATOM	49979	O2P	GUA	1434	104.861	31.881	-28.007	1.00	55.97	Al
ATOM	49927	C5	ADE	1431	98.451	29.746	-15.483	1.00	100.51	Al6s	ATOM	49980	O5	GUA	1434	105.566	33.777	-26.536	1.00	60.30	Al
ATOM	49928	N7	ADE	1431	99.431	28.894	-15.972	1.00	100.51	Al6s	ATOM	49981	C5	GUA	1434	105.435	35.096	-25.983	1.00	60.30	Al
ATOM	49929	C8	ADE	1431	98.957	28.500	-17.127	1.00	100.51	Al6s	ATOM	49982	C4	GUA	1434	105.507	35.051	-24.473	1.00	60.30	Al
ATOM	49930	C2	ADE	1431	97.590	29.126	-19.950	1.00	53.97	Al6s	ATOM	49983	O4	GUA	1434	104.672	33.957	-23.992	1.00	60.30	Al
ATOM	49931	O2	ADE	1431	96.731	29.846	-20.801	1.00	53.97	Al6s	ATOM	49984	C1	GUA	1434	105.251	33.376	-22.830	1.00	60.30	Al
ATOM	49932	C3	ADE	1431	97.993	27.743	-20.439	1.00	53.97	Al6s	ATOM	49985	N9	GUA	1434	105.739	32.032	-23.155	1.00	55.97	Al
ATOM	49933	O3	ADE	1431	98.078	27.556	-21.857	1.00	53.97	Al6s	ATOM	49986	C4	GUA	1434	106.269	31.278	-22.249	1.00	55.97	Al
ATOM	49934	P	CYT	1432	96.742	27.514	-22.782	1.00	60.84	Al6s	ATOM	49987	N3	GUA	1434	106.824	30.245	-20.301	1.00	55.97	Al
ATOM	49935	O1P	CYT	1432	95.788	28.595	-22.440	1.00	58.24	Al6s	ATOM	49988	C2	GUA	1434	106.932	30.243	-18.960	1.00	55.97	Al
ATOM	49936	O2P	CYT	1432	96.254	26.106	-22.825	1.00	60.84	Al6s	ATOM	49989	N2	GUA	1434	107.314	29.143	-20.955	1.00	55.97	Al
ATOM	49937	O5	CYT	1432	97.339	27.844	-24.224	1.00	60.84	Al6s	ATOM	49990	N1	GUA	1434	107.297	28.958	-22.333	1.00	55.97	Al
ATOM	49938	C5	CYT	1432	98.084	29.061	-24.445	1.00	60.84	Al6s	ATOM	49991	C6	GUA	1434	107.755	27.932	-22.820	1.00	55.97	Al
ATOM	49939	C4	CYT	1432	99.391	28.780	-25.152	1.00	60.84	Al6s	ATOM	49992	O6	GUA	1434	106.682	30.061	-23.002	1.00	55.97	Al
ATOM	49940	O4	CYT	1432	100.365	28.207	-24.251	1.00	60.84	Al6s	ATOM	49993	C5	GUA	1434	106.439	30.279	-23.352	1.00	55.97	Al
ATOM	49941	C1	CYT	1432	100.958	27.089	-24.868	1.00	60.84	Al6s	ATOM	49994	N7	GUA	1434	105.868	31.452	-24.395	1.00	55.97	Al
ATOM	49942	N1	CYT	1432	101.378	26.128	-23.839	1.00	58.24	Al6s	ATOM	49995	C8	GUA	1434	106.459	34.234	-22.469	1.00	60.30	Al
ATOM	49943	C6	CYT	1432	100.696	26.008	-22.660	1.00	58.24	Al6s	ATOM	49996	C2	GUA	1434	106.065	35.228	-21.542	1.00	60.30	Al
ATOM	49944	C2	CYT	1432	102.511	25.340	-24.083	1.00	58.24	Al6s	ATOM	49997	O2	GUA	1434						Al

ATOM	49998	C3' GUA	1434	106.860	34.762	-23.843	1.00	60.30	Al65	ATOM	50051	N9 ADE	1437	118.399	29.285	-19.048	1.00	51.85	Al
ATOM	49999	O3' GUA	1434	107.724	35.884	-23.780	1.00	60.30	Al65	ATOM	50052	C4 ADE	1437	118.495	28.527	-20.189	1.00	51.85	Al
ATOM	50000	P GUA	1435	109.318	35.650	-23.997	1.00	59.12	Al65	ATOM	50053	N3 ADE	1437	119.014	27.290	-20.308	1.00	51.85	Al
ATOM	50001	O1P GUA	1435	109.981	36.961	-23.910	1.00	68.19	Al65	ATOM	50054	C2 ADE	1437	118.915	26.861	-21.565	1.00	51.85	Al
ATOM	50002	O2P GUA	1435	109.702	34.490	-24.546	1.00	68.19	Al65	ATOM	50055	N1 ADE	1437	118.391	27.481	-22.636	1.00	51.85	Al
ATOM	50003	O5' GUA	1435	109.560	35.278	-22.171	1.00	59.12	Al65	ATOM	50056	C6 ADE	1437	117.879	28.726	-22.477	1.00	51.85	Al
ATOM	50004	C5' GUA	1435	109.185	36.204	-21.141	1.00	59.12	Al65	ATOM	50057	N6 ADE	1437	117.346	29.348	-23.536	1.00	51.85	Al
ATOM	50005	C4' GUA	1435	109.325	35.563	-19.792	1.00	59.12	Al65	ATOM	50058	C5 ADE	1437	117.932	29.292	-21.196	1.00	51.85	Al
ATOM	50006	O4' GUA	1435	108.481	34.381	-19.740	1.00	59.12	Al65	ATOM	50059	N7 ADE	1437	117.508	30.515	-20.705	1.00	51.85	Al
ATOM	50007	C1' GUA	1435	109.152	33.340	-19.042	1.00	59.12	Al65	ATOM	50060	C8 ADE	1437	117.812	30.462	-19.431	1.00	51.85	Al
ATOM	50008	N9 GUA	1435	109.491	32.296	-20.012	1.00	68.19	Al65	ATOM	50061	C2' ADE	1437	120.341	28.966	-17.559	1.00	78.04	Al
ATOM	50009	C4 GUA	1435	110.097	31.079	-19.752	1.00	68.19	Al65	ATOM	50062	C2' ADE	1437	120.790	27.923	-16.723	1.00	78.04	Al
ATOM	50010	N3 GUA	1435	110.453	30.608	-18.539	1.00	68.19	Al65	ATOM	50063	C3' ADE	1437	120.514	30.344	-16.944	1.00	78.04	Al
ATOM	50011	C2 GUA	1435	111.013	29.419	-18.619	1.00	68.19	Al65	ATOM	50064	O3' ADE	1437	121.721	30.444	-16.228	1.00	78.04	Al
ATOM	50012	N2 GUA	1435	111.398	28.797	-17.506	1.00	68.19	Al65	ATOM	50065	P GUA	1438	122.969	31.165	-16.919	1.00	70.59	Al
ATOM	50013	N1 GUA	1435	111.228	28.752	-19.796	1.00	68.19	Al65	ATOM	50066	O1P GUA	1438	124.156	30.941	-16.051	1.00	64.05	Al
ATOM	50014	C6 GUA	1435	110.874	29.221	-21.056	1.00	68.19	Al65	ATOM	50067	O2P GUA	1438	122.546	32.551	-17.262	1.00	64.05	Al
ATOM	50015	O6 GUA	1435	111.116	28.544	-22.064	1.00	68.19	Al65	ATOM	50068	O5' GUA	1438	123.164	30.363	-18.282	1.00	70.59	Al
ATOM	50016	C5 GUA	1435	109.744	31.286	-21.993	1.00	68.19	Al65	ATOM	50069	C5' GUA	1438	123.510	28.971	-18.276	1.00	70.59	Al
ATOM	50017	N7 GUA	1435	109.300	32.345	-21.373	1.00	68.19	Al65	ATOM	50070	C4' GUA	1438	122.026	28.435	-20.115	1.00	70.59	Al
ATOM	50018	C8 GUA	1435	110.425	33.953	-18.460	1.00	59.12	Al65	ATOM	50071	C1' GUA	1438	121.981	28.647	-21.517	1.00	70.59	Al
ATOM	50019	C2' GUA	1435	110.165	34.468	-17.164	1.00	59.12	Al65	ATOM	50072	N9 GUA	1438	121.352	29.937	-21.771	1.00	64.05	Al
ATOM	50020	O2' GUA	1435	110.712	35.038	-19.484	1.00	59.12	Al65	ATOM	50073	C4 GUA	1438	120.929	30.403	-22.993	1.00	64.05	Al
ATOM	50021	C3' GUA	1435	111.602	36.038	-19.033	1.00	54.86	Al65	ATOM	50074	N3 GUA	1438	120.968	29.723	-24.156	1.00	64.05	Al
ATOM	50022	O3' GUA	1435	113.127	36.002	-19.531	1.00	54.86	Al65	ATOM	50075	C2 GUA	1438	120.529	30.450	-25.171	1.00	64.05	Al
ATOM	50023	P GUA	1436	113.722	37.325	-19.241	1.00	55.85	Al65	ATOM	50076	N2 GUA	1438	120.487	29.923	-26.405	1.00	64.05	Al
ATOM	50024	O1P GUA	1436	113.170	35.453	-20.921	1.00	55.85	Al65	ATOM	50077	C6 GUA	1438	120.095	31.745	-25.055	1.00	64.05	Al
ATOM	50025	O2P GUA	1436	113.814	34.918	-18.596	1.00	54.86	Al65	ATOM	50078	N1 GUA	1438	120.046	32.470	-23.870	1.00	64.05	Al
ATOM	50026	O5' GUA	1436	113.687	34.988	-17.174	1.00	54.86	Al65	ATOM	50079	C6 GUA	1438	119.643	33.640	-23.882	1.00	64.05	Al
ATOM	50027	C5' GUA	1436	114.185	33.712	-16.554	1.00	54.86	Al65	ATOM	50080	O6 GUA	1438	120.506	31.695	-22.765	1.00	64.05	Al
ATOM	50028	C4' GUA	1436	114.120	31.431	-17.106	1.00	54.86	Al65	ATOM	50081	C5 GUA	1438	121.119	30.947	-20.867	1.00	64.05	Al
ATOM	50029	O4' GUA	1436	114.063	30.957	-18.503	1.00	55.85	Al65	ATOM	50082	C8 GUA	1438	123.424	28.705	-22.014	1.00	70.59	Al
ATOM	50030	C1' GUA	1436	113.473	31.703	-19.481	1.00	55.85	Al65	ATOM	50083	C2' GUA	1438	123.838	27.437	-22.466	1.00	70.59	Al
ATOM	50031	N1 GUA	1436	114.645	29.721	-18.817	1.00	55.85	Al65	ATOM	50084	O3' GUA	1438	124.160	29.141	-20.759	1.00	70.59	Al
ATOM	50032	C6 GUA	1436	115.166	29.052	-17.908	1.00	55.85	Al65	ATOM	50085	C3' GUA	1438	125.545	28.839	-20.820	1.00	70.59	Al
ATOM	50033	O2' GUA	1436	114.627	29.288	-20.099	1.00	55.85	Al65	ATOM	50086	P GUA	1439	126.552	29.918	-21.460	1.00	81.85	Al
ATOM	50034	N3 GUA	1436	114.056	30.030	-21.044	1.00	55.85	Al65	ATOM	50087	C3' GUA	1439	127.957	29.453	-21.250	1.00	63.65	Al
ATOM	50035	C4 GUA	1436	114.063	29.566	-22.293	1.00	55.85	Al65	ATOM	50088	O1P GUA	1439	126.146	31.271	-20.977	1.00	63.65	Al
ATOM	50036	N4 GUA	1436	113.449	31.281	-20.752	1.00	55.85	Al65	ATOM	50089	C2' GUA	1439	126.206	29.858	-23.011	1.00	81.85	Al
ATOM	50037	C5' GUA	1436	115.546	31.789	-16.703	1.00	54.86	Al65	ATOM	50090	O2P GUA	1439	126.350	28.641	-23.750	1.00	81.85	Al
ATOM	50038	C2' GUA	1436	115.727	31.505	-15.332	1.00	54.86	Al65	ATOM	50091	C5' GUA	1439	126.084	28.892	-25.211	1.00	81.85	Al
ATOM	50039	O2' GUA	1436	115.571	33.279	-16.987	1.00	54.86	Al65	ATOM	50092	C4' GUA	1439	124.678	29.187	-25.409	1.00	81.85	Al
ATOM	50040	C3' GUA	1436	116.610	33.940	-16.297	1.00	54.86	Al65	ATOM	50093	O1' GUA	1439	124.533	30.177	-26.412	1.00	81.85	Al
ATOM	50041	O3' GUA	1437	118.043	34.105	-17.011	1.00	78.04	Al65	ATOM	50094	C1' GUA	1439	123.949	31.362	-25.796	1.00	63.65	Al
ATOM	50042	P GUA	1437	118.844	34.998	-16.131	1.00	51.85	Al65	ATOM	50095	N9 GUA	1439	123.275	32.362	-26.448	1.00	63.65	Al
ATOM	50043	O1P GUA	1437	117.830	32.468	-18.455	1.00	51.85	Al65	ATOM	50096	C4 GUA	1439	122.306	33.402	-27.768	1.00	63.65	Al
ATOM	50044	O2P GUA	1437	118.677	32.637	-16.996	1.00	78.04	Al65	ATOM	50097	N3 GUA	1439	122.350	33.496	-28.106	1.00	63.65	Al
ATOM	50045	O5' GUA	1437	118.861	31.904	-15.762	1.00	78.04	Al65	ATOM	50098	C2 GUA	1439	121.998	33.684	-29.383	1.00	63.65	Al
ATOM	50046	C5' GUA	1437	119.296	30.483	-16.053	1.00	78.04	Al65	ATOM	50099	N2 GUA	1439	121.990	34.480	-27.220	1.00	63.65	Al
ATOM	50047	O4' GUA	1437	118.252	29.791	-16.780	1.00	78.04	Al65	ATOM	50100	C6 GUA	1439	122.255	34.462	-25.859	1.00	63.65	Al
ATOM	50048	C4' GUA	1437	118.828	28.892	-17.710	1.00	78.04	Al65	ATOM	50101	N1 GUA	1439	121.884	35.401	-25.152	1.00	63.65	Al
ATOM	50049	O4' GUA	1437							ATOM	50102	C6 GUA	1439						
ATOM	50050	C1' ADE	1437							ATOM	50103	O6 GUA	1439						

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ATOM	50104	C5	GUA	1439	122.958	33.286	-25.478	1.00	63.65	Al6s	ATOM	50157	O5'	CYT	1442	130.735	42.032	-31.901	1.00	66.91	Al
ATOM	50105	N7	GUA	1439	123.413	32.867	-24.234	1.00	63.65	Al6s	ATOM	50158	C5'	CYT	1442	130.174	42.752	-33.021	1.00	66.91	Al
ATOM	50106	C8	GUA	1439	123.989	31.721	-24.469	1.00	63.65	Al6s	ATOM	50159	C4'	CYT	1442	129.567	44.061	-32.569	1.00	66.91	Al
ATOM	50107	C2'	GUA	1439	125.926	30.495	-26.957	1.00	81.85	Al6s	ATOM	50160	O4'	CYT	1442	128.392	43.800	-31.758	1.00	66.91	Al
ATOM	50108	O2'	GUA	1439	126.184	29.762	-28.136	1.00	81.85	Al6s	ATOM	50161	C1'	CYT	1442	128.282	44.790	-30.743	1.00	66.91	Al
ATOM	50109	C3'	GUA	1439	126.805	30.097	-25.781	1.00	81.85	Al6s	ATOM	50162	N1	CYT	1442	128.364	44.133	-29.413	1.00	71.28	Al
ATOM	50110	O3'	GUA	1439	128.136	29.812	-26.149	1.00	81.85	Al6s	ATOM	50163	C6	CYT	1442	129.147	43.025	-29.328	1.00	71.28	Al
ATOM	50111	P	GUA	1440	129.211	30.999	-26.166	1.00	63.90	Al6s	ATOM	50164	C2	CYT	1442	127.636	44.677	-28.321	1.00	71.28	Al
ATOM	50112	O1P	CYT	1440	130.525	30.375	-26.475	1.00	71.28	Al6s	ATOM	50165	O2	CYT	1442	126.902	45.672	-28.501	1.00	71.28	Al
ATOM	50113	O2P	CYT	1440	129.054	31.812	-24.931	1.00	71.28	Al6s	ATOM	50166	N3	CYT	1442	127.754	44.099	-27.101	1.00	71.28	Al
ATOM	50114	O5'	CYT	1440	128.774	31.870	-27.425	1.00	63.90	Al6s	ATOM	50167	C4	CYT	1442	128.539	43.029	-26.938	1.00	71.28	Al
ATOM	50115	C5'	CYT	1440	128.836	31.299	-28.730	1.00	63.90	Al6s	ATOM	50168	N4	CYT	1442	128.639	42.508	-25.714	1.00	71.28	Al
ATOM	50116	C4'	CYT	1440	128.158	32.183	-29.740	1.00	63.90	Al6s	ATOM	50169	C5	CYT	1442	129.262	42.449	-28.024	1.00	71.28	Al
ATOM	50117	O4'	CYT	1440	126.754	32.335	-29.408	1.00	63.90	Al6s	ATOM	50170	C2'	CYT	1442	129.419	45.793	-30.961	1.00	66.91	Al
ATOM	50118	C1'	CYT	1440	126.297	33.596	-29.871	1.00	63.90	Al6s	ATOM	50171	O2'	CYT	1442	128.980	46.876	-31.760	1.00	66.91	Al
ATOM	50119	N1	CYT	1440	125.887	34.405	-28.713	1.00	71.28	Al6s	ATOM	50172	C3'	CYT	1442	130.442	44.941	-31.693	1.00	66.91	Al
ATOM	50120	C6	CYT	1440	126.309	34.090	-27.452	1.00	71.28	Al6s	ATOM	50173	O3'	CYT	1442	131.360	45.737	-32.419	1.00	66.91	Al
ATOM	50121	C2	CYT	1440	125.081	35.534	-28.929	1.00	71.28	Al6s	ATOM	50174	P	CYT	1443	132.787	46.083	-31.762	1.00	66.93	Al
ATOM	50122	O2	CYT	1440	124.681	35.785	-30.086	1.00	71.28	Al6s	ATOM	50175	O1P	CYT	1443	133.572	46.846	-32.766	1.00	72.50	Al
ATOM	50123	N3	CYT	1440	124.763	36.322	-27.876	1.00	71.28	Al6s	ATOM	50176	O2P	CYT	1443	133.350	44.834	-31.180	1.00	72.50	Al
ATOM	50124	C4	CYT	1440	125.216	36.024	-26.657	1.00	71.28	Al6s	ATOM	50177	O5'	CYT	1443	132.436	47.080	-30.571	1.00	66.93	Al
ATOM	50125	N4	CYT	1440	124.921	36.854	-25.660	1.00	71.28	Al6s	ATOM	50178	C5'	CYT	1443	131.810	48.346	-30.839	1.00	66.93	Al
ATOM	50126	C5	CYT	1440	126.004	34.866	-26.409	1.00	71.28	Al6s	ATOM	50179	O4'	CYT	1443	131.228	48.932	-29.573	1.00	66.93	Al
ATOM	50127	C2'	CYT	1440	127.472	34.278	-30.572	1.00	63.90	Al6s	ATOM	50180	O4'	CYT	1443	130.253	48.016	-29.010	1.00	66.93	Al
ATOM	50128	O2'	CYT	1440	127.419	34.015	-31.962	1.00	63.90	Al6s	ATOM	50181	C1'	CYT	1443	130.255	48.123	-27.597	1.00	66.93	Al
ATOM	50129	C3'	CYT	1440	128.658	33.609	-29.892	1.00	63.90	Al6s	ATOM	50182	N1	CYT	1443	130.580	46.808	-27.011	1.00	72.50	Al
ATOM	50130	O3'	CYT	1440	129.832	33.705	-30.681	1.00	63.90	Al6s	ATOM	50183	C6	CYT	1443	131.371	45.913	-27.681	1.00	72.50	Al
ATOM	50131	P	GUA	1441	130.901	34.872	-30.376	1.00	77.89	Al6s	ATOM	50184	C2	CYT	1443	130.079	46.492	-25.735	1.00	72.50	Al
ATOM	50132	O1P	GUA	1441	132.001	34.689	-31.362	1.00	62.85	Al6s	ATOM	50185	O2	CYT	1443	129.321	47.295	-25.160	1.00	72.50	Al
ATOM	50133	O2P	GUA	1441	131.220	34.890	-28.920	1.00	62.85	Al6s	ATOM	50186	N3	CYT	1443	130.428	45.314	-25.165	1.00	72.50	Al
ATOM	50134	O5'	GUA	1441	130.125	36.218	-30.742	1.00	77.89	Al6s	ATOM	50187	C4	CYT	1443	131.218	44.461	-25.819	1.00	72.50	Al
ATOM	50135	C5'	GUA	1441	129.773	36.499	-32.106	1.00	77.89	Al6s	ATOM	50188	N4	CYT	1443	131.543	43.321	-25.208	1.00	72.50	Al
ATOM	50136	C4'	GUA	1441	128.998	37.793	-32.217	1.00	77.89	Al6s	ATOM	50189	C5	CYT	1443	131.712	44.740	-27.128	1.00	72.50	Al
ATOM	50137	O4'	GUA	1441	127.745	37.693	-31.493	1.00	77.89	Al6s	ATOM	50190	C2'	CYT	1443	131.284	49.185	-27.214	1.00	66.93	Al
ATOM	50138	C1'	GUA	1441	127.368	38.973	-31.021	1.00	77.89	Al6s	ATOM	50191	O2'	CYT	1443	130.626	50.422	-27.022	1.00	66.93	Al
ATOM	50139	N9	GUA	1441	127.304	38.934	-29.564	1.00	62.85	Al6s	ATOM	50192	C3'	CYT	1443	132.197	49.188	-28.433	1.00	66.93	Al
ATOM	50140	C4	GUA	1441	126.682	39.857	-28.757	1.00	62.85	Al6s	ATOM	50193	O3'	CYT	1443	132.870	50.429	-28.575	1.00	66.93	Al
ATOM	50141	N3	GUA	1441	125.991	40.932	-29.176	1.00	62.85	Al6s	ATOM	50194	P	GUA	1444	134.425	50.532	-28.185	1.00	75.35	Al
ATOM	50142	C2	GUA	1441	125.533	41.647	-28.170	1.00	62.85	Al6s	ATOM	50195	O1P	GUA	1444	134.780	51.974	-28.243	1.00	92.44	Al
ATOM	50143	N2	GUA	1441	124.823	42.741	-28.414	1.00	62.85	Al6s	ATOM	50196	O2P	GUA	1444	135.173	49.548	-29.017	1.00	92.44	Al
ATOM	50144	N1	GUA	1441	125.737	41.339	-26.854	1.00	62.85	Al6s	ATOM	50197	O5'	GUA	1444	134.499	50.036	-26.671	1.00	75.35	Al
ATOM	50145	C6	GUA	1441	126.444	40.238	-26.393	1.00	62.85	Al6s	ATOM	50198	C5'	GUA	1444	133.867	50.780	-25.611	1.00	75.35	Al
ATOM	50146	O6	GUA	1441	126.574	40.057	-25.178	1.00	62.85	Al6s	ATOM	50199	C4'	GUA	1444	133.925	50.005	-24.315	1.00	75.35	Al
ATOM	50147	C5	GUA	1441	126.941	39.451	-27.468	1.00	62.85	Al6s	ATOM	50200	O4'	GUA	1444	133.231	47.743	-24.487	1.00	75.35	Al
ATOM	50148	N7	GUA	1441	127.690	38.279	-27.461	1.00	62.85	Al6s	ATOM	50201	C1'	GUA	1444	133.874	47.735	-23.726	1.00	75.35	Al
ATOM	50149	C8	GUA	1441	127.875	38.007	-28.725	1.00	62.85	Al6s	ATOM	50202	N9	GUA	1444	134.343	46.693	-24.637	1.00	92.44	Al
ATOM	50150	C2'	GUA	1441	128.432	39.967	-31.488	1.00	77.89	Al6s	ATOM	50203	C4	GUA	1444	134.535	45.364	-24.335	1.00	92.44	Al
ATOM	50151	O2'	GUA	1441	128.009	40.564	-32.696	1.00	77.89	Al6s	ATOM	50204	N3	GUA	1444	134.281	44.778	-23.147	1.00	92.44	Al
ATOM	50152	C3'	GUA	1441	129.639	39.061	-31.685	1.00	77.89	Al6s	ATOM	50205	C2	GUA	1444	134.581	43.470	-23.162	1.00	92.44	Al
ATOM	50153	O3'	GUA	1441	130.542	39.620	-32.620	1.00	77.89	Al6s	ATOM	50206	N2	GUA	1444	134.369	42.750	-22.071	1.00	92.44	Al
ATOM	50154	P	CYT	1442	131.610	40.720	-32.137	1.00	66.91	Al6s	ATOM	50207	N1	GUA	1444	135.093	42.829	-24.251	1.00	92.44	Al
ATOM	50155	O1P	CYT	1442	132.481	40.979	-33.309	1.00	71.28	Al6s	ATOM	50208	C6	GUA	1444	135.353	43.408	-25.486	1.00	92.44	Al
ATOM	50156	O2P	CYT	1442	132.221	40.293	-30.849	1.00	71.28	Al6s	ATOM	50209	O6	GUA	1444	135.810	42.716	-26.406	1.00	92.44	Al

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ATOM	50210	C5	GUA	1444	135.029	44.792	-25.489	1.00	92.44	Al6S	ATOM	50263	O1P	GUA	1447	147.952	48.945	-18.346	1.00	61.34	Al
ATOM	50211	N7	GUA	1444	135.127	45.735	-26.502	1.00	92.44	Al6S	ATOM	50264	O2P	GUA	1447	146.490	49.404	-20.398	1.00	61.34	Al
ATOM	50212	C8	GUA	1444	134.707	46.844	-25.954	1.00	92.44	Al6S	ATOM	50265	O5'	GUA	1447	147.221	47.095	-19.906	1.00	81.05	Al
ATOM	50213	C2'	GUA	1444	135.025	48.393	-22.963	1.00	75.35	Al6S	ATOM	50266	C5'	GUA	1447	147.629	45.990	-19.074	1.00	81.05	Al
ATOM	50214	O2'	GUA	1444	134.592	48.747	-21.667	1.00	75.35	Al6S	ATOM	50267	C4'	GUA	1447	147.822	44.739	-19.909	1.00	81.05	Al
ATOM	50215	C3'	GUA	1444	135.312	49.614	-23.826	1.00	75.35	Al6S	ATOM	50268	O4'	GUA	1447	146.544	44.336	-20.487	1.00	81.05	Al
ATOM	50216	O3'	GUA	1444	135.936	50.651	-23.075	1.00	75.35	Al6S	ATOM	50269	C1'	GUA	1447	146.739	43.844	-21.806	1.00	81.05	Al
ATOM	50217	P	ADE	1445	137.518	50.908	-23.230	1.00	68.53	Al6S	ATOM	50270	N9	GUA	1447	146.227	44.845	-22.733	1.00	61.34	Al
ATOM	50218	O1P	ADE	1445	137.683	52.335	-23.613	1.00	54.67	Al6S	ATOM	50271	C4	GUA	1447	145.968	44.669	-24.067	1.00	61.34	Al
ATOM	50219	O2P	ADE	1445	138.114	49.843	-24.085	1.00	54.67	Al6S	ATOM	50272	N3	GUA	1447	146.113	43.518	-24.758	1.00	61.34	Al
ATOM	50220	O5'	ADE	1445	138.101	50.704	-21.759	1.00	68.53	Al6S	ATOM	50273	C2	GUA	1447	145.799	43.666	-26.038	1.00	61.34	Al
ATOM	50221	C5'	ADE	1445	137.698	51.559	-20.674	1.00	68.53	Al6S	ATOM	50274	N2	GUA	1447	145.888	42.616	-26.868	1.00	61.34	Al
ATOM	50222	C4'	ADE	1445	138.080	50.944	-19.349	1.00	68.53	Al6S	ATOM	50275	N1	GUA	1447	145.375	44.851	-26.595	1.00	61.34	Al
ATOM	50223	O4'	ADE	1445	137.376	49.690	-19.179	1.00	68.53	Al6S	ATOM	50276	C6	GUA	1447	145.218	46.049	-25.898	1.00	61.34	Al
ATOM	50224	C1'	ADE	1445	138.212	48.756	-18.518	1.00	68.53	Al6S	ATOM	50277	O6	GUA	1447	144.824	47.068	-26.491	1.00	61.34	Al
ATOM	50225	N9	ADE	1445	138.478	47.654	-19.433	1.00	54.67	Al6S	ATOM	50278	C5	GUA	1447	145.554	45.903	-24.526	1.00	61.34	Al
ATOM	50226	C4	ADE	1445	138.878	46.385	-19.088	1.00	54.67	Al6S	ATOM	50279	N7	GUA	1447	145.546	46.834	-23.497	1.00	61.34	Al
ATOM	50227	N3	ADE	1445	139.116	45.909	-17.851	1.00	54.67	Al6S	ATOM	50280	C8	GUA	1447	145.945	46.163	-22.453	1.00	61.34	Al
ATOM	50228	C2	ADE	1445	139.455	44.622	-17.905	1.00	54.67	Al6S	ATOM	50281	C2'	GUA	1447	148.245	43.746	-22.020	1.00	81.05	Al
ATOM	50229	N1'	ADE	1445	139.570	43.816	-18.977	1.00	54.67	Al6S	ATOM	50282	C2'	GUA	1447	148.720	42.469	-21.637	1.00	81.05	Al
ATOM	50230	C6	ADE	1445	139.321	44.332	-20.203	1.00	54.67	Al6S	ATOM	50283	O3'	GUA	1447	148.740	44.864	-21.114	1.00	81.05	Al
ATOM	50231	N6	ADE	1445	139.416	43.541	-21.271	1.00	54.67	Al6S	ATOM	50284	C3'	GUA	1447	150.124	44.772	-20.834	1.00	81.05	Al
ATOM	50232	C5	ADE	1445	138.963	45.683	-20.280	1.00	54.67	Al6S	ATOM	50285	P	GUA	1448	151.171	45.398	-21.884	1.00	89.81	Al
ATOM	50233	N7	ADE	1445	138.650	46.500	-21.356	1.00	54.67	Al6S	ATOM	50286	O1P	GUA	1448	152.518	45.284	-21.275	1.00	83.09	Al
ATOM	50234	C8	ADE	1445	138.375	47.656	-20.803	1.00	54.67	Al6S	ATOM	50287	O2P	GUA	1448	150.679	46.727	-22.334	1.00	83.09	Al
ATOM	50235	C2'	ADE	1445	139.506	49.466	-18.157	1.00	68.53	Al6S	ATOM	50288	O5'	GUA	1448	151.088	44.417	-23.138	1.00	89.81	Al
ATOM	50236	O2'	ADE	1445	139.401	49.912	-16.824	1.00	68.53	Al6S	ATOM	50289	C5'	GUA	1448	151.294	42.997	-22.980	1.00	89.81	Al
ATOM	50237	C3'	ADE	1445	139.543	50.572	-19.204	1.00	68.53	Al6S	ATOM	50290	O4'	GUA	1448	151.222	42.295	-24.317	1.00	89.81	Al
ATOM	50238	O3'	ADE	1445	140.350	51.672	-18.824	1.00	68.53	Al6S	ATOM	50291	C1'	GUA	1448	149.884	42.414	-24.865	1.00	89.81	Al
ATOM	50239	P	GUA	1446	141.735	51.930	-19.594	1.00	67.26	Al6S	ATOM	50292	C1'	GUA	1448	149.956	42.516	-26.277	1.00	89.81	Al
ATOM	50240	O1P	GUA	1446	142.459	52.998	-18.854	1.00	64.17	Al6S	ATOM	50293	N9	GUA	1448	149.360	43.787	-26.684	1.00	83.09	Al
ATOM	50241	O2P	GUA	1446	142.393	52.119	-21.029	1.00	64.17	Al6S	ATOM	50294	C4	GUA	1448	148.984	44.135	-27.962	1.00	83.09	Al
ATOM	50242	O5'	GUA	1446	142.547	50.567	-19.432	1.00	67.26	Al6S	ATOM	50295	N3	GUA	1448	149.130	43.370	-29.066	1.00	83.09	Al
ATOM	50243	C5'	GUA	1446	142.860	50.058	-18.130	1.00	67.26	Al6S	ATOM	50296	C2	GUA	1448	148.664	43.970	-30.148	1.00	83.09	Al
ATOM	50244	C4'	GUA	1446	143.144	48.578	-18.192	1.00	67.26	Al6S	ATOM	50297	N2	GUA	1448	148.750	43.356	-31.344	1.00	83.09	Al
ATOM	50245	O4'	GUA	1446	142.029	47.905	-18.829	1.00	67.26	Al6S	ATOM	50298	N1	GUA	1448	148.083	45.217	-30.142	1.00	83.09	Al
ATOM	50246	C1'	GUA	1446	142.497	46.765	-19.534	1.00	67.26	Al6S	ATOM	50299	C6	GUA	1448	147.919	46.021	-29.016	1.00	83.09	Al
ATOM	50247	N9	GUA	1446	142.230	46.935	-20.958	1.00	64.17	Al6S	ATOM	50300	O6	GUA	1448	147.375	47.126	-29.122	1.00	83.09	Al
ATOM	50248	C4	GUA	1446	142.396	45.963	-21.913	1.00	64.17	Al6S	ATOM	50301	C5	GUA	1448	148.434	45.397	-27.853	1.00	83.09	Al
ATOM	50249	N3	GUA	1446	142.807	44.697	-21.683	1.00	64.17	Al6S	ATOM	50302	N7	GUA	1448	148.486	45.846	-26.540	1.00	83.09	Al
ATOM	50250	C2	GUA	1446	142.885	43.994	-22.793	1.00	64.17	Al6S	ATOM	50303	C8	GUA	1448	149.045	44.863	-25.884	1.00	83.09	Al
ATOM	50251	N2	GUA	1446	143.283	42.710	-22.729	1.00	64.17	Al6S	ATOM	50304	C2'	GUA	1448	151.425	44.397	-26.678	1.00	89.81	Al
ATOM	50252	N1	GUA	1446	142.581	44.498	-24.039	1.00	64.17	Al6S	ATOM	50305	O2'	GUA	1448	151.730	41.054	-26.998	1.00	89.81	Al
ATOM	50253	C6	GUA	1446	142.163	45.803	-24.296	1.00	64.17	Al6S	ATOM	50306	C3'	GUA	1448	152.120	42.851	-25.406	1.00	89.81	Al
ATOM	50254	O6	GUA	1446	141.929	46.161	-25.454	1.00	64.17	Al6S	ATOM	50307	O3'	GUA	1448	153.447	42.370	-25.326	1.00	89.81	Al
ATOM	50255	C5	GUA	1446	142.074	46.563	-23.109	1.00	64.17	Al6S	ATOM	50308	P	URI	1449	154.645	43.297	-25.858	1.00	15.80	Al
ATOM	50256	N7	GUA	1446	141.704	47.887	-22.911	1.00	64.17	Al6S	ATOM	50309	O1P	URI	1449	155.912	42.623	-25.475	1.00	85.93	Al
ATOM	50257	C8	GUA	1446	141.806	48.063	-21.621	1.00	64.17	Al6S	ATOM	50310	O2P	URI	1449	154.399	44.700	-25.427	1.00	85.93	Al
ATOM	50258	C2'	GUA	1446	144.004	46.686	-19.334	1.00	67.26	Al6S	ATOM	50311	O5'	URI	1449	154.477	43.262	-27.142	1.00	15.80	Al
ATOM	50259	O2'	GUA	1446	144.319	45.803	-18.277	1.00	67.26	Al6S	ATOM	50312	C5'	URI	1449	154.732	42.061	-28.191	1.00	15.80	Al
ATOM	50260	C3'	GUA	1446	144.333	48.137	-19.029	1.00	67.26	Al6S	ATOM	50313	C4'	URI	1449	154.593	42.363	-29.671	1.00	15.80	Al
ATOM	50261	O3'	GUA	1446	145.586	48.252	-18.386	1.00	67.26	Al6S	ATOM	50314	O4'	URI	1449	153.198	42.593	-29.985	1.00	15.80	Al
ATOM	50262	P	GUA	1447	146.886	48.520	-19.278	1.00	81.05	Al6S	ATOM	50315	C1'	URI	1449	153.109	43.590	-30.996	1.00	15.80	Al

ATOM	50316	N1	URI	1449	152.422	44.765	-30.434	1.00	85.93	Al6S	ATOM	50369	C2' GUA	1451	157.151	53.470	-35.920	1.00	148.75	Al
ATOM	50317	C6	URI	1449	152.634	45.153	-29.123	1.00	85.93	Al6S	ATOM	50370	O2' GUA	1451	157.027	54.078	-37.193	1.00	148.75	Al
ATOM	50318	C2	URI	1449	151.573	45.485	-31.260	1.00	85.93	Al6S	ATOM	50371	C3' GUA	1451	158.459	52.708	-35.739	1.00	148.75	Al
ATOM	50319	O2	URI	1449	151.335	45.167	-32.413	1.00	85.93	Al6S	ATOM	50372	O3' GUA	1451	159.568	53.416	-36.279	1.00	148.75	Al
ATOM	50320	N3	URI	1449	151.009	46.595	-30.676	1.00	85.93	Al6S	ATOM	50373	P GUA	1452	160.331	54.503	-35.366	1.00	152.94	Al
ATOM	50321	C4	URI	1449	151.192	47.041	-29.374	1.00	85.93	Al6S	ATOM	50374	O1P GUA	1452	161.450	55.041	-36.177	1.00	140.14	Al
ATOM	50322	O4	URI	1449	150.603	48.053	-28.986	1.00	85.93	Al6S	ATOM	50375	O2P GUA	1452	160.613	53.903	-34.033	1.00	140.14	Al
ATOM	50323	C5	URI	1449	152.066	46.234	-28.585	1.00	85.93	Al6S	ATOM	50376	O5' GUA	1452	159.254	55.663	-35.173	1.00	152.94	Al
ATOM	50324	C2' URI	1449	154.535	43.946	-31.423	1.00	115.80	Al6S	ATOM	50377	C5' GUA	1452	158.794	56.436	-36.301	1.00	152.94	Al	
ATOM	50325	O2' URI	1449	154.898	43.212	-32.575	1.00	115.80	Al6S	ATOM	50378	C4' GUA	1452	157.793	57.481	-35.862	1.00	152.94	Al	
ATOM	50326	C3' URI	1449	155.331	43.564	-30.179	1.00	115.80	Al6S	ATOM	50379	O4' GUA	1452	156.577	56.838	-35.395	1.00	152.94	Al	
ATOM	50327	O3' URI	1449	156.710	43.334	-30.445	1.00	115.80	Al6S	ATOM	50380	C1' GUA	1452	156.004	57.603	-34.345	1.00	152.94	Al	
ATOM	50328	P ADE	1450	157.721	44.587	-30.527	1.00	129.48	Al6S	ATOM	50381	N9 GUA	1452	155.932	56.773	-33.142	1.00	140.14	Al	
ATOM	50329	O1P ADE	1450	159.065	44.025	-30.824	1.00	111.24	Al6S	ATOM	50382	C4 GUA	1452	155.181	57.032	-32.017	1.00	140.14	Al	
ATOM	50330	O2P ADE	1450	157.542	45.457	-29.330	1.00	111.24	Al6S	ATOM	50383	N3 GUA	1452	154.356	58.086	-31.841	1.00	140.14	Al	
ATOM	50331	O5' ADE	1450	157.209	45.399	-31.802	1.00	129.48	Al6S	ATOM	50384	C2 GUA	1452	153.787	58.074	-30.650	1.00	140.14	Al	
ATOM	50332	C5' ADE	1450	157.333	44.841	-33.124	1.00	129.48	Al6S	ATOM	50385	N2 GUA	1452	152.932	59.051	-30.316	1.00	140.14	Al	
ATOM	50333	C4' ADE	1450	156.781	45.791	-34.164	1.00	129.48	Al6S	ATOM	50386	N1 GUA	1452	154.013	57.104	-29.700	1.00	140.14	Al	
ATOM	50334	O4' ADE	1450	155.337	45.880	-34.043	1.00	129.48	Al6S	ATOM	50387	C6 GUA	1452	154.861	56.010	-29.856	1.00	140.14	Al	
ATOM	50335	C1' ADE	1450	154.910	47.188	-34.395	1.00	129.48	Al6S	ATOM	50388	O6 GUA	1452	155.002	55.197	-28.930	1.00	140.14	Al	
ATOM	50336	N9 ADE	1450	154.322	47.818	-33.213	1.00	111.24	Al6S	ATOM	50389	C5 GUA	1452	155.472	56.008	-31.137	1.00	140.14	Al	
ATOM	50337	C4 ADE	1450	153.430	48.910	-33.220	1.00	111.24	Al6S	ATOM	50390	N7 GUA	1452	156.369	55.113	-31.703	1.00	140.14	Al	
ATOM	50338	N3 ADE	1450	153.041	49.583	-34.292	1.00	111.24	Al6S	ATOM	50391	C8 GUA	1452	156.610	55.602	-32.890	1.00	140.14	Al	
ATOM	50339	C2 ADE	1450	152.267	50.596	-33.918	1.00	111.24	Al6S	ATOM	50392	C2' GUA	1452	156.878	58.845	-34.141	1.00	152.94	Al	
ATOM	50340	N1 ADE	1450	151.918	50.985	-32.687	1.00	111.24	Al6S	ATOM	50393	O2' GUA	1452	156.330	59.948	-34.838	1.00	152.94	Al	
ATOM	50341	C6 ADE	1450	152.389	50.288	-31.630	1.00	111.24	Al6S	ATOM	50394	C3' GUA	1452	158.215	58.382	-34.711	1.00	152.94	Al	
ATOM	50342	N6 ADE	1450	152.044	50.682	-30.403	1.00	111.24	Al6S	ATOM	50395	O3' GUA	1452	159.031	59.466	-35.140	1.00	152.94	Al	
ATOM	50343	C5 ADE	1450	153.220	49.187	-31.893	1.00	111.24	Al6S	ATOM	50396	P GUA	1453	160.051	60.153	-34.101	1.00	148.76	Al	
ATOM	50344	N7 ADE	1450	153.861	48.278	-31.061	1.00	111.24	Al6S	ATOM	50397	O1P GUA	1453	160.917	61.074	-34.880	1.00	147.66	Al	
ATOM	50345	C8 ADE	1450	154.495	47.486	-31.889	1.00	111.24	Al6S	ATOM	50398	O2P GUA	1453	160.676	59.094	-33.259	1.00	147.66	Al	
ATOM	50346	C2' ADE	1450	156.145	47.972	-34.835	1.00	129.48	Al6S	ATOM	50399	O5' GUA	1453	159.106	61.033	-33.169	1.00	148.76	Al	
ATOM	50347	O2' ADE	1450	156.281	47.917	-36.241	1.00	129.48	Al6S	ATOM	50400	C5' GUA	1453	158.329	62.116	-33.719	1.00	148.76	Al	
ATOM	50348	C3' ADE	1450	157.249	47.235	-34.091	1.00	129.48	Al6S	ATOM	50401	C4' GUA	1453	157.375	62.654	-32.682	1.00	148.76	Al	
ATOM	50349	O3' ADE	1450	159.483	48.588	-34.026	1.00	148.75	Al6S	ATOM	50402	O4' GUA	1453	156.417	61.622	-32.335	1.00	148.76	Al	
ATOM	50350	P GUA	1451	159.841	48.342	-34.567	1.00	148.75	Al6S	ATOM	50403	C1' GUA	1453	156.100	61.709	-30.956	1.00	148.76	Al	
ATOM	50351	O1P GUA	1451	159.277	48.633	-32.555	1.00	128.58	Al6S	ATOM	50404	N9 GUA	1453	156.466	60.449	-30.314	1.00	147.66	Al	
ATOM	50352	O2P GUA	1451	159.923	49.947	-34.642	1.00	148.75	Al6S	ATOM	50405	C4 GUA	1453	156.153	60.069	-29.029	1.00	147.66	Al	
ATOM	50353	O5' GUA	1451	158.923	49.947	-34.642	1.00	148.75	Al6S	ATOM	50406	N3 GUA	1453	155.459	60.804	-28.132	1.00	147.66	Al	
ATOM	50354	C5' GUA	1451	159.001	50.193	-36.056	1.00	148.75	Al6S	ATOM	50407	C2 GUA	1453	155.317	60.172	-26.981	1.00	147.66	Al	
ATOM	50355	C4' GUA	1451	158.162	51.391	-36.440	1.00	148.75	Al6S	ATOM	50408	N2 GUA	1453	154.657	60.766	-25.977	1.00	147.66	Al	
ATOM	50356	O4' GUA	1451	156.767	51.132	-36.121	1.00	148.75	Al6S	ATOM	50409	N1 GUA	1453	155.811	58.914	-26.729	1.00	147.66	Al	
ATOM	50357	C1' GUA	1451	156.123	52.349	-35.772	1.00	148.75	Al6S	ATOM	50410	C6 GUA	1453	156.525	58.136	-27.637	1.00	147.66	Al	
ATOM	50358	N9 GUA	1451	155.886	52.271	-34.380	1.00	128.58	Al6S	ATOM	50411	O6 GUA	1453	156.919	57.005	-27.311	1.00	147.66	Al	
ATOM	50359	C4 GUA	1451	154.659	52.987	-33.812	1.00	128.58	Al6S	ATOM	50412	C5 GUA	1453	156.693	58.809	-28.877	1.00	147.66	Al	
ATOM	50360	N3 GUA	1451	153.846	53.851	-34.454	1.00	128.58	Al6S	ATOM	50413	N7 GUA	1453	157.339	58.406	-30.039	1.00	147.66	Al	
ATOM	50361	C2 GUA	1451	152.977	54.411	-33.633	1.00	128.58	Al6S	ATOM	50414	C8 GUA	1453	157.180	59.408	-30.861	1.00	147.66	Al	
ATOM	50362	N2 GUA	1451	152.909	55.307	-34.103	1.00	128.58	Al6S	ATOM	50415	C2' GUA	1453	156.854	62.038	-30.373	1.00	148.76	Al	
ATOM	50363	N1 GUA	1451	152.905	54.138	-32.291	1.00	128.58	Al6S	ATOM	50416	O2' GUA	1453	156.007	64.038	-30.344	1.00	148.76	Al	
ATOM	50364	C6 GUA	1451	153.730	53.251	-31.609	1.00	128.58	Al6S	ATOM	50417	C3' GUA	1453	158.007	63.054	-31.357	1.00	148.76	Al	
ATOM	50365	O6 GUA	1451	153.584	53.084	-30.395	1.00	128.58	Al6S	ATOM	50418	O3' GUA	1453	158.519	64.380	-31.386	1.00	148.76	Al	
ATOM	50366	C5 GUA	1451	154.671	52.646	-32.476	1.00	128.58	Al6S	ATOM	50419	P GUA	1454	159.775	64.767	-30.458	1.00	148.76	Al	
ATOM	50367	N7 GUA	1451	155.667	51.717	-32.212	1.00	128.58	Al6S	ATOM	50420	O1P GUA	1454	160.192	66.142	-30.838	1.00	148.76	Al	
ATOM	50368	C8 GUA	1451	156.237	51.516	-33.370	1.00	128.58	Al6S	ATOM	50421	O2P GUA	1454	160.764	63.656	-30.517	1.00	148.76	Al	

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ATOM	50422	OS	CYT	1454	159.172	64.811	-28.982	1.00140.60	Al6S	ATOM	50475	C2	CYT	1456	162.789	63.781	-14.851	1.00177.63	Al
ATOM	50423	CS	CYT	1454	158.214	65.817	-28.602	1.00140.60	Al6S	ATOM	50476	O2	CYT	1456	162.334	63.581	-13.527	1.00177.63	Al
ATOM	50424	C4	CYT	1454	157.718	65.569	-27.197	1.00140.60	Al6S	ATOM	50477	C3	CYT	1456	162.911	65.254	-15.217	1.00177.63	Al
ATOM	50425	O4	CYT	1454	157.039	64.288	-27.151	1.00140.60	Al6S	ATOM	50478	O3	CYT	1456	163.438	66.020	-14.144	1.00177.63	Al
ATOM	50426	C1	CYT	1454	157.280	63.664	-25.901	1.00140.60	Al6S	ATOM	50479	P	GUA	1457	165.032	66.169	-13.989	1.00136.58	Al
ATOM	50427	N1	CYT	1454	157.999	62.395	-26.136	1.00148.79	Al6S	ATOM	50480	O1P	GUA	1457	165.272	67.056	-12.822	1.00125.65	Al
ATOM	50428	C6	CYT	1454	158.754	62.211	-27.264	1.00148.79	Al6S	ATOM	50481	O2P	GUA	1457	165.596	66.532	-15.318	1.00125.65	Al
ATOM	50429	C2	CYT	1454	157.911	61.375	-25.171	1.00148.79	Al6S	ATOM	50482	O5	GUA	1457	165.530	64.637	-13.616	1.00136.58	Al
ATOM	50430	O2	CYT	1454	157.210	61.557	-24.160	1.00148.79	Al6S	ATOM	50483	C5	GUA	1457	165.277	64.130	-12.307	1.00136.58	Al
ATOM	50431	N3	CYT	1454	158.531	60.221	-25.368	1.00148.79	Al6S	ATOM	50484	C4	GUA	1457	166.019	62.817	-12.136	1.00136.58	Al
ATOM	50432	C4	CYT	1454	159.331	60.060	-26.469	1.00148.79	Al6S	ATOM	50485	O1	GUA	1457	165.491	61.831	-13.063	1.00136.58	Al
ATOM	50433	N4	CYT	1454	159.990	58.908	-26.617	1.00148.79	Al6S	ATOM	50486	C1	GUA	1457	166.534	60.972	-13.499	1.00136.58	Al
ATOM	50434	C5	CYT	1454	159.429	61.073	-27.468	1.00148.79	Al6S	ATOM	50487	N9	GUA	1457	166.657	61.084	-14.951	1.00125.65	Al
ATOM	50435	C2	CYT	1454	158.103	64.630	-25.049	1.00140.60	Al6S	ATOM	50488	C4	GUA	1457	167.301	60.201	-15.785	1.00125.65	Al
ATOM	50436	O2	CYT	1454	157.245	65.379	-24.210	1.00140.60	Al6S	ATOM	50489	N3	GUA	1457	167.916	59.058	-15.411	1.00125.65	Al
ATOM	50437	C3	CYT	1454	158.785	65.475	-26.117	1.00140.60	Al6S	ATOM	50490	C2	GUA	1457	168.456	58.426	-16.442	1.00125.65	Al
ATOM	50438	O3	CYT	1454	159.177	66.749	-25.624	1.00140.60	Al6S	ATOM	50491	N2	GUA	1457	169.106	57.269	-16.253	1.00125.65	Al
ATOM	50439	P	CYT	1455	160.570	66.904	-24.833	1.00143.76	Al6S	ATOM	50492	N1	GUA	1457	168.398	58.883	-17.737	1.00125.65	Al
ATOM	50440	O1P	CYT	1455	160.950	68.339	-24.898	1.00129.71	Al6S	ATOM	50493	C6	GUA	1457	167.775	60.059	-18.145	1.00125.65	Al
ATOM	50441	O2P	CYT	1455	161.520	66.872	-25.328	1.00129.71	Al6S	ATOM	50494	O6	GUA	1457	167.793	60.386	-19.339	1.00125.65	Al
ATOM	50442	O5	CYT	1455	160.200	66.559	-23.320	1.00143.76	Al6S	ATOM	50495	C5	GUA	1457	167.185	60.743	-17.050	1.00125.65	Al
ATOM	50443	C5	CYT	1455	159.282	67.387	-22.579	1.00143.76	Al6S	ATOM	50496	N7	GUA	1457	166.474	61.934	-17.013	1.00125.65	Al
ATOM	50444	C4	CYT	1455	158.934	66.740	-21.260	1.00143.76	Al6S	ATOM	50497	C8	GUA	1457	166.179	62.094	-15.752	1.00125.65	Al
ATOM	50445	O4	CYT	1455	158.321	65.451	-20.486	1.00143.76	Al6S	ATOM	50498	O2	GUA	1457	167.818	60.554	-12.779	1.00136.58	Al
ATOM	50446	C1	CYT	1455	158.683	64.540	-21.512	1.00143.76	Al6S	ATOM	50499	C2	GUA	1457	168.030	60.841	-12.412	1.00136.58	Al
ATOM	50447	N1	CYT	1455	159.399	63.398	-21.085	1.00129.71	Al6S	ATOM	50500	C3	GUA	1457	167.517	62.841	-12.412	1.00136.58	Al
ATOM	50448	C6	CYT	1455	159.887	63.454	-22.362	1.00129.71	Al6S	ATOM	50501	O3	GUA	1457	168.272	63.283	-11.283	1.00136.58	Al
ATOM	50449	O2	CYT	1455	159.584	62.247	-20.309	1.00129.71	Al6S	ATOM	50502	P	URI	1458	169.738	63.923	-11.501	1.00136.28	Al
ATOM	50450	C2	CYT	1455	159.123	62.219	-19.156	1.00129.71	Al6S	ATOM	50503	O1P	URI	1458	170.226	64.367	-10.169	1.00136.28	Al
ATOM	50451	N3	CYT	1455	160.258	61.198	-20.833	1.00129.71	Al6S	ATOM	50504	O2P	URI	1458	169.688	64.897	-12.626	1.00136.28	Al
ATOM	50452	C4	CYT	1455	160.735	61.266	-22.078	1.00129.71	Al6S	ATOM	50505	O5	URI	1458	170.634	62.691	-11.970	1.00133.24	Al
ATOM	50453	N4	CYT	1455	161.398	60.208	-22.550	1.00129.71	Al6S	ATOM	50506	C4	URI	1458	170.831	61.548	-11.814	1.00133.24	Al
ATOM	50454	C5	CYT	1455	160.555	62.421	-22.892	1.00129.71	Al6S	ATOM	50507	C5	URI	1458	171.622	60.489	-11.838	1.00133.24	Al
ATOM	50455	C2	CYT	1455	159.560	65.286	-19.483	1.00143.76	Al6S	ATOM	50508	O4	URI	1458	170.832	59.936	-12.922	1.00133.24	Al
ATOM	50456	O2	CYT	1455	158.772	65.722	-18.393	1.00143.76	Al6S	ATOM	50509	C1	URI	1458	171.682	59.608	-14.011	1.00133.24	Al
ATOM	50457	C3	CYT	1455	160.100	66.425	-20.335	1.00143.76	Al6S	ATOM	50510	N1	URI	1458	171.239	60.332	-15.214	1.00136.28	Al
ATOM	50458	O3	CYT	1455	160.474	67.533	-19.535	1.00143.76	Al6S	ATOM	50511	C6	URI	1458	170.500	61.495	-15.130	1.00136.28	Al
ATOM	50459	P	CYT	1456	161.962	67.603	-18.937	1.00177.63	Al6S	ATOM	50512	C2	URI	1458	171.599	59.807	-16.451	1.00136.28	Al
ATOM	50460	O1P	CYT	1456	162.132	68.942	-18.328	1.00111.96	Al6S	ATOM	50513	O2	URI	1458	172.253	58.780	-16.577	1.00136.28	Al
ATOM	50461	O2P	CYT	1456	162.899	67.151	-19.995	1.00111.96	Al6S	ATOM	50514	N3	URI	1458	171.168	60.630	-17.535	1.00136.28	Al
ATOM	50462	O5	CYT	1456	161.970	66.527	-17.765	1.00177.63	Al6S	ATOM	50515	C4	URI	1458	170.432	61.697	-17.519	1.00136.28	Al
ATOM	50463	C5	CYT	1456	161.304	66.792	-16.517	1.00177.63	Al6S	ATOM	50516	O4	URI	1458	170.103	62.218	-18.587	1.00136.28	Al
ATOM	50464	C4	CYT	1456	161.478	65.627	-15.572	1.00177.63	Al6S	ATOM	50517	C5	URI	1458	170.097	62.176	-16.209	1.00136.28	Al
ATOM	50465	O4	CYT	1456	160.924	64.434	-16.203	1.00177.63	Al6S	ATOM	50518	C2	URI	1458	173.115	59.966	-13.616	1.00133.24	Al
ATOM	50466	C1	CYT	1456	161.729	63.309	-15.846	1.00177.63	Al6S	ATOM	50519	O2	URI	1458	173.800	58.812	-13.175	1.00133.24	Al
ATOM	50467	N1	CYT	1456	162.347	62.762	-17.068	1.00111.96	Al6S	ATOM	50520	C3	URI	1458	172.888	60.987	-12.512	1.00133.24	Al
ATOM	50468	C6	CYT	1456	162.736	63.587	-18.089	1.00111.96	Al6S	ATOM	50521	O3	URI	1458	173.981	61.054	-11.616	1.00133.24	Al
ATOM	50469	O2	CYT	1456	162.550	61.379	-17.163	1.00111.96	Al6S	ATOM	50522	P	GUA	1459	175.137	62.089	-11.906	1.00127.14	Al
ATOM	50470	C2	CYT	1456	162.173	60.648	-16.234	1.00111.96	Al6S	ATOM	50523	O1P	GUA	1459	176.237	61.818	-10.902	1.00148.53	Al
ATOM	50471	N3	CYT	1456	163.151	60.874	-18.266	1.00111.96	Al6S	ATOM	50524	O2P	GUA	1459	174.591	63.455	-12.012	1.00148.53	Al
ATOM	50472	C4	CYT	1456	163.537	61.690	-19.250	1.00111.96	Al6S	ATOM	50525	O5	GUA	1459	175.707	61.660	-13.346	1.00127.14	Al
ATOM	50473	N4	CYT	1456	164.137	61.149	-20.314	1.00111.96	Al6S	ATOM	50526	C5	GUA	1459	176.275	60.356	-13.563	1.00127.14	Al
ATOM	50474	C5	CYT	1456	163.329	63.099	-19.185	1.00111.96	Al6S	ATOM	50527	C4	GUA	1459	176.498	60.113	-15.037	1.00127.14	Al

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ATOM	50528	O4' GUA	1459	175.228	60.079	-15.736	1.00127.14	Al6S	ATOM	50581	N4 CYT	1461	179.095	65.837	-18.735	1.00143.83	Al
ATOM	50529	C1' GUA	1459	175.389	60.610	-17.049	1.00127.14	Al6S	ATOM	50582	C5 CYT	1461	180.855	64.316	-19.286	1.00143.83	Al
ATOM	50530	N9 GUA	1459	174.491	61.752	-17.199	1.00148.53	Al6S	ATOM	50583	C2' CYT	1461	183.118	64.370	-23.273	1.00117.39	Al
ATOM	50531	C4 GUA	1459	174.063	62.312	-18.386	1.00148.53	Al6S	ATOM	50584	O2' CYT	1461	183.249	64.113	-24.656	1.00117.39	Al
ATOM	50532	N3 GUA	1459	174.395	61.896	-19.631	1.00148.53	Al6S	ATOM	50585	C3' CYT	1461	184.386	64.060	-22.490	1.00117.39	Al
ATOM	50533	C2 GUA	1459	173.822	62.638	-20.570	1.00148.53	Al6S	ATOM	50586	O3' CYT	1461	185.548	64.402	-23.227	1.00117.39	Al
ATOM	50534	N2 GUA	1459	174.038	62.366	-21.867	1.00148.53	Al6S	ATOM	50587	P URI	1462	186.242	65.833	-22.929	1.00111.93	Al
ATOM	50535	N1 GUA	1459	172.995	63.702	-20.307	1.00148.53	Al6S	ATOM	50588	O1P URI	1462	187.458	65.870	-23.855	1.00129.08	Al
ATOM	50536	C6 GUA	1459	172.643	64.149	-19.036	1.00148.53	Al6S	ATOM	50589	O2P URI	1462	186.372	66.038	-21.526	1.00129.08	Al
ATOM	50537	O6 GUA	1459	171.890	65.125	-18.910	1.00148.53	Al6S	ATOM	50590	O5' URI	1462	185.179	66.882	-23.548	1.00111.93	Al
ATOM	50538	C5 GUA	1459	173.247	63.362	-18.020	1.00148.53	Al6S	ATOM	50591	C5' URI	1462	185.012	67.125	-24.969	1.00111.93	Al
ATOM	50539	N7 GUA	1459	173.161	63.461	-16.637	1.00148.53	Al6S	ATOM	50592	C4' URI	1462	183.880	68.105	-25.224	1.00111.93	Al
ATOM	50540	C8 GUA	1459	173.910	62.490	-16.194	1.00148.53	Al6S	ATOM	50593	O4' URI	1462	182.667	67.579	-24.622	1.00111.93	Al
ATOM	50541	C2' GUA	1459	176.861	60.997	-17.219	1.00127.14	Al6S	ATOM	50594	C1' URI	1462	181.881	68.643	-24.108	1.00111.93	Al
ATOM	50542	O2' GUA	1459	177.562	59.980	-17.911	1.00127.14	Al6S	ATOM	50595	N1 URI	1462	181.786	68.491	-22.645	1.00129.08	Al
ATOM	50543	C3' GUA	1459	177.312	61.166	-15.772	1.00127.14	Al6S	ATOM	50596	C6 URI	1462	182.369	67.428	-21.994	1.00129.08	Al
ATOM	50544	O3' GUA	1459	178.708	60.947	-15.625	1.00127.14	Al6S	ATOM	50597	C2 URI	1462	181.090	69.461	-21.931	1.00129.08	Al
ATOM	50545	P ADE	1460	179.739	62.148	-15.905	1.00130.70	Al6S	ATOM	50598	O2 URI	1462	180.567	70.427	-22.456	1.00129.08	Al
ATOM	50546	O1P ADE	1460	179.466	62.409	-14.634	1.00161.96	Al6S	ATOM	50599	N3 URI	1462	181.037	69.259	-20.576	1.00129.08	Al
ATOM	50547	O2P ADE	1460	179.023	63.263	-16.582	1.00161.96	Al6S	ATOM	50600	C4 URI	1462	181.594	68.217	-19.870	1.00129.08	Al
ATOM	50548	O5' ADE	1460	180.761	61.516	-16.949	1.00130.70	Al6S	ATOM	50601	O4 URI	1462	181.440	68.165	-18.648	1.00129.08	Al
ATOM	50549	C5' ADE	1460	181.471	60.308	-16.639	1.00130.70	Al6S	ATOM	50602	C5 URI	1462	182.301	67.264	-20.670	1.00129.08	Al
ATOM	50550	C4' ADE	1460	181.959	59.649	-17.903	1.00130.70	Al6S	ATOM	50603	C2' URI	1462	182.569	69.951	-24.498	1.00111.93	Al
ATOM	50551	O4' ADE	1460	180.830	59.195	-18.690	1.00130.70	Al6S	ATOM	50604	O2' URI	1462	182.019	69.505	-24.631	1.00111.93	Al
ATOM	50552	C1' ADE	1460	181.160	59.262	-20.068	1.00161.96	Al6S	ATOM	50605	C3' URI	1462	184.017	70.411	-25.444	1.00111.93	Al
ATOM	50553	N9 ADE	1460	180.169	60.083	-20.759	1.00161.96	Al6S	ATOM	50606	O3' URI	1462	184.763	70.411	-25.444	1.00111.93	Al
ATOM	50554	C4 ADE	1460	180.058	59.197	-22.124	1.00161.96	Al6S	ATOM	50607	P GUA	1463	185.396	71.745	-24.784	1.00102.53	Al
ATOM	50555	N3 ADE	1460	180.806	59.580	-23.056	1.00161.96	Al6S	ATOM	50608	O1P GUA	1463	186.549	72.152	-25.629	1.00106.51	Al
ATOM	50556	C2 ADE	1460	180.423	59.937	-24.277	1.00161.96	Al6S	ATOM	50609	O2P GUA	1463	185.604	71.512	-23.326	1.00106.51	Al
ATOM	50557	N1 ADE	1460	179.453	60.781	-24.646	1.00161.96	Al6S	ATOM	50610	O5' GUA	1463	184.258	72.853	-24.948	1.00102.53	Al
ATOM	50558	C6 ADE	1460	178.724	61.388	-23.684	1.00161.96	Al6S	ATOM	50611	C5' GUA	1463	183.938	73.403	-26.245	1.00102.53	Al
ATOM	50559	N6 ADE	1460	177.766	62.238	-24.052	1.00161.96	Al6S	ATOM	50612	C4' GUA	1463	182.899	74.498	-26.124	1.00102.53	Al
ATOM	50560	C5 ADE	1460	179.027	61.087	-22.346	1.00161.96	Al6S	ATOM	50613	O4' GUA	1463	181.655	73.947	-25.608	1.00102.53	Al
ATOM	50561	N7 ADE	1460	178.484	61.518	-21.142	1.00161.96	Al6S	ATOM	50614	C1' GUA	1463	180.998	74.915	-24.800	1.00102.53	Al
ATOM	50562	C8 ADE	1460	179.193	60.893	-20.235	1.00161.96	Al6S	ATOM	50615	N9 GUA	1463	180.920	74.413	-23.430	1.00106.51	Al
ATOM	50563	C2' ADE	1460	182.570	59.842	-20.197	1.00130.70	Al6S	ATOM	50616	C4 GUA	1463	179.989	74.772	-22.481	1.00106.51	Al
ATOM	50564	O2' ADE	1460	183.498	58.803	-20.447	1.00130.70	Al6S	ATOM	50617	N3 GUA	1463	178.962	75.630	-22.660	1.00106.51	Al
ATOM	50565	C3' ADE	1460	182.745	60.538	-18.851	1.00130.70	Al6S	ATOM	50618	C2 GUA	1463	178.255	75.790	-21.556	1.00106.51	Al
ATOM	50566	O3' ADE	1460	184.107	60.645	-18.469	1.00130.70	Al6S	ATOM	50619	N2 GUA	1463	177.202	76.611	-21.557	1.00106.51	Al
ATOM	50567	P CYT	1461	184.796	62.093	-18.394	1.00117.39	Al6S	ATOM	50620	N1 GUA	1463	178.538	75.157	-20.359	1.00106.51	Al
ATOM	50568	O1P CYT	1461	186.253	61.883	-18.219	1.00143.83	Al6S	ATOM	50621	C6 GUA	1463	179.578	74.266	-20.159	1.00106.51	Al
ATOM	50569	O2P CYT	1461	184.044	62.893	-17.394	1.00143.83	Al6S	ATOM	50622	O6 GUA	1463	179.735	73.745	-19.046	1.00106.51	Al
ATOM	50570	O5' CYT	1461	184.551	62.720	-19.843	1.00117.39	Al6S	ATOM	50623	C5 GUA	1463	180.349	74.086	-21.337	1.00106.51	Al
ATOM	50571	C5' CYT	1461	185.015	62.046	-21.035	1.00117.39	Al6S	ATOM	50624	N7 GUA	1463	181.471	73.300	-21.566	1.00106.51	Al
ATOM	50572	C4' CYT	1461	184.284	62.563	-22.253	1.00117.39	Al6S	ATOM	50625	C8 GUA	1463	181.771	73.520	-22.818	1.00106.51	Al
ATOM	50573	O4' CYT	1461	182.862	62.310	-22.102	1.00117.39	Al6S	ATOM	50626	C2' GUA	1463	181.834	76.191	-22.847	1.00102.53	Al
ATOM	50574	C1' CYT	1461	182.121	63.389	-22.653	1.00117.39	Al6S	ATOM	50627	O2' GUA	1463	181.322	77.058	-25.841	1.00102.53	Al
ATOM	50575	N1 CYT	1461	181.316	64.012	-21.580	1.00143.83	Al6S	ATOM	50628	O3' GUA	1463	183.217	75.635	-25.168	1.00102.53	Al
ATOM	50576	C6 CYT	1461	181.566	63.738	-20.262	1.00143.83	Al6S	ATOM	50629	C3' GUA	1463	184.085	76.614	-25.715	1.00124.73	Al
ATOM	50577	C2 CYT	1461	180.287	64.908	-21.932	1.00143.83	Al6S	ATOM	50630	P GUA	1464	185.022	77.471	-24.727	1.00124.73	Al
ATOM	50578	O2 CYT	1461	180.068	65.141	-23.134	1.00143.83	Al6S	ATOM	50631	O1P GUA	1464	185.997	78.206	-25.572	1.00104.99	Al
ATOM	50579	N3 CYT	1461	179.563	65.497	-20.949	1.00143.83	Al6S	ATOM	50632	O2P GUA	1464	185.516	76.549	-23.669	1.00104.99	Al
ATOM	50580	C4 CYT	1461	179.827	65.225	-19.668	1.00143.83	Al6S	ATOM	50633	O5' GUA	1464	184.033	78.529	-24.046	1.00124.73	Al

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ATOM	50634	C5' GUA	1464	183.372	79.547	-24.838	1.00124.73	Al6S	ATOM	50687	C2' GUA	1466	180.742	82.276	-10.732	1.00113.74	Al
ATOM	50635	C4' GUA	1464	182.106	80.040	-24.156	1.00124.73	Al6S	ATOM	50688	N2' GUA	1466	180.376	82.007	-9.472	1.00113.74	Al
ATOM	50636	O4' GUA	1464	181.298	78.902	-23.749	1.00124.73	Al6S	ATOM	50689	N1' GUA	1466	181.827	81.584	-11.212	1.00113.74	Al
ATOM	50637	C1' GUA	1464	180.565	79.226	-22.576	1.00124.73	Al6S	ATOM	50690	C6' GUA	1466	182.361	81.715	-12.491	1.00113.74	Al
ATOM	50638	N9' GUA	1464	180.976	78.341	-21.488	1.00104.99	Al6S	ATOM	50691	O6' GUA	1466	183.345	81.041	-12.820	1.00113.74	Al
ATOM	50639	C4' GUA	1464	180.385	78.258	-20.248	1.00104.99	Al6S	ATOM	50692	C5' GUA	1466	181.638	82.669	-13.261	1.00113.74	Al
ATOM	50640	N3' GUA	1464	179.309	78.958	-19.838	1.00104.99	Al6S	ATOM	50693	N7' GUA	1466	181.826	83.102	-14.568	1.00113.74	Al
ATOM	50641	C2' GUA	1464	178.985	78.675	-18.592	1.00104.99	Al6S	ATOM	50694	C8' GUA	1466	180.880	83.981	-14.757	1.00113.74	Al
ATOM	50642	N2' GUA	1464	177.932	79.276	-18.029	1.00104.99	Al6S	ATOM	50695	C2' GUA	1466	179.215	86.296	-12.686	1.00113.74	Al
ATOM	50643	N1' GUA	1464	179.666	77.783	-17.805	1.00104.99	Al6S	ATOM	50696	O2' GUA	1466	178.070	86.645	-11.932	1.00113.74	Al
ATOM	50644	C6' GUA	1464	180.779	77.055	-17.407	1.00104.99	Al6S	ATOM	50697	C3' GUA	1466	179.548	88.657	-13.343	1.00113.74	Al
ATOM	50645	O6' GUA	1464	181.325	76.283	-17.407	1.00104.99	Al6S	ATOM	50698	O3' GUA	1466	179.315	88.657	-13.343	1.00113.74	Al
ATOM	50646	C5' GUA	1464	181.134	77.340	-19.544	1.00104.99	Al6S	ATOM	50699	P' GUA	1467	180.541	89.533	-12.794	1.00135.60	Al
ATOM	50647	N7' GUA	1464	182.163	76.840	-20.329	1.00104.99	Al6S	ATOM	50700	O1P' GUA	1467	180.051	90.920	-12.622	1.00102.40	Al
ATOM	50648	C8' GUA	1464	182.028	77.456	-21.473	1.00104.99	Al6S	ATOM	50701	O2P' GUA	1467	181.730	89.278	-13.642	1.00102.40	Al
ATOM	50649	C2' GUA	1464	180.886	80.675	-22.225	1.00124.73	Al6S	ATOM	50702	O5' GUA	1467	180.817	88.911	-11.356	1.00135.60	Al
ATOM	50650	O2' GUA	1464	179.900	81.524	-22.776	1.00124.73	Al6S	ATOM	50703	C5' GUA	1467	179.794	88.935	-10.340	1.00135.60	Al
ATOM	50651	C3' GUA	1464	182.248	80.857	-22.879	1.00124.73	Al6S	ATOM	50704	C4' GUA	1467	180.228	88.147	-9.126	1.00135.60	Al
ATOM	50652	O3' GUA	1464	182.501	82.234	-23.109	1.00124.73	Al6S	ATOM	50705	O4' GUA	1467	180.195	86.723	-8.753	1.00135.60	Al
ATOM	50653	P' GUA	1465	182.992	83.159	-21.887	1.00102.74	Al6S	ATOM	50706	C1' GUA	1467	181.272	86.074	-8.753	1.00102.40	Al
ATOM	50654	O1P' GUA	1465	183.144	84.555	-22.379	1.00102.74	Al6S	ATOM	50707	N1' GUA	1467	182.184	85.519	-9.781	1.00102.40	Al
ATOM	50655	O2P' GUA	1465	184.134	82.483	-21.229	1.00102.74	Al6S	ATOM	50708	C6' GUA	1467	182.404	86.190	-10.955	1.00102.40	Al
ATOM	50656	O5' GUA	1465	181.782	83.130	-20.861	1.00102.74	Al6S	ATOM	50709	C2' GUA	1467	182.835	84.294	-9.536	1.00102.40	Al
ATOM	50657	C5' GUA	1465	180.531	83.737	-19.982	1.00102.74	Al6S	ATOM	50710	N3' GUA	1467	182.629	83.695	-8.467	1.00102.40	Al
ATOM	50658	C4' GUA	1465	179.624	83.737	-19.982	1.00102.74	Al6S	ATOM	50711	O3' GUA	1467	183.673	83.795	-10.475	1.00102.40	Al
ATOM	50659	O4' GUA	1465	179.377	82.365	-19.572	1.00102.74	Al6S	ATOM	50712	C4' GUA	1467	183.879	84.463	-11.613	1.00102.40	Al
ATOM	50660	C1' GUA	1465	179.227	82.311	-18.161	1.00102.74	Al6S	ATOM	50713	N4' GUA	1467	184.714	83.931	-12.506	1.00102.40	Al
ATOM	50661	N9' GUA	1465	180.234	81.408	-17.608	1.00102.74	Al6S	ATOM	50714	C5' GUA	1467	183.235	85.705	-11.885	1.00102.40	Al
ATOM	50662	C4' GUA	1465	180.180	80.793	-16.380	1.00102.74	Al6S	ATOM	50715	C2' GUA	1467	181.969	87.125	-7.887	1.00135.60	Al
ATOM	50663	N3' GUA	1465	179.170	80.890	-15.489	1.00102.74	Al6S	ATOM	50716	O2' GUA	1467	181.420	87.128	-6.579	1.00135.60	Al
ATOM	50664	C2' GUA	1465	179.405	80.188	-14.394	1.00102.74	Al6S	ATOM	50717	C3' GUA	1467	181.650	88.400	-8.654	1.00135.60	Al
ATOM	50665	N2' GUA	1465	178.490	80.154	-13.415	1.00102.74	Al6S	ATOM	50718	O3' GUA	1467	181.795	89.576	-7.792	1.00135.60	Al
ATOM	50666	N1' GUA	1465	180.552	79.462	-14.183	1.00102.74	Al6S	ATOM	50719	P' GUA	1468	183.188	90.372	-7.932	1.00180.21	Al
ATOM	50667	C6' GUA	1465	181.608	79.354	-15.083	1.00102.74	Al6S	ATOM	50720	O1P' GUA	1468	183.009	91.616	-7.150	1.00112.76	Al
ATOM	50668	O6' GUA	1465	182.603	78.680	-14.789	1.00102.74	Al6S	ATOM	50721	O2P' GUA	1468	183.634	90.453	-9.351	1.00112.76	Al
ATOM	50669	C5' GUA	1465	182.129	80.089	-16.271	1.00102.74	Al6S	ATOM	50722	O5' GUA	1468	184.187	89.424	-7.131	1.00180.21	Al
ATOM	50670	N7' GUA	1465	181.358	80.240	-17.415	1.00102.74	Al6S	ATOM	50723	C5' GUA	1468	183.875	89.004	-5.783	1.00180.21	Al
ATOM	50671	C8' GUA	1465	181.423	81.024	-18.181	1.00102.74	Al6S	ATOM	50724	C4' GUA	1468	184.888	87.996	-5.285	1.00180.21	Al
ATOM	50672	C2' GUA	1465	179.383	83.735	-17.620	1.00102.74	Al6S	ATOM	50725	O4' GUA	1468	184.806	86.783	-6.075	1.00180.21	Al
ATOM	50673	O2' GUA	1465	178.104	84.307	-17.432	1.00102.74	Al6S	ATOM	50726	C1' GUA	1468	186.097	86.214	-6.208	1.00180.21	Al
ATOM	50674	C3' GUA	1465	180.179	84.403	-18.734	1.00102.74	Al6S	ATOM	50727	N9' GUA	1468	186.428	86.140	-7.629	1.00112.76	Al
ATOM	50675	O3' GUA	1465	180.014	85.811	-18.767	1.00102.74	Al6S	ATOM	50728	C4' GUA	1468	187.435	85.387	-8.185	1.00112.76	Al
ATOM	50676	P' GUA	1466	181.051	86.752	-17.979	1.00102.74	Al6S	ATOM	50729	N3' GUA	1468	188.283	84.579	-7.513	1.00112.76	Al
ATOM	50677	O1P' GUA	1466	180.957	88.108	-18.579	1.00113.74	Al6S	ATOM	50730	C2' GUA	1468	189.146	83.991	-8.317	1.00112.76	Al
ATOM	50678	O2P' GUA	1466	182.368	86.072	-17.919	1.00113.74	Al6S	ATOM	50731	N2' GUA	1468	190.061	83.154	-7.811	1.00112.76	Al
ATOM	50679	O5' GUA	1466	180.448	86.806	-16.508	1.00113.74	Al6S	ATOM	50732	N1' GUA	1468	189.177	84.179	-7.811	1.00112.76	Al
ATOM	50680	C5' GUA	1466	179.117	87.308	-16.283	1.00113.74	Al6S	ATOM	50733	C6' GUA	1468	188.316	85.006	-10.392	1.00112.76	Al
ATOM	50681	C4' GUA	1466	178.634	86.918	-14.907	1.00113.74	Al6S	ATOM	50734	O6' GUA	1468	188.436	85.106	-11.620	1.00112.76	Al
ATOM	50682	O4' GUA	1466	178.545	85.472	-14.821	1.00113.74	Al6S	ATOM	50735	C5' GUA	1468	187.380	85.645	-9.538	1.00112.76	Al
ATOM	50683	C1' GUA	1466	178.924	85.047	-13.525	1.00113.74	Al6S	ATOM	50736	N7' GUA	1468	186.356	86.536	-8.828	1.00112.76	Al
ATOM	50684	N9' GUA	1466	180.074	84.154	-13.654	1.00113.74	Al6S	ATOM	50737	C8' GUA	1468	185.819	86.802	-8.669	1.00112.76	Al
ATOM	50685	C4' GUA	1466	180.562	83.311	-12.683	1.00113.74	Al6S	ATOM	50738	C2' GUA	1468	187.081	87.082	-5.420	1.00180.21	Al
ATOM	50686	N3' GUA	1466	180.064	83.165	-11.435	1.00113.74	Al6S	ATOM	50739	O2' GUA	1468	187.297	86.520	-4.140	1.00180.21	Al

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ATOM	50740	C3' GUA	1468	186.346	88.416	-5.370	1.00180.21	Al6S	ATOM	50793	C1' GUA	1471	199.067	86.158	-10.980	1.00114.93	Al
ATOM	50741	O3' GUA	1468	186.731	89.196	-4.247	1.00180.21	Al6S	ATOM	50794	N9 GUA	1471	197.849	86.579	-11.670	1.0090.58	Al
ATOM	50742	P ADE	1469	187.361	90.655	-4.474	1.00157.24	Al6S	ATOM	50795	C4 GUA	1471	197.399	86.084	-12.872	1.0090.58	Al
ATOM	50743	O1P ADE	1469	186.594	91.581	-3.603	1.00176.88	Al6S	ATOM	50796	N3 GUA	1471	197.989	85.108	-13.599	1.0090.58	Al
ATOM	50744	O2P ADE	1469	187.447	90.925	-5.937	1.00176.88	Al6S	ATOM	50797	C2' GUA	1471	197.336	84.861	-14.724	1.0090.58	Al
ATOM	50745	O5' ADE	1469	188.837	90.533	-3.882	1.00157.24	Al6S	ATOM	50798	N2 GUA	1471	197.783	85.914	-15.558	1.0090.58	Al
ATOM	50746	C5' ADE	1469	190.003	90.624	-4.735	1.00157.24	Al6S	ATOM	50799	N1 GUA	1471	196.197	85.523	-15.113	1.0090.58	Al
ATOM	50747	C4' ADE	1469	191.250	90.256	-3.958	1.00157.24	Al6S	ATOM	50800	C6 GUA	1471	195.569	86.532	-14.337	1.0090.58	Al
ATOM	50748	O4' ADE	1469	191.070	88.946	-3.362	1.00157.24	Al6S	ATOM	50801	O6 GUA	1471	194.551	87.070	-14.840	1.0090.58	Al
ATOM	50749	C1' ADE	1469	192.291	88.230	-3.393	1.00157.24	Al6S	ATOM	50802	C5 GUA	1471	196.257	86.803	-13.161	1.0090.58	Al
ATOM	50750	N9 ADE	1469	192.081	87.009	-4.174	1.00176.88	Al6S	ATOM	50803	N7 GUA	1471	195.980	87.715	-12.149	1.0090.58	Al
ATOM	50751	C4 ADE	1469	192.915	85.917	-4.216	1.00176.88	Al6S	ATOM	50804	C8 GUA	1471	196.946	87.544	-11.285	1.0090.58	Al
ATOM	50752	N3 ADE	1469	194.085	85.757	-3.570	1.00176.88	Al6S	ATOM	50805	C2' GUA	1471	200.329	86.648	-11.695	1.00114.93	Al
ATOM	50753	C2 ADE	1469	194.612	84.563	-3.842	1.00176.88	Al6S	ATOM	50806	O2' GUA	1471	201.330	85.650	-11.623	1.00114.93	Al
ATOM	50754	N1 ADE	1469	194.138	83.583	-4.625	1.00176.88	Al6S	ATOM	50807	C3' GUA	1471	200.679	87.893	-10.890	1.00114.93	Al
ATOM	50755	C6 ADE	1469	192.958	83.774	-5.257	1.00176.88	Al6S	ATOM	50808	O3' GUA	1471	202.061	88.214	-10.954	1.00114.93	Al
ATOM	50756	N6 ADE	1469	192.481	82.793	-6.026	1.00176.88	Al6S	ATOM	50809	P URI	1472	202.586	89.231	-12.081	1.0078.65	Al
ATOM	50757	C5 ADE	1469	192.299	85.004	-5.057	1.00176.88	Al6S	ATOM	50810	O1P URI	1472	204.045	89.412	-11.876	1.0085.51	Al
ATOM	50758	N7 ADE	1469	191.105	85.517	-5.549	1.00176.88	Al6S	ATOM	50811	O2P URI	1472	201.693	90.420	-12.085	1.0085.51	Al
ATOM	50759	C8 ADE	1469	191.023	86.704	-5.001	1.00176.88	Al6S	ATOM	50812	O5' URI	1472	202.382	88.417	-13.437	1.0078.65	Al
ATOM	50760	C2' ADE	1469	193.364	89.152	-3.973	1.00157.24	Al6S	ATOM	50813	C5' URI	1472	202.989	87.121	-13.607	1.0078.65	Al
ATOM	50761	O2' ADE	1469	194.084	89.759	-2.924	1.00157.24	Al6S	ATOM	50814	C4' URI	1472	202.679	86.565	-14.975	1.0078.65	Al
ATOM	50762	C3' ADE	1469	192.525	90.137	-4.779	1.00157.24	Al6S	ATOM	50815	O4' URI	1472	201.309	86.093	-15.046	1.0078.65	Al
ATOM	50763	O3' ADE	1469	193.175	91.332	-4.919	1.00157.24	Al6S	ATOM	50816	C1' URI	1472	200.805	86.286	-16.363	1.0078.65	Al
ATOM	50764	P ADE	1470	194.332	91.567	-6.020	1.00201.09	Al6S	ATOM	50817	N1 URI	1472	199.587	87.114	-16.296	1.0085.51	Al
ATOM	50765	O1P ADE	1470	194.875	92.944	-5.884	1.00201.03	Al6S	ATOM	50818	C6 URI	1472	199.313	87.903	-15.190	1.0085.51	Al
ATOM	50766	O2P ADE	1470	193.817	91.105	-7.336	1.00201.03	Al6S	ATOM	50819	C2 URI	1472	198.705	87.081	-17.383	1.0085.51	Al
ATOM	50767	O5' ADE	1470	195.451	90.538	-5.550	1.00201.09	Al6S	ATOM	50820	O2 URI	1472	198.904	87.860	-17.337	1.0085.51	Al
ATOM	50768	C5' ADE	1470	196.376	90.869	-4.496	1.00201.09	Al6S	ATOM	50821	N3 URI	1472	197.580	87.860	-17.337	1.0085.51	Al
ATOM	50769	C4' ADE	1470	197.150	88.600	-4.569	1.00201.09	Al6S	ATOM	50822	C4 URI	1472	197.249	88.662	-16.156	1.0085.51	Al
ATOM	50770	O4' ADE	1470	197.775	87.682	-5.170	1.00201.09	Al6S	ATOM	50823	O5 URI	1472	198.209	88.656	-15.090	1.0085.51	Al
ATOM	50771	C1' ADE	1470	196.740	87.076	-6.015	1.00201.03	Al6S	ATOM	50824	C5 URI	1472	201.923	86.913	-17.199	1.0078.65	Al
ATOM	50772	N9 ADE	1470	196.852	85.909	-6.738	1.00201.03	Al6S	ATOM	50825	C2' URI	1472	202.587	85.908	-17.946	1.0078.65	Al
ATOM	50773	C4 ADE	1470	197.912	85.083	-6.801	1.00201.03	Al6S	ATOM	50826	O2' URI	1472	202.798	87.547	-16.123	1.0078.65	Al
ATOM	50774	N3 ADE	1470	197.660	84.055	-7.611	1.00201.03	Al6S	ATOM	50827	C3' URI	1472	204.141	87.737	-16.528	1.0078.65	Al
ATOM	50775	C2 ADE	1470	196.552	83.779	-8.312	1.00201.03	Al6S	ATOM	50828	O3' URI	1472	204.614	89.191	-17.021	1.0076.23	Al
ATOM	50776	N1 ADE	1470	195.505	84.629	-8.924	1.00201.03	Al6S	ATOM	50829	P CYT	1473	206.098	89.154	-17.136	1.0068.20	Al
ATOM	50777	C6 ADE	1470	194.400	84.355	-8.924	1.00201.03	Al6S	ATOM	50830	O1P CYT	1473	203.966	90.220	-16.151	1.0068.20	Al
ATOM	50778	N6 ADE	1470	195.645	85.759	-7.400	1.00201.03	Al6S	ATOM	50831	O2P CYT	1473	204.029	89.276	-18.499	1.0076.23	Al
ATOM	50779	C5 ADE	1470	194.784	86.804	-7.096	1.00201.03	Al6S	ATOM	50832	O5' CYT	1473	204.536	88.688	-21.096	1.0076.23	Al
ATOM	50780	N7 ADE	1470	195.475	87.552	-6.272	1.00201.03	Al6S	ATOM	50833	C5' CYT	1473	203.670	88.447	-20.745	1.0076.23	Al
ATOM	50781	C8 ADE	1470	198.800	88.453	-6.001	1.00201.09	Al6S	ATOM	50834	C4' CYT	1473	202.356	87.929	-20.427	1.0076.23	Al
ATOM	50782	C2' ADE	1470	200.084	88.339	-5.420	1.00201.09	Al6S	ATOM	50835	C1' CYT	1473	201.358	88.688	-21.096	1.0076.23	Al
ATOM	50783	O2' ADE	1470	198.234	89.866	-5.944	1.00201.09	Al6S	ATOM	50836	O1' CYT	1473	200.550	89.375	-20.070	1.0068.20	Al
ATOM	50784	C3' ADE	1470	197.704	90.613	-7.049	1.00201.09	Al6S	ATOM	50837	N1 CYT	1473	201.014	89.518	-18.788	1.0068.20	Al
ATOM	50785	O3' ADE	1470	199.574	90.841	-8.393	1.00114.93	Al6S	ATOM	50838	C6 CYT	1473	199.281	89.886	-20.425	1.0068.20	Al
ATOM	50786	P GUA	1471	199.878	91.437	-7.993	1.0090.58	Al6S	ATOM	50839	C2 CYT	1473	198.881	89.761	-21.597	1.0068.20	Al
ATOM	50787	O1P GUA	1471	197.704	91.565	-9.354	1.0090.58	Al6S	ATOM	50840	O2 CYT	1473	198.537	90.505	-19.479	1.0068.20	Al
ATOM	50788	O2P GUA	1471	198.852	89.386	-8.979	1.00114.93	Al6S	ATOM	50841	N3 CYT	1473	199.002	90.630	-18.231	1.0068.20	Al
ATOM	50789	O5' GUA	1471	199.993	88.631	-8.541	1.00114.93	Al6S	ATOM	50842	C4 CYT	1473	198.224	91.245	-17.331	1.0068.20	Al
ATOM	50790	C5' GUA	1471	200.274	87.497	-9.485	1.00114.93	Al6S	ATOM	50843	N4 CYT	1473	200.283	90.130	-17.849	1.0068.20	Al
ATOM	50791	C4' GUA	1471	199.076	86.701	-9.671	1.00114.93	Al6S	ATOM	50844	C5 CYT	1473	202.099	89.657	-22.027	1.0076.23	Al
ATOM	50792	O4' GUA	1471					Al6S	ATOM	50845	C2' CYT	1473					Al

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ATOM	50846	O2' CYT	1473	202.275	89.045	-23.291	1.00	76.23	Al6S	ATOM	50899	C1' ADE	1476	192.615	97.845	-27.089	1.00	40.38	Al
ATOM	50847	C3' CYT	1473	203.418	89.837	-21.291	1.00	76.23	Al6S	ATOM	50900	N9 ADE	1476	193.086	97.884	-25.709	1.00	50.14	Al
ATOM	50848	O3' CYT	1473	204.484	90.280	-22.119	1.00	76.23	Al6S	ATOM	50901	C4 ADE	1476	192.333	98.160	-24.594	1.00	50.14	Al
ATOM	50849	P GUA	1474	205.195	91.689	-21.802	1.00	64.87	Al6S	ATOM	50902	N3 ADE	1476	191.020	98.426	-24.542	1.00	50.14	Al
ATOM	50850	O1P GUA	1474	206.487	91.679	-22.518	1.00	68.66	Al6S	ATOM	50903	C2 ADE	1476	190.643	98.677	-23.293	1.00	50.14	Al
ATOM	50851	O2P GUA	1474	205.171	91.928	-20.335	1.00	68.66	Al6S	ATOM	50904	N1 ADE	1476	191.370	98.687	-22.174	1.00	50.14	Al
ATOM	50852	O5' GUA	1474	204.244	92.765	-22.490	1.00	64.87	Al6S	ATOM	50905	C6 ADE	1476	192.683	98.405	-22.262	1.00	50.14	Al
ATOM	50853	C5' GUA	1474	204.156	92.822	-23.914	1.00	64.87	Al6S	ATOM	50906	N6 ADE	1476	193.409	98.400	-21.150	1.00	50.14	Al
ATOM	50854	C4' GUA	1474	202.725	93.021	-24.374	1.00	64.87	Al6S	ATOM	50907	C5 ADE	1476	193.209	98.128	-23.533	1.00	50.14	Al
ATOM	50855	O4' GUA	1474	201.784	92.280	-23.545	1.00	64.87	Al6S	ATOM	50908	N7 ADE	1476	194.490	97.820	-23.965	1.00	50.14	Al
ATOM	50856	C1' GUA	1474	200.492	92.836	-23.708	1.00	64.87	Al6S	ATOM	50909	C8 ADE	1476	194.362	97.681	-25.258	1.00	50.14	Al
ATOM	50857	N9 GUA	1474	199.897	93.121	-22.408	1.00	68.66	Al6S	ATOM	50910	C2' ADE	1476	192.129	99.217	-27.548	1.00	40.38	Al
ATOM	50858	C4 GUA	1474	198.587	93.500	-22.195	1.00	68.66	Al6S	ATOM	50911	O2' ADE	1476	191.098	99.026	-28.491	1.00	40.38	Al
ATOM	50859	N3 GUA	1474	197.635	93.640	-23.147	1.00	68.66	Al6S	ATOM	50912	C3' ADE	1476	193.398	99.807	-28.147	1.00	40.38	Al
ATOM	50860	C2 GUA	1474	196.479	94.035	-22.643	1.00	68.66	Al6S	ATOM	50913	O3' ADE	1476	193.115	100.849	-29.073	1.00	40.38	Al
ATOM	50861	N2 GUA	1474	195.431	94.229	-23.457	1.00	68.66	Al6S	ATOM	50914	P ADE	1477	193.146	102.379	-28.570	1.00	38.19	Al
ATOM	50862	N1 GUA	1474	196.268	94.270	-21.307	1.00	68.66	Al6S	ATOM	50915	O1P ADE	1477	193.105	103.337	-29.759	1.00	51.07	Al
ATOM	50863	C6 GUA	1474	197.227	94.133	-20.312	1.00	68.66	Al6S	ATOM	50916	O2P ADE	1477	194.249	102.501	-27.573	1.00	51.07	Al
ATOM	50864	O6 GUA	1474	196.929	94.374	-19.142	1.00	68.66	Al6S	ATOM	50917	O5' ADE	1477	191.802	102.479	-27.725	1.00	38.19	Al
ATOM	50865	C5 GUA	1474	198.481	93.710	-20.843	1.00	68.66	Al6S	ATOM	50918	C5' ADE	1477	190.544	102.085	-28.284	1.00	38.19	Al
ATOM	50866	N7 GUA	1474	199.692	93.458	-20.211	1.00	68.66	Al6S	ATOM	50919	C4' ADE	1477	189.435	102.347	-27.305	1.00	38.19	Al
ATOM	50867	C8 GUA	1474	200.498	93.105	-21.177	1.00	68.66	Al6S	ATOM	50920	O4' ADE	1477	189.532	101.412	-26.206	1.00	38.19	Al
ATOM	50868	C2' GUA	1474	200.658	94.130	-24.503	1.00	64.87	Al6S	ATOM	50921	C1' ADE	1477	189.179	102.051	-24.992	1.00	38.19	Al
ATOM	50869	O2' GUA	1474	200.321	93.876	-25.851	1.00	64.87	Al6S	ATOM	50922	N9 ADE	1477	190.369	102.066	-24.123	1.00	51.07	Al
ATOM	50870	C3' GUA	1474	202.142	94.419	-24.343	1.00	64.87	Al6S	ATOM	50923	C4 ADE	1477	190.446	102.418	-22.792	1.00	51.07	Al
ATOM	50871	O3' GUA	1474	202.595	95.216	-25.418	1.00	64.87	Al6S	ATOM	50924	N3 ADE	1477	189.446	102.833	-21.990	1.00	51.07	Al
ATOM	50872	P URI	1475	202.586	96.809	-25.266	1.00	55.77	Al6S	ATOM	50925	C2 ADE	1477	189.905	103.087	-20.764	1.00	51.07	Al
ATOM	50873	O1P URI	1475	203.046	97.436	-26.538	1.00	42.49	Al6S	ATOM	50926	N1 ADE	1477	191.142	102.976	-20.285	1.00	51.07	Al
ATOM	50874	O2P URI	1475	203.288	97.132	-24.004	1.00	42.49	Al6S	ATOM	50927	C6 ADE	1477	192.122	102.551	-21.108	1.00	51.07	Al
ATOM	50875	O5' URI	1475	201.043	97.129	-25.061	1.00	55.77	Al6S	ATOM	50928	N6 ADE	1477	193.357	102.423	-20.618	1.00	51.07	Al
ATOM	50876	C5' URI	1475	200.050	96.601	-25.956	1.00	55.77	Al6S	ATOM	50929	C5 ADE	1477	191.774	102.258	-22.435	1.00	51.07	Al
ATOM	50877	C4' URI	1475	198.721	97.269	-25.708	1.00	55.77	Al6S	ATOM	50930	N7 ADE	1477	192.522	101.818	-23.514	1.00	51.07	Al
ATOM	50878	O4' URI	1475	198.221	96.931	-24.386	1.00	55.77	Al6S	ATOM	50931	C8 ADE	1477	191.649	101.721	-24.484	1.00	51.07	Al
ATOM	50879	C1' URI	1475	197.952	98.108	-23.641	1.00	55.77	Al6S	ATOM	50932	C2' ADE	1477	188.679	103.444	-25.371	1.00	38.19	Al
ATOM	50880	N1 URI	1475	198.309	97.834	-22.239	1.00	42.49	Al6S	ATOM	50933	O2' ADE	1477	187.306	103.372	-25.701	1.00	38.19	Al
ATOM	50881	C6 URI	1475	199.552	97.358	-21.892	1.00	42.49	Al6S	ATOM	50934	C3' ADE	1477	189.461	103.706	-26.639	1.00	38.19	Al
ATOM	50882	C2 URI	1475	197.347	98.045	-21.278	1.00	42.49	Al6S	ATOM	50935	O3' ADE	1477	188.875	104.725	-27.430	1.00	38.19	Al
ATOM	50883	O2 URI	1475	196.247	98.490	-21.533	1.00	42.49	Al6S	ATOM	50936	P CYT	1478	189.504	106.203	-27.386	1.00	27.85	Al
ATOM	50884	N3 URI	1475	197.716	97.714	-20.002	1.00	42.49	Al6S	ATOM	50937	O1P CYT	1478	188.772	107.058	-28.355	1.00	45.88	Al
ATOM	50885	C4 URI	1475	198.927	97.208	-19.595	1.00	42.49	Al6S	ATOM	50938	O2P CYT	1478	190.988	106.076	-27.475	1.00	45.88	Al
ATOM	50886	O5 URI	1475	199.079	96.876	-18.415	1.00	42.49	Al6S	ATOM	50939	C5' CYT	1478	189.142	106.698	-25.925	1.00	27.85	Al
ATOM	50887	C5 URI	1475	199.885	97.045	-20.641	1.00	42.49	Al6S	ATOM	50940	O5' CYT	1478	187.795	106.656	-25.478	1.00	27.85	Al
ATOM	50888	C2' URI	1475	198.703	99.268	-24.300	1.00	55.77	Al6S	ATOM	50941	C4' CYT	1478	187.697	107.201	-24.085	1.00	27.85	Al
ATOM	50889	O2' URI	1475	197.969	100.459	-24.101	1.00	55.77	Al6S	ATOM	50942	O4' CYT	1478	188.268	106.280	-23.137	1.00	27.85	Al
ATOM	50890	C3' URI	1475	198.785	98.778	-25.748	1.00	55.77	Al6S	ATOM	50943	C1' CYT	1478	188.774	107.007	-22.041	1.00	27.85	Al
ATOM	50891	O3' URI	1475	198.567	99.468	-26.985	1.00	55.77	Al6S	ATOM	50944	N1 CYT	1478	190.156	106.588	-22.798	1.00	45.88	Al
ATOM	50892	P ADE	1476	197.105	100.010	-27.370	1.00	40.38	Al6S	ATOM	50945	C6 CYT	1478	190.908	106.019	-22.783	1.00	45.88	Al
ATOM	50893	O1P ADE	1476	197.277	100.862	-28.594	1.00	50.14	Al6S	ATOM	50946	C2 CYT	1478	190.690	106.791	-20.537	1.00	45.88	Al
ATOM	50894	O2P ADE	1476	196.492	100.611	-26.137	1.00	50.14	Al6S	ATOM	50947	O3 CYT	1478	189.977	107.304	-19.661	1.00	45.88	Al
ATOM	50895	O5' ADE	1476	196.266	98.704	-27.744	1.00	40.38	Al6S	ATOM	50948	N2 CYT	1478	191.963	107.436	-20.298	1.00	45.88	Al
ATOM	50896	C5' ADE	1476	195.556	98.621	-29.004	1.00	40.38	Al6S	ATOM	50949	C4 CYT	1478	192.696	105.902	-21.268	1.00	45.88	Al
ATOM	50897	C4' ADE	1476	194.049	98.591	-28.792	1.00	40.38	Al6S	ATOM	50950	N4 CYT	1478	193.957	105.604	-20.996	1.00	45.88	Al
ATOM	50898	O4' ADE	1476	193.711	97.488	-27.909	1.00	40.38	Al6S	ATOM	50951	C5 CYT	1478	192.170	105.663	-22.563	1.00	45.88	Al

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ATOM	50952	C2' CYT	1478	188.609	108.503	-22.329	1.00	27.85	Al6S	ATOM	51005	C4' GUA	1481	195.194	108.452	-27.447	1.00	40.98	Al
ATOM	50953	O2' CYT	1478	187.489	108.986	-21.619	1.00	27.85	Al6S	ATOM	51006	O4' GUA	1481	194.847	108.860	-26.116	1.00	40.98	Al
ATOM	50954	C3' CYT	1478	188.402	108.514	-23.837	1.00	27.85	Al6S	ATOM	51007	C1' GUA	1481	194.303	107.773	-25.415	1.00	40.98	Al
ATOM	50955	O3' CYT	1478	187.529	109.543	-24.225	1.00	27.85	Al6S	ATOM	51008	N9' GUA	1481	193.413	108.304	-24.383	1.00	53.19	Al
ATOM	50956	P ADE	1479	187.992	110.589	-25.322	1.00	38.34	Al6S	ATOM	51009	C4 GUA	1481	193.752	108.528	-23.069	1.00	53.19	Al
ATOM	50957	OLP ADE	1479	186.856	111.465	-25.661	1.00	56.89	Al6S	ATOM	51010	N3 GUA	1481	194.952	108.284	-22.510	1.00	53.19	Al
ATOM	50958	O2P ADE	1479	188.696	109.859	-26.334	1.00	56.89	Al6S	ATOM	51011	C2 GUA	1481	194.974	108.600	-21.234	1.00	53.19	Al
ATOM	50959	O5' ADE	1479	189.066	111.435	-24.532	1.00	38.34	Al6S	ATOM	51012	N2 GUA	1481	196.080	108.416	-20.528	1.00	53.19	Al
ATOM	50960	C5' ADE	1479	188.858	112.817	-24.353	1.00	38.34	Al6S	ATOM	51013	N1 GUA	1481	193.913	109.119	-20.556	1.00	53.19	Al
ATOM	50961	C4' ADE	1479	190.144	113.577	-24.514	1.00	38.34	Al6S	ATOM	51014	C6 GUA	1481	192.669	109.383	-21.103	1.00	53.19	Al
ATOM	50962	O4' ADE	1479	190.910	113.484	-23.298	1.00	38.34	Al6S	ATOM	51015	O6 GUA	1481	191.775	109.857	-20.391	1.00	53.19	Al
ATOM	50963	C1' ADE	1479	192.258	113.528	-23.630	1.00	38.34	Al6S	ATOM	51016	C5 GUA	1481	192.623	109.043	-22.481	1.00	53.19	Al
ATOM	50964	N9 ADE	1479	193.025	113.155	-22.444	1.00	56.89	Al6S	ATOM	51017	N7 GUA	1481	191.588	109.139	-23.401	1.00	53.19	Al
ATOM	50965	C4 ADE	1479	194.240	112.544	-22.369	1.00	56.89	Al6S	ATOM	51018	C8 GUA	1481	192.102	108.691	-24.513	1.00	53.19	Al
ATOM	50966	N3 ADE	1479	194.952	112.059	-23.382	1.00	56.89	Al6S	ATOM	51019	C2' GUA	1481	193.708	106.788	-26.424	1.00	40.98	Al
ATOM	50967	C2 ADE	1479	196.090	111.582	-22.937	1.00	56.89	Al6S	ATOM	51020	O2' GUA	1481	194.020	105.455	-26.085	1.00	40.98	Al
ATOM	50968	N1 ADE	1479	196.572	111.547	-21.680	1.00	56.89	Al6S	ATOM	51021	C3' GUA	1481	194.240	107.309	-27.768	1.00	40.98	Al
ATOM	50969	C6 ADE	1479	195.824	112.058	-20.689	1.00	56.89	Al6S	ATOM	51022	O3' GUA	1481	194.749	106.383	-28.783	1.00	40.98	Al
ATOM	50970	N6 ADE	1479	196.309	112.063	-19.452	1.00	56.89	Al6S	ATOM	51023	P GUA	1482	195.990	105.378	-28.476	1.00	45.53	Al
ATOM	50971	C5 ADE	1479	194.592	112.566	-21.025	1.00	56.89	Al6S	ATOM	51024	OLP GUA	1482	195.689	104.175	-29.280	1.00	39.37	Al
ATOM	50972	N7 ADE	1479	193.589	113.122	-20.258	1.00	56.89	Al6S	ATOM	51025	O2P GUA	1482	196.187	105.244	-27.026	1.00	39.37	Al
ATOM	50973	C8 ADE	1479	192.674	113.440	-21.139	1.00	56.89	Al6S	ATOM	51026	O5' GUA	1482	197.296	106.090	-29.070	1.00	45.53	Al
ATOM	50974	C2' ADE	1479	192.351	112.757	-24.944	1.00	38.34	Al6S	ATOM	51027	C5' GUA	1482	197.322	106.697	-30.388	1.00	45.53	Al
ATOM	50975	O2' ADE	1479	193.518	113.169	-25.628	1.00	38.34	Al6S	ATOM	51028	C4' GUA	1482	198.535	107.608	-30.522	1.00	45.53	Al
ATOM	50976	C3' ADE	1479	191.092	113.257	-25.670	1.00	38.34	Al6S	ATOM	51029	O4' GUA	1482	198.437	108.610	-29.483	1.00	45.53	Al
ATOM	50977	O3' ADE	1479	191.396	114.484	-26.323	1.00	38.34	Al6S	ATOM	51030	C1' GUA	1482	199.646	108.694	-28.772	1.00	45.53	Al
ATOM	50978	P ADE	1480	190.442	115.033	-27.492	1.00	60.81	Al6S	ATOM	51031	N9 GUA	1482	199.377	108.240	-27.419	1.00	39.37	Al
ATOM	50979	OLP ADE	1480	190.613	116.437	-27.535	1.00	72.03	Al6S	ATOM	51032	C4 GUA	1482	198.870	109.014	-26.420	1.00	39.37	Al
ATOM	50980	O2P ADE	1480	189.083	114.466	-27.350	1.00	72.03	Al6S	ATOM	51033	N3 GUA	1482	198.585	110.324	-26.515	1.00	39.37	Al
ATOM	50981	O5' ADE	1480	191.103	114.466	-28.822	1.00	60.81	Al6S	ATOM	51034	C2 GUA	1482	198.107	110.803	-25.394	1.00	39.37	Al
ATOM	50982	C5' ADE	1480	190.600	113.280	-29.488	1.00	60.81	Al6S	ATOM	51035	N2 GUA	1482	197.780	112.100	-25.320	1.00	39.37	Al
ATOM	50983	O4' ADE	1480	191.691	112.685	-30.344	1.00	60.81	Al6S	ATOM	51036	N1 GUA	1482	197.917	110.049	-24.265	1.00	39.37	Al
ATOM	50984	C4' ADE	1480	192.152	113.724	-31.229	1.00	60.81	Al6S	ATOM	51037	O6 GUA	1482	198.199	108.696	-24.146	1.00	39.37	Al
ATOM	50985	C1' ADE	1480	193.554	113.699	-31.314	1.00	60.81	Al6S	ATOM	51038	C6 GUA	1482	197.983	108.112	-23.082	1.00	39.37	Al
ATOM	50986	N9 ADE	1480	194.034	115.074	-31.223	1.00	72.03	Al6S	ATOM	51039	C5 GUA	1482	198.719	108.174	-25.341	1.00	39.37	Al
ATOM	50987	C4 ADE	1480	195.174	115.733	-32.185	1.00	72.03	Al6S	ATOM	51040	N7 GUA	1482	199.144	106.894	-25.652	1.00	39.37	Al
ATOM	50988	N3 ADE	1480	195.859	116.169	-34.034	1.00	72.03	Al6S	ATOM	51041	C8 GUA	1482	199.532	106.981	-26.895	1.00	39.37	Al
ATOM	50989	C2 ADE	1480	196.152	117.429	-33.682	1.00	72.03	Al6S	ATOM	51042	C2' GUA	1482	200.713	107.927	-29.542	1.00	45.53	Al
ATOM	50990	N1 ADE	1480	195.713	117.885	-32.489	1.00	72.03	Al6S	ATOM	51043	O2' GUA	1482	201.386	108.865	-30.349	1.00	45.53	Al
ATOM	50991	C6 ADE	1480	195.998	119.142	-32.139	1.00	72.03	Al6S	ATOM	51044	C3' GUA	1482	199.885	106.913	-30.336	1.00	45.53	Al
ATOM	50992	N6 ADE	1480	195.977	117.002	-31.686	1.00	72.03	Al6S	ATOM	51045	O3' GUA	1482	200.551	106.773	-31.602	1.00	45.53	Al
ATOM	50993	C5 ADE	1480	194.401	117.142	-30.433	1.00	72.03	Al6S	ATOM	51046	P URI	1483	200.225	105.533	-32.577	1.00	47.67	Al
ATOM	50994	N7 ADE	1480	193.857	115.973	-30.205	1.00	72.03	Al6S	ATOM	51047	OLP URI	1483	200.018	104.282	-31.747	1.00	40.76	Al
ATOM	50995	C8 ADE	1480	194.121	112.680	-30.319	1.00	60.81	Al6S	ATOM	51048	O2P URI	1483	201.288	105.560	-33.621	1.00	40.76	Al
ATOM	50996	O2' ADE	1480	194.831	111.651	-30.970	1.00	60.81	Al6S	ATOM	51049	O5' URI	1483	198.890	105.985	-33.318	1.00	47.67	Al
ATOM	50997	C2' ADE	1480	192.889	112.271	-29.512	1.00	60.81	Al6S	ATOM	51050	C5' URI	1483	198.887	107.169	-34.139	1.00	47.67	Al
ATOM	50998	C3' ADE	1480	192.889	112.271	-29.512	1.00	60.81	Al6S	ATOM	51051	C4' URI	1483	197.908	107.011	-35.275	1.00	47.67	Al
ATOM	50999	O3' ADE	1480	192.713	110.889	-29.128	1.00	60.81	Al6S	ATOM	51052	O4' URI	1483	198.102	105.691	-35.844	1.00	47.67	Al
ATOM	51000	OLP GUA	1481	193.155	109.664	-30.104	1.00	40.98	Al6S	ATOM	51053	C1' URI	1483	196.886	104.994	-35.839	1.00	47.67	Al
ATOM	51001	O1P GUA	1481	193.168	110.110	-31.519	1.00	53.19	Al6S	ATOM	51054	N1 URI	1483	197.162	103.565	-35.660	1.00	40.76	Al
ATOM	51002	O2P GUA	1481	192.315	108.495	-29.733	1.00	53.19	Al6S	ATOM	51055	C6 URI	1483	197.699	103.068	-34.500	1.00	40.76	Al
ATOM	51003	O5' GUA	1481	194.641	109.358	-29.629	1.00	40.98	Al6S	ATOM	51056	C2 URI	1483	196.834	102.729	-36.712	1.00	40.76	Al
ATOM	51004	C5' GUA	1481	195.052	109.692	-28.294	1.00	40.98	Al6S	ATOM	51057	O2 URI	1483	196.425	103.150	-37.786	1.00	40.76	Al

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ATOM	51058	N3	URI	1483	197.021	101.391	-36.470	1.00	40.76	Al6S	ATOM	51111	P	CYT	1486	186.465	101.830	-30.846	1.00	30.56	Al
ATOM	51059	C4	URI	1483	197.520	100.820	-35.319	1.00	40.76	Al6S	ATOM	51112	01P	CYT	1486	186.543	100.944	-29.641	1.00	34.37	Al
ATOM	51060	O4	URI	1483	197.497	99.591	-35.191	1.00	40.76	Al6S	ATOM	51113	02P	CYT	1486	187.327	101.545	-32.013	1.00	34.37	Al
ATOM	51061	C5	URI	1483	197.892	101.762	-34.302	1.00	40.76	Al6S	ATOM	51114	05	CYT	1486	184.961	102.118	-30.427	1.00	30.56	Al
ATOM	51062	C2	URI	1483	196.037	105.644	-34.750	1.00	47.67	Al6S	ATOM	51115	C5	CYT	1486	183.918	102.118	-30.427	1.00	30.56	Al
ATOM	51063	O2	URI	1483	194.662	105.376	-34.932	1.00	47.67	Al6S	ATOM	51116	C4	CYT	1486	182.639	102.483	-31.124	1.00	30.56	Al
ATOM	51064	C3	URI	1483	196.428	107.107	-34.921	1.00	47.67	Al6S	ATOM	51117	O4	CYT	1486	182.856	103.522	-32.015	1.00	30.56	Al
ATOM	51065	O3	URI	1483	195.730	107.619	-36.058	1.00	47.67	Al6S	ATOM	51118	C1	CYT	1486	181.947	103.522	-33.095	1.00	30.56	Al
ATOM	51066	P	ADE	1484	195.204	109.137	-36.080	1.00	42.26	Al6S	ATOM	51119	N1	CYT	1486	182.723	103.388	-34.331	1.00	34.37	Al
ATOM	51067	01P	ADE	1484	194.557	109.380	-37.404	1.00	41.85	Al6S	ATOM	51120	C6	CYT	1486	184.061	103.130	-34.291	1.00	34.37	Al
ATOM	51068	02P	ADE	1484	196.295	110.046	-35.614	1.00	41.85	Al6S	ATOM	51121	C2	CYT	1486	182.073	103.539	-35.549	1.00	34.37	Al
ATOM	51069	O5	ADE	1484	194.058	109.171	-34.975	1.00	42.26	Al6S	ATOM	51122	O2	CYT	1486	180.848	103.743	-35.555	1.00	34.37	Al
ATOM	51070	C5	ADE	1484	192.995	108.203	-34.967	1.00	42.26	Al6S	ATOM	51123	N3	CYT	1486	182.790	103.461	-36.692	1.00	34.37	Al
ATOM	51071	C4	ADE	1484	191.939	108.597	-33.961	1.00	42.26	Al6S	ATOM	51124	C4	CYT	1486	184.100	103.247	-36.639	1.00	34.37	Al
ATOM	51072	O4	ADE	1484	191.179	109.724	-34.455	1.00	42.26	Al6S	ATOM	51125	N4	CYT	1486	184.776	103.233	-37.779	1.00	34.37	Al
ATOM	51073	C1	ADE	1484	189.821	109.588	-34.086	1.00	42.26	Al6S	ATOM	51126	C5	CYT	1486	184.779	103.055	-35.409	1.00	34.37	Al
ATOM	51074	N9	ADE	1484	189.027	109.497	-35.306	1.00	41.85	Al6S	ATOM	51127	C2	CYT	1486	181.063	102.304	-32.847	1.00	30.56	Al
ATOM	51075	C4	ADE	1484	187.658	109.571	-35.388	1.00	41.85	Al6S	ATOM	51128	O2	CYT	1486	179.936	102.717	-32.095	1.00	30.56	Al
ATOM	51076	N3	ADE	1484	186.787	109.740	-34.380	1.00	41.85	Al6S	ATOM	51129	C3	CYT	1486	181.983	101.446	-32.004	1.00	30.56	Al
ATOM	51077	C2	ADE	1484	185.534	109.776	-34.841	1.00	41.85	Al6S	ATOM	51130	C3	CYT	1486	181.251	100.525	-31.245	1.00	30.56	Al
ATOM	51078	N1	ADE	1484	185.088	109.664	-36.097	1.00	41.85	Al6S	ATOM	51131	P	URI	1487	181.268	98.977	-31.666	1.00	30.13	Al
ATOM	51079	C6	ADE	1484	185.987	109.483	-37.084	1.00	41.85	Al6S	ATOM	51132	01P	URI	1487	180.448	98.255	-30.642	1.00	44.90	Al
ATOM	51080	N6	ADE	1484	185.542	109.353	-38.329	1.00	41.85	Al6S	ATOM	51133	02P	URI	1487	182.678	98.557	-31.902	1.00	44.90	Al
ATOM	51081	C5	ADE	1484	187.351	109.436	-36.731	1.00	41.85	Al6S	ATOM	51134	O5	URI	1487	180.498	98.996	-33.057	1.00	30.13	Al
ATOM	51082	N7	ADE	1484	188.506	109.278	-37.483	1.00	41.85	Al6S	ATOM	51135	C5	URI	1487	179.169	99.473	-33.098	1.00	30.13	Al
ATOM	51083	C8	ADE	1484	189.469	109.320	-36.593	1.00	41.85	Al6S	ATOM	51136	C4	URI	1487	178.713	99.656	-34.505	1.00	30.13	Al
ATOM	51084	C2	ADE	1484	189.703	108.334	-33.228	1.00	42.26	Al6S	ATOM	51137	O4	URI	1487	179.526	100.644	-35.172	1.00	30.13	Al
ATOM	51085	O2	ADE	1484	189.827	108.692	-31.868	1.00	42.26	Al6S	ATOM	51138	C1	URI	1487	179.534	100.381	-36.563	1.00	30.13	Al
ATOM	51086	C3	ADE	1484	190.896	107.532	-33.712	1.00	42.26	Al6S	ATOM	51139	N1	URI	1487	180.931	100.235	-36.997	1.00	44.90	Al
ATOM	51087	O3	ADE	1484	191.369	106.641	-32.741	1.00	42.26	Al6S	ATOM	51140	C6	URI	1487	181.943	100.029	-36.081	1.00	44.90	Al
ATOM	51088	P	ADE	1485	191.161	105.075	-32.948	1.00	45.56	Al6S	ATOM	51141	C2	URI	1487	181.199	100.304	-38.357	1.00	44.90	Al
ATOM	51089	01P	GUA	1485	192.171	104.400	-32.029	1.00	40.26	Al6S	ATOM	51142	O2	URI	1487	180.339	100.498	-39.192	1.00	44.90	Al
ATOM	51090	02P	GUA	1485	191.191	104.810	-34.408	1.00	40.26	Al6S	ATOM	51143	N3	URI	1487	182.516	100.136	-38.692	1.00	44.90	Al
ATOM	51091	O5	GUA	1485	189.679	104.847	-32.415	1.00	45.56	Al6S	ATOM	51144	C4	URI	1487	183.571	99.909	-37.826	1.00	44.90	Al
ATOM	51092	C5	GUA	1485	189.312	105.273	-31.091	1.00	45.56	Al6S	ATOM	51145	O4	URI	1487	184.691	99.672	-38.286	1.00	44.90	Al
ATOM	51093	C4	GUA	1485	187.818	105.476	-30.977	1.00	45.56	Al6S	ATOM	51146	C5	URI	1487	178.702	99.116	-36.788	1.00	30.13	Al
ATOM	51094	O4	GUA	1485	187.388	106.598	-31.791	1.00	45.56	Al6S	ATOM	51147	C2	URI	1487	178.384	98.458	-35.417	1.00	30.13	Al
ATOM	51095	C1	GUA	1485	186.072	106.369	-32.246	1.00	45.56	Al6S	ATOM	51148	O2	URI	1487	178.765	98.458	-35.417	1.00	30.13	Al
ATOM	51096	N9	GUA	1485	186.090	106.346	-33.702	1.00	40.26	Al6S	ATOM	51149	C3	URI	1487	177.657	97.630	-35.186	1.00	30.13	Al
ATOM	51097	C4	GUA	1485	185.011	106.534	-34.535	1.00	40.26	Al6S	ATOM	51150	O3	URI	1487	177.880	96.018	-34.971	1.00	32.27	Al
ATOM	51098	N3	GUA	1485	183.744	106.794	-35.177	1.00	40.26	Al6S	ATOM	51151	P	GUA	1488	176.871	95.619	-33.982	1.00	41.44	Al
ATOM	51099	C2	GUA	1485	182.928	106.901	-34.177	1.00	40.26	Al6S	ATOM	51152	01P	GUA	1488	179.311	95.784	-34.701	1.00	41.44	Al
ATOM	51100	N2	GUA	1485	183.643	107.153	-34.978	1.00	40.26	Al6S	ATOM	51153	02P	GUA	1488	177.501	95.470	-36.399	1.00	32.27	Al
ATOM	51101	N1	GUA	1485	183.314	106.767	-36.481	1.00	40.26	Al6S	ATOM	51154	O5	GUA	1488	176.145	95.523	-36.865	1.00	32.27	Al
ATOM	51102	C6	GUA	1485	184.606	106.498	-36.905	1.00	40.26	Al6S	ATOM	51155	C5	GUA	1488	176.078	96.340	-38.344	1.00	32.27	Al
ATOM	51103	O6	GUA	1485	184.840	106.383	-38.106	1.00	40.26	Al6S	ATOM	51156	C4	GUA	1488	176.616	96.340	-39.080	1.00	32.27	Al
ATOM	51104	C5	GUA	1485	185.502	106.383	-35.809	1.00	40.26	Al6S	ATOM	51157	O4	GUA	1488	177.327	95.899	-40.210	1.00	32.27	Al
ATOM	51105	N7	GUA	1485	186.864	106.124	-35.782	1.00	40.26	Al6S	ATOM	51158	C1	GUA	1488	178.724	96.276	-40.024	1.00	41.44	Al
ATOM	51106	C8	GUA	1485	187.167	106.112	-34.514	1.00	40.26	Al6S	ATOM	51159	N9	GUA	1488	179.667	96.479	-41.003	1.00	41.44	Al
ATOM	51107	C2	GUA	1485	185.608	105.024	-31.677	1.00	45.56	Al6S	ATOM	51160	C4	GUA	1488	179.476	96.344	-42.327	1.00	41.44	Al
ATOM	51108	O2	GUA	1485	184.887	105.198	-30.470	1.00	45.56	Al6S	ATOM	51161	N3	GUA	1488	180.564	96.617	-43.010	1.00	41.44	Al
ATOM	51109	C3	GUA	1485	186.929	104.327	-31.415	1.00	45.56	Al6S	ATOM	51162	C2	GUA	1488	180.553	96.521	-44.334	1.00	41.44	Al
ATOM	51110	O3	GUA	1485	186.771	103.341	-30.410	1.00	45.56	Al6S	ATOM	51163	N2	GUA	1488						Al

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ATOM	51164	N1	GUA	1488	181.748	96.999	-42.447	1.00	41.44	Al6S	ATOM	51217	O1P	CYT	1491	184.438	83.612	-43.909	1.00	46.11	Al
ATOM	51165	C6	GUA	1488	181.979	97.139	-41.086	1.00	41.44	Al6S	ATOM	51218	O2P	CYT	1491	184.178	85.212	-41.937	1.00	46.11	Al
ATOM	51166	O6	GUA	1488	183.109	97.477	-40.676	1.00	41.44	Al6S	ATOM	51219	O5'	CYT	1491	186.224	85.275	-43.341	1.00	38.12	Al
ATOM	51167	C5	GUA	1488	180.813	96.845	-40.335	1.00	41.44	Al6S	ATOM	51220	C5'	CYT	1491	187.016	84.924	-44.498	1.00	38.12	Al
ATOM	51168	N7	GUA	1488	180.603	96.853	-38.962	1.00	41.44	Al6S	ATOM	51221	C4'	CYT	1491	188.385	85.571	-44.443	1.00	38.12	Al
ATOM	51169	C8	GUA	1488	179.354	96.506	-38.826	1.00	41.44	Al6S	ATOM	51222	O4'	CYT	1491	188.253	87.015	-44.367	1.00	38.12	Al
ATOM	51170	C2'	GUA	1488	177.140	94.382	-40.277	1.00	32.27	Al6S	ATOM	51223	C1'	CYT	1491	189.322	87.551	-43.608	1.00	38.12	Al
ATOM	51171	O2'	GUA	1488	176.035	94.060	-41.113	1.00	32.27	Al6S	ATOM	51224	N1	CYT	1491	188.759	88.188	-42.394	1.00	46.11	Al
ATOM	51172	C3'	GUA	1488	176.882	94.046	-38.819	1.00	32.27	Al6S	ATOM	51225	C6	CYT	1491	187.625	87.701	-41.809	1.00	46.11	Al
ATOM	51173	O3'	GUA	1488	176.189	92.823	-38.653	1.00	32.27	Al6S	ATOM	51226	C2	CYT	1491	189.417	89.292	-41.837	1.00	46.11	Al
ATOM	51174	O3'	GUA	1489	177.023	91.495	-38.184	1.00	37.08	Al6S	ATOM	51227	O2	CYT	1491	190.434	89.434	-42.384	1.00	46.11	Al
ATOM	51175	O1P	URI	1489	176.084	90.338	-38.184	1.00	39.95	Al6S	ATOM	51228	N3	CYT	1491	188.926	89.856	-40.716	1.00	46.11	Al
ATOM	51176	O2P	URI	1489	177.976	91.815	-37.225	1.00	39.95	Al6S	ATOM	51229	C4	CYT	1491	187.825	89.369	-40.156	1.00	46.11	Al
ATOM	51177	O5'	URI	1489	177.879	91.302	-39.657	1.00	37.08	Al6S	ATOM	51230	N4	CYT	1491	187.379	89.964	-39.062	1.00	46.11	Al
ATOM	51178	C5'	URI	1489	177.221	91.138	-40.926	1.00	37.08	Al6S	ATOM	51231	C5	CYT	1491	187.132	88.254	-40.700	1.00	46.11	Al
ATOM	51179	C4'	URI	1489	178.209	91.257	-42.057	1.00	37.08	Al6S	ATOM	51232	C2'	CYT	1491	190.254	86.386	-43.257	1.00	38.12	Al
ATOM	51180	O4'	URI	1489	178.744	92.599	-42.113	1.00	37.08	Al6S	ATOM	51233	O2'	CYT	1491	191.238	86.219	-44.262	1.00	38.12	Al
ATOM	51181	C1'	URI	1489	180.069	92.557	-42.601	1.00	37.08	Al6S	ATOM	51234	C3'	CYT	1491	189.291	85.215	-43.276	1.00	38.12	Al
ATOM	51182	N1	URI	1489	180.963	93.180	-41.608	1.00	39.95	Al6S	ATOM	51235	O3'	CYT	1491	189.994	84.008	-43.485	1.00	38.12	Al
ATOM	51183	C6	URI	1489	180.662	93.210	-40.264	1.00	39.95	Al6S	ATOM	51236	P	CYT	1492	190.381	83.099	-42.227	1.00	40.43	Al
ATOM	51184	C2	URI	1489	182.131	93.728	-42.076	1.00	39.95	Al6S	ATOM	51237	O1P	CYT	1492	190.939	81.848	-42.788	1.00	54.16	Al
ATOM	51185	O2	URI	1489	182.428	93.736	-43.256	1.00	39.95	Al6S	ATOM	51238	O2P	CYT	1492	189.207	83.036	-41.318	1.00	54.16	Al
ATOM	51186	N3	URI	1489	182.944	94.268	-41.116	1.00	39.95	Al6S	ATOM	51239	O5'	CYT	1492	191.546	83.917	-41.508	1.00	40.43	Al
ATOM	51187	C4	URI	1489	182.715	94.325	-39.761	1.00	39.95	Al6S	ATOM	51240	C5'	CYT	1492	192.820	84.110	-42.162	1.00	40.43	Al
ATOM	51188	O4	URI	1489	183.545	94.889	-39.023	1.00	39.95	Al6S	ATOM	51241	C4'	CYT	1492	193.726	85.023	-41.351	1.00	40.43	Al
ATOM	51189	C5	URI	1489	181.477	93.747	-39.352	1.00	39.95	Al6S	ATOM	51242	O4'	CYT	1492	193.184	86.373	-41.328	1.00	40.43	Al
ATOM	51190	C2'	URI	1489	180.408	91.096	-44.912	1.00	37.08	Al6S	ATOM	51243	C1'	CYT	1492	193.456	86.977	-40.076	1.00	40.43	Al
ATOM	51191	O2'	URI	1489	180.147	90.887	-44.285	1.00	37.08	Al6S	ATOM	51244	N1	CYT	1492	192.166	87.237	-39.401	1.00	54.16	Al
ATOM	51192	C3'	URI	1489	179.423	90.346	-42.020	1.00	37.08	Al6S	ATOM	51245	C6	CYT	1492	191.013	86.672	-39.869	1.00	54.16	Al
ATOM	51193	O3'	URI	1489	179.061	89.093	-42.574	1.00	37.08	Al6S	ATOM	51246	C2	CYT	1492	192.135	88.053	-38.255	1.00	54.16	Al
ATOM	51194	P	ADE	1490	179.855	87.762	-42.158	1.00	42.66	Al6S	ATOM	51247	O2	CYT	1492	193.184	88.586	-37.857	1.00	54.16	Al
ATOM	51195	O1P	ADE	1490	179.160	86.666	-42.871	1.00	47.74	Al6S	ATOM	51248	N3	CYT	1492	190.962	88.238	-37.613	1.00	54.16	Al
ATOM	51196	O2P	ADE	1490	180.047	87.676	-40.689	1.00	47.74	Al6S	ATOM	51249	C4	CYT	1492	189.853	87.657	-38.068	1.00	54.16	Al
ATOM	51197	O5'	ADE	1490	181.270	87.952	-42.848	1.00	42.66	Al6S	ATOM	51250	N4	CYT	1492	188.727	87.844	-37.390	1.00	54.16	Al
ATOM	51198	C5'	ADE	1490	181.393	87.890	-44.277	1.00	42.66	Al6S	ATOM	51251	C5	CYT	1492	189.850	86.851	-39.237	1.00	54.16	Al
ATOM	51199	C4'	ADE	1490	182.825	88.109	-44.685	1.00	42.66	Al6S	ATOM	51252	C5'	CYT	1492	194.340	86.007	-39.287	1.00	40.43	Al
ATOM	51200	O4'	ADE	1490	183.164	89.513	-44.579	1.00	42.66	Al6S	ATOM	51253	O2'	CYT	1492	195.680	86.340	-39.548	1.00	40.43	Al
ATOM	51201	C1'	ADE	1490	184.526	89.642	-44.230	1.00	42.66	Al6S	ATOM	51254	C3'	CYT	1492	193.954	84.659	-39.888	1.00	40.43	Al
ATOM	51202	N9	ADE	1490	184.624	90.378	-42.970	1.00	47.74	Al6S	ATOM	51255	P	CYT	1492	194.983	83.674	-39.753	1.00	40.43	Al
ATOM	51203	C4	ADE	1490	185.662	91.199	-42.621	1.00	47.74	Al6S	ATOM	51256	O3'	GUA	1493	195.044	82.730	-38.445	1.00	62.64	Al
ATOM	51204	N3	ADE	1490	186.734	91.514	-43.368	1.00	47.74	Al6S	ATOM	51257	O1P	GUA	1493	196.061	81.692	-38.719	1.00	62.64	Al
ATOM	51205	C2	ADE	1490	187.558	92.313	-42.692	1.00	47.74	Al6S	ATOM	51258	O2P	GUA	1493	193.679	82.319	-38.033	1.00	69.97	Al
ATOM	51206	N1	ADE	1490	187.440	92.796	-41.451	1.00	47.74	Al6S	ATOM	51259	O5'	GUA	1493	195.680	83.685	-37.343	1.00	62.64	Al
ATOM	51207	C6	ADE	1490	186.349	92.454	-40.730	1.00	47.74	Al6S	ATOM	51260	C5'	GUA	1493	196.945	84.352	-37.595	1.00	62.64	Al
ATOM	51208	N6	ADE	1490	186.235	92.927	-39.492	1.00	47.74	Al6S	ATOM	51261	C4'	GUA	1493	197.265	85.344	-36.490	1.00	62.64	Al
ATOM	51209	C5	ADE	1490	185.399	91.614	-41.335	1.00	47.74	Al6S	ATOM	51262	O4'	GUA	1493	196.389	86.499	-36.573	1.00	62.64	Al
ATOM	51210	N7	ADE	1490	184.198	91.089	-40.888	1.00	47.74	Al6S	ATOM	51263	C1'	GUA	1493	196.029	86.911	-35.270	1.00	62.64	Al
ATOM	51211	C8	ADE	1490	183.774	90.374	-41.898	1.00	47.74	Al6S	ATOM	51264	N9	GUA	1493	194.585	86.730	-35.114	1.00	69.97	Al
ATOM	51212	C2'	ADE	1490	185.115	88.230	-44.123	1.00	42.66	Al6S	ATOM	51265	C4	GUA	1493	193.792	87.337	-34.170	1.00	69.97	Al
ATOM	51213	O2'	ADE	1490	185.719	87.897	-45.355	1.00	42.66	Al6S	ATOM	51266	N3	GUA	1493	194.212	88.219	-33.235	1.00	69.97	Al
ATOM	51214	C3'	ADE	1490	183.877	87.330	-43.857	1.00	42.66	Al6S	ATOM	51267	C2	GUA	1493	193.223	88.632	-32.467	1.00	69.97	Al
ATOM	51215	O3'	ADE	1490	184.033	86.050	-44.292	1.00	42.66	Al6S	ATOM	51268	N2	GUA	1493	193.479	89.517	-31.488	1.00	69.97	Al
ATOM	51216	P	CYT	1491	184.662	84.954	-43.301	1.00	38.12	Al6S	ATOM	51269	N1	GUA	1493	191.916	88.206	-32.602	1.00	69.97	Al

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ATOM	51270	C6	GUA	1493	191.462	87.292	-33.552	1.00	69.97	Al6s	ATOM	51323	O3' ADE	1495	191.926	88.360	-27.259	1.00	59.54	Al
ATOM	51271	O6	GUA	1493	190.265	86.963	-33.577	1.00	69.97	Al6s	ATOM	51324	P ADE	1496	191.001	88.308	-28.462	1.00	64.65	Al
ATOM	51272	C5	GUA	1493	192.518	86.849	-34.391	1.00	69.97	Al6s	ATOM	51325	O1P ADE	1496	189.630	88.936	-28.264	1.00	66.25	Al
ATOM	51273	N7	GUA	1493	192.507	85.961	-35.457	1.00	69.97	Al6s	ATOM	51326	O2P ADE	1496	191.707	88.700	-29.742	1.00	66.25	Al
ATOM	51274	C8	GUA	1493	193.750	85.922	-35.855	1.00	69.97	Al6s	ATOM	51327	O5' ADE	1496	190.933	90.481	-28.226	1.00	64.65	Al
ATOM	51275	C2'	GUA	1493	196.831	86.070	-34.274	1.00	62.64	Al6s	ATOM	51328	C5' ADE	1496	190.104	91.017	-27.190	1.00	64.65	Al
ATOM	51276	O2'	GUA	1493	198.019	86.750	-33.939	1.00	62.64	Al6s	ATOM	51329	C4' ADE	1496	190.878	92.007	-26.371	1.00	64.65	Al
ATOM	51277	C3'	GUA	1493	197.103	84.809	-35.078	1.00	62.64	Al6s	ATOM	51330	O4' ADE	1496	192.237	92.617	-26.088	1.00	64.65	Al
ATOM	51278	O3'	GUA	1493	198.286	84.143	-34.653	1.00	62.64	Al6s	ATOM	51331	C1' ADE	1496	193.126	92.617	-26.088	1.00	64.65	Al
ATOM	51279	P	GUA	1494	198.177	82.867	-33.681	1.00	66.55	Al6s	ATOM	51332	C9 ADE	1496	194.066	92.603	-27.212	1.00	66.25	Al
ATOM	51280	O1P	GUA	1494	197.030	82.047	-34.157	1.00	83.06	Al6s	ATOM	51333	C4 ADE	1496	195.123	93.475	-27.343	1.00	66.25	Al
ATOM	51281	O2P	GUA	1494	199.523	82.237	-33.537	1.00	83.06	Al6s	ATOM	51334	N3 ADE	1496	195.516	94.411	-26.461	1.00	66.25	Al
ATOM	51282	O5'	GUA	1494	197.761	83.511	-32.287	1.00	66.55	Al6s	ATOM	51335	C2 ADE	1496	196.548	95.107	-26.939	1.00	66.25	Al
ATOM	51283	C5'	GUA	1494	198.748	83.992	-31.358	1.00	66.55	Al6s	ATOM	51336	N1 ADE	1496	197.185	94.991	-28.116	1.00	66.25	Al
ATOM	51284	C4'	GUA	1494	199.244	83.817	-29.947	1.00	66.55	Al6s	ATOM	51337	C6 ADE	1496	196.769	94.043	-28.985	1.00	66.25	Al
ATOM	51285	O4'	GUA	1494	199.313	84.072	-29.947	1.00	66.55	Al6s	ATOM	51338	N6 ADE	1496	197.399	93.946	-30.162	1.00	66.25	Al
ATOM	51286	C1'	GUA	1494	198.789	84.676	-27.841	1.00	66.55	Al6s	ATOM	51339	C5 ADE	1496	195.679	93.217	-28.587	1.00	66.25	Al
ATOM	51287	N9	GUA	1494	199.412	85.990	-27.700	1.00	83.06	Al6s	ATOM	51340	N7 ADE	1496	195.020	92.159	-29.207	1.00	66.25	Al
ATOM	51288	C4	GUA	1494	198.417	86.776	-26.571	1.00	83.06	Al6s	ATOM	51341	C8 ADE	1496	194.081	91.825	-28.349	1.00	66.25	Al
ATOM	51289	N3	GUA	1494	198.827	86.477	-25.391	1.00	83.06	Al6s	ATOM	51342	C2' ADE	1496	192.271	93.876	-26.178	1.00	64.65	Al
ATOM	51290	C2	GUA	1494	199.023	87.420	-24.485	1.00	83.06	Al6s	ATOM	51343	O2' ADE	1496	191.871	94.242	-24.872	1.00	64.65	Al
ATOM	51291	N2	GUA	1494	198.503	87.280	-23.257	1.00	83.06	Al6s	ATOM	51344	C3' ADE	1496	191.086	93.377	-26.979	1.00	64.65	Al
ATOM	51292	N1	GUA	1494	199.744	88.566	-24.716	1.00	83.06	Al6s	ATOM	51345	O3' ADE	1496	189.978	94.217	-26.782	1.00	64.65	Al
ATOM	51293	C6	GUA	1494	200.362	88.897	-25.919	1.00	83.06	Al6s	ATOM	51346	P	1497	189.196	94.821	-28.050	1.00	43.72	Al
ATOM	51294	O6	GUA	1494	201.001	89.957	-26.017	1.00	83.06	Al6s	ATOM	51347	O1P	1497	188.767	96.195	-27.665	1.00	49.71	Al
ATOM	51295	C5	GUA	1494	200.151	87.892	-26.907	1.00	83.06	Al6s	ATOM	51348	O2P	1497	188.179	93.815	-28.470	1.00	49.71	Al
ATOM	51296	N7	GUA	1494	200.582	87.821	-28.226	1.00	83.06	Al6s	ATOM	51349	O5' GUA	1497	190.235	94.916	-29.255	1.00	43.72	Al
ATOM	51297	C8	GUA	1494	200.119	86.681	-28.655	1.00	83.06	Al6s	ATOM	51350	C4' GUA	1497	191.387	95.774	-29.210	1.00	43.72	Al
ATOM	51298	C2'	GUA	1494	197.271	84.747	-28.002	1.00	66.55	Al6s	ATOM	51351	C5' GUA	1497	192.448	95.275	-30.185	1.00	43.72	Al
ATOM	51299	O2'	GUA	1494	196.649	83.615	-27.419	1.00	66.55	Al6s	ATOM	51352	O4' GUA	1497	192.331	93.819	-30.247	1.00	43.72	Al
ATOM	51300	C3'	GUA	1494	197.138	84.757	-29.513	1.00	66.55	Al6s	ATOM	51353	C1' GUA	1497	192.759	93.375	-31.535	1.00	43.72	Al
ATOM	51301	O3'	GUA	1494	195.856	84.350	-29.946	1.00	66.55	Al6s	ATOM	51354	N9	1497	191.656	92.599	-32.096	1.00	49.71	Al
ATOM	51302	P	ADE	1495	194.875	85.443	-30.596	1.00	59.54	Al6s	ATOM	51355	C4	1497	191.687	91.831	-33.247	1.00	49.71	Al
ATOM	51303	O1P	ADE	1495	193.671	84.728	-31.110	1.00	72.31	Al6s	ATOM	51356	N3	1497	192.748	91.665	-34.070	1.00	49.71	Al
ATOM	51304	O2P	ADE	1495	195.678	86.303	-31.515	1.00	72.31	Al6s	ATOM	51357	C2	1497	192.460	90.873	-35.092	1.00	49.71	Al
ATOM	51305	O5'	ADE	1495	194.468	86.374	-29.372	1.00	59.54	Al6s	ATOM	51358	N2	1497	193.390	90.609	-36.021	1.00	49.71	Al
ATOM	51306	C5'	ADE	1495	193.705	85.866	-28.276	1.00	59.54	Al6s	ATOM	51359	N1	1497	191.242	90.283	-35.285	1.00	49.71	Al
ATOM	51307	C4'	ADE	1495	193.802	86.814	-27.124	1.00	59.54	Al6s	ATOM	51360	C6	1497	190.145	90.428	-34.457	1.00	49.71	Al
ATOM	51308	O4'	ADE	1495	195.204	86.954	-26.790	1.00	59.54	Al6s	ATOM	51361	O6	1497	189.096	89.833	-34.725	1.00	49.71	Al
ATOM	51309	C1'	ADE	1495	195.492	88.302	-26.477	1.00	59.54	Al6s	ATOM	51362	C5	1497	190.428	91.290	-33.357	1.00	49.71	Al
ATOM	51310	N9	ADE	1495	196.464	88.802	-27.454	1.00	72.31	Al6s	ATOM	51363	N7	1497	189.621	91.708	-32.308	1.00	49.71	Al
ATOM	51311	C4	ADE	1495	197.241	89.925	-27.303	1.00	72.31	Al6s	ATOM	51364	C8	1497	190.390	92.479	-31.589	1.00	49.71	Al
ATOM	51312	N3	ADE	1495	197.272	90.755	-26.244	1.00	72.31	Al6s	ATOM	51365	C2'	1497	193.135	94.606	-32.353	1.00	43.72	Al
ATOM	51313	C2	ADE	1495	198.147	91.738	-27.497	1.00	72.31	Al6s	ATOM	51366	O3'	1497	194.529	94.754	-32.215	1.00	43.72	Al
ATOM	51314	N1	ADE	1495	198.938	91.973	-27.497	1.00	72.31	Al6s	ATOM	51367	C3'	1497	192.362	95.712	-31.642	1.00	43.72	Al
ATOM	51315	C6	ADE	1495	198.884	91.124	-28.550	1.00	72.31	Al6s	ATOM	51368	O3' GUA	1497	192.996	96.973	-33.137	1.00	43.02	Al
ATOM	51316	N6	ADE	1495	199.675	91.367	-29.602	1.00	72.31	Al6s	ATOM	51369	P	1498	192.681	97.850	-33.137	1.00	43.02	Al
ATOM	51317	C5	ADE	1495	197.986	90.029	-28.463	1.00	72.31	Al6s	ATOM	51370	O1P	1498	193.427	99.135	-33.030	1.00	55.85	Al
ATOM	51318	N7	ADE	1495	197.686	88.985	-29.333	1.00	72.31	Al6s	ATOM	51371	O2P	1498	191.214	97.872	-33.388	1.00	43.02	Al
ATOM	51319	C8	ADE	1495	196.784	88.288	-28.690	1.00	72.31	Al6s	ATOM	51372	O5' GUA	1498	193.346	97.029	-34.429	1.00	43.02	Al
ATOM	51320	C2'	ADE	1495	194.172	89.079	-26.508	1.00	59.54	Al6s	ATOM	51373	C5' GUA	1498	194.769	96.907	-34.429	1.00	43.02	Al
ATOM	51321	O2'	ADE	1495	193.647	89.173	-25.197	1.00	59.54	Al6s	ATOM	51374	C4' GUA	1498	195.126	96.201	-35.709	1.00	43.02	Al
ATOM	51322	C3'	ADE	1495	193.334	88.222	-27.452	1.00	59.54	Al6s	ATOM	51375	O4' GUA	1498	194.672	94.824	-35.667	1.00	43.02	Al

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ATOM	51376	C1' GUA	1498	194.238	94.422	-36.956	1.00	43.02	Al6S	ATOM	51429	N7 GUA	1500	188.038	96.108	-42.810	1.00	39.61	Al
ATOM	51377	N9 GUA	1498	192.857	93.943	-36.860	1.00	55.85	Al6S	ATOM	51430	C8 GUA	1500	188.921	96.204	-43.762	1.00	39.61	Al
ATOM	51378	C4 GUA	1498	192.208	93.073	-37.723	1.00	55.85	Al6S	ATOM	51431	C2' GUA	1500	188.887	96.473	-47.225	1.00	36.35	Al
ATOM	51379	N3 GUA	1498	192.732	92.491	-38.825	1.00	55.85	Al6S	ATOM	51432	O2' GUA	1500	189.087	95.888	-48.497	1.00	36.35	Al
ATOM	51380	C2 GUA	1498	191.849	91.715	-39.442	1.00	55.85	Al6S	ATOM	51433	C3' GUA	1500	189.864	97.610	-47.006	1.00	36.35	Al
ATOM	51381	N2 GUA	1498	192.191	91.063	-40.547	1.00	55.85	Al6S	ATOM	51434	O3' GUA	1500	190.061	98.342	-48.182	1.00	36.35	Al
ATOM	51382	N1 GUA	1498	190.553	91.522	-39.020	1.00	55.85	Al6S	ATOM	51435	P CYT	1501	189.941	99.840	-48.260	1.00	34.05	Al
ATOM	51383	C6 GUA	1498	190.002	92.101	-37.891	1.00	55.85	Al6S	ATOM	51436	O1P CYT	1501	190.040	100.500	-49.482	1.00	53.73	Al
ATOM	51384	O6 GUA	1498	188.831	91.853	-37.594	1.00	55.85	Al6S	ATOM	51437	O2P CYT	1501	189.772	100.449	-46.925	1.00	53.73	Al
ATOM	51385	C5 GUA	1498	190.932	92.940	-37.212	1.00	55.85	Al6S	ATOM	51438	O5' CYT	1501	187.966	99.636	-48.461	1.00	34.05	Al
ATOM	51386	N7 GUA	1498	190.782	93.693	-36.057	1.00	55.85	Al6S	ATOM	51439	C5' CYT	1501	187.057	98.948	-49.605	1.00	34.05	Al
ATOM	51387	C8 GUA	1498	191.942	94.270	-35.889	1.00	55.85	Al6S	ATOM	51440	C4' CYT	1501	186.051	98.617	-49.475	1.00	34.05	Al
ATOM	51388	C2' GUA	1498	194.436	95.614	-37.899	1.00	43.02	Al6S	ATOM	51441	O4' CYT	1501	185.859	97.609	-48.460	1.00	34.05	Al
ATOM	51389	O2' GUA	1498	195.681	95.512	-38.560	1.00	43.02	Al6S	ATOM	51442	C1' CYT	1501	184.567	97.742	-47.918	1.00	34.05	Al
ATOM	51390	C3' GUA	1498	194.450	96.782	-36.930	1.00	43.02	Al6S	ATOM	51443	N1 CYT	1501	184.691	97.861	-46.462	1.00	53.73	Al
ATOM	51391	O3' GUA	1498	195.159	97.896	-37.435	1.00	43.02	Al6S	ATOM	51444	C6 CYT	1501	185.786	98.443	-45.901	1.00	53.73	Al
ATOM	51392	P URI	1499	194.369	98.992	-38.286	1.00	41.22	Al6S	ATOM	51445	C2 CYT	1501	183.669	97.365	-45.656	1.00	53.73	Al
ATOM	51393	O1P URI	1499	195.260	100.158	-38.514	1.00	47.34	Al6S	ATOM	51446	O2 CYT	1501	182.676	96.858	-46.187	1.00	53.73	Al
ATOM	51394	O2P URI	1499	193.065	99.190	-37.617	1.00	47.34	Al6S	ATOM	51447	N3 CYT	1501	183.780	97.452	-44.320	1.00	53.73	Al
ATOM	51395	O5' URI	1499	194.072	98.260	-39.669	1.00	41.22	Al6S	ATOM	51448	C4 CYT	1501	184.851	98.018	-43.780	1.00	53.73	Al
ATOM	51396	C5' URI	1499	195.141	97.947	-40.579	1.00	41.22	Al6S	ATOM	51449	N4 CYT	1501	184.919	98.084	-42.451	1.00	53.73	Al
ATOM	51397	C4' URI	1499	194.651	97.045	-41.685	1.00	41.22	Al6S	ATOM	51450	C5 CYT	1501	185.904	98.544	-44.576	1.00	53.73	Al
ATOM	51398	O4' URI	1499	194.238	95.769	-41.130	1.00	41.22	Al6S	ATOM	51451	C2' CYT	1501	183.900	98.946	-48.590	1.00	34.05	Al
ATOM	51399	C1' URI	1499	193.160	95.249	-41.889	1.00	41.22	Al6S	ATOM	51452	O2' CYT	1501	183.125	98.491	-49.683	1.00	34.05	Al
ATOM	51400	N1 URI	1499	191.979	95.174	-41.027	1.00	47.34	Al6S	ATOM	51453	C3' CYT	1501	185.104	99.732	-49.083	1.00	34.05	Al
ATOM	51401	C6 URI	1499	191.817	96.010	-39.957	1.00	47.34	Al6S	ATOM	51454	O3' CYT	1501	184.794	100.594	-50.170	1.00	34.05	Al
ATOM	51402	C2 URI	1499	191.022	94.252	-41.353	1.00	47.34	Al6S	ATOM	51455	P GUA	1502	184.619	102.170	-49.892	1.00	41.26	Al
ATOM	51403	O2 URI	1499	191.160	93.458	-42.254	1.00	47.34	Al6S	ATOM	51456	O1P GUA	1502	184.426	102.895	-51.175	1.00	35.29	Al
ATOM	51404	N3 URI	1499	189.897	94.285	-40.577	1.00	47.34	Al6S	ATOM	51457	O2P GUA	1502	185.672	102.637	-48.947	1.00	35.29	Al
ATOM	51405	C4 URI	1499	189.654	95.117	-39.519	1.00	47.34	Al6S	ATOM	51458	O5' GUA	1502	183.235	102.226	-49.119	1.00	41.26	Al
ATOM	51406	O4 URI	1499	188.552	95.104	-38.991	1.00	47.34	Al6S	ATOM	51459	C5' GUA	1502	182.025	102.059	-49.841	1.00	41.26	Al
ATOM	51407	C5 URI	1499	190.718	96.011	-39.209	1.00	47.34	Al6S	ATOM	51460	C4' GUA	1502	180.864	101.936	-48.907	1.00	41.26	Al
ATOM	51408	C2' URI	1499	192.884	96.220	-43.035	1.00	41.22	Al6S	ATOM	51461	O4' GUA	1502	181.009	100.746	-48.092	1.00	41.26	Al
ATOM	51409	O2' URI	1499	193.562	95.793	-44.202	1.00	41.22	Al6S	ATOM	51462	C1' GUA	1502	180.337	100.933	-46.864	1.00	35.29	Al
ATOM	51410	C3' URI	1499	193.435	97.518	-42.464	1.00	41.22	Al6S	ATOM	51463	N9 GUA	1502	181.303	100.868	-45.776	1.00	35.29	Al
ATOM	51411	O3' URI	1499	193.755	98.438	-43.485	1.00	41.22	Al6S	ATOM	51464	C4 GUA	1502	181.018	100.573	-44.475	1.00	35.29	Al
ATOM	51412	P GUA	1500	192.618	99.423	-44.022	1.00	36.35	Al6S	ATOM	51465	N3 GUA	1502	179.817	100.214	-44.002	1.00	35.29	Al
ATOM	51413	O1P GUA	1500	193.209	100.453	-44.924	1.00	39.61	Al6S	ATOM	51466	C2 GUA	1502	179.837	100.035	-42.710	1.00	35.29	Al
ATOM	51414	O2P GUA	1500	191.882	99.838	-42.817	1.00	39.61	Al6S	ATOM	51467	N2 GUA	1502	178.731	99.649	-42.087	1.00	35.29	Al
ATOM	51415	O5' GUA	1500	191.666	98.475	-44.875	1.00	36.35	Al6S	ATOM	51468	N1 GUA	1502	180.948	100.217	-41.930	1.00	35.29	Al
ATOM	51416	C5' GUA	1500	192.209	97.672	-45.934	1.00	36.35	Al6S	ATOM	51469	C6 GUA	1502	182.195	100.601	-42.394	1.00	35.29	Al
ATOM	51417	C4' GUA	1500	191.126	96.876	-46.630	1.00	36.35	Al6S	ATOM	51470	O6 GUA	1502	183.125	100.771	-41.599	1.00	35.29	Al
ATOM	51418	O4' GUA	1500	190.669	95.759	-45.832	1.00	36.35	Al6S	ATOM	51471	C5 GUA	1502	182.191	100.764	-43.789	1.00	35.29	Al
ATOM	51419	C1' GUA	1500	189.319	95.477	-46.147	1.00	36.35	Al6S	ATOM	51472	N7 GUA	1502	183.211	101.115	-44.652	1.00	35.29	Al
ATOM	51420	N9 GUA	1500	188.539	95.576	-44.918	1.00	39.61	Al6S	ATOM	51473	C8 GUA	1502	182.640	101.153	-45.824	1.00	35.29	Al
ATOM	51421	C4 GUA	1500	187.290	95.050	-44.675	1.00	39.61	Al6S	ATOM	51474	C2' GUA	1502	179.737	102.335	-46.900	1.00	41.26	Al
ATOM	51422	N3 GUA	1500	186.537	94.355	-45.545	1.00	39.61	Al6S	ATOM	51475	O2' GUA	1502	178.392	102.239	-47.355	1.00	41.26	Al
ATOM	51423	C2 GUA	1500	185.398	93.956	-45.004	1.00	39.61	Al6S	ATOM	51476	C3' GUA	1502	180.669	103.027	-47.883	1.00	41.26	Al
ATOM	51424	N2 GUA	1500	184.532	93.216	-45.723	1.00	39.61	Al6S	ATOM	51477	O3' GUA	1502	180.144	104.218	-48.433	1.00	41.26	Al
ATOM	51425	N1 GUA	1500	185.022	94.240	-43.723	1.00	39.61	Al6S	ATOM	51478	P GUA	1503	180.442	105.620	-47.698	1.00	38.37	Al
ATOM	51426	C6 GUA	1500	185.775	94.966	-42.817	1.00	39.61	Al6S	ATOM	51479	O1P GUA	1503	179.834	106.667	-48.560	1.00	46.07	Al
ATOM	51427	O6 GUA	1500	185.338	95.176	-41.681	1.00	39.61	Al6S	ATOM	51480	O2P GUA	1503	181.875	105.719	-47.311	1.00	46.07	Al
ATOM	51428	C5 GUA	1500	187.003	95.381	-43.374	1.00	39.61	Al6S	ATOM	51481	O5' GUA	1503	179.590	105.508	-46.365	1.00	38.37	Al

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ATOM	51482	C5' GUA	1503	178.204	105.182	-46.448	1.00	38.37	Al6s	ATOM	51535	O4 URI	1505	182.851	109.749	-38.973	1.00	37.32	Al
ATOM	51483	C4' GUA	1503	177.637	104.908	-45.084	1.00	38.37	Al6s	ATOM	51536	C5 URI	1505	180.736	110.710	-38.468	1.00	37.32	Al
ATOM	51484	O4' GUA	1503	178.302	103.772	-44.481	1.00	38.37	Al6s	ATOM	51537	C2' URI	1505	179.383	113.394	-35.175	1.00	46.90	Al
ATOM	51485	C1' GUA	1503	178.302	103.921	-43.074	1.00	38.37	Al6s	ATOM	51538	O2' URI	1505	179.821	114.048	-34.013	1.00	46.90	Al
ATOM	51486	N9 GUA	1503	179.686	103.969	-42.617	1.00	46.07	Al6s	ATOM	51539	C3' URI	1505	177.900	113.558	-35.479	1.00	46.90	Al
ATOM	51487	C4 GUA	1503	180.127	103.826	-41.327	1.00	46.07	Al6s	ATOM	51540	O3' URI	1505	177.177	114.692	-34.923	1.00	46.90	Al
ATOM	51488	N3 GUA	1503	179.354	103.630	-40.246	1.00	46.07	Al6s	ATOM	51541	P GUA	1506	176.964	114.891	-33.312	1.00	39.13	Al
ATOM	51489	C2 GUA	1503	180.070	103.537	-39.147	1.00	46.07	Al6s	ATOM	51542	O1P GUA	1506	175.520	115.183	-33.201	1.00	30.88	Al
ATOM	51490	N2 GUA	1503	179.465	103.376	-37.966	1.00	46.07	Al6s	ATOM	51543	O2P GUA	1506	177.944	115.859	-32.761	1.00	30.88	Al
ATOM	51491	N1 GUA	1503	181.433	103.604	-39.117	1.00	46.07	Al6s	ATOM	51544	O5' GUA	1506	177.177	113.481	-32.598	1.00	39.13	Al
ATOM	51492	C6 GUA	1503	182.244	103.800	-40.223	1.00	46.07	Al6s	ATOM	51545	C5' GUA	1506	176.891	113.342	-31.208	1.00	39.13	Al
ATOM	51493	O6 GUA	1503	183.469	103.843	-40.091	1.00	46.07	Al6s	ATOM	51546	C4' GUA	1506	177.897	112.438	-30.547	1.00	39.13	Al
ATOM	51494	C5 GUA	1503	181.494	103.925	-41.396	1.00	46.07	Al6s	ATOM	51547	O4' GUA	1506	177.269	111.196	-30.136	1.00	39.13	Al
ATOM	51495	N7 GUA	1503	181.909	104.144	-42.698	1.00	46.07	Al6s	ATOM	51548	C1' GUA	1506	178.077	110.124	-30.538	1.00	39.13	Al
ATOM	51496	C8 GUA	1503	180.804	104.163	-43.388	1.00	46.07	Al6s	ATOM	51549	N9 GUA	1506	177.245	108.935	-30.718	1.00	30.88	Al
ATOM	51497	C2' GUA	1503	177.551	105.212	-42.759	1.00	38.37	Al6s	ATOM	51550	C4 GUA	1506	176.192	108.766	-31.588	1.00	30.88	Al
ATOM	51498	O2' GUA	1503	176.180	104.900	-42.578	1.00	38.37	Al6s	ATOM	51551	N3 GUA	1506	175.712	109.687	-32.435	1.00	30.88	Al
ATOM	51499	C3' GUA	1503	177.759	105.997	-44.039	1.00	38.37	Al6s	ATOM	51552	C2 GUA	1506	174.706	109.222	-33.146	1.00	30.88	Al
ATOM	51500	O3' GUA	1503	176.775	106.996	-44.190	1.00	38.37	Al6s	ATOM	51553	N2 GUA	1506	174.091	110.016	-34.026	1.00	30.88	Al
ATOM	51501	P CYT	1504	177.087	108.481	-43.677	1.00	39.50	Al6s	ATOM	51554	N1 GUA	1506	174.225	107.950	-33.052	1.00	30.88	Al
ATOM	51502	O1P CYT	1504	175.962	109.329	-44.160	1.00	31.28	Al6s	ATOM	51555	C6 GUA	1506	174.715	106.977	-32.201	1.00	30.88	Al
ATOM	51503	O2P CYT	1504	178.484	108.834	-44.028	1.00	31.28	Al6s	ATOM	51556	O6 GUA	1506	174.229	105.840	-32.224	1.00	30.88	Al
ATOM	51504	O5' CYT	1504	177.027	108.347	-42.095	1.00	39.50	Al6s	ATOM	51557	C5 GUA	1506	175.772	107.468	-31.406	1.00	30.88	Al
ATOM	51505	C5' CYT	1504	175.975	108.099	-41.439	1.00	39.50	Al6s	ATOM	51558	N7 GUA	1506	176.523	106.839	-30.425	1.00	30.88	Al
ATOM	51506	C4' CYT	1504	175.979	108.109	-39.954	1.00	39.50	Al6s	ATOM	51559	C8 GUA	1506	177.382	107.744	-30.048	1.00	30.88	Al
ATOM	51507	O4' CYT	1504	176.826	106.994	-39.596	1.00	39.50	Al6s	ATOM	51560	C2' GUA	1506	178.845	110.630	-31.764	1.00	39.13	Al
ATOM	51508	C1' CYT	1504	177.689	107.373	-38.537	1.00	39.50	Al6s	ATOM	51561	O2' GUA	1506	180.017	109.856	-31.975	1.00	39.13	Al
ATOM	51509	N1 CYT	1504	179.089	107.287	-39.013	1.00	31.28	Al6s	ATOM	51562	C3' GUA	1506	179.142	112.076	-31.355	1.00	39.13	Al
ATOM	51510	C6 CYT	1504	179.398	107.345	-40.349	1.00	31.28	Al6s	ATOM	51563	O3' GUA	1506	180.323	112.063	-30.525	1.00	39.13	Al
ATOM	51511	C2 CYT	1504	180.105	107.130	-38.067	1.00	31.28	Al6s	ATOM	51564	P GUA	1507	181.005	113.439	-30.038	1.00	48.35	Al
ATOM	51512	O2 CYT	1504	179.804	107.106	-36.867	1.00	31.28	Al6s	ATOM	51565	O1P GUA	1507	182.279	113.034	-29.372	1.00	75.49	Al
ATOM	51513	N3 CYT	1504	181.385	107.011	-38.484	1.00	31.28	Al6s	ATOM	51566	O2P GUA	1507	180.023	114.257	-29.296	1.00	75.49	Al
ATOM	51514	C4 CYT	1504	181.668	107.054	-39.781	1.00	31.28	Al6s	ATOM	51567	O5' GUA	1507	181.332	114.237	-31.367	1.00	48.35	Al
ATOM	51515	N4 CYT	1504	182.929	106.928	-40.131	1.00	31.28	Al6s	ATOM	51568	C5' GUA	1507	182.041	113.609	-32.417	1.00	48.35	Al
ATOM	51516	C5 CYT	1504	180.661	107.229	-40.770	1.00	31.28	Al6s	ATOM	51569	C4' GUA	1507	183.528	113.736	-32.206	1.00	48.35	Al
ATOM	51517	C2' CYT	1504	177.281	108.777	-38.093	1.00	39.50	Al6s	ATOM	51570	O4' GUA	1507	184.135	112.739	-33.048	1.00	48.35	Al
ATOM	51518	O2' CYT	1504	176.308	108.627	-37.079	1.00	39.50	Al6s	ATOM	51571	C1' GUA	1507	185.302	113.260	-33.634	1.00	48.35	Al
ATOM	51519	C3' CYT	1504	176.680	109.335	-39.377	1.00	39.50	Al6s	ATOM	51572	N9 GUA	1507	185.123	113.045	-35.076	1.00	75.49	Al
ATOM	51520	O3' CYT	1504	175.773	110.414	-39.151	1.00	39.50	Al6s	ATOM	51573	C4 GUA	1507	186.118	113.055	-35.983	1.00	75.49	Al
ATOM	51521	P URI	1505	176.330	111.919	-39.059	1.00	46.90	Al6s	ATOM	51574	N3 GUA	1507	187.423	112.889	-35.684	1.00	75.49	Al
ATOM	51522	O1P URI	1505	175.164	112.809	-38.991	1.00	37.32	Al6s	ATOM	51575	C2 GUA	1507	188.154	112.717	-36.760	1.00	75.49	Al
ATOM	51523	O2P URI	1505	177.324	112.140	-40.120	1.00	37.32	Al6s	ATOM	51576	N2 GUA	1507	189.477	112.540	-36.630	1.00	75.49	Al
ATOM	51524	O5' URI	1505	177.072	111.936	-37.646	1.00	46.90	Al6s	ATOM	51577	N1 GUA	1507	186.641	112.709	-38.044	1.00	75.49	Al
ATOM	51525	C5' URI	1505	176.345	111.802	-36.390	1.00	46.90	Al6s	ATOM	51578	C6 GUA	1507	186.293	112.885	-38.377	1.00	75.49	Al
ATOM	51526	C4' URI	1505	177.239	112.204	-35.239	1.00	46.90	Al6s	ATOM	51579	O6 GUA	1507	185.932	112.872	-39.573	1.00	75.49	Al
ATOM	51527	O4' URI	1505	178.299	111.870	-35.126	1.00	46.90	Al6s	ATOM	51580	C7 GUA	1507	185.499	113.068	-37.082	1.00	75.49	Al
ATOM	51528	C1' URI	1505	179.559	111.870	-35.124	1.00	46.90	Al6s	ATOM	51581	N5 GUA	1507	184.131	113.279	-37.082	1.00	75.49	Al
ATOM	51529	N1 URI	1505	180.397	111.274	-36.180	1.00	37.32	Al6s	ATOM	51582	C8 GUA	1507	183.953	113.386	-35.794	1.00	75.49	Al
ATOM	51530	C6 URI	1505	179.983	111.225	-37.495	1.00	37.32	Al6s	ATOM	51583	C2' GUA	1507	185.578	114.634	-33.032	1.00	48.35	Al
ATOM	51531	C2 URI	1505	181.630	110.759	-35.804	1.00	37.32	Al6s	ATOM	51584	O2' GUA	1507	186.456	114.438	-31.940	1.00	48.35	Al
ATOM	51532	O2 URI	1505	182.025	110.740	-34.651	1.00	37.32	Al6s	ATOM	51585	C3' GUA	1507	184.189	115.066	-32.582	1.00	48.35	Al
ATOM	51533	N3 URI	1505	182.381	110.253	-36.830	1.00	37.32	Al6s	ATOM	51586	O3' GUA	1507	184.298	115.954	-31.453	1.00	48.35	Al
ATOM	51534	C4 URI	1505	182.034	110.189	-38.161	1.00	37.32	Al6s	ATOM	51587	P ADE	1508	184.673	117.508	-31.679	1.00	85.83	Al

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ATOM	51588	O1P ADE	1508	183.831	118.294	-30.742	1.00	80.30	Al6S	ATOM	51641	N3 CYT	1510	197.031	126.201	-35.953	1.00	193.44	Al
ATOM	51589	O2P ADE	1508	184.643	117.813	-33.141	1.00	80.30	Al6S	ATOM	51642	C4 CYT	1510	196.742	126.610	-34.714	1.00	193.44	Al
ATOM	51590	O5' ADE	1508	186.185	117.635	-31.187	1.00	85.83	Al6S	ATOM	51643	N4 CYT	1510	197.692	126.507	-33.791	1.00	193.44	Al
ATOM	51591	C5' ADE	1508	186.547	117.577	-29.783	1.00	85.83	Al6S	ATOM	51644	C5 CYT	1510	195.466	127.140	-34.370	1.00	193.44	Al
ATOM	51592	C4' ADE	1508	188.060	117.526	-29.638	1.00	85.83	Al6S	ATOM	51645	C2' CYT	1510	193.640	125.558	-38.495	1.00	122.57	Al
ATOM	51593	O4' ADE	1508	188.544	116.311	-30.280	1.00	85.83	Al6S	ATOM	51646	C2' CYT	1510	193.257	125.871	-39.821	1.00	122.57	Al
ATOM	51594	C1' ADE	1508	189.709	116.592	-31.049	1.00	85.83	Al6S	ATOM	51647	C3' CYT	1510	192.592	124.772	-37.715	1.00	122.57	Al
ATOM	51595	N9 ADE	1508	189.349	116.492	-32.470	1.00	80.30	Al6S	ATOM	51648	O3' CYT	1510	191.910	123.812	-38.528	1.00	122.57	Al
ATOM	51596	C4 ADE	1508	190.203	116.340	-33.537	1.00	80.30	Al6S	ATOM	51649	P ADE	1511	192.584	122.377	-38.804	0.00	98.11	Al
ATOM	51597	N3 ADE	1508	191.545	116.234	-33.503	1.00	80.30	Al6S	ATOM	51650	O1P ADE	1511	191.587	121.544	-39.525	0.00	98.11	Al
ATOM	51598	C2 ADE	1508	192.035	116.127	-34.734	1.00	80.30	Al6S	ATOM	51651	O2P ADE	1511	193.169	121.885	-37.531	0.00	98.11	Al
ATOM	51599	N1 ADE	1508	191.382	116.113	-35.912	1.00	80.30	Al6S	ATOM	51652	O5' ADE	1511	193.790	122.690	-39.798	0.00	98.11	Al
ATOM	51600	C6 ADE	1508	190.031	116.221	-35.908	1.00	80.30	Al6S	ATOM	51653	C5' ADE	1511	193.556	123.256	-41.103	0.00	98.11	Al
ATOM	51601	N6 ADE	1508	189.373	116.210	-37.076	1.00	80.30	Al6S	ATOM	51654	C4' ADE	1511	194.871	123.512	-41.805	0.00	98.11	Al
ATOM	51602	C5 ADE	1508	189.394	116.342	-34.667	1.00	80.30	Al6S	ATOM	51655	O4' ADE	1511	195.677	124.417	-41.006	0.00	98.11	Al
ATOM	51603	N7 ADE	1508	188.058	116.480	-34.321	1.00	80.30	Al6S	ATOM	51656	C1' ADE	1511	197.050	124.084	-41.146	0.00	98.11	Al
ATOM	51604	C8 ADE	1508	188.083	116.561	-33.017	1.00	80.30	Al6S	ATOM	51657	N9 ADE	1511	197.591	123.797	-39.816	0.00	98.11	Al
ATOM	51605	C2' ADE	1508	190.148	118.013	-30.695	1.00	85.83	Al6S	ATOM	51658	C4 ADE	1511	198.723	124.346	-39.260	0.00	98.11	Al
ATOM	51606	O2' ADE	1508	191.083	117.990	-29.635	1.00	85.83	Al6S	ATOM	51659	N3 ADE	1511	199.553	125.246	-39.817	0.00	98.11	Al
ATOM	51607	C3' ADE	1508	188.815	118.657	-30.332	1.00	85.83	Al6S	ATOM	51660	C2 ADE	1511	200.545	125.549	-39.982	0.00	98.11	Al
ATOM	51608	O3' ADE	1508	188.959	119.836	-29.543	1.00	85.83	Al6S	ATOM	51661	N1 ADE	1511	200.785	125.089	-37.748	0.00	98.11	Al
ATOM	51609	P URI	1509	188.953	121.272	-30.267	1.00	86.27	Al6S	ATOM	51662	C6 ADE	1511	199.932	124.186	-37.218	0.00	98.11	Al
ATOM	51610	O1P URI	1509	189.360	122.302	-29.278	1.00	96.01	Al6S	ATOM	51663	N6 ADE	1511	200.171	123.727	-35.987	0.00	98.11	Al
ATOM	51611	O2P URI	1509	187.655	121.411	-30.972	1.00	96.01	Al6S	ATOM	51664	C5 ADE	1511	198.837	123.782	-38.002	0.00	98.11	Al
ATOM	51612	O5' URI	1509	190.096	121.143	-31.372	1.00	86.27	Al6S	ATOM	51665	N7 ADE	1511	197.798	122.893	-37.766	0.00	98.11	Al
ATOM	51613	C5' URI	1509	191.497	121.234	-31.028	1.00	86.27	Al6S	ATOM	51666	C8 ADE	1511	197.089	122.937	-38.868	0.00	98.11	Al
ATOM	51614	C4' URI	1509	192.326	121.452	-32.278	1.00	86.27	Al6S	ATOM	51667	C2' ADE	1511	197.153	122.903	-42.117	0.00	98.11	Al
ATOM	51615	O4' URI	1509	192.182	120.285	-33.133	1.00	86.27	Al6S	ATOM	51668	O2' ADE	1511	197.428	123.400	-43.411	0.00	98.11	Al
ATOM	51616	C1' URI	1509	192.103	120.687	-34.496	1.00	86.27	Al6S	ATOM	51669	C3' ADE	1511	195.761	122.297	-42.001	0.00	98.11	Al
ATOM	51617	N1 URI	1509	190.754	120.359	-34.995	1.00	96.01	Al6S	ATOM	51670	O3' ADE	1511	195.330	121.305	-42.941	0.00	98.11	Al
ATOM	51618	C6 URI	1509	189.663	120.388	-34.148	1.00	96.01	Al6S	ATOM	51671	CO+3 CO3	1	225.510	97.310	-73.117	0.85	49.93	UIC
ATOM	51619	C2 URI	1509	190.601	120.030	-36.337	1.00	96.01	Al6S	ATOM	51672	CO+3 CO3	2	124.293	22.508	5.126	0.82	49.93	UIC
ATOM	51620	O2 URI	1509	191.522	119.985	-37.130	1.00	96.01	Al6S	ATOM	51673	CO+3 CO3	3	116.658	63.261	-34.726	0.84	49.93	UIC
ATOM	51621	N3 URI	1509	189.314	119.756	-36.714	1.00	96.01	Al6S	ATOM	51674	CO+3 CO3	4	101.739	21.889	30.300	0.82	49.93	UIC
ATOM	51622	C4 URI	1509	188.189	119.775	-35.914	1.00	96.01	Al6S	ATOM	51675	CO+3 CO3	5	142.393	76.209	-24.241	0.52	49.93	UIC
ATOM	51623	O4 URI	1509	187.094	119.508	-36.406	1.00	96.01	Al6S	ATOM	51676	CO+3 CO3	6	170.642	111.397	-46.430	0.71	49.93	UIC
ATOM	51624	C5 URI	1509	188.426	120.119	-34.551	1.00	96.01	Al6S	ATOM	51677	CO+3 CO3	7	238.715	122.791	-17.178	0.77	49.93	UIC
ATOM	51625	C2' URI	1509	192.365	122.195	-34.543	1.00	86.27	Al6S	ATOM	51678	CO+3 CO3	8	226.622	164.051	4.676	0.58	49.93	UIC
ATOM	51626	O2' URI	1509	193.737	122.450	-34.780	1.00	86.27	Al6S	ATOM	51679	CO+3 CO3	9	162.440	93.498	-40.926	0.63	49.93	UIC
ATOM	51627	C3' URI	1509	191.901	122.627	-33.157	1.00	86.27	Al6S	ATOM	51680	CO+3 CO3	10	190.702	87.401	19.758	0.83	49.93	UIC
ATOM	51628	O3' URI	1509	192.439	123.888	-32.759	1.00	86.27	Al6S	ATOM	51681	CO+3 CO3	11	199.876	97.711	-48.333	0.98	49.93	UIC
ATOM	51629	P CYT	1510	191.749	125.245	-33.283	1.00	122.57	Al6S	ATOM	51682	CO+3 CO3	12	160.997	108.087	-9.663	0.70	49.93	UIC
ATOM	51630	O1P CYT	1510	190.284	125.124	-33.071	1.00	193.44	Al6S	ATOM	51683	CO+3 CO3	13	169.957	119.803	-47.684	0.50	49.93	UIC
ATOM	51631	O2P CYT	1510	192.484	126.388	-32.685	1.00	193.44	Al6S	ATOM	51684	CO+3 CO3	14	106.932	23.491	9.227	0.50	49.93	UIC
ATOM	51632	O5' CYT	1510	192.046	125.227	-34.851	1.00	122.57	Al6S	ATOM	51685	CO+3 CO3	15	148.953	105.031	-46.519	0.95	49.93	UIC
ATOM	51633	C5' CYT	1510	191.025	125.550	-35.831	1.00	122.57	Al6S	ATOM	51686	CO+3 CO3	16	135.164	91.969	52.164	0.45	49.93	UIC
ATOM	51634	C4' CYT	1510	191.670	125.862	-37.171	1.00	122.57	Al6S	ATOM	51687	CO+3 CO3	17	211.888	132.225	2.887	0.42	49.93	UIC
ATOM	51635	O4' CYT	1510	192.514	127.035	-37.003	1.00	122.57	Al6S	ATOM	51688	CO+3 CO3	18	133.488	74.509	0.947	0.59	49.93	UIC
ATOM	51636	C1' CYT	1510	193.760	126.836	-37.655	1.00	122.57	Al6S	ATOM	51689	CO+3 CO3	19	192.350	140.765	-18.918	0.59	49.93	UIC
ATOM	51637	N1 CYT	1510	194.812	126.779	-36.608	1.00	193.44	Al6S	ATOM	51690	CO+3 CO3	20	123.661	66.219	-7.666	0.57	49.93	UIC
ATOM	51638	C6 CYT	1510	194.542	127.206	-35.335	1.00	193.44	Al6S	ATOM	51691	CO+3 CO3	21	120.330	112.633	-36.904	0.35	49.93	UIC
ATOM	51639	C2 CYT	1510	196.094	126.272	-36.926	1.00	193.44	Al6S	ATOM	51692	CO+3 CO3	22	149.379	118.429	-65.156	0.53	49.93	UIC
ATOM	51640	O2 CYT	1510	196.338	125.902	-38.089	1.00	193.44	Al6S	ATOM	51693	CO+3 CO3	23	211.023	116.573	29.316	0.69	49.93	UIC

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ATOM	51694	CO+3	CO3	24	213.517	115.808	66.962	0.40	49.93	UION	ATOM	51747	CO+3	CO3	77	212.254	109.022	17.689	0.47	49.93	UI
ATOM	51695	CO+3	CO3	25	122.471	61.617	-28.294	0.34	49.93	UION	ATOM	51748	CO+3	CO3	78	237.743	131.515	8.034	0.31	49.93	UI
ATOM	51696	CO+3	CO3	26	127.079	55.781	19.881	0.54	49.93	UION	ATOM	51749	CO+3	CO3	79	232.658	139.365	-2.834	0.63	49.93	UI
ATOM	51697	CO+3	CO3	27	164.020	107.052	-4.770	0.63	49.93	UION	ATOM	51750	CO+3	CO3	80	121.000	91.404	9.711	0.41	49.93	UI
ATOM	51698	CO+3	CO3	28	97.953	71.652	25.123	0.62	49.93	UION	ATOM	51751	CO+3	CO3	81	166.656	131.832	-7.282	0.65	49.93	UI
ATOM	51699	CO+3	CO3	29	167.176	113.973	-64.548	0.44	49.93	UION	ATOM	51752	CO+3	CO3	82	124.918	96.504	26.317	0.62	49.93	UI
ATOM	51700	CO+3	CO3	30	162.522	93.168	-29.961	0.65	49.93	UION	ATOM	51753	CO+3	CO3	83	116.653	97.072	-13.983	0.41	49.93	UI
ATOM	51701	CO+3	CO3	31	140.416	71.719	5.810	0.74	49.93	UION	ATOM	51754	CO+3	CO3	84	114.665	92.980	-3.199	0.26	49.93	UI
ATOM	51702	CO+3	CO3	32	158.053	113.747	-65.044	0.40	49.93	UION	ATOM	51755	CO+3	CO3	85	208.971	102.629	-75.378	0.47	49.93	UI
ATOM	51703	CO+3	CO3	33	200.483	161.817	-18.979	0.47	49.93	UION	ATOM	51756	CO+3	CO3	86	130.275	111.795	-37.162	0.57	49.93	UI
ATOM	51704	CO+3	CO3	34	171.470	111.773	-2.545	0.56	49.93	UION	ATOM	51757	CO+3	CO3	87	126.397	118.747	-56.803	0.44	49.93	UI
ATOM	51705	CO+3	CO3	35	138.756	98.837	3.692	0.34	49.93	UION	ATOM	51758	CO+3	CO3	88	235.783	113.754	-7.199	0.71	49.93	UI
ATOM	51706	CO+3	CO3	36	166.809	100.208	-33.993	0.57	49.93	UION	ATOM	51759	CO+3	CO3	89	237.902	126.033	-6.589	0.35	49.93	UI
ATOM	51707	CO+3	CO3	37	139.220	99.683	-43.371	0.59	49.93	UION	ATOM	51760	CO+3	CO3	90	209.515	110.511	10.517	0.71	49.93	UI
ATOM	51708	CO+3	CO3	38	136.950	41.939	-30.202	0.36	49.93	UION	ATOM	51761	CO+3	CO3	91	230.983	110.264	25.349	0.51	49.93	UI
ATOM	51709	CO+3	CO3	39	161.724	114.972	-48.467	0.34	49.93	UION	ATOM	51762	CO+3	CO3	92	233.335	121.967	26.400	0.60	49.93	UI
ATOM	51710	CO+3	CO3	40	195.457	81.572	-33.328	0.38	49.93	UION	ATOM	51763	CO+3	CO3	93	214.391	126.842	82.200	0.23	49.93	UI
ATOM	51711	CO+3	CO3	41	237.660	129.574	17.377	0.49	49.93	UION	ATOM	51764	CO+3	CO3	94	243.857	105.664	47.628	0.36	49.93	UI
ATOM	51712	CO+3	CO3	42	114.130	64.770	18.137	0.65	49.93	UION	ATOM	51765	CO+3	CO3	95	202.316	115.973	10.199	0.72	49.93	UI
ATOM	51713	CO+3	CO3	43	231.424	124.338	-20.434	0.47	49.93	UION	ATOM	51766	CO+3	CO3	96	203.714	111.648	7.790	0.63	49.93	UI
ATOM	51714	CO+3	CO3	44	145.909	92.718	56.306	0.41	49.93	UION	ATOM	51767	CO+3	CO3	97	252.927	173.304	7.891	0.30	49.93	UI
ATOM	51715	CO+3	CO3	45	133.783	124.030	-57.968	0.61	49.93	UION	ATOM	51768	CO+3	CO3	98	260.086	139.387	-11.160	0.24	49.93	UI
ATOM	51716	CO+3	CO3	46	217.411	103.508	-78.485	0.42	49.93	UION	ATOM	51769	CO+3	CO3	99	162.890	53.335	-23.966	0.31	49.93	UI
ATOM	51717	CO+3	CO3	47	132.384	102.678	-38.661	0.57	49.93	UION	ATOM	51770	CO+3	CO3	100	112.563	36.260	-26.742	0.37	49.93	UI
ATOM	51718	CO+3	CO3	48	171.010	94.399	-49.834	0.86	49.93	UION	ATOM	51771	CO+3	CO3	101	120.953	45.444	-20.904	0.33	49.93	UI
ATOM	51719	CO+3	CO3	49	177.906	94.653	-53.133	0.78	49.93	UION	ATOM	51772	CO+3	CO3	102	128.509	40.125	-21.897	0.35	49.93	UI
ATOM	51720	CO+3	CO3	50	180.138	86.866	-56.929	0.69	49.93	UION	ATOM	51773	CO+3	CO3	103	141.210	69.206	-24.818	0.40	49.93	UI
ATOM	51721	CO+3	CO3	51	183.665	85.642	-60.731	0.38	49.93	UION	ATOM	51774	CO+3	CO3	104	171.587	67.035	-14.550	0.27	49.93	UI
ATOM	51722	CO+3	CO3	52	193.526	94.088	-70.396	0.36	49.93	UION	ATOM	51775	CO+3	CO3	107	177.941	106.398	-12.763	0.60	49.93	UI
ATOM	51723	CO+3	CO3	53	198.868	98.031	-54.675	0.53	49.93	UION	ATOM	51776	CO+3	CO3	108	98.701	25.921	-0.995	0.18	49.93	UI
ATOM	51724	CO+3	CO3	54	162.597	105.910	-38.822	0.81	49.93	UION	ATOM	51777	CO+3	CO3	109	86.428	44.664	-21.125	0.20	49.93	UI
ATOM	51725	CO+3	CO3	55	159.942	127.717	-45.150	0.65	49.93	UION	ATOM	51778	CO+3	CO3	110	129.990	57.474	-41.900	0.10	49.93	UI
ATOM	51726	CO+3	CO3	56	158.981	63.796	11.414	0.52	49.93	UION	ATOM	51779	CO+3	CO3	111	138.185	69.411	-43.171	0.28	49.93	UI
ATOM	51727	CO+3	CO3	57	111.447	63.057	25.276	0.71	49.93	UION	ATOM	51780	CO+3	CO3	112	138.606	95.111	-3.885	0.35	49.93	UI
ATOM	51728	CO+3	CO3	58	89.147	61.978	25.967	0.58	49.93	UION	ATOM	51781	CO+3	CO3	113	147.694	102.805	-3.972	0.54	49.93	UI
ATOM	51729	CO+3	CO3	59	166.821	109.189	17.060	0.71	49.93	UION	ATOM	51782	CO+3	CO3	114	114.212	51.772	-12.537	0.64	49.93	UI
ATOM	51730	CO+3	CO3	60	150.610	99.717	-8.807	0.69	49.93	UION	ATOM	51783	CO+3	CO3	115	138.573	49.038	9.987	0.50	49.93	UI
ATOM	51731	CO+3	CO3	61	179.874	108.850	-2.382	0.61	49.93	UION	ATOM	51784	CO+3	CO3	116	155.253	93.282	46.388	0.29	49.93	UI
ATOM	51732	CO+3	CO3	62	173.932	104.934	-25.312	0.57	49.93	UION	ATOM	51785	CO+3	CO3	117	186.908	101.314	22.601	0.54	49.93	UI
ATOM	51733	CO+3	CO3	63	159.181	105.991	-16.478	0.78	49.93	UION	ATOM	51786	CO+3	CO3	118	168.915	104.913	-25.911	0.75	49.93	UI
ATOM	51734	CO+3	CO3	64	144.235	68.008	3.206	0.41	49.93	UION	ATOM	51787	CO+3	CO3	119	125.400	110.966	-46.823	0.56	49.93	UI
ATOM	51735	CO+3	CO3	65	118.148	102.392	-26.542	0.65	49.93	UION	ATOM	51788	CO+3	CO3	120	112.151	109.944	-32.074	0.45	49.93	UI
ATOM	51736	CO+3	CO3	66	158.782	135.761	-59.522	0.39	49.93	UION	ATOM	51789	CO+3	CO3	121	122.564	90.091	2.035	0.55	49.93	UI
ATOM	51737	CO+3	CO3	67	152.241	118.432	-35.155	0.33	49.93	UION	ATOM	51790	CO+3	CO3	122	218.778	95.098	-58.860	0.29	49.93	UI
ATOM	51738	CO+3	CO3	68	165.824	127.340	-32.003	0.86	49.93	UION	ATOM	51791	CO+3	CO3	123	97.334	38.538	-13.633	0.24	49.93	UI
ATOM	51739	CO+3	CO3	69	160.661	113.746	-25.879	0.33	49.93	UION	ATOM	51792	CO+3	CO3	124	168.160	92.079	-20.348	0.29	49.93	UI
ATOM	51740	CO+3	CO3	70	157.559	116.176	-16.180	0.40	49.93	UION	ATOM	51793	CO+3	CO3	125	168.019	78.251	-33.240	0.44	49.93	UI
ATOM	51741	CO+3	CO3	71	160.774	131.683	-23.075	0.49	49.93	UION	ATOM	51794	CO+3	CO3	126	167.213	74.605	-43.369	0.32	49.93	UI
ATOM	51742	CO+3	CO3	72	113.979	99.096	-21.219	0.36	49.93	UION	ATOM	51795	CO+3	CO3	127	214.687	56.842	0.974	0.46	49.93	UI
ATOM	51743	CO+3	CO3	73	168.165	90.638	-12.496	0.56	49.93	UION	ATOM	51796	CO+3	CO3	128	214.226	128.278	-1.556	0.23	49.93	UI
ATOM	51744	CO+3	CO3	74	204.860	123.730	-19.541	0.62	49.93	UION	ATOM	51797	CO+3	CO3	129	205.227	139.919	-7.094	0.34	49.93	UI
ATOM	51745	CO+3	CO3	75	222.570	126.803	-21.385	0.75	49.93	UION	ATOM	51798	CO+3	CO3	130	204.501	143.900	0.062	0.57	49.93	UI
ATOM	51746	CO+3	CO3	76	217.164	136.234	-12.409	0.62	49.93	UION	ATOM	51799	CO+3	CO3	131	165.233	126.450	-18.495	0.40	49.93	UI

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ATOM	51800	CO+3	CO3	132	170.992	125.033	-16.533	0.60	49.93	UION	51853	CO+3	CO3	185	193.195	126.163	-16.330	0.09	49.93	U
ATOM	51801	CO+3	CO3	133	197.383	136.804	-14.655	0.68	49.93	UION	51854	CO+3	CO3	186	255.175	124.260	-4.375	0.60	49.93	U
ATOM	51802	CO+3	CO3	134	194.608	144.006	-5.548	0.51	49.93	UION	51855	CO+3	CO3	187	188.033	109.248	-29.700	0.44	49.93	U
ATOM	51803	CO+3	CO3	135	183.984	133.453	-16.584	0.38	49.93	UION	51856	CO+3	CO3	188	186.076	96.260	-29.703	0.31	49.93	U
ATOM	51804	CO+3	CO3	136	144.102	73.389	-21.540	0.43	49.93	UION	END									
ATOM	51805	CO+3	CO3	137	228.753	111.701	13.443	0.63	49.93	UION										
ATOM	51806	CO+3	CO3	138	263.987	135.499	17.651	0.37	49.93	UION										
ATOM	51807	CO+3	CO3	139	125.858	69.034	-17.434	0.32	49.93	UION										
ATOM	51808	CO+3	CO3	140	89.920	47.873	8.791	0.29	49.93	UION										
ATOM	51809	CO+3	CO3	141	109.249	74.451	-15.908	0.34	49.93	UION										
ATOM	51810	CO+3	CO3	142	173.414	89.399	-34.988	0.52	49.93	UION										
ATOM	51811	CO+3	CO3	143	223.488	108.774	0.543	0.41	49.93	UION										
ATOM	51812	CO+3	CO3	144	222.785	108.033	10.857	0.40	49.93	UION										
ATOM	51813	CO+3	CO3	145	187.884	104.374	13.727	0.37	49.93	UION										
ATOM	51814	CO+3	CO3	146	193.482	122.613	-19.821	0.55	49.93	UION										
ATOM	51815	CO+3	CO3	147	203.425	105.707	-30.464	0.51	49.93	UION										
ATOM	51816	CO+3	CO3	148	187.885	125.187	-17.581	0.34	49.93	UION										
ATOM	51817	CO+3	CO3	149	186.374	103.747	-43.065	0.63	49.93	UION										
ATOM	51818	CO+3	CO3	150	188.686	108.241	30.251	0.23	49.93	UION										
ATOM	51819	CO+3	CO3	151	165.186	88.373	4.568	0.29	49.93	UION										
ATOM	51820	CO+3	CO3	152	196.074	103.013	-26.824	0.77	49.93	UION										
ATOM	51821	CO+3	CO3	153	112.670	41.286	13.572	0.53	49.93	UION										
ATOM	51822	CO+3	CO3	154	139.007	77.254	23.771	0.56	49.93	UION										
ATOM	51823	CO+3	CO3	155	157.997	76.310	26.748	0.49	49.93	UION										
ATOM	51824	CO+3	CO3	156	148.803	104.217	4.779	0.32	49.93	UION										
ATOM	51825	CO+3	CO3	157	177.311	98.154	22.180	0.39	49.93	UION										
ATOM	51826	CO+3	CO3	158	96.097	63.765	-1.802	0.46	49.93	UION										
ATOM	51827	CO+3	CO3	159	95.607	32.867	-0.182	0.46	49.93	UION										
ATOM	51828	CO+3	CO3	160	112.048	24.749	-3.434	0.53	49.93	UION										
ATOM	51829	CO+3	CO3	161	91.969	45.413	-15.082	0.56	49.93	UION										
ATOM	51830	CO+3	CO3	162	84.370	54.967	-18.909	0.18	49.93	UION										
ATOM	51831	CO+3	CO3	163	89.554	59.974	-26.225	0.35	49.93	UION										
ATOM	51832	CO+3	CO3	164	94.937	66.260	-28.035	0.32	49.93	UION										
ATOM	51833	CO+3	CO3	165	98.691	71.799	-31.553	0.26	49.93	UION										
ATOM	51834	CO+3	CO3	166	172.185	93.311	17.557	0.56	49.93	UION										
ATOM	51835	CO+3	CO3	167	144.258	70.486	-7.629	0.73	49.93	UION										
ATOM	51836	CO+3	CO3	168	136.932	88.530	-6.094	0.46	49.93	UION										
ATOM	51837	CO+3	CO3	169	134.725	54.534	5.418	0.72	49.93	UION										
ATOM	51838	CO+3	CO3	170	118.526	64.140	20.211	0.43	49.93	UION										
ATOM	51839	CO+3	CO3	171	153.796	102.963	45.709	0.55	49.93	UION										
ATOM	51840	CO+3	CO3	172	171.745	99.004	14.955	0.45	49.93	UION										
ATOM	51841	CO+3	CO3	173	126.226	66.159	1.399	0.42	49.93	UION										
ATOM	51842	CO+3	CO3	174	205.054	104.714	-67.604	0.30	49.93	UION										
ATOM	51843	CO+3	CO3	175	201.977	108.050	-74.278	0.37	49.93	UION										
ATOM	51844	CO+3	CO3	176	190.539	86.390	-66.144	0.44	49.93	UION										
ATOM	51845	CO+3	CO3	177	172.768	91.757	-57.334	0.53	49.93	UION										
ATOM	51846	CO+3	CO3	178	196.668	91.530	-40.732	0.70	49.93	UION										
ATOM	51847	CO+3	CO3	179	178.446	112.017	-18.622	0.43	49.93	UION										
ATOM	51848	CO+3	CO3	180	106.761	72.430	-9.156	0.48	49.93	UION										
ATOM	51849	CO+3	CO3	181	222.609	98.357	11.653	0.44	49.93	UION										
ATOM	51850	CO+3	CO3	182	205.808	110.455	33.297	0.27	49.93	UION										
ATOM	51851	CO+3	CO3	183	202.758	119.704	13.280	0.49	49.93	UION										
ATOM	51852	CO+3	CO3	184	190.747	130.245	-13.625	0.30	49.93	UION										

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TABLE 2 - ANTIBIOTICS COORDINATES

REMARK coordinates from individual occupancy refinement
 REMARK refinement resolution: 99 - 3.0 Å
 REMARK starting $r = 0.2442$ free $r = 0.2822$
 REMARK final $r = 0.2442$ free $r = 0.2822$
 REMARK wa = 3.4035
 REMARK target = mlf steps = 30
 REMARK sg = P4(1)2(1)2 a = 401.375 b = 401.375 c = 175.887 alpha = 90 beta = 90 gamma = 90
 REMARK parameter file 1 : CNS_TOPPAR:protein_rep.param
 REMARK parameter file 2 : CNS_TOPPAR:dna_rna_rep.param
 REMARK parameter file 3 : CNS_TOPPAR:ion.param
 REMARK molecular structure file: generate.mtf
 REMARK input coordinates: b2.pdb
 REMARK reflection file = cns_refine.hkl
 REMARK ncs = none
 REMARK B-correction resolution: 6.0 - 3.0
 REMARK initial B-factor correction applied to fobs :
 REMARK B1 = 5.527 B2 = 5.527 B3 = -11.054
 REMARK B12 = 0.000 B13 = 0.000 B23 = 0.000
 REMARK B-factor correction applied to coordinate array B: 0.659
 REMARK bulk solvent: density level = 0.393539 e/Å³, B-factor = 122.339 Å²
 REMARK reflections with |fobs|/|sigma_F| < 0.0 rejected
 REMARK reflections with |fobs| > 10000 * rms(fobs) rejected
 REMARK theoretical total number of refl. in resol. range: 283454 (100.0 %)
 REMARK number of unobserved reflections (no entry or |f|=0): 24238 (8.6 %)
 REMARK number of reflections rejected: 0 (0.0 %)
 REMARK total number of reflections used: 259216 (91.4 %)
 REMARK number of reflections in working set: 246012 (86.8 %)
 REMARK number of reflections in test set: 13204 (4.7 %)
 REMARK CRYST1 401.375 401.375 175.887 90.00 90.00 90.00 P 41 21 2
 REMARK FILENAME = /ramakgpro/ribo/cnsrefine/23Jun00/bo/ocmetals2.pdb"
 REMARK DATE: 24-Jun-00 06:59:52 created by user: root
 REMARK VERSION: 1.0

ATOM	19	CB	LYS	3	215.440	117.435	35.409	1.00109.78	NS
ATOM	20	CG	LYS	3	215.235	118.476	36.488	1.00109.78	NS
ATOM	21	CD	LYS	3	214.015	118.120	37.327	1.00109.78	NS
ATOM	22	CE	LYS	3	213.649	119.229	38.302	1.00109.78	NS
ATOM	23	NZ	LYS	3	212.468	118.871	39.150	1.00109.78	NS
ATOM	24	C	LYS	3	217.915	117.303	35.088	1.0072.53	NS
ATOM	25	O	LYS	3	218.760	118.140	35.416	1.0072.53	NS
ATOM	26	N	ALA	4	218.084	115.992	35.204	1.0073.22	NS
ATOM	27	CA	ALA	4	219.269	115.385	35.785	1.0073.22	NS
ATOM	28	CB	ALA	4	219.273	113.895	35.486	1.0096.23	NS
ATOM	29	C	ALA	4	220.593	115.997	35.347	1.0073.22	NS
ATOM	30	O	ALA	4	221.456	116.238	36.192	1.0073.22	NS
ATOM	31	N	LEU	5	220.771	116.236	34.046	1.0084.81	NS
ATOM	32	CA	LEU	5	222.032	116.804	33.573	1.0084.81	NS
ATOM	33	CB	LEU	5	222.457	116.215	32.213	1.0079.33	NS
ATOM	34	CG	LEU	5	221.704	116.384	30.891	1.0079.33	NS
ATOM	35	CD	LEU	5	221.474	117.845	30.563	1.0079.33	NS
ATOM	36	CD2	LEU	5	222.523	115.725	29.804	1.0079.33	NS
ATOM	37	C	LEU	5	222.074	118.323	33.526	1.0084.81	NS
ATOM	38	O	LEU	5	222.961	118.911	32.906	1.0084.81	NS
ATOM	39	N	ILE	6	221.102	118.961	34.165	1.0088.34	NS
ATOM	40	CA	ILE	6	221.114	120.412	34.255	1.0088.34	NS
ATOM	41	CB	ILE	6	219.716	120.993	34.513	1.0080.48	NS
ATOM	42	CG2	ILE	6	219.809	122.511	34.597	1.0080.48	NS
ATOM	43	CG1	ILE	6	218.761	120.611	33.378	1.0080.48	NS
ATOM	44	CD1	ILE	6	218.898	121.470	32.143	1.0080.48	NS
ATOM	45	C	ILE	6	221.973	120.558	35.514	1.0088.34	NS
ATOM	46	O	ILE	6	221.601	121.214	36.491	1.0088.34	NS
ATOM	47	N	GLU	7	223.112	119.869	35.470	1.00138.63	NS
ATOM	48	CA	GLU	7	224.100	119.829	36.542	1.00138.63	NS
ATOM	49	CB	GLU	7	224.722	118.434	36.627	1.00104.71	NS
ATOM	50	CG	GLU	7	225.674	118.143	35.463	1.00104.71	NS
ATOM	51	CD	GLU	7	226.153	116.699	35.410	1.00104.71	NS
ATOM	52	OE1	GLU	7	225.302	115.790	35.348	1.00104.71	NS
ATOM	53	OE2	GLU	7	227.382	116.469	35.420	1.00104.71	NS
ATOM	54	C	GLU	7	225.199	120.824	36.205	1.00138.63	NS
ATOM	55	O	GLU	7	226.238	120.850	36.856	1.00138.63	NS
ATOM	56	N	LYS	8	224.979	121.620	35.166	1.00124.96	NS
ATOM	57	CA	LYS	8	225.963	122.611	34.764	1.00124.96	NS
ATOM	58	CB	LYS	8	225.371	123.548	33.709	1.00120.52	NS
ATOM	59	CG	LYS	8	226.405	124.322	33.897	1.00120.52	NS
ATOM	60	CD	LYS	8	227.266	125.237	33.758	1.00120.52	NS
ATOM	61	CE	LYS	8	228.383	125.856	32.944	1.00120.52	NS
ATOM	62	NZ	LYS	8	227.834	126.668	31.830	1.00120.52	NS
ATOM	63	C	LYS	8	226.323	123.406	36.012	1.00124.96	NS
ATOM	64	O	LYS	8	227.440	123.910	36.150	1.00124.96	NS
ATOM	65	N	ALA	9	225.366	123.492	36.928	1.00120.73	NS
ATOM	66	CA	ALA	9	225.548	124.230	38.168	1.00120.73	NS
ATOM	67	CB	ALA	9	224.191	124.541	38.778	1.0090.23	NS
ATOM	68	C	ALA	9	226.433	123.528	39.198	1.00120.73	NS
ATOM	69	O	ALA	9	226.962	124.179	40.101	1.00120.73	NS
ATOM	70	N	LYS	10	226.598	122.212	39.067	1.00152.57	NS
ATOM	71	CA	LYS	10	227.419	121.449	40.012	1.00152.57	NS

ATOM	72	CB	LVS	10	227.482	119.969	39.615	1.00136.55	NS14	ATOM	125	CA	LVS	16	237.241	123.470	34.999	1.0070.49	NS14
ATOM	73	CG	LVS	10	226.161	119.233	39.784	1.00136.55	NS14	ATOM	126	CB	LVS	16	238.105	124.719	35.209	1.0086.81	NS14
ATOM	74	CD	LVS	10	226.337	117.913	40.515	1.00136.55	NS14	ATOM	127	CG	LVS	16	238.383	125.552	33.965	1.0086.81	NS14
ATOM	75	CE	LVS	10	224.997	117.209	40.661	1.00136.55	NS14	ATOM	128	CD	LVS	16	237.265	126.537	33.676	1.0086.81	NS14
ATOM	76	NZ	LVS	10	225.101	115.910	41.383	1.00136.55	NS14	ATOM	129	CE	LVS	16	237.158	127.587	34.769	1.0086.81	NS14
ATOM	77	C	LVS	10	228.832	121.998	40.144	1.00152.57	NS14	ATOM	130	NZ	LVS	16	236.152	128.636	34.441	1.0086.81	NS14
ATOM	78	O	LVS	10	229.681	121.415	40.823	1.00152.57	NS14	ATOM	131	C	LVS	16	237.017	123.221	33.509	1.0070.49	NS14
ATOM	79	N	ARG	11	229.076	123.123	39.485	1.00100.65	NS14	ATOM	132	O	LVS	16	236.133	123.820	32.890	1.0070.49	NS14
ATOM	80	CA	ARG	11	230.367	123.783	39.535	1.00100.65	NS14	ATOM	133	N	VAL	17	237.815	122.330	32.935	1.00110.36	NS14
ATOM	81	CB	ARG	11	230.514	124.541	40.858	1.00163.88	NS14	ATOM	134	CA	VAL	17	237.702	122.031	31.518	1.00110.36	NS14
ATOM	82	CG	ARG	11	230.272	126.031	40.716	1.00163.88	NS14	ATOM	135	CB	VAL	17	238.842	121.076	31.070	1.0065.17	NS14
ATOM	83	CD	ARG	11	231.362	126.674	39.859	1.00163.88	NS14	ATOM	136	CG1	VAL	17	238.544	119.651	31.512	1.0065.17	NS14
ATOM	84	NE	ARG	11	230.847	127.790	39.073	1.00163.88	NS14	ATOM	137	CG2	VAL	17	239.047	121.176	29.562	1.0065.17	NS14
ATOM	85	C2	ARG	11	230.014	127.654	38.045	1.00163.88	NS14	ATOM	138	C	VAL	17	236.323	121.456	31.158	1.00110.36	NS14
ATOM	86	NH1	ARG	11	229.605	126.446	37.675	1.00163.88	NS14	ATOM	139	O	VAL	17	235.865	121.620	30.031	1.00110.36	NS14
ATOM	87	NH2	ARG	11	229.580	128.724	37.393	1.00163.88	NS14	ATOM	140	N	ARG	18	234.319	120.241	31.876	1.0074.81	NS14
ATOM	88	C	ARG	11	231.595	122.911	39.315	1.00100.65	NS14	ATOM	141	CA	ARG	18	234.033	119.034	32.778	1.0048.60	NS14
ATOM	89	O	ARG	11	231.976	122.097	40.165	1.00100.65	NS14	ATOM	142	CB	ARG	18	235.117	117.971	32.801	1.0048.60	NS14
ATOM	90	N	THR	12	232.198	123.102	38.145	1.0089.90	NS14	ATOM	143	CG	ARG	18	234.740	116.746	33.655	1.0048.60	NS14
ATOM	91	CA	THR	12	233.417	122.417	37.752	1.0089.90	NS14	ATOM	144	CD	ARG	18	235.789	115.719	33.613	1.0048.60	NS14
ATOM	92	CB	THR	12	234.643	123.183	38.319	1.00142.75	NS14	ATOM	145	NE	ARG	18	235.762	114.564	34.283	1.0048.60	NS14
ATOM	93	OG1	THR	12	234.626	124.535	37.838	1.00142.75	NS14	ATOM	146	C2	ARG	18	234.736	114.248	35.062	1.0048.60	NS14
ATOM	94	CG2	THR	12	235.947	122.511	37.913	1.00142.75	NS14	ATOM	147	NH1	ARG	18	234.736	114.248	35.062	1.0048.60	NS14
ATOM	95	C	THR	12	233.504	120.957	38.185	1.0089.90	NS14	ATOM	148	NH2	ARG	18	236.780	113.722	34.196	1.0048.60	NS14
ATOM	96	O	THR	12	234.281	120.623	39.080	1.0089.90	NS14	ATOM	149	C	ARG	18	233.360	121.361	32.268	1.0074.81	NS14
ATOM	97	N	PRO	13	232.707	120.070	37.560	1.00176.76	NS14	ATOM	150	O	ARG	18	233.366	121.797	33.413	1.0074.81	NS14
ATOM	98	CD	PRO	13	231.830	120.276	36.396	1.00139.67	NS14	ATOM	151	N	ALA	19	232.539	121.836	31.341	1.0077.43	NS14
ATOM	99	CA	PRO	13	232.754	118.651	37.931	1.00176.76	NS14	ATOM	152	CA	ALA	19	231.619	122.921	31.668	1.0077.43	NS14
ATOM	100	CB	PRO	13	231.840	117.984	36.897	1.00139.67	NS14	ATOM	153	CB	ALA	19	232.404	124.113	32.141	1.0024.70	NS14
ATOM	101	CG	PRO	13	231.886	118.923	35.729	1.00139.67	NS14	ATOM	154	C	ALA	19	230.773	123.325	30.476	1.0024.70	NS14
ATOM	102	C	PRO	13	234.198	118.159	37.861	1.00176.76	NS14	ATOM	155	O	ALA	19	231.079	124.326	29.839	1.0077.43	NS14
ATOM	103	O	PRO	13	234.618	117.541	36.880	1.00176.76	NS14	ATOM	156	N	TYR	20	229.705	122.574	30.201	1.00107.02	NS14
ATOM	104	N	LVS	14	234.936	118.464	38.926	1.00111.74	NS14	ATOM	157	CA	TYR	20	228.848	122.858	29.054	1.00107.02	NS14
ATOM	105	CA	LVS	14	236.344	118.134	39.080	1.00111.74	NS14	ATOM	158	CB	TYR	20	227.448	122.214	29.157	1.0099.35	NS14
ATOM	106	CB	LVS	14	236.655	116.748	38.506	1.00121.24	NS14	ATOM	159	CG	TYR	20	227.278	120.955	29.971	1.0099.35	NS14
ATOM	107	CG	LVS	14	235.966	115.589	39.212	1.00121.24	NS14	ATOM	160	CD1	TYR	20	228.359	120.325	30.576	1.0099.35	NS14
ATOM	108	CD	LVS	14	235.529	114.257	38.719	1.00121.24	NS14	ATOM	161	CE1	TYR	20	228.178	119.204	31.385	1.0099.35	NS14
ATOM	109	CE	LVS	14	235.839	113.052	39.359	1.00121.24	NS14	ATOM	162	CD2	TYR	20	226.001	120.426	30.184	1.0099.35	NS14
ATOM	110	NZ	LVS	14	234.428	112.886	38.899	1.00121.24	NS14	ATOM	163	CE2	TYR	20	225.804	119.304	30.987	1.0099.35	NS14
ATOM	111	C	LVS	14	237.214	119.198	38.403	1.00111.74	NS14	ATOM	164	CZ	TYR	20	226.900	118.699	31.590	1.0081.80	NS14
ATOM	112	O	LVS	14	237.717	120.105	39.063	1.00111.74	NS14	ATOM	165	OH	TYR	20	226.734	117.599	32.406	1.0099.35	NS14
ATOM	113	N	PHE	15	237.366	119.112	37.087	1.0071.93	NS14	ATOM	166	C	TYR	20	226.900	120.426	30.184	1.0099.35	NS14
ATOM	114	CA	PHE	15	238.204	120.061	36.372	1.0071.93	NS14	ATOM	167	O	TYR	20	228.622	124.349	28.417	1.00107.02	NS14
ATOM	115	CB	PHE	15	239.122	119.293	35.444	1.0070.68	NS14	ATOM	168	N	THR	21	227.402	124.767	29.164	1.0081.80	NS14
ATOM	116	CG	PHE	15	239.460	117.934	35.953	1.0070.68	NS14	ATOM	169	CA	THR	21	226.907	126.126	29.011	1.0081.80	NS14
ATOM	117	CD1	PHE	15	238.541	116.899	35.859	1.0070.68	NS14	ATOM	170	CB	THR	21	227.807	126.973	28.090	1.0055.06	NS14
ATOM	118	CD2	PHE	15	240.684	117.688	36.551	1.0070.68	NS14	ATOM	171	OG1	THR	21	228.802	127.604	28.889	1.0055.06	NS14
ATOM	119	CE1	PHE	15	238.837	115.633	36.355	1.0070.68	NS14	ATOM	172	CG2	THR	21	227.027	128.040	27.337	1.0055.06	NS14
ATOM	120	CE2	PHE	15	240.994	116.429	37.050	1.0070.68	NS14	ATOM	173	C	THR	21	225.566	125.908	28.343	1.0081.80	NS14
ATOM	121	CZ	PHE	15	240.067	115.398	36.951	1.0070.68	NS14	ATOM	174	O	THR	21	225.500	125.707	27.130	1.0081.80	NS14
ATOM	122	C	PHE	15	237.416	121.102	35.597	1.0071.93	NS14	ATOM	175	N	ARG	22	224.499	125.911	29.134	1.0060.77	NS14
ATOM	123	O	PHE	15	236.420	120.790	34.958	1.0071.93	NS14	ATOM	176	CA	ARG	22	223.172	125.702	28.586	1.0060.77	NS14
ATOM	124	N	LVS	16	237.876	122.344	35.672	1.0070.49	NS14	ATOM	177	CB	ARG	22	222.436	124.645	29.385	1.0050.52	NS14

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ATOM	178	CG	ARG	22	223.144	123.328	29.391	1.00	50.52	NS14	ATOM	231	N	ALA	29	221.716	124.064	25.287	1.00	58.03	NS
ATOM	179	CD	ARG	22	222.368	122.291	30.137	1.00	50.52	NS14	ATOM	232	CA	ALA	29	223.125	123.664	25.333	1.00	58.03	NS
ATOM	180	NE	ARG	22	222.953	120.990	29.881	1.00	50.52	NS14	ATOM	233	CB	ALA	29	223.325	122.584	26.377	1.00	73.69	NS
ATOM	181	CZ	ARG	22	222.644	120.239	28.836	1.00	50.52	NS14	ATOM	234	C	ALA	29	223.707	123.175	24.013	1.00	58.03	NS
ATOM	182	NH1	ARG	22	221.737	120.669	27.962	1.00	50.52	NS14	ATOM	235	O	ALA	29	224.594	122.335	24.021	1.00	58.03	NS
ATOM	183	NH2	ARG	22	223.260	119.072	28.661	1.00	50.52	NS14	ATOM	236	N	ARG	30	223.221	123.680	22.886	1.00	76.78	NS
ATOM	184	C	ARG	22	222.362	126.973	28.568	1.00	60.77	NS14	ATOM	237	CA	ARG	30	223.755	123.225	21.614	1.00	76.78	NS
ATOM	185	O	ARG	22	222.767	127.990	29.125	1.00	60.77	NS14	ATOM	238	CB	ARG	30	222.796	122.236	20.949	1.00	47.30	NS
ATOM	186	N	CYS	23	221.207	126.900	27.922	1.00	82.26	NS14	ATOM	239	CG	ARG	30	223.274	121.692	19.595	1.00	47.30	NS
ATOM	187	CA	CYS	23	220.326	128.043	27.803	1.00	82.26	NS14	ATOM	240	CD	ARG	30	224.507	120.788	19.688	1.00	47.30	NS
ATOM	188	CB	CYS	23	219.326	127.821	26.654	1.00	56.71	NS14	ATOM	241	NE	ARG	30	224.155	119.381	19.835	1.00	47.30	NS
ATOM	189	SG	CYS	23	218.233	129.245	26.281	1.00	56.71	NS14	ATOM	242	CZ	ARG	30	224.932	118.374	19.448	1.00	47.30	NS
ATOM	190	C	CYS	23	219.561	128.297	29.091	1.00	82.26	NS14	ATOM	243	NH1	ARG	30	226.111	118.616	18.888	1.00	47.30	NS
ATOM	191	O	CYS	23	218.999	127.376	29.690	1.00	82.26	NS14	ATOM	244	NH2	ARG	30	224.530	117.121	19.616	1.00	47.30	NS
ATOM	192	N	VAL	24	219.582	129.545	29.539	1.00	93.15	NS14	ATOM	245	C	ARG	30	224.047	124.371	20.667	1.00	76.78	NS
ATOM	193	CA	VAL	24	218.809	129.924	30.704	1.00	93.15	NS14	ATOM	246	O	ARG	30	224.692	124.176	19.638	1.00	76.78	NS
ATOM	194	CB	VAL	24	219.065	131.372	31.095	1.00	93.79	NS14	ATOM	247	N	SER	31	223.580	125.566	21.001	1.00	47.03	NS
ATOM	195	CG1	VAL	24	218.278	131.699	32.333	1.00	93.79	NS14	ATOM	248	CA	SER	31	223.860	126.713	20.148	1.00	47.03	NS
ATOM	196	CG2	VAL	24	220.538	131.604	31.302	1.00	93.79	NS14	ATOM	249	CB	SER	31	223.081	126.589	18.839	1.00	50.44	NS
ATOM	197	C	VAL	24	217.468	129.862	30.000	1.00	93.15	NS14	ATOM	250	OG	SER	31	223.704	127.333	17.802	1.00	50.44	NS
ATOM	198	O	VAL	24	217.288	130.548	28.993	1.00	93.15	NS14	ATOM	251	C	SER	31	223.458	127.971	20.903	1.00	47.03	NS
ATOM	199	N	ARG	25	216.539	129.050	30.493	1.00	93.08	NS14	ATOM	252	O	SER	31	222.812	128.870	20.358	1.00	47.03	NS
ATOM	200	CA	ARG	25	215.244	128.901	29.819	1.00	93.15	NS14	ATOM	253	N	VAL	32	223.880	128.018	22.164	1.00	89.06	NS
ATOM	201	CB	ARG	25	214.777	130.225	29.212	1.00	67.15	NS14	ATOM	254	CA	VAL	32	223.565	129.089	23.107	1.00	89.06	NS
ATOM	202	CG	ARG	25	213.984	130.060	27.937	1.00	67.15	NS14	ATOM	255	CB	VAL	32	224.292	128.843	24.419	1.00	57.89	NS
ATOM	203	CD	ARG	25	213.407	131.377	27.448	1.00	67.15	NS14	ATOM	256	CG1	VAL	32	223.650	127.676	25.155	1.00	57.89	NS
ATOM	204	NE	ARG	25	212.333	131.130	26.484	1.00	67.15	NS14	ATOM	257	CG2	VAL	32	225.755	128.558	24.127	1.00	57.89	NS
ATOM	205	CZ	ARG	25	211.491	132.058	26.044	1.00	67.15	NS14	ATOM	258	C	VAL	32	223.724	130.572	22.775	1.00	89.06	NS
ATOM	206	NH1	ARG	25	211.599	133.298	26.486	1.00	67.15	NS14	ATOM	259	O	VAL	32	222.748	131.228	22.435	1.00	89.06	NS
ATOM	207	NH2	ARG	25	210.546	131.747	25.166	1.00	67.15	NS14	ATOM	260	N	TYR	33	224.938	131.096	22.913	1.00	66.64	NS
ATOM	208	C	ARG	25	215.470	127.910	28.693	1.00	93.08	NS14	ATOM	261	CA	TYR	33	225.269	132.517	22.686	1.00	66.64	NS
ATOM	209	O	ARG	25	216.278	128.172	27.805	1.00	93.08	NS14	ATOM	262	CB	TYR	33	224.104	133.337	22.109	1.00	62.91	NS
ATOM	210	N	CYS	26	214.762	126.784	28.724	1.00	49.90	NS14	ATOM	263	CG	TYR	33	223.934	133.234	20.605	1.00	62.91	NS
ATOM	211	CA	CYS	26	215.248	126.393	26.338	1.00	49.88	NS14	ATOM	264	CD1	TYR	33	223.482	132.059	20.007	1.00	62.91	NS
ATOM	212	CB	CYS	26	215.233	125.418	25.207	1.00	49.88	NS14	ATOM	265	CE1	TYR	33	223.326	131.961	18.636	1.00	62.91	NS
ATOM	213	SG	CYS	26	215.995	124.746	28.107	1.00	49.90	NS14	ATOM	266	CE2	TYR	33	224.225	134.312	19.780	1.00	62.91	NS
ATOM	214	C	CYS	26	215.735	123.544	28.187	1.00	49.90	NS14	ATOM	267	CEZ	TYR	33	223.623	133.045	17.839	1.00	62.91	NS
ATOM	215	O	CYS	27	217.201	125.273	28.382	1.00	57.15	NS14	ATOM	268	CZ	TYR	33	223.481	132.946	16.472	1.00	62.91	NS
ATOM	216	N	GLY	27	218.284	124.374	28.827	1.00	57.15	NS14	ATOM	269	OH	TYR	33	225.611	133.081	24.977	1.00	66.64	NS
ATOM	217	CA	GLY	27	219.030	123.726	27.687	1.00	57.15	NS14	ATOM	270	C	TYR	33	224.819	132.988	24.977	1.00	66.64	NS
ATOM	218	C	GLY	27	219.857	122.834	27.896	1.00	57.15	NS14	ATOM	271	O	TYR	33	226.791	133.667	24.183	1.00	59.94	NS
ATOM	219	O	GLY	27	218.735	124.212	26.484	1.00	35.54	NS14	ATOM	272	N	ARG	34	227.227	134.194	25.459	1.00	59.94	NS
ATOM	220	N	ARG	28	219.309	123.731	25.232	1.00	35.54	NS14	ATOM	273	CA	ARG	34	228.732	133.437	25.427	1.00	64.73	NS
ATOM	221	CA	ARG	28	219.250	124.841	24.176	1.00	61.14	NS14	ATOM	274	CB	ARG	34	229.579	133.181	25.292	1.00	64.73	NS
ATOM	222	CB	ARG	28	219.659	124.362	22.808	1.00	61.14	NS14	ATOM	275	CG	ARG	34	231.013	133.580	24.967	1.00	64.73	NS
ATOM	223	CG	ARG	28	218.725	123.251	22.355	1.00	61.14	NS14	ATOM	276	CD	ARG	34	231.986	132.496	25.110	1.00	64.73	NS
ATOM	224	CD	ARG	28	219.203	122.619	21.133	1.00	61.14	NS14	ATOM	277	CE	ARG	34	233.274	132.616	24.792	1.00	64.73	NS
ATOM	225	NE	ARG	28	219.323	123.238	19.965	1.00	61.14	NS14	ATOM	278	NE	ARG	34	233.728	133.767	24.314	1.00	64.73	NS
ATOM	226	CZ	ARG	28	218.999	124.514	19.853	1.00	61.14	NS14	ATOM	279	NH1	ARG	34	234.111	131.596	24.954	1.00	64.73	NS
ATOM	227	NH1	ARG	28	219.768	122.572	18.914	1.00	61.14	NS14	ATOM	280	NH2	ARG	34	226.515	135.467	25.880	1.00	59.94	NS
ATOM	228	NH2	ARG	28	220.730	123.173	25.291	1.00	35.54	NS14	ATOM	281	C	ARG	34	226.040	135.571	27.009	1.00	59.94	NS
ATOM	229	C	ARG	28	220.926	121.957	25.312	1.00	35.54	NS14	ATOM	282	O	ARG	34	226.433	136.436	24.980	1.00	59.94	NS
ATOM	230	O	ARG	28						NS14	ATOM	283	N	PHE	35						NS

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ATOM	284	CA	PHE	35	225.793	137.696	25.317	1.00	59.71	NS14	ATOM	337	CG2	ILE	41	213.796	128.000	19.967	1.00	26.22	NS
ATOM	285	CB	PHE	35	225.503	138.496	24.072	1.00	44.20	NS14	ATOM	338	CG1	ILE	41	215.776	127.301	18.616	1.00	26.22	NS
ATOM	286	CG	PHE	35	225.367	139.948	24.325	1.00	44.20	NS14	ATOM	339	CDI	ILE	41	215.516	125.834	18.974	1.00	26.22	NS
ATOM	287	CD1	PHE	35	224.113	140.546	24.355	1.00	44.20	NS14	ATOM	340	C	ILE	41	214.900	130.636	20.302	1.00	51.17	NS
ATOM	288	CD2	PHE	35	226.499	140.734	24.511	1.00	44.20	NS14	ATOM	341	O	ILE	41	214.078	130.529	20.118	1.00	51.17	NS
ATOM	289	CE1	PHE	35	223.986	141.914	24.558	1.00	44.20	NS14	ATOM	342	N	CYS	42	215.426	130.351	21.496	1.00	45.49	NS
ATOM	290	CE2	PHE	35	226.389	142.104	24.716	1.00	44.20	NS14	ATOM	343	CA	CYS	42	215.093	131.113	22.692	1.00	45.49	NS
ATOM	291	C2	PHE	35	225.132	142.698	24.738	1.00	44.20	NS14	ATOM	344	CB	CYS	42	215.929	130.614	23.866	1.00	40.13	NS
ATOM	292	C	PHE	35	224.517	137.504	26.113	1.00	59.71	NS14	ATOM	345	SG	CYS	42	215.265	129.085	24.499	1.00	40.13	NS
ATOM	293	O	PHE	35	224.228	138.308	26.987	1.00	59.71	NS14	ATOM	346	C	CYS	42	215.342	132.581	22.416	1.00	45.49	NS
ATOM	294	N	PHE	35	223.741	136.465	25.802	1.00	46.82	NS14	ATOM	347	O	CYS	42	214.511	133.429	22.724	1.00	45.49	NS
ATOM	295	CA	PHE	36	222.525	136.161	26.565	1.00	46.82	NS14	ATOM	348	N	LEU	43	216.489	132.870	21.811	1.00	47.84	NS
ATOM	296	CB	PHE	36	221.240	136.236	25.733	1.00	45.91	NS14	ATOM	349	CA	LEU	43	216.826	134.233	21.447	1.00	47.84	NS
ATOM	297	CG	PHE	36	221.297	137.178	24.569	1.00	45.91	NS14	ATOM	350	CB	LEU	43	218.296	134.307	20.999	1.00	53.49	NS
ATOM	298	CD1	PHE	36	221.943	136.816	23.400	1.00	45.91	NS14	ATOM	351	CG	LEU	43	218.834	135.209	19.870	1.00	53.49	NS
ATOM	299	CD2	PHE	36	220.632	138.401	24.614	1.00	45.91	NS14	ATOM	352	CD1	LEU	43	218.035	136.483	19.693	1.00	53.49	NS
ATOM	300	CE1	PHE	36	221.918	137.649	22.293	1.00	45.91	NS14	ATOM	353	CD2	LEU	43	220.298	135.527	20.189	1.00	53.49	NS
ATOM	301	CE2	PHE	36	220.601	139.249	23.504	1.00	45.91	NS14	ATOM	354	C	LEU	43	215.863	134.751	20.368	1.00	47.84	NS
ATOM	302	C2	PHE	36	221.243	138.869	22.343	1.00	46.82	NS14	ATOM	355	O	LEU	43	215.382	135.867	20.489	1.00	47.84	NS
ATOM	303	C	PHE	36	222.709	134.712	26.952	1.00	46.82	NS14	ATOM	356	N	ARG	44	215.563	133.954	19.334	1.00	67.30	NS
ATOM	304	O	PHE	36	223.268	133.950	26.182	1.00	46.82	NS14	ATOM	357	CA	ARG	44	214.626	134.391	18.274	1.00	67.30	NS
ATOM	305	N	GLY	37	222.252	134.310	28.128	1.00	46.66	NS14	ATOM	358	CG	ARG	44	214.521	133.336	17.160	1.00	88.45	NS
ATOM	306	CA	GLY	37	222.404	132.910	28.496	1.00	46.66	NS14	ATOM	359	CG	ARG	44	213.549	133.682	16.019	1.00	88.45	NS
ATOM	307	C	GLY	37	221.458	132.104	27.628	1.00	46.66	NS14	ATOM	360	CD	ARG	44	214.009	134.874	15.168	1.00	88.45	NS
ATOM	308	O	GLY	37	221.288	130.898	27.792	1.00	46.66	NS14	ATOM	361	NE	ARG	44	213.046	135.256	14.119	1.00	88.45	NS
ATOM	309	N	LEU	38	220.829	132.816	26.700	1.00	60.02	NS14	ATOM	362	C2	ARG	44	213.267	136.142	13.136	1.00	88.45	NS
ATOM	310	CA	LEU	38	219.880	132.255	25.759	1.00	60.02	NS14	ATOM	363	NH1	ARG	44	214.424	136.779	13.020	1.00	88.45	NS
ATOM	311	CB	LEU	38	219.111	133.387	25.077	1.00	46.05	NS14	ATOM	364	NH2	ARG	44	212.322	136.379	12.238	1.00	88.45	NS
ATOM	312	CD1	LEU	38	218.157	134.148	25.991	1.00	46.05	NS14	ATOM	365	C	ARG	44	213.224	134.692	18.829	1.00	67.30	NS
ATOM	313	CD2	LEU	38	217.360	135.190	25.212	1.00	46.05	NS14	ATOM	366	O	ARG	44	212.588	133.662	18.413	1.00	67.30	NS
ATOM	314	CG	LEU	38	217.229	133.143	26.630	1.00	46.05	NS14	ATOM	367	N	GLU	45	212.752	133.865	19.765	1.00	63.23	NS
ATOM	315	C	LEU	38	220.562	131.407	24.702	1.00	60.02	NS14	ATOM	368	CA	GLU	45	211.438	134.050	20.387	1.00	63.23	NS
ATOM	316	O	LEU	38	221.777	131.355	24.626	1.00	60.02	NS14	ATOM	369	CB	GLU	45	211.117	132.887	21.328	1.00	80.42	NS
ATOM	317	N	CYS	39	219.757	130.742	23.887	1.00	86.48	NS14	ATOM	370	CG	GLU	45	211.182	131.524	20.663	1.00	80.42	NS
ATOM	318	CA	CYS	39	220.253	129.903	22.807	1.00	86.48	NS14	ATOM	371	CD	GLU	45	210.991	130.373	21.640	1.00	80.42	NS
ATOM	319	CB	CYS	39	219.894	128.435	23.057	1.00	55.54	NS14	ATOM	372	OE1	GLU	45	211.535	130.447	22.765	1.00	80.42	NS
ATOM	320	SG	CYS	39	218.119	128.057	22.891	1.00	55.54	NS14	ATOM	373	OE2	GLU	45	210.313	129.388	21.275	1.00	80.42	NS
ATOM	321	C	CYS	39	219.536	130.385	21.557	1.00	86.48	NS14	ATOM	374	C	GLU	45	211.443	135.352	21.179	1.00	63.23	NS
ATOM	322	O	CYS	39	218.735	131.324	21.624	1.00	86.48	NS14	ATOM	375	O	GLU	45	210.688	136.286	20.877	1.00	63.23	NS
ATOM	323	N	ARG	40	219.830	129.760	20.417	1.00	78.72	NS14	ATOM	376	N	LEU	46	212.297	135.400	22.200	1.00	45.27	NS
ATOM	324	CA	ARG	40	219.152	130.114	19.173	1.00	78.72	NS14	ATOM	377	CA	LEU	46	212.437	136.590	23.030	1.00	45.27	NS
ATOM	325	CB	ARG	40	219.622	129.217	18.032	1.00	117.55	NS14	ATOM	378	CG	LEU	46	213.483	136.353	24.113	1.00	55.33	NS
ATOM	326	CG	ARG	40	218.959	127.853	18.065	1.00	117.55	NS14	ATOM	379	CG	LEU	46	213.039	135.357	25.180	1.00	55.33	NS
ATOM	327	CD	ARG	40	219.252	127.026	16.842	1.00	117.55	NS14	ATOM	380	CD1	LEU	46	214.237	134.779	25.916	1.00	55.33	NS
ATOM	328	NE	ARG	40	220.683	126.825	16.693	1.00	117.55	NS14	ATOM	381	CD2	LEU	46	212.091	136.069	26.123	1.00	55.33	NS
ATOM	329	C2	ARG	40	221.216	125.889	15.923	1.00	117.55	NS14	ATOM	382	C	LEU	46	212.859	137.769	22.173	1.00	45.27	NS
ATOM	330	NH1	ARG	40	222.421	125.074	15.242	1.00	117.55	NS14	ATOM	383	O	LEU	46	212.532	138.904	22.489	1.00	45.27	NS
ATOM	331	NH2	ARG	40	222.535	125.770	15.833	1.00	117.55	NS14	ATOM	384	N	ALA	47	213.605	137.496	21.102	1.00	49.43	NS
ATOM	332	C	ARG	40	217.728	129.732	19.553	1.00	78.72	NS14	ATOM	385	CA	ALA	47	214.057	138.539	20.181	1.00	49.43	NS
ATOM	333	O	ARG	40	217.529	129.054	20.561	1.00	78.72	NS14	ATOM	386	CB	ALA	47	214.735	137.926	18.969	1.00	41.30	NS
ATOM	334	N	ILE	41	216.735	130.125	18.774	1.00	51.17	NS14	ATOM	387	C	ALA	47	212.792	139.264	19.765	1.00	49.43	NS
ATOM	335	CA	ILE	41	215.363	129.759	19.148	1.00	51.17	NS14	ATOM	388	O	ALA	47	212.690	140.481	19.916	1.00	49.43	NS
ATOM	336	CB	ILE	41	215.239	128.292	19.653	1.00	26.22	NS14	ATOM	389	N	HIS	48	211.831	138.503	19.244	1.00	74.71	NS

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ATOM	390	CA	HIS	48	210.546	139.064	18.862	1.00	74.71	NS14	ATOM	443	CG1	VAL	55	218.000	141.242	19.473	1.00	70.24	NS
ATOM	391	CB	HIS	48	209.675	138.008	18.187	1.00	83.72	NS14	ATOM	444	CG2	VAL	55	218.750	142.039	21.712	1.00	70.24	NS
ATOM	392	CG	HIS	48	210.270	137.425	16.941	1.00	83.72	NS14	ATOM	445	C	VAL	55	216.773	143.935	19.031	1.00	63.96	NS
ATOM	393	CD2	HIS	48	210.498	136.140	16.579	1.00	83.72	NS14	ATOM	446	O	VAL	55	215.707	144.401	19.409	1.00	63.96	NS
ATOM	394	ND1	HIS	48	210.658	138.200	15.867	1.00	83.72	NS14	ATOM	447	N	ARG	56	217.012	143.645	17.762	1.00	82.06	NS
ATOM	395	CE1	HIS	48	211.096	137.416	14.898	1.00	83.72	NS14	ATOM	448	CA	ARG	56	216.007	143.894	16.746	1.00	82.06	NS
ATOM	396	NE2	HIS	48	211.009	136.162	15.305	1.00	83.72	NS14	ATOM	449	CB	ARG	56	215.950	145.386	16.450	1.00	74.35	NS
ATOM	397	C	HIS	48	209.966	139.415	20.222	1.00	74.71	NS14	ATOM	450	CG	ARG	56	214.822	145.752	15.541	1.00	74.35	NS
ATOM	398	O	HIS	48	210.674	139.323	21.218	1.00	74.71	NS14	ATOM	451	CD	ARG	56	215.067	147.061	14.846	1.00	74.35	NS
ATOM	399	N	LYS	49	208.697	139.792	20.239	1.00	106.12	NS14	ATOM	452	NE	ARG	56	215.265	148.137	15.798	1.00	74.35	NS
ATOM	400	CA	LYS	49	208.121	140.141	21.603	1.00	106.12	NS14	ATOM	453	CZ	ARG	56	214.986	149.407	15.539	1.00	74.35	NS
ATOM	401	CB	LYS	49	208.445	139.077	22.658	1.00	52.25	NS14	ATOM	454	NH1	ARG	56	214.490	149.749	14.350	1.00	74.35	NS
ATOM	402	CG	LYS	49	207.628	137.819	22.585	1.00	52.25	NS14	ATOM	455	NH2	ARG	56	215.206	150.334	16.468	1.00	74.35	NS
ATOM	403	CD	LYS	49	207.997	136.915	23.741	1.00	52.25	NS14	ATOM	456	C	ARG	56	216.298	143.141	15.446	1.00	82.06	NS
ATOM	404	CE	LYS	49	206.972	135.808	23.952	1.00	52.25	NS14	ATOM	457	O	ARG	56	217.304	142.431	15.335	1.00	82.06	NS
ATOM	405	NZ	LYS	49	206.808	134.913	22.759	1.00	52.25	NS14	ATOM	458	N	LYS	57	215.408	143.296	14.467	1.00	53.60	NS
ATOM	406	C	LYS	49	208.672	141.473	22.039	1.00	106.12	NS14	ATOM	459	CA	LYS	57	215.577	142.651	13.180	1.00	53.60	NS
ATOM	407	O	LYS	49	207.921	142.357	22.518	1.00	106.12	NS14	ATOM	460	CB	LYS	57	214.248	142.592	12.421	1.00	68.43	NS
ATOM	408	N	GLY	50	209.993	141.599	22.065	1.00	88.85	NS14	ATOM	461	CG	LYS	57	213.514	141.265	12.568	1.00	68.43	NS
ATOM	409	CA	GLY	50	210.636	142.817	22.512	1.00	88.85	NS14	ATOM	462	CD	LYS	57	212.494	141.068	11.462	1.00	68.43	NS
ATOM	410	C	GLY	50	211.223	142.624	23.890	1.00	88.85	NS14	ATOM	463	CE	LYS	57	211.995	139.645	11.447	1.00	68.43	NS
ATOM	411	O	GLY	50	211.437	143.589	24.622	1.00	88.85	NS14	ATOM	464	NZ	LYS	57	213.114	138.682	11.290	1.00	68.43	NS
ATOM	412	N	GLN	51	211.483	141.372	24.248	1.00	61.99	NS14	ATOM	465	C	LYS	57	216.621	143.410	12.362	1.00	53.60	NS
ATOM	413	CA	GLN	51	212.044	141.070	25.557	1.00	61.99	NS14	ATOM	466	O	LYS	57	216.520	144.625	12.159	1.00	53.60	NS
ATOM	414	CB	GLN	51	211.644	139.667	26.004	1.00	63.09	NS14	ATOM	467	N	ALA	58	217.620	142.668	11.894	1.00	64.27	NS
ATOM	415	CG	GLN	51	210.170	139.390	25.861	1.00	63.09	NS14	ATOM	468	CA	ALA	58	218.717	143.213	11.115	1.00	64.27	NS
ATOM	416	CD	GLN	51	209.546	138.819	27.117	1.00	63.09	NS14	ATOM	469	CB	ALA	58	219.922	142.340	11.310	1.00	54.72	NS
ATOM	417	OE1	GLN	51	210.016	137.823	27.680	1.00	63.09	NS14	ATOM	470	C	ALA	58	218.393	143.327	9.631	1.00	64.27	NS
ATOM	418	NE2	GLN	51	208.466	139.444	27.557	1.00	63.09	NS14	ATOM	471	O	ALA	58	218.095	142.336	8.982	1.00	64.27	NS
ATOM	419	C	GLN	51	213.562	141.193	25.559	1.00	61.99	NS14	ATOM	472	N	SER	59	218.466	144.531	9.086	1.00	81.25	NS
ATOM	420	O	GLN	51	214.195	141.161	26.613	1.00	61.99	NS14	ATOM	473	CA	SER	59	218.171	144.728	7.668	1.00	81.25	NS
ATOM	421	N	LEU	52	214.158	141.313	24.381	1.00	60.24	NS14	ATOM	474	CB	SER	59	216.793	145.376	7.501	1.00	93.09	NS
ATOM	422	CA	LEU	52	215.600	141.474	24.328	1.00	60.24	NS14	ATOM	475	OG	SER	59	216.579	145.799	6.164	1.00	93.09	NS
ATOM	423	CB	LEU	52	216.220	140.614	23.233	1.00	52.20	NS14	ATOM	476	C	SER	59	219.635	146.624	7.596	1.00	81.25	NS
ATOM	424	CG	LEU	52	215.931	139.115	23.316	1.00	52.20	NS14	ATOM	477	O	SER	59	219.230	145.614	7.018	1.00	81.25	NS
ATOM	425	CD1	LEU	52	216.847	138.399	22.324	1.00	52.20	NS14	ATOM	478	N	TRP	60	219.672	145.248	5.817	1.00	93.04	NS
ATOM	426	CD2	LEU	52	216.142	138.602	24.736	1.00	52.20	NS14	ATOM	479	CA	TRP	60	220.690	146.032	5.139	1.00	93.04	NS
ATOM	427	C	LEU	52	215.809	142.941	24.025	1.00	60.24	NS14	ATOM	480	CB	TRP	60	221.889	146.197	6.061	1.00	44.94	NS
ATOM	428	O	LEU	52	215.685	143.381	22.875	1.00	60.24	NS14	ATOM	481	CG	TRP	60	222.845	145.048	6.074	1.00	44.94	NS
ATOM	429	N	PRO	53	216.114	143.726	25.068	1.00	58.90	NS14	ATOM	482	CD2	TRP	60	222.716	143.806	6.787	1.00	44.94	NS
ATOM	430	CD	PRO	53	216.397	143.261	26.437	1.00	45.13	NS14	ATOM	483	CE2	TRP	60	223.879	143.048	6.523	1.00	44.94	NS
ATOM	431	CA	PRO	53	216.340	145.167	24.943	1.00	58.90	NS14	ATOM	484	CE3	TRP	60	221.741	143.261	7.621	1.00	44.94	NS
ATOM	432	CB	PRO	53	216.696	145.593	26.378	1.00	45.13	NS14	ATOM	485	CD1	TRP	60	224.044	144.987	5.423	1.00	44.94	NS
ATOM	433	CG	PRO	53	217.283	144.362	26.971	1.00	45.13	NS14	ATOM	486	NE1	TRP	60	224.673	143.791	5.689	1.00	44.94	NS
ATOM	434	C	PRO	53	217.414	145.522	23.933	1.00	58.90	NS14	ATOM	487	CE2	TRP	60	224.088	141.770	7.068	1.00	44.94	NS
ATOM	435	O	PRO	53	218.498	144.953	23.945	1.00	58.90	NS14	ATOM	488	CZ3	TRP	60	221.956	141.983	8.166	1.00	44.94	NS
ATOM	436	N	GLY	54	217.095	146.457	23.048	1.00	75.43	NS14	ATOM	489	CH2	TRP	60	223.118	141.260	7.886	1.00	44.94	NS
ATOM	437	CA	GLY	54	218.057	146.878	22.050	1.00	75.43	NS14	ATOM	490	C	TRP	60	221.129	145.413	3.818	1.00	93.04	NS
ATOM	438	C	GLY	54	218.183	145.936	20.872	1.00	75.43	NS14	ATOM	491	O	TRP	60	221.334	146.182	2.854	1.00	93.04	NS
ATOM	439	O	GLY	54	218.605	146.352	19.792	1.00	75.43	NS14	ATOM	492	OXT	TRP	60	221.280	144.172	3.764	1.00	74.01	NS
ATOM	440	N	VAL	55	217.826	144.669	21.077	1.00	63.96	NS14	ATOM	493	CB	ALA	1	278.766	116.927	-7.702	1.00	38.34	MS
ATOM	441	CA	VAL	55	217.897	143.671	20.016	1.00	63.96	NS14	ATOM	494	C	ALA	1	278.288	114.649	-8.564	1.00	94.79	MS
ATOM	442	CB	VAL	55	217.755	142.253	20.577	1.00	70.24	NS14	ATOM	495	O	ALA	1	277.629	113.923	-9.304	1.00	94.79	MS

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ATOM	496	N	ALA	1	277.501	116.661	-9.795	1.00	94.79	MS13	ATOM	549	O	ILE	8	273.471	114.189	-11.650	1.00149.39	MS	
ATOM	497	CA	ALA	1	278.586	116.090	-8.949	1.00	94.79	MS13	ATOM	550	N	PRO	9	273.427	114.979	-9.542	1.00123.43	MS	
ATOM	498	N	ARG	2	278.776	114.236	-7.401	1.00	86.54	MS13	ATOM	551	CD	PRO	9	273.811	115.062	-8.119	1.00	85.69	MS
ATOM	499	CA	ARG	2	278.569	112.873	-6.927	1.00	86.54	MS13	ATOM	552	CA	PRO	9	272.699	116.182	-9.958	1.00123.43	MS	
ATOM	500	CB	ARG	2	279.700	111.966	-7.414	1.00157.94		MS13	ATOM	553	CB	PRO	9	272.314	116.807	-8.626	1.00	85.69	MS
ATOM	501	CG	ARG	2	279.761	111.797	-8.922	1.00157.94		MS13	ATOM	554	CG	PRO	9	273.528	116.509	-7.780	1.00	85.69	MS
ATOM	502	CD	ARG	2	278.827	110.698	-9.399	1.00157.94		MS13	ATOM	555	C	PRO	9	273.589	117.097	-10.794	1.00123.43	MS	
ATOM	503	NE	ARG	2	278.732	110.668	-10.857	1.00157.94		MS13	ATOM	556	O	PRO	9	274.695	117.439	-10.365	1.00123.43	MS	
ATOM	504	CZ	ARG	2	278.267	109.639	-11.561	1.00157.94		MS13	ATOM	557	N	ARG	10	273.119	117.496	-11.978	1.00101.19	MS	
ATOM	505	NH1	ARG	2	277.853	108.537	-10.945	1.00157.94		MS13	ATOM	558	CA	ARG	10	273.902	118.382	-12.856	1.00101.19	MS	
ATOM	506	NH2	ARG	2	278.207	109.716	-12.885	1.00157.94		MS13	ATOM	559	CB	ARG	10	274.529	117.589	-14.010	1.00154.14	MS	
ATOM	507	C	ARG	2	278.541	112.870	-5.412	1.00	86.54	MS13	ATOM	560	CG	ARG	10	275.578	118.374	-14.796	1.00154.14	MS	
ATOM	508	O	ARG	2	279.200	112.049	-4.776	1.00	86.54	MS13	ATOM	561	CD	ARG	10	275.560	118.040	-16.284	1.00154.14	MS	
ATOM	509	N	ILE	3	277.775	113.795	-4.840	1.00	73.54	MS13	ATOM	562	NE	ARG	10	275.962	116.666	-16.568	1.00154.14	MS	
ATOM	510	CA	ILE	3	277.659	113.920	-3.390	1.00	73.54	MS13	ATOM	563	CZ	ARG	10	275.856	116.089	-17.763	1.00154.14	MS	
ATOM	511	CB	ILE	3	277.188	115.336	-3.003	1.00	53.65	MS13	ATOM	564	NH1	ARG	10	275.358	116.769	-18.791	1.00154.14	MS	
ATOM	512	CG2	ILE	3	277.094	115.463	-1.488	1.00	53.65	MS13	ATOM	565	NH2	ARG	10	276.246	114.831	-17.933	1.00154.14	MS	
ATOM	513	CG1	ILE	3	278.171	116.369	-3.563	1.00	53.65	MS13	ATOM	566	C	ARG	10	273.012	119.484	-13.429	1.00101.19	MS	
ATOM	514	CD1	ILE	3	277.826	117.814	-3.229	1.00	53.65	MS13	ATOM	567	O	ARG	10	271.867	119.640	-12.987	1.00101.19	MS	
ATOM	515	C	ILE	3	276.714	112.899	-2.762	1.00	73.54	MS13	ATOM	568	N	ASN	11	273.542	120.240	-14.396	1.00	76.42	MS
ATOM	516	O	ILE	3	275.701	112.529	-3.344	1.00	73.54	MS13	ATOM	569	CA	ASN	11	272.808	121.324	-15.059	1.00	76.42	MS
ATOM	517	N	ALA	4	277.066	112.445	-1.567	1.00	63.57	MS13	ATOM	570	CB	ASN	11	272.386	120.888	-16.461	1.00120.50	MS	
ATOM	518	CA	ALA	4	276.271	111.468	-0.824	1.00	63.57	MS13	ATOM	571	CG	ASN	11	273.430	121.199	-17.504	1.00120.50	MS	
ATOM	519	CB	ALA	4	274.993	112.118	-0.314	1.00	85.26	MS13	ATOM	572	OD1	ASN	11	273.723	122.365	-17.770	1.00120.50	MS	
ATOM	520	C	ALA	4	275.935	110.218	-1.623	1.00	63.57	MS13	ATOM	573	ND2	ASN	11	274.002	120.159	-18.106	1.00120.50	MS	
ATOM	521	O	ALA	4	276.276	110.115	-2.803	1.00	63.57	MS13	ATOM	574	C	ASN	11	271.572	121.757	-14.286	1.00	76.42	MS
ATOM	522	N	GLY	5	275.267	109.277	-0.957	1.00112.82		MS13	ATOM	575	O	ASN	11	270.799	121.203	-14.476	1.00	76.42	MS
ATOM	523	CA	GLY	5	274.875	108.021	-1.574	1.00112.82		MS13	ATOM	576	N	LYS	12	271.729	122.754	-13.425	1.00	85.89	MS
ATOM	524	C	GLY	5	275.559	107.743	-2.897	1.00112.82		MS13	ATOM	577	CA	LYS	12	270.652	123.265	-12.582	1.00	85.89	MS
ATOM	525	O	GLY	5	276.498	106.956	-2.972	1.00112.82		MS13	ATOM	578	CB	LYS	12	269.679	122.155	-12.171	1.00107.84	MS	
ATOM	526	N	VAL	6	275.073	108.401	-3.941	1.00115.41		MS13	ATOM	579	CG	LYS	12	268.303	122.234	-12.830	1.00107.84	MS	
ATOM	527	CA	VAL	6	275.608	108.275	-5.289	1.00115.41		MS13	ATOM	580	CD	LYS	12	267.332	121.233	-12.221	1.00107.84	MS	
ATOM	528	CB	VAL	6	275.427	106.844	-5.865	1.00109.72		MS13	ATOM	581	CE	LYS	12	267.902	119.833	-12.283	1.00107.84	MS	
ATOM	529	CG1	VAL	6	276.629	105.977	-5.508	1.00109.72		MS13	ATOM	582	N2	LYS	12	267.017	118.838	-11.628	1.00107.84	MS	
ATOM	530	CG2	VAL	6	274.138	106.223	-5.335	1.00109.72		MS13	ATOM	583	C	LYS	12	271.321	123.771	-11.322	1.00	85.89	MS
ATOM	531	C	VAL	6	274.814	109.247	-6.143	1.00115.41		MS13	ATOM	584	O	LYS	12	272.281	123.160	-10.848	1.00	85.89	MS
ATOM	532	O	VAL	6	274.222	108.864	-7.157	1.00115.41		MS13	ATOM	585	N	ARG	13	270.823	124.878	-10.783	1.00	49.65	MS
ATOM	533	N	GLU	7	274.798	110.508	-5.721	1.00	90.02	MS13	ATOM	586	CA	ARG	13	271.374	125.425	-9.551	1.00	49.65	MS
ATOM	534	CA	GLU	7	274.054	111.529	-6.441	1.00	90.02	MS13	ATOM	587	CB	ARG	13	270.359	126.384	-8.932	1.00	62.30	MS
ATOM	535	CB	GLU	7	273.761	112.711	-5.519	1.00192.91		MS13	ATOM	588	CG	ARG	13	270.157	127.654	-9.740	1.00	62.30	MS
ATOM	536	CG	GLU	7	273.073	112.289	-4.239	1.00192.91		MS13	ATOM	589	CD	ARG	13	268.893	128.372	-9.335	1.00	62.30	MS
ATOM	537	CD	GLU	7	272.061	111.190	-4.477	1.00192.91		MS13	ATOM	590	NE	ARG	13	269.129	129.761	-8.948	1.00	62.30	MS
ATOM	538	OE1	GLU	7	271.085	111.432	-5.218	1.00192.91		MS13	ATOM	591	CZ	ARG	13	269.536	130.141	-7.741	1.00	62.30	MS
ATOM	539	OE2	GLU	7	272.250	110.083	-3.933	1.00192.91		MS13	ATOM	592	NH1	ARG	13	269.758	129.228	-6.798	1.00	62.30	MS
ATOM	540	C	GLU	7	274.759	112.008	-7.698	1.00	90.02	MS13	ATOM	593	NH2	ARG	13	269.701	131.436	-7.474	1.00	62.30	MS
ATOM	541	O	GLU	7	275.984	112.063	-7.757	1.00	90.02	MS13	ATOM	594	C	ARG	13	271.693	124.288	-8.568	1.00	49.65	MS
ATOM	542	N	ILE	8	273.968	112.354	-7.757	1.00149.39		MS13	ATOM	595	O	ARG	13	271.048	123.240	-8.590	1.00	49.65	MS
ATOM	543	CA	ILE	8	274.511	112.814	-9.970	1.00149.39		MS13	ATOM	596	N	VAL	14	272.693	123.456	-7.716	1.00	64.62	MS
ATOM	544	CB	ILE	8	274.400	111.699	-11.043	1.00119.88		MS13	ATOM	597	CA	VAL	14	273.067	123.459	-6.747	1.00	64.62	MS
ATOM	545	CG2	ILE	8	275.413	111.938	-12.165	1.00119.88		MS13	ATOM	598	CB	VAL	14	274.430	123.767	-6.117	1.00	60.66	MS
ATOM	546	CG1	ILE	8	274.628	110.322	-10.400	1.00119.88		MS13	ATOM	599	CG1	VAL	14	274.893	122.590	-5.265	1.00	60.66	MS
ATOM	547	CD1	ILE	8	273.382	109.701	-9.746	1.00119.88		MS13	ATOM	600	CG2	VAL	14	275.430	124.087	-7.201	1.00	60.66	MS
ATOM	548	C	ILE	8	273.755	114.052	-10.458	1.00149.39		MS13	ATOM	601	C	VAL	14	272.033	123.385	-5.631	1.00	64.62	MS

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ATOM	602	O	VAL	14	271.676	122.300	-5.172	1.00	64.62	MS13	ATOM	655	CDI	ILE	21	273.127	116.125	-2.522	1.00	70.60	MS
ATOM	603	N	ASP	15	271.561	124.551	-5.199	1.00	84.85	MS13	ATOM	656	C	ILE	21	269.400	112.966	-1.240	1.00	93.46	MS
ATOM	604	CA	ASP	15	270.567	124.642	-4.135	1.00	84.85	MS13	ATOM	657	O	ILE	21	269.796	113.028	-0.073	1.00	93.46	MS
ATOM	605	CG	ASP	15	270.216	126.109	-3.873	1.00	76.94	MS13	ATOM	658	N	TYR	22	268.250	112.404	-1.591	1.00	117.29	MS
ATOM	606	CB	ASP	15	269.648	126.805	-5.094	1.00	76.94	MS13	ATOM	659	CA	TYR	22	267.315	111.861	-0.618	1.00	117.29	MS
ATOM	607	ODI	ASP	15	269.963	126.378	-6.224	1.00	76.94	MS13	ATOM	660	CB	TYR	22	267.713	110.457	-0.155	1.00	81.27	MS
ATOM	608	OD2	ASP	15	268.901	127.792	-4.926	1.00	76.94	MS13	ATOM	661	CG	TYR	22	266.566	109.744	0.524	1.00	81.27	MS
ATOM	609	C	ASP	15	269.320	123.861	-4.504	1.00	84.85	MS13	ATOM	662	CDI	TYR	22	265.343	109.587	-0.127	1.00	81.27	MS
ATOM	610	O	ASP	15	268.486	123.549	-3.652	1.00	84.85	MS13	ATOM	663	CE1	TYR	22	264.245	109.001	0.513	1.00	81.27	MS
ATOM	611	N	VAL	16	269.199	123.555	-5.789	1.00	67.10	MS13	ATOM	664	CD2	TYR	22	266.670	109.285	1.835	1.00	81.27	MS
ATOM	612	CA	VAL	16	268.072	122.792	-6.294	1.00	67.10	MS13	ATOM	665	CE2	TYR	22	265.572	108.691	2.485	1.00	81.27	MS
ATOM	613	CB	VAL	16	267.597	123.321	-7.653	1.00	86.35	MS13	ATOM	666	CZ	TYR	22	264.365	108.559	1.815	1.00	81.27	MS
ATOM	614	CG1	VAL	16	266.657	122.323	-8.290	1.00	86.35	MS13	ATOM	667	OH	TYR	22	263.274	108.003	2.443	1.00	81.27	MS
ATOM	615	CG2	VAL	16	266.899	124.652	-7.479	1.00	86.35	MS13	ATOM	668	C	TYR	22	267.218	112.795	0.578	1.00	117.29	MS
ATOM	616	C	VAL	16	268.511	121.353	-6.479	1.00	67.10	MS13	ATOM	669	O	TYR	22	267.752	112.375	1.722	1.00	53.92	MS
ATOM	617	O	VAL	16	267.769	120.417	-6.187	1.00	67.10	MS13	ATOM	670	N	GLY	23	267.688	113.188	2.930	1.00	53.92	MS
ATOM	618	N	ALA	17	269.729	121.188	-6.972	1.00	46.76	MS13	ATOM	671	CA	GLY	23	267.985	114.690	2.930	1.00	53.92	MS
ATOM	619	CA	ALA	17	270.286	119.865	-7.216	1.00	46.76	MS13	ATOM	672	C	GLY	23	268.163	115.259	4.007	1.00	53.92	MS
ATOM	620	CB	ALA	17	271.487	119.967	-8.173	1.00	15.18	MS13	ATOM	673	O	GLY	23	268.027	115.354	1.775	1.00	56.57	MS
ATOM	621	C	ALA	17	270.700	119.175	-5.921	1.00	46.76	MS13	ATOM	674	N	ILE	24	268.321	116.788	1.776	1.00	56.57	MS
ATOM	622	O	ALA	17	270.777	117.951	-5.875	1.00	46.76	MS13	ATOM	675	CA	ILE	24	269.586	117.100	0.943	1.00	52.15	MS
ATOM	623	N	LEU	18	270.974	119.956	-4.877	1.00	76.69	MS13	ATOM	676	CB	ILE	24	270.026	118.549	1.185	1.00	52.15	MS
ATOM	624	CA	LEU	18	271.376	119.369	-3.606	1.00	76.69	MS13	ATOM	677	CG2	ILE	24	270.723	116.176	0.622	1.00	52.15	MS
ATOM	625	CB	LEU	18	271.837	120.441	-2.626	1.00	68.93	MS13	ATOM	678	CG1	ILE	24	271.990	116.415	0.622	1.00	52.15	MS
ATOM	626	CG	LEU	18	273.348	120.663	-2.709	1.00	68.93	MS13	ATOM	679	CD1	ILE	24	267.198	117.732	1.321	1.00	56.57	MS
ATOM	627	CD1	LEU	18	273.767	121.387	-1.829	1.00	68.93	MS13	ATOM	680	C	ILE	24	266.299	118.063	2.100	1.00	56.57	MS
ATOM	628	CD2	LEU	18	274.052	119.382	-2.288	1.00	68.93	MS13	ATOM	681	O	ILE	24	267.263	118.185	0.070	1.00	74.49	MS
ATOM	629	C	LEU	18	270.226	118.563	-3.036	1.00	76.69	MS13	ATOM	682	N	GLY	25	266.253	119.103	-0.435	1.00	74.49	MS
ATOM	630	O	LEU	18	270.371	117.841	-2.040	1.00	76.69	MS13	ATOM	683	CA	GLY	25	266.179	120.402	0.357	1.00	74.49	MS
ATOM	631	N	THR	19	269.071	118.706	-3.676	1.00	95.84	MS13	ATOM	684	C	GLY	25	266.515	120.423	1.538	1.00	74.49	MS
ATOM	632	CA	THR	19	267.909	117.926	-3.305	1.00	95.84	MS13	ATOM	685	O	GLY	25	265.730	121.474	-0.301	1.00	90.66	MS
ATOM	633	CB	THR	19	266.637	118.445	-3.967	1.00	69.91	MS13	ATOM	686	N	LYS	26	265.593	122.812	0.293	1.00	90.66	MS
ATOM	634	CG1	THR	19	266.431	119.819	-3.614	1.00	69.91	MS13	ATOM	687	CA	LYS	26	264.266	123.450	-0.134	1.00	139.36	MS
ATOM	635	CG2	THR	19	265.453	117.625	-3.513	1.00	69.91	MS13	ATOM	688	CB	LYS	26	265.058	125.013	-1.976	1.00	139.36	MS
ATOM	636	C	THR	19	268.332	116.553	-4.008	1.00	95.84	MS13	ATOM	689	CG	LYS	26	264.815	125.474	-3.417	1.00	139.36	MS
ATOM	637	O	THR	19	269.519	116.442	-4.214	1.00	95.84	MS13	ATOM	690	CD	LYS	26	265.559	126.723	-3.773	1.00	139.36	MS
ATOM	638	N	TYR	20	267.397	115.810	-4.406	1.00	60.84	MS13	ATOM	691	CE	LYS	26	265.173	121.951	2.492	1.00	90.66	MS
ATOM	639	CA	TYR	20	267.777	114.586	-5.102	1.00	60.84	MS13	ATOM	692	NZ	LYS	26	265.330	123.889	2.320	1.00	80.94	MS
ATOM	640	CB	TYR	20	268.501	114.925	-6.410	1.00	62.75	MS13	ATOM	693	C	LYS	26	266.552	124.092	3.755	1.00	80.94	MS
ATOM	641	CG	TYR	20	267.666	115.754	-7.362	1.00	62.75	MS13	ATOM	694	O	LYS	27	265.473	123.356	4.618	1.00	39.58	MS
ATOM	642	CD1	TYR	20	267.430	117.106	-7.121	1.00	62.75	MS13	ATOM	695	N	ALA	27	267.947	123.555	4.056	1.00	80.94	MS
ATOM	643	CE1	TYR	20	266.581	117.843	-7.939	1.00	62.75	MS13	ATOM	696	CA	ALA	27	268.862	124.327	4.345	1.00	80.94	MS
ATOM	644	CD2	TYR	20	267.190	115.162	-8.457	1.00	62.75	MS13	ATOM	697	CB	ALA	27	268.111	122.237	3.983	1.00	75.09	MS
ATOM	645	CE2	TYR	20	265.957	117.225	-9.019	1.00	62.75	MS13	ATOM	698	C	ALA	27	269.317	120.123	4.302	1.00	51.40	MS
ATOM	646	CZ	TYR	20	265.071	117.926	-9.818	1.00	62.75	MS13	ATOM	699	O	ALA	27	268.849	118.100	5.747	1.00	51.40	MS
ATOM	647	OH	TYR	20	268.718	112.476	-4.476	1.00	60.84	MS13	ATOM	700	N	ARG	28	268.917	117.645	7.134	1.00	51.40	MS
ATOM	648	C	TYR	20	269.344	114.265	-3.272	1.00	93.46	MS13	ATOM	701	CA	ARG	28	268.868	116.372	7.508	1.00	51.40	MS
ATOM	649	O	TYR	20	270.233	113.524	-2.387	1.00	93.46	MS13	ATOM	702	CB	ARG	28	268.744	115.423	6.593	1.00	51.40	MS
ATOM	650	N	ILE	21	271.329	114.456	-1.820	1.00	70.60	MS13	ATOM	703	CG	ARG	28						
ATOM	651	CA	ILE	21	271.329	114.456	-1.820	1.00	70.60	MS13	ATOM	704	CD	ARG	28						
ATOM	652	CB	ILE	21	271.329	114.456	-1.820	1.00	70.60	MS13	ATOM	705	NE	ARG	28						
ATOM	653	CG2	ILE	21	271.329	114.456	-1.820	1.00	70.60	MS13	ATOM	706	CZ	ARG	28						
ATOM	654	CG1	ILE	21	271.985	115.241	-2.959	1.00	70.60	MS13	ATOM	707	NH1	ARG	28						

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ATOM	708	NH2	ARG	28	268.965	116.044	8.792	1.00	51.40	MS13	ATOM	761	CE	LVS	35	275.132	125.175	8.987	1.00121.00	MS	
ATOM	709	C	ARG	28	270.307	122.039	3.050	1.00	75.09	MS13	ATOM	762	N2	LVS	35	274.731	123.969	9.772	1.00121.00	MS	
ATOM	710	O	ARG	28	271.528	122.078	3.179	1.00	75.09	MS13	ATOM	763	C	LVS	35	279.457	126.470	4.575	1.00	84.65	MS
ATOM	711	N	ALA	29	269.692	122.334	1.909	1.00	53.50	MS13	ATOM	764	O	LVS	35	280.583	126.681	5.022	1.00	84.65	MS
ATOM	712	CA	ALA	29	270.446	122.764	0.743	1.00	53.50	MS13	ATOM	765	N	THR	36	279.243	125.888	3.402	1.00	86.96	MS
ATOM	713	CB	ALA	29	269.551	122.821	-0.469	1.00	80.72	MS13	ATOM	766	CA	THR	36	280.335	125.457	2.542	1.00	86.96	MS
ATOM	714	C	ALA	29	271.025	124.145	1.040	1.00	53.50	MS13	ATOM	767	CB	THR	36	279.891	124.248	1.683	1.00	88.06	MS
ATOM	715	O	ALA	29	272.228	124.345	0.922	1.00	53.50	MS13	ATOM	768	OG1	THR	36	279.740	123.094	2.523	1.00	88.06	MS
ATOM	716	N	LVS	30	270.175	125.093	1.438	1.00	70.61	MS13	ATOM	769	CG2	THR	36	280.897	123.936	0.627	1.00	88.06	MS
ATOM	717	CA	LVS	30	270.640	126.445	1.774	1.00	70.61	MS13	ATOM	770	C	THR	36	280.759	126.634	1.662	1.00	86.96	MS
ATOM	718	CB	LVS	30	269.493	127.308	2.303	1.00114.35	MS13	ATOM	771	O	THR	36	281.475	126.481	0.679	1.00	86.96	MS	
ATOM	719	CG	LVS	30	268.371	127.553	1.313	1.00114.35	MS13	ATOM	772	N	GLY	37	280.311	127.822	2.042	1.00	73.48	MS	
ATOM	720	CD	LVS	30	267.276	128.416	1.937	1.00114.35	MS13	ATOM	773	CA	GLY	37	280.653	129.018	1.301	1.00	73.48	MS	
ATOM	721	CE	LVS	30	266.037	128.484	1.051	1.00114.35	MS13	ATOM	774	C	GLY	37	280.564	128.911	-0.206	1.00	73.48	MS	
ATOM	722	N2	LVS	30	264.947	129.292	1.671	1.00114.35	MS13	ATOM	775	O	GLY	37	281.494	129.286	-0.908	1.00	73.48	MS	
ATOM	723	C	LVS	30	271.733	126.379	2.842	1.00	70.61	MS13	ATOM	776	N	ILE	38	279.455	128.393	-0.715	1.00101.59	MS	
ATOM	724	O	LVS	30	272.606	127.241	2.908	1.00	70.61	MS13	ATOM	777	CA	ILE	38	279.275	128.277	-2.157	1.00101.59	MS	
ATOM	725	N	GLU	31	271.675	125.354	3.684	1.00	80.21	MS13	ATOM	778	CB	ILE	38	279.188	126.823	-2.612	1.00	45.94	MS
ATOM	726	CA	GLU	31	272.669	125.189	4.728	1.00	80.21	MS13	ATOM	779	CG2	ILE	38	279.169	126.774	-4.150	1.00	45.94	MS
ATOM	727	CB	GLU	31	272.240	124.091	5.700	1.00126.73	MS13	ATOM	780	CG1	ILE	38	280.340	126.017	-2.006	1.00	45.94	MS	
ATOM	728	CG	GLU	31	272.273	124.508	7.159	1.00126.73	MS13	ATOM	781	CD1	ILE	38	280.283	124.531	-2.314	1.00	45.94	MS	
ATOM	729	CD	GLU	31	272.074	123.339	8.110	1.00126.73	MS13	ATOM	782	C	ILE	38	277.947	128.914	-2.483	1.00101.59	MS		
ATOM	730	OE1	GLU	31	272.999	122.509	8.236	1.00126.73	MS13	ATOM	783	O	ILE	38	276.903	128.370	-2.128	1.00101.59	MS		
ATOM	731	OE2	GLU	31	270.991	123.248	8.729	1.00126.73	MS13	ATOM	784	N	ASN	39	277.962	130.062	-3.146	1.00	72.25	MS	
ATOM	732	C	GLU	31	274.005	124.816	4.093	1.00	80.21	MS13	ATOM	785	CA	ASN	39	276.693	130.693	-3.468	1.00	72.25	MS
ATOM	733	O	GLU	31	274.836	125.684	3.828	1.00	80.21	MS13	ATOM	786	CB	ASN	39	276.885	132.027	-4.188	1.00	78.81	MS
ATOM	734	N	ALA	32	274.197	123.521	3.844	1.00119.75	MS13	ATOM	787	CG	ASN	39	276.924	131.870	-5.687	1.00	78.81	MS	
ATOM	735	CA	ALA	32	275.432	123.006	3.253	1.00119.75	MS13	ATOM	788	OD1	ASN	39	277.799	131.197	-6.222	1.00	78.81	MS	
ATOM	736	CB	ALA	32	275.169	121.674	2.534	1.00	71.00	MS13	ATOM	789	ND2	ASN	39	275.968	132.481	-6.374	1.00	78.81	MS
ATOM	737	C	ALA	32	276.076	123.992	2.295	1.00119.75	MS13	ATOM	790	C	ASN	39	275.999	129.723	-4.395	1.00	72.25	MS	
ATOM	738	O	ALA	32	277.280	124.199	2.334	1.00119.75	MS13	ATOM	791	O	ASN	39	276.606	129.221	-5.340	1.00	72.25	MS	
ATOM	739	N	LEU	33	275.273	124.607	1.441	1.00	83.70	MS13	ATOM	792	N	PRO	40	274.726	129.415	-4.125	1.00	72.25	MS
ATOM	740	CA	LEU	33	275.801	125.567	0.488	1.00	83.70	MS13	ATOM	793	CD	PRO	40	273.793	129.960	-3.124	1.00	62.41	MS
ATOM	741	CB	LEU	33	274.687	126.056	-0.431	1.00	87.16	MS13	ATOM	794	CA	PRO	40	274.055	128.479	-5.023	1.00126.26	MS	
ATOM	742	CG	LEU	33	274.293	125.001	-1.464	1.00	87.16	MS13	ATOM	795	CB	PRO	40	272.718	128.249	-4.334	1.00	62.41	MS
ATOM	743	CD1	LEU	33	272.950	125.346	-2.052	1.00	87.16	MS13	ATOM	796	CG	PRO	40	272.451	129.579	-3.696	1.00	62.41	MS
ATOM	744	CD2	LEU	33	275.355	124.907	-2.547	1.00	87.16	MS13	ATOM	797	C	PRO	40	273.937	129.158	-6.379	1.00126.26	MS	
ATOM	745	C	LEU	33	276.461	126.748	1.178	1.00	83.70	MS13	ATOM	798	O	PRO	40	274.799	129.958	-6.737	1.00126.26	MS	
ATOM	746	O	LEU	33	277.658	126.991	1.015	1.00	83.70	MS13	ATOM	799	N	ALA	41	272.881	128.867	-7.128	1.00	59.16	MS
ATOM	747	N	GLU	34	275.674	127.480	1.952	1.00	75.13	MS13	ATOM	800	CA	ALA	41	272.726	129.469	-8.453	1.00	59.16	MS
ATOM	748	CA	GLU	34	276.168	128.643	2.674	1.00	75.13	MS13	ATOM	801	CB	ALA	41	272.872	130.991	-8.376	1.00	20.16	MS
ATOM	749	CB	GLU	34	275.024	129.268	3.459	1.00151.17	MS13	ATOM	802	C	ALA	41	273.779	128.893	-9.398	1.00	59.16	MS	
ATOM	750	CG	GLU	34	275.353	130.595	4.081	1.00151.17	MS13	ATOM	803	O	ALA	41	273.561	128.808	-10.603	1.00	59.16	MS	
ATOM	751	CD	GLU	34	274.103	131.346	4.461	1.00151.17	MS13	ATOM	804	N	THR	42	274.930	128.517	-8.848	1.00	58.55	MS	
ATOM	752	OE1	GLU	34	273.318	130.811	5.272	1.00151.17	MS13	ATOM	805	CA	THR	42	275.986	127.932	-9.655	1.00	58.55	MS	
ATOM	753	OE2	GLU	34	273.903	132.463	3.939	1.00151.17	MS13	ATOM	806	CB	THR	42	277.208	127.594	-8.802	1.00109.86	MS		
ATOM	754	C	GLU	34	277.324	128.304	3.614	1.00	75.13	MS13	ATOM	807	OG1	THR	42	276.775	127.235	-7.482	1.00109.86	MS	
ATOM	755	O	GLU	34	278.355	128.976	3.599	1.00	75.13	MS13	ATOM	808	CG2	THR	42	278.157	128.783	-8.740	1.00109.86	MS	
ATOM	756	N	LVS	35	277.155	127.271	4.434	1.00	84.65	MS13	ATOM	809	C	THR	42	275.424	126.658	-10.278	1.00	58.55	MS
ATOM	757	CB	LVS	35	278.211	126.872	5.355	1.00	84.65	MS13	ATOM	810	O	THR	42	274.815	125.824	-9.592	1.00	58.55	MS
ATOM	758	CA	LVS	35	277.750	125.707	6.222	1.00121.00	MS13	ATOM	811	N	ARG	43	275.649	126.519	-11.579	1.00	59.57	MS	
ATOM	759	CG	LVS	35	276.640	126.066	7.177	1.00121.00	MS13	ATOM	812	CA	ARG	43	275.133	125.398	-12.343	1.00	59.57	MS	
ATOM	760	CD	LVS	35	276.296	124.880	8.049	1.00121.00	MS13	ATOM	813	CB	ARG	43	275.306	125.696	-13.832	1.00	94.27	MS	

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ATOM	814	CG	ARG	43	274.053	125.456	-14.636	1.00	94.27	MS13	ATOM	867	OE2	GLU	49	286.424	120.873	-11.660	1.00	94.81	MS
ATOM	815	CD	ARG	43	272.903	126.273	-14.084	1.00	94.27	MS13	ATOM	868	C	GLU	49	286.441	120.888	-6.412	1.00	78.77	MS
ATOM	816	NE	ARG	43	271.620	125.804	-14.591	1.00	94.27	MS13	ATOM	869	O	GLU	49	285.922	120.179	-5.554	1.00	78.77	MS
ATOM	817	CZ	ARG	43	270.450	126.315	-14.228	1.00	94.27	MS13	ATOM	870	N	ALA	50	287.089	122.019	-6.142	1.00	91.88	MS
ATOM	818	NH1	ARG	43	270.404	127.314	-13.356	1.00	94.27	MS13	ATOM	871	CA	ALA	50	287.284	122.511	-4.783	1.00	91.88	MS
ATOM	819	NH2	ARG	43	269.329	125.828	-14.735	1.00	94.27	MS13	ATOM	872	CB	ALA	50	288.074	123.819	-4.816	1.00	56.79	MS
ATOM	820	C	ARG	43	275.655	123.996	-12.047	1.00	59.57	MS13	ATOM	873	C	ALA	50	285.954	122.714	-4.062	1.00	91.88	MS
ATOM	821	O	ARG	43	275.477	123.097	-12.862	1.00	59.57	MS13	ATOM	874	O	ALA	50	285.791	122.289	-2.917	1.00	91.88	MS
ATOM	822	N	VAL	44	276.268	123.782	-10.894	1.00	64.82	MS13	ATOM	875	N	GLU	51	285.009	123.375	-4.725	1.00	76.31	MS
ATOM	823	CA	VAL	44	276.784	122.448	-10.582	1.00	64.82	MS13	ATOM	876	CA	GLU	51	283.696	123.595	-4.130	1.00	76.31	MS
ATOM	824	CB	VAL	44	275.696	121.357	-10.673	1.00	59.90	MS13	ATOM	877	CB	GLU	51	282.809	124.420	-5.070	1.00	85.63	MS
ATOM	825	CG1	VAL	44	276.316	119.989	-10.411	1.00	59.90	MS13	ATOM	878	CG	GLU	51	283.362	125.799	-5.366	1.00	85.63	MS
ATOM	826	CG2	VAL	44	274.589	121.644	-9.676	1.00	59.90	MS13	ATOM	879	CD	GLU	51	282.566	126.554	-6.423	1.00	85.63	MS
ATOM	827	C	VAL	44	277.870	122.095	-11.577	1.00	64.82	MS13	ATOM	880	OE1	GLU	51	282.285	125.979	-7.502	1.00	85.63	MS
ATOM	828	O	VAL	44	279.052	122.095	-11.247	1.00	64.82	MS13	ATOM	881	OE2	GLU	51	282.236	127.737	-6.184	1.00	85.63	MS
ATOM	829	N	LYS	45	277.461	121.750	-12.793	1.00	73.90	MS13	ATOM	882	C	GLU	51	283.064	122.226	-3.879	1.00	76.31	MS
ATOM	830	CA	LYS	45	278.421	121.431	-13.835	1.00	73.90	MS13	ATOM	883	O	GLU	51	282.567	121.936	-2.785	1.00	76.31	MS
ATOM	831	CB	LYS	45	277.746	121.498	-15.210	1.00	81.40	MS13	ATOM	884	N	VAL	52	283.109	121.375	-4.896	1.00	52.95	MS
ATOM	832	CG	LYS	45	277.110	122.851	-15.507	1.00	81.40	MS13	ATOM	885	CA	VAL	52	282.541	120.046	-4.766	1.00	52.95	MS
ATOM	833	CD	LYS	45	276.361	122.874	-16.824	1.00	81.40	MS13	ATOM	886	CB	VAL	52	282.714	119.225	-6.044	1.00	41.54	MS
ATOM	834	CE	LYS	45	277.296	122.779	-18.012	1.00	81.40	MS13	ATOM	887	CG1	VAL	52	281.990	117.894	-5.904	1.00	41.54	MS
ATOM	835	NZ	LYS	45	276.537	122.715	-19.296	1.00	81.40	MS13	ATOM	888	C	VAL	52	282.185	120.011	-7.232	1.00	41.54	MS
ATOM	836	C	LYS	45	279.485	122.522	-13.725	1.00	73.90	MS13	ATOM	889	C	VAL	52	283.168	119.263	-3.628	1.00	52.95	MS
ATOM	837	O	LYS	45	280.690	122.241	-13.692	1.00	73.90	MS13	ATOM	890	O	VAL	53	282.643	118.733	-3.228	1.00	52.95	MS
ATOM	838	N	ASP	46	279.004	123.765	-13.625	1.00	78.61	MS13	ATOM	891	N	VAL	53	284.294	119.733	-3.107	1.00	70.79	MS
ATOM	839	CA	ASP	46	279.843	124.953	-13.528	1.00	78.61	MS13	ATOM	892	CA	VAL	53	284.932	119.010	-2.017	1.00	70.79	MS
ATOM	840	CB	ASP	46	279.055	126.197	-13.960	1.00	50.21	MS13	ATOM	893	CG	VAL	53	286.443	119.350	-1.893	1.00	78.15	MS
ATOM	841	CG	ASP	46	278.705	126.186	-15.444	1.00	50.21	MS13	ATOM	894	CG1	VAL	53	287.133	118.367	-0.948	1.00	78.15	MS
ATOM	842	OD1	ASP	46	279.619	125.983	-16.267	1.00	50.21	MS13	ATOM	895	CG2	VAL	53	287.094	119.316	-3.245	1.00	78.15	MS
ATOM	843	OD2	ASP	46	277.519	126.388	-15.779	1.00	50.21	MS13	ATOM	896	C	VAL	53	284.231	119.414	-0.731	1.00	70.79	MS
ATOM	844	C	ASP	46	280.426	125.186	-12.137	1.00	78.61	MS13	ATOM	897	O	VAL	53	283.657	118.581	-0.032	1.00	70.79	MS
ATOM	845	O	ASP	46	280.884	126.289	-11.838	1.00	88.20	MS13	ATOM	898	N	ARG	54	284.283	120.705	-0.429	1.00	94.03	MS
ATOM	846	N	LEU	47	280.414	124.161	-11.289	1.00	88.20	MS13	ATOM	899	CA	ARG	54	283.659	121.229	0.773	1.00	94.03	MS
ATOM	847	CA	LEU	47	280.969	124.295	-9.944	1.00	88.20	MS13	ATOM	900	CB	ARG	54	283.665	122.755	0.727	1.00	73.03	MS
ATOM	848	CB	LEU	47	280.500	123.150	-9.041	1.00	52.74	MS13	ATOM	901	CG	ARG	54	285.010	123.374	0.491	1.00	73.03	MS
ATOM	849	CG	LEU	47	279.101	123.244	-8.410	1.00	52.74	MS13	ATOM	902	CD	ARG	54	284.893	124.880	0.445	1.00	73.03	MS
ATOM	850	CD1	LEU	47	278.756	121.905	-7.767	1.00	52.74	MS13	ATOM	903	NE	ARG	54	284.458	125.373	-0.857	1.00	73.03	MS
ATOM	851	CD2	LEU	47	279.046	124.386	-7.385	1.00	52.74	MS13	ATOM	904	CZ	ARG	54	283.986	126.603	-1.063	1.00	73.03	MS
ATOM	852	C	LEU	47	282.483	124.282	-10.022	1.00	88.20	MS13	ATOM	905	NH1	ARG	54	283.889	127.453	-0.047	1.00	73.03	MS
ATOM	853	O	LEU	47	283.058	124.671	-11.037	1.00	88.20	MS13	ATOM	906	NH2	ARG	54	283.612	126.994	-2.280	1.00	73.03	MS
ATOM	854	N	THR	48	283.121	123.839	-8.944	1.00	65.15	MS13	ATOM	907	C	ARG	54	282.219	120.722	0.872	1.00	94.03	MS
ATOM	855	CA	THR	48	284.579	123.749	-8.870	1.00	65.15	MS13	ATOM	908	O	ARG	54	281.814	120.144	1.885	1.00	94.03	MS
ATOM	856	CB	THR	48	285.211	124.986	-8.213	1.00	50.69	MS13	ATOM	909	N	LEU	55	281.459	120.943	-0.200	1.00	73.91	MS
ATOM	857	OG1	THR	48	285.360	126.028	-9.184	1.00	50.69	MS13	ATOM	910	CA	LEU	55	280.067	120.532	-0.273	1.00	73.91	MS
ATOM	858	CG2	THR	48	286.562	124.638	-7.628	1.00	50.69	MS13	ATOM	911	CB	LEU	55	279.527	120.745	-1.688	1.00	54.95	MS
ATOM	859	C	THR	48	284.965	122.550	-8.034	1.00	65.15	MS13	ATOM	912	CG	LEU	55	278.096	121.302	-1.742	1.00	54.95	MS
ATOM	860	O	THR	48	284.465	122.378	-6.918	1.00	65.15	MS13	ATOM	913	CD1	LEU	55	277.595	121.357	-3.177	1.00	54.95	MS
ATOM	861	N	GLU	49	285.860	121.729	-8.576	1.00	78.77	MS13	ATOM	914	CD2	LEU	55	277.182	120.432	-0.895	1.00	54.95	MS
ATOM	862	CA	GLU	49	286.333	120.536	-7.886	1.00	78.77	MS13	ATOM	915	C	LEU	55	279.946	119.067	0.095	1.00	73.91	MS
ATOM	863	CB	GLU	49	287.702	120.121	-8.430	1.00	144.81	MS13	ATOM	916	O	LEU	55	279.315	118.718	-0.713	1.00	73.91	MS
ATOM	864	CG	GLU	49	287.735	119.847	-9.937	1.00	144.81	MS13	ATOM	917	N	ARG	56	280.563	118.214	-0.713	1.00	66.60	MS
ATOM	865	CD	GLU	49	287.303	121.046	-10.787	1.00	144.81	MS13	ATOM	918	CA	ARG	56	280.525	116.775	-0.493	1.00	66.60	MS
ATOM	866	OE1	GLU	49	287.843	122.157	-10.589	1.00	144.81	MS13	ATOM	919	CB	ARG	56	281.514	116.080	-1.418	1.00	90.28	MS

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ATOM	920	CG	ARG	56	281.652	114.621	-1.118	1.00	90.28	MS13	ATOM	973	N	THR	62	277.666	115.867	7.884	1.00	77.24	MS
ATOM	921	CD	ARG	56	282.653	113.980	-2.022	1.00	90.28	MS13	ATOM	974	CA	THR	62	276.919	116.764	8.741	1.00	77.24	MS
ATOM	922	NE	ARG	56	282.291	114.180	-3.417	1.00	90.28	MS13	ATOM	975	CB	THR	62	276.948	118.208	8.185	1.00	86.81	MS
ATOM	923	CH	ARG	56	282.972	113.674	-4.438	1.00	90.28	MS13	ATOM	976	OG1	THR	62	276.279	119.088	9.094	1.00	86.81	MS
ATOM	924	NH1	ARG	56	284.052	112.936	-4.208	1.00	90.28	MS13	ATOM	977	CG2	THR	62	276.267	118.282	6.836	1.00	86.81	MS
ATOM	925	NH2	ARG	56	282.572	113.907	-5.685	1.00	90.28	MS13	ATOM	978	C	THR	62	275.477	116.256	8.889	1.00	77.24	MS
ATOM	926	C	ARG	56	280.763	116.283	0.937	1.00	66.60	MS13	ATOM	979	O	THR	62	274.723	116.752	9.722	1.00	77.24	MS
ATOM	927	O	ARG	56	279.867	115.707	1.547	1.00	66.60	MS13	ATOM	980	N	TRP	63	275.111	115.250	8.091	1.00	100.09.37	MS
ATOM	928	N	GLU	57	281.957	116.490	1.480	1.00	119.82	MS13	ATOM	981	CA	TRP	63	273.769	114.657	8.134	1.00	100.09.37	MS
ATOM	929	CA	GLU	57	282.231	115.999	2.828	1.00	119.82	MS13	ATOM	982	CB	TRP	63	272.834	115.296	7.106	1.00	48.23	MS
ATOM	930	CB	GLU	57	283.744	115.949	3.092	1.00	182.41	MS13	ATOM	983	CG	TRP	63	272.520	116.718	7.348	1.00	48.23	MS
ATOM	931	CD	GLU	57	284.416	114.700	2.486	1.00	182.41	MS13	ATOM	984	CD2	TRP	63	272.693	117.796	6.425	1.00	48.23	MS
ATOM	932	CG	GLU	57	284.955	113.667	3.531	1.00	182.41	MS13	ATOM	985	CE2	TRP	63	272.284	118.979	7.082	1.00	48.23	MS
ATOM	933	OE1	GLU	57	284.157	113.496	4.551	1.00	182.41	MS13	ATOM	986	CE3	TRP	63	273.159	117.879	5.107	1.00	48.23	MS
ATOM	934	OE2	GLU	57	285.898	113.013	3.318	1.00	182.41	MS13	ATOM	987	CD1	TRP	63	272.019	117.266	8.494	1.00	48.23	MS
ATOM	935	C	GLU	57	281.502	116.714	3.959	1.00	119.82	MS13	ATOM	988	NE1	TRP	63	271.876	118.627	8.344	1.00	48.23	MS
ATOM	936	O	GLU	57	281.442	116.198	5.076	1.00	119.82	MS13	ATOM	989	CZ2	TRP	63	272.326	120.241	6.459	1.00	48.23	MS
ATOM	937	N	TYR	58	280.953	117.895	3.693	1.00	82.38	MS13	ATOM	990	CZ3	TRP	63	273.201	119.136	4.488	1.00	48.23	MS
ATOM	938	CA	TYR	58	280.186	118.572	4.734	1.00	82.38	MS13	ATOM	991	CH2	TRP	63	272.787	120.298	5.170	1.00	48.23	MS
ATOM	939	CB	TYR	58	279.833	120.006	4.353	1.00	93.55	MS13	ATOM	992	C	TRP	63	273.736	113.155	7.871	1.00	100.09.37	MS
ATOM	940	CG	TYR	58	278.841	120.612	5.318	1.00	93.55	MS13	ATOM	993	O	TRP	63	274.713	112.548	7.427	1.00	100.09.37	MS
ATOM	941	CD1	TYR	58	279.187	120.829	6.651	1.00	93.55	MS13	ATOM	994	N	LYS	64	272.572	112.579	8.141	1.00	93.30	MS
ATOM	942	CE1	TYR	58	278.280	121.360	7.558	1.00	93.55	MS13	ATOM	995	CA	LYS	64	272.308	111.164	7.931	1.00	93.30	MS
ATOM	943	CD2	TYR	58	277.552	120.943	4.912	1.00	93.55	MS13	ATOM	996	CB	LYS	64	271.428	110.657	9.067	1.00	95.94	MS
ATOM	944	CE2	TYR	58	276.634	121.475	5.814	1.00	93.55	MS13	ATOM	997	CG	LYS	64	271.560	109.194	9.381	1.00	95.94	MS
ATOM	945	CZ	TYR	58	277.009	121.679	7.135	1.00	93.55	MS13	ATOM	998	CD	LYS	64	270.972	108.939	10.756	1.00	95.94	MS
ATOM	946	OH	TYR	58	276.115	122.194	8.040	1.00	93.55	MS13	ATOM	999	CE	LYS	64	271.238	107.526	11.229	1.00	95.94	MS
ATOM	947	C	TYR	58	278.897	117.778	4.814	1.00	82.38	MS13	ATOM	1000	NZ	LYS	64	270.878	107.356	12.664	1.00	95.94	MS
ATOM	948	O	TYR	58	278.574	117.179	5.835	1.00	82.38	MS13	ATOM	1001	C	LYS	64	271.534	111.211	6.615	1.00	93.30	MS
ATOM	949	N	VAL	59	278.177	117.782	3.697	1.00	86.07	MS13	ATOM	1002	O	LYS	64	270.420	111.741	6.563	1.00	93.30	MS
ATOM	950	CA	VAL	59	276.920	117.069	3.549	1.00	86.07	MS13	ATOM	1003	N	LEU	65	272.117	110.674	5.552	1.00	65.25	MS
ATOM	951	CB	VAL	59	276.501	117.025	2.064	1.00	62.36	MS13	ATOM	1004	CA	LEU	65	271.466	110.748	4.256	1.00	65.25	MS
ATOM	952	CG1	VAL	59	275.294	116.137	1.887	1.00	62.36	MS13	ATOM	1005	CB	LEU	65	272.256	111.701	3.369	1.00	70.05	MS
ATOM	953	CG2	VAL	59	276.200	118.426	1.575	1.00	62.36	MS13	ATOM	1006	CG	LEU	65	272.288	113.129	3.917	1.00	70.05	MS
ATOM	954	C	VAL	59	277.000	115.637	4.072	1.00	86.07	MS13	ATOM	1007	CD1	LEU	65	273.352	113.983	3.219	1.00	70.05	MS
ATOM	955	O	VAL	59	276.259	115.252	4.974	1.00	86.07	MS13	ATOM	1008	CD2	LEU	65	270.900	113.717	3.735	1.00	70.05	MS
ATOM	956	N	GLU	60	277.905	114.850	3.507	1.00	83.86	MS13	ATOM	1009	C	LEU	65	271.233	109.457	3.497	1.00	65.25	MS
ATOM	957	CA	GLU	60	278.044	113.459	3.910	1.00	83.86	MS13	ATOM	1010	O	LEU	65	271.589	108.362	3.941	1.00	65.25	MS
ATOM	958	CB	GLU	60	279.083	112.766	3.033	1.00	109.17	MS13	ATOM	1011	N	GLU	66	270.609	109.616	2.336	1.00	73.19	MS
ATOM	959	CG	GLU	60	278.724	112.743	1.563	1.00	109.17	MS13	ATOM	1012	CA	GLU	66	270.313	108.513	1.443	1.00	73.19	MS
ATOM	960	CD	GLU	60	279.750	111.995	0.733	1.00	109.17	MS13	ATOM	1013	CB	GLU	66	271.462	108.351	0.452	1.00	61.43	MS
ATOM	961	OE1	GLU	60	279.876	110.760	0.898	1.00	109.17	MS13	ATOM	1014	CG	GLU	66	271.380	108.269	-0.743	1.00	61.43	MS
ATOM	962	OE2	GLU	60	280.436	112.642	-0.082	1.00	109.17	MS13	ATOM	1015	CD	GLU	66	270.181	108.942	-1.615	1.00	61.43	MS
ATOM	963	C	GLU	60	278.399	113.241	5.376	1.00	83.86	MS13	ATOM	1016	OE1	GLU	66	269.863	107.732	-1.768	1.00	61.43	MS
ATOM	964	O	GLU	60	278.219	112.138	5.906	1.00	83.86	MS13	ATOM	1017	OE2	GLU	66	269.562	109.880	-2.153	1.00	61.43	MS
ATOM	965	N	ASN	61	278.896	114.277	6.043	1.00	83.84	MS13	ATOM	1018	C	GLU	66	270.027	107.178	2.119	1.00	73.19	MS
ATOM	966	CA	ASN	61	279.274	114.118	7.439	1.00	83.84	MS13	ATOM	1019	O	GLU	66	269.382	107.122	3.166	1.00	73.19	MS
ATOM	967	CB	ASN	61	280.788	114.265	7.589	1.00	100.33.05	MS13	ATOM	1020	N	GLY	67	270.519	106.114	1.491	1.00	70.94	MS
ATOM	968	CG	ASN	61	281.537	113.083	7.013	1.00	100.33.05	MS13	ATOM	1021	CA	GLY	67	270.331	104.756	1.973	1.00	70.94	MS
ATOM	969	OD1	ASN	61	281.388	111.951	5.477	1.00	100.33.05	MS13	ATOM	1022	C	GLY	67	270.385	104.462	3.462	1.00	70.94	MS
ATOM	970	ND2	ASN	61	282.337	113.335	5.990	1.00	83.84	MS13	ATOM	1023	O	GLY	67	269.917	103.401	3.884	1.00	70.94	MS
ATOM	971	C	ASN	61	278.559	115.039	8.404	1.00	83.84	MS13	ATOM	1024	N	GLU	68	270.949	105.363	4.263	1.00	102.48	MS
ATOM	972	O	ASN	61	278.805	114.998	9.609	1.00	83.84	MS13	ATOM	1025	CA	GLU	68	271.014	105.124	5.701	1.00	102.48	MS

ATOM	1026	CB	GLU	68	272.102	105.969	6.347	1.00147.89	MS13	ATOM	1079	CA	ALA	75	263.734	100.348	11.314	1.00	95.96	MS	
ATOM	1027	CG	GLU	68	272.567	105.400	7.667	1.00147.89	MS13	ATOM	1080	CB	ALA	75	265.146	100.675	11.751	1.00102.73	MS		
ATOM	1028	CD	GLU	68	273.488	106.337	8.407	1.00147.89	MS13	ATOM	1081	C	ALA	75	262.744	100.840	12.360	1.00	95.96	MS	
ATOM	1029	OE1	GLU	68	274.311	107.005	7.747	1.00147.89	MS13	ATOM	1082	O	ALA	75	262.222	100.047	13.145	1.00	95.96	MS	
ATOM	1030	OE2	GLU	68	273.395	106.397	9.650	1.00147.89	MS13	ATOM	1083	N	ASN	76	262.501	102.148	12.383	1.00	91.62	MS	
ATOM	1031	C	GLU	68	269.667	105.465	6.325	1.00102.48	MS13	ATOM	1084	CA	ASN	76	261.558	102.722	13.338	1.00	91.62	MS	
ATOM	1032	O	GLU	68	269.211	104.792	7.250	1.00102.48	MS13	ATOM	1085	CB	ASN	76	261.386	104.223	13.100	1.00	85.65	MS	
ATOM	1033	N	LEU	69	269.046	106.526	5.816	1.00	82.95	MS13	ATOM	1086	CG	ASN	76	262.679	104.993	13.258	1.00	85.65	MS
ATOM	1034	CA	LEU	69	267.732	106.957	6.280	1.00	82.95	MS13	ATOM	1087	OD1	ASN	76	263.103	105.653	12.188	1.00	85.65	MS
ATOM	1036	CG	LEU	69	267.587	109.576	6.033	1.00	61.17	MS13	ATOM	1089	C	ASN	76	260.216	102.039	13.141	1.00	91.62	MS
ATOM	1037	CD1	LEU	69	266.775	110.597	5.233	1.00	61.17	MS13	ATOM	1090	O	ASN	76	259.660	101.450	14.068	1.00	91.62	MS
ATOM	1038	CD2	LEU	69	267.220	109.647	7.506	1.00	61.17	MS13	ATOM	1091	N	ILE	77	259.709	102.115	11.916	1.00	67.21	MS
ATOM	1039	C	LEU	69	266.716	105.846	6.030	1.00	82.95	MS13	ATOM	1092	CA	ILE	77	258.431	101.513	11.571	1.00	67.21	MS
ATOM	1040	O	LEU	69	266.042	105.365	6.944	1.00	82.95	MS13	ATOM	1093	CB	ILE	77	258.170	101.644	10.064	1.00	65.28	MS
ATOM	1041	N	ARG	70	265.600	105.462	4.765	1.00	83.96	MS13	ATOM	1094	CG2	ILE	77	258.732	101.268	9.749	1.00	65.28	MS
ATOM	1042	CA	ARG	70	265.676	104.420	4.369	1.00	83.96	MS13	ATOM	1095	CG1	ILE	77	258.421	103.092	9.632	1.00	65.28	MS
ATOM	1043	CB	ARG	70	266.041	103.918	2.977	1.00	93.03	MS13	ATOM	1096	CD1	ILE	77	258.251	103.337	8.154	1.00	65.28	MS
ATOM	1044	CG	ARG	70	266.007	105.018	1.932	1.00	93.03	MS13	ATOM	1097	C	ILE	77	258.375	100.042	11.987	1.00	67.21	MS
ATOM	1045	C	ARG	70	266.550	104.540	0.600	1.00	93.03	MS13	ATOM	1098	O	ILE	77	257.301	99.482	12.174	1.00	67.21	MS
ATOM	1046	NE	ARG	70	266.532	105.603	-0.397	1.00	93.03	MS13	ATOM	1099	N	LVS	78	259.536	99.420	12.138	1.00	68.27	MS
ATOM	1047	CZ	ARG	70	265.423	106.076	-0.951	1.00	93.03	MS13	ATOM	1100	CA	LVS	78	259.595	98.027	12.555	1.00	68.27	MS
ATOM	1048	NH1	ARG	70	264.244	105.573	-0.608	1.00	93.03	MS13	ATOM	1101	CB	LVS	78	260.990	97.458	12.281	1.00	80.28	MS
ATOM	1049	CD	ARG	70	265.493	107.062	-1.835	1.00	93.03	MS13	ATOM	1102	CG	LVS	78	261.026	96.060	11.663	1.00	80.28	MS
ATOM	1050	C	ARG	70	265.732	103.293	5.381	1.00	83.96	MS13	ATOM	1103	CD	LVS	78	260.581	94.984	12.624	1.00	80.28	MS
ATOM	1051	O	ARG	70	264.719	102.672	5.689	1.00	83.96	MS13	ATOM	1104	CE	LVS	78	260.972	93.605	12.114	1.00	80.28	MS
ATOM	1052	N	ALA	71	266.926	103.041	5.904	1.00	72.18	MS13	ATOM	1105	N2	LVS	78	260.756	92.519	13.126	1.00	80.28	MS
ATOM	1053	CA	ALA	71	267.118	102.000	6.909	1.00	72.18	MS13	ATOM	1106	C	LVS	78	259.311	97.993	14.054	1.00	68.27	MS
ATOM	1054	CB	ALA	71	268.597	101.695	7.060	1.00	91.64	MS13	ATOM	1107	O	LVS	78	258.441	97.259	14.518	1.00	68.27	MS
ATOM	1055	C	ALA	71	266.551	102.541	8.220	1.00	72.18	MS13	ATOM	1108	N	ARG	79	260.046	98.812	14.797	1.00	73.69	MS
ATOM	1056	O	ALA	71	265.674	101.930	8.840	1.00	72.18	MS13	ATOM	1109	CA	ARG	79	259.918	98.897	16.246	1.00	73.69	MS
ATOM	1057	N	GLU	72	267.076	103.695	8.625	1.00	74.43	MS13	ATOM	1110	CB	ARG	79	260.716	100.091	16.771	1.00138.03	MS	
ATOM	1058	CA	GLU	72	266.639	104.393	9.824	1.00	74.43	MS13	ATOM	1111	CG	ARG	79	262.170	100.061	16.381	1.00138.03	MS	
ATOM	1059	CB	GLU	72	267.008	105.873	9.693	1.00124.21	MS13	ATOM	1112	CD	ARG	79	262.850	101.387	16.645	1.00138.03	MS		
ATOM	1060	CG	GLU	72	266.400	106.785	10.736	1.00124.21	MS13	ATOM	1113	CE	ARG	79	264.176	101.407	16.040	1.00138.03	MS		
ATOM	1061	CD	GLU	72	267.074	106.654	12.076	1.00124.21	MS13	ATOM	1114	N2	ARG	79	264.939	102.489	15.943	1.00138.03	MS		
ATOM	1062	OE1	GLU	72	266.666	107.371	13.017	1.00124.21	MS13	ATOM	1115	NH1	ARG	79	264.506	103.649	16.416	1.00138.03	MS		
ATOM	1063	OE2	GLU	72	268.013	105.835	12.182	1.00124.21	MS13	ATOM	1116	NH2	ARG	79	266.132	102.411	15.367	1.00138.03	MS		
ATOM	1064	C	GLU	72	265.123	104.239	9.909	1.00	74.43	MS13	ATOM	1117	C	ARG	79	258.478	99.018	16.727	1.00	73.69	MS
ATOM	1065	O	GLU	72	264.606	103.394	10.647	1.00	74.43	MS13	ATOM	1118	O	ARG	79	257.869	98.036	17.169	1.00	73.69	MS
ATOM	1066	N	VAL	73	264.428	105.052	9.120	1.00	76.60	MS13	ATOM	1119	N	LEU	80	257.941	100.233	16.655	1.00140.63	MS	
ATOM	1067	CA	VAL	73	262.972	105.053	9.053	1.00	76.60	MS13	ATOM	1120	CA	LEU	80	256.579	100.500	17.108	1.00140.63	MS	
ATOM	1068	CB	VAL	73	262.497	105.784	7.768	1.00	70.60	MS13	ATOM	1121	CB	LEU	80	256.149	101.914	16.692	1.00	63.13	MS
ATOM	1069	CG1	VAL	73	261.065	105.423	7.438	1.00	70.60	MS13	ATOM	1122	CG	LEU	80	255.853	102.152	15.218	1.00	63.13	MS
ATOM	1070	CG2	VAL	73	262.611	107.287	7.969	1.00	70.60	MS13	ATOM	1123	CD1	LEU	80	255.943	103.653	14.941	1.00	63.13	MS
ATOM	1071	C	VAL	73	262.372	103.652	9.089	1.00	76.60	MS13	ATOM	1124	CD2	LEU	80	256.838	101.368	14.351	1.00	63.13	MS
ATOM	1072	O	VAL	73	261.600	103.318	9.993	1.00	76.60	MS13	ATOM	1125	C	LEU	80	255.614	99.455	16.559	1.00140.63	MS	
ATOM	1073	N	ALA	74	262.725	102.839	8.105	1.00	59.35	MS13	ATOM	1126	O	LEU	80	254.532	99.240	17.100	1.00140.63	MS	
ATOM	1074	CA	ALA	74	262.202	101.479	8.029	1.00	59.35	MS13	ATOM	1127	N	MET	81	256.017	98.800	15.481	1.00	70.68	MS
ATOM	1075	CB	ALA	74	262.975	100.680	6.982	1.00	49.45	MS13	ATOM	1128	CA	MET	81	255.187	97.763	14.899	1.00	70.68	MS
ATOM	1076	C	ALA	74	262.300	100.807	9.391	1.00	59.35	MS13	ATOM	1129	CB	MET	81	255.616	97.496	13.459	1.00	80.81	MS
ATOM	1077	O	ALA	74	261.336	100.203	9.870	1.00	59.35	MS13	ATOM	1130	CG	MET	81	254.609	96.720	12.650	1.00	80.81	MS
ATOM	1078	N	ALA	75	263.471	100.933	10.008	1.00	95.96	MS13	ATOM	1131	SD	MET	81	255.144	96.586	10.940	1.00	80.81	MS

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ATOM	1132	CE	MET	81	255.121	98.301	10.455	1.00	80.81	MS13	ATOM	1185	CA	GLY	88	252.420	99.901	14.746	1.00	67.00	MS
ATOM	1133	C	MET	81	255.356	96.498	15.747	1.00	70.68	MS13	ATOM	1186	C	GLY	88	251.366	99.120	13.981	1.00	67.00	MS
ATOM	1134	O	MET	81	254.391	95.783	16.016	1.00	70.68	MS13	ATOM	1187	O	GLY	88	251.554	98.794	12.805	1.00	67.00	MS
ATOM	1135	N	ASP	82	256.593	96.243	16.173	1.00	111.99	MS13	ATOM	1188	N	LEU	89	250.253	98.816	14.644	1.00	69.98	MS
ATOM	1136	CA	ASP	82	256.927	95.080	16.996	1.00	111.99	MS13	ATOM	1189	CA	LEU	89	249.183	98.061	14.002	1.00	69.98	MS
ATOM	1137	CB	ASP	82	258.433	94.899	17.064	1.00	92.80	MS13	ATOM	1190	CB	LEU	89	247.983	97.898	14.940	1.00	83.24	MS
ATOM	1138	CG	ASP	82	259.038	94.685	15.717	1.00	92.80	MS13	ATOM	1191	CG	LEU	89	248.203	97.196	16.287	1.00	83.24	MS
ATOM	1139	OD1	ASP	82	258.551	93.787	14.993	1.00	92.80	MS13	ATOM	1192	CD1	LEU	89	246.845	96.857	16.880	1.00	83.24	MS
ATOM	1140	OD2	ASP	82	259.998	95.413	15.387	1.00	92.80	MS13	ATOM	1193	CD2	LEU	89	249.042	95.922	16.117	1.00	83.24	MS
ATOM	1141	C	ASP	82	256.385	95.163	18.415	1.00	111.99	MS13	ATOM	1194	C	LEU	89	248.741	98.759	12.733	1.00	69.98	MS
ATOM	1142	O	ASP	82	256.684	94.319	19.257	1.00	111.99	MS13	ATOM	1195	O	LEU	89	248.647	98.136	11.680	1.00	69.98	MS
ATOM	1143	N	ILE	83	255.619	96.203	18.692	1.00	80.36	MS13	ATOM	1196	N	ARG	90	248.475	100.058	12.830	1.00	64.17	MS
ATOM	1144	CA	ILE	83	255.009	96.342	19.996	1.00	80.36	MS13	ATOM	1197	CA	ARG	90	248.046	100.821	11.667	1.00	64.17	MS
ATOM	1145	CB	ILE	83	255.735	97.423	20.843	1.00	59.08	MS13	ATOM	1198	CB	ARG	90	248.020	102.318	11.985	1.00	75.40	MS
ATOM	1146	CG2	ILE	83	257.226	97.127	20.839	1.00	59.08	MS13	ATOM	1199	CG	ARG	90	247.104	102.682	13.143	1.00	75.40	MS
ATOM	1147	CG1	ILE	83	255.522	98.825	20.260	1.00	59.08	MS13	ATOM	1200	CD	ARG	90	245.664	102.283	12.859	1.00	75.40	MS
ATOM	1148	CD1	ILE	83	256.132	99.947	21.090	1.00	59.08	MS13	ATOM	1201	NE	ARG	90	245.068	103.114	11.814	1.00	75.40	MS
ATOM	1149	C	ILE	83	253.563	96.705	19.667	1.00	80.36	MS13	ATOM	1202	CZ	ARG	90	243.841	102.948	11.317	1.00	75.40	MS
ATOM	1150	O	ILE	83	253.311	97.466	18.729	1.00	80.36	MS13	ATOM	1203	NH1	ARG	90	243.054	101.973	11.766	1.00	75.40	MS
ATOM	1151	N	GLY	84	252.622	96.110	20.396	1.00	83.25	MS13	ATOM	1204	NH2	ARG	90	243.401	103.763	10.364	1.00	75.40	MS
ATOM	1152	CA	GLY	84	251.206	96.354	20.156	1.00	83.25	MS13	ATOM	1205	C	ARG	90	248.998	100.537	10.514	1.00	64.17	MS
ATOM	1153	C	GLY	84	250.880	97.917	18.929	1.00	83.25	MS13	ATOM	1206	O	ARG	90	248.564	100.244	9.406	1.00	64.17	MS
ATOM	1154	O	GLY	84	249.877	97.917	18.929	1.00	83.25	MS13	ATOM	1207	N	HIS	91	250.299	100.610	10.776	1.00	71.21	MS
ATOM	1155	N	CYS	85	251.737	98.698	19.941	1.00	51.79	MS13	ATOM	1208	CA	HIS	91	251.283	100.333	9.736	1.00	71.21	MS
ATOM	1156	CA	CYS	85	251.595	100.085	19.517	1.00	51.79	MS13	ATOM	1209	CB	HIS	91	252.704	100.452	10.280	1.00	55.13	MS
ATOM	1157	CB	CYS	85	252.955	102.617	19.059	1.00	92.51	MS13	ATOM	1210	CG	HIS	91	253.273	101.830	10.180	1.00	55.13	MS
ATOM	1158	SG	CYS	85	252.945	102.300	18.421	1.00	92.51	MS13	ATOM	1211	CD2	HIS	91	253.429	102.681	11.132	1.00	55.13	MS
ATOM	1159	C	CYS	85	250.562	100.304	18.415	1.00	51.79	MS13	ATOM	1212	ND1	HIS	91	253.969	103.670	8.975	1.00	55.13	MS
ATOM	1160	O	CYS	85	250.686	99.771	17.303	1.00	51.79	MS13	ATOM	1213	CE1	HIS	91	254.152	103.818	10.490	1.00	55.13	MS
ATOM	1161	N	TYR	86	249.538	101.090	18.734	1.00	66.57	MS13	ATOM	1214	NE2	HIS	91	251.080	98.933	9.189	1.00	71.21	MS
ATOM	1162	CA	TYR	86	248.490	101.394	17.774	1.00	66.57	MS13	ATOM	1215	C	HIS	91	250.998	98.735	7.980	1.00	71.21	MS
ATOM	1163	CB	TYR	86	247.684	102.614	18.240	1.00	94.71	MS13	ATOM	1216	O	HIS	92	250.987	98.735	10.085	1.00	71.34	MS1
ATOM	1164	CG	TYR	86	246.541	102.972	17.314	1.00	94.71	MS13	ATOM	1217	N	ARG	92	250.806	96.575	9.676	1.00	71.34	MS1
ATOM	1165	CD1	TYR	86	245.508	102.067	17.064	1.00	94.71	MS13	ATOM	1218	CA	ARG	92	250.661	95.680	10.903	1.00	119.16	MS1
ATOM	1166	CE1	TYR	86	244.477	102.379	16.186	1.00	94.71	MS13	ATOM	1219	CB	ARG	92	251.001	94.229	10.643	1.00	119.16	MS1
ATOM	1167	CD2	TYR	86	246.509	104.201	16.664	1.00	94.71	MS13	ATOM	1220	CG	ARG	92	250.881	93.439	11.919	1.00	119.16	MS1
ATOM	1168	CE2	TYR	86	245.483	104.524	15.785	1.00	94.71	MS13	ATOM	1221	CD	ARG	92	251.443	94.172	13.049	1.00	119.16	MS1
ATOM	1169	CZ	TYR	86	243.465	103.923	14.663	1.00	94.71	MS13	ATOM	1222	NE	ARG	92	250.821	93.734	14.303	1.00	119.16	MS1
ATOM	1170	OH	TYR	86	249.192	101.697	16.462	1.00	66.57	MS13	ATOM	1223	CZ	ARG	92	251.421	93.734	14.583	1.00	119.16	MS1
ATOM	1171	C	TYR	86	249.064	100.965	15.479	1.00	66.57	MS13	ATOM	1224	NH1	ARG	92	250.866	92.561	15.277	1.00	119.16	MS1
ATOM	1172	O	TYR	86	249.952	102.782	16.481	1.00	65.34	MS13	ATOM	1225	NH2	ARG	92	251.940	94.472	15.277	1.00	119.16	MS1
ATOM	1173	N	ARG	87	250.724	103.230	15.335	1.00	65.34	MS13	ATOM	1226	C	ARG	92	249.590	96.405	8.773	1.00	71.34	MS1
ATOM	1174	CA	ARG	87	251.887	104.085	15.835	1.00	83.27	MS13	ATOM	1227	O	ARG	92	249.631	95.635	7.811	1.00	71.34	MS1
ATOM	1175	CB	ARG	87	252.567	104.949	14.806	1.00	83.27	MS13	ATOM	1228	N	ARG	93	248.516	97.126	9.089	1.00	70.63	MS1
ATOM	1176	CG	ARG	87	252.256	106.408	15.059	1.00	83.27	MS13	ATOM	1229	CA	ARG	93	247.279	97.067	8.317	1.00	70.63	MS1
ATOM	1177	CD	ARG	87	253.379	107.290	14.750	1.00	83.27	MS13	ATOM	1230	CB	ARG	93	246.110	97.633	9.131	1.00	142.95	MS1
ATOM	1178	NE	ARG	87	254.561	107.256	15.364	1.00	83.27	MS13	ATOM	1231	CD	ARG	93	245.421	96.628	10.034	1.00	142.95	MS1
ATOM	1179	CZ	ARG	87	254.790	106.379	16.334	1.00	83.27	MS13	ATOM	1232	CG	ARG	93	244.699	95.579	9.213	1.00	142.95	MS1
ATOM	1180	NH1	ARG	87	255.508	108.119	15.024	1.00	83.27	MS13	ATOM	1233	NE	ARG	93	243.129	94.529	10.049	1.00	142.95	MS1
ATOM	1181	NH2	ARG	87	251.253	101.996	14.603	1.00	65.34	MS13	ATOM	1234	CZ	ARG	93	243.568	93.417	9.577	1.00	142.95	MS1
ATOM	1182	C	ARG	87	251.079	101.848	13.394	1.00	65.34	MS13	ATOM	1235	NH1	ARG	93	243.499	93.207	8.266	1.00	142.95	MS1
ATOM	1183	O	ARG	87	251.888	101.103	15.350	1.00	67.00	MS13	ATOM	1236	NH2	ARG	93	243.084	92.508	10.416	1.00	142.95	MS1
ATOM	1184	N	GLY	88						MS13	ATOM	1237	C	ARG	93	247.387	97.837	7.012	1.00	70.63	MS1

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ATOM	1238	O	ARG	93	246.717	97.513	6.036	1.00	70.63	MS13	ATOM	1291	CB	ARG	101	238.518	109.821	7.080	1.00	65.04	MS
ATOM	1239	N	GLY	94	248.239	98.852	6.992	1.00	69.41	MS13	ATOM	1292	CG	ARG	101	237.515	110.884	7.454	1.00	65.04	MS
ATOM	1240	CA	GLY	94	248.379	99.650	5.793	1.00	69.41	MS13	ATOM	1293	CD	ARG	101	236.238	110.652	6.659	1.00	65.04	MS
ATOM	1241	C	GLY	94	247.296	100.715	5.750	1.00	69.41	MS13	ATOM	1294	NE	ARG	101	235.160	111.560	7.035	1.00	65.04	MS
ATOM	1242	O	GLY	94	246.810	101.090	4.679	1.00	69.41	MS13	ATOM	1295	CZ	ARG	101	233.874	111.359	6.751	1.00	65.04	MS
ATOM	1243	N	LEU	95	246.911	101.194	6.930	1.00	62.71	MS13	ATOM	1296	NH1	ARG	101	233.487	110.275	6.087	1.00	65.04	MS
ATOM	1244	CA	LEU	95	245.894	102.230	7.066	1.00	62.71	MS13	ATOM	1297	NH2	ARG	101	232.968	112.253	7.125	1.00	65.04	MS
ATOM	1245	CB	LEU	95	244.734	101.711	7.907	1.00	56.58	MS13	ATOM	1298	C	ARG	101	239.697	107.769	7.830	1.00	68.99	MS
ATOM	1246	CG	LEU	95	243.887	100.625	7.231	1.00	56.58	MS13	ATOM	1299	O	ARG	101	240.774	107.292	8.180	1.00	68.99	MS
ATOM	1247	CD1	LEU	95	242.822	100.116	8.186	1.00	56.58	MS13	ATOM	1300	N	THR	102	238.840	107.102	7.079	1.00	68.07	MS
ATOM	1248	CD2	LEU	95	243.233	101.203	5.979	1.00	56.58	MS13	ATOM	1301	CA	THR	102	239.106	105.753	6.608	1.00	68.07	MS
ATOM	1249	C	LEU	95	246.347	103.431	7.733	1.00	62.71	MS13	ATOM	1302	CB	THR	102	239.265	104.763	7.760	1.00	61.47	MS
ATOM	1250	O	LEU	95	247.437	103.266	8.561	1.00	62.71	MS13	ATOM	1303	OG1	THR	102	238.968	105.430	8.986	1.00	61.47	MS
ATOM	1251	N	PRO	96	246.108	104.654	7.391	1.00	49.77	MS13	ATOM	1304	CG2	THR	102	240.685	104.211	7.816	1.00	61.47	MS
ATOM	1252	CD	PRO	96	244.848	104.955	6.694	1.00	40.80	MS13	ATOM	1305	C	THR	102	237.841	105.412	5.878	1.00	68.07	MS
ATOM	1253	CA	PRO	96	246.687	105.873	7.974	1.00	40.80	MS13	ATOM	1306	O	THR	102	237.845	104.692	4.881	1.00	68.07	MS
ATOM	1254	CB	PRO	96	245.668	106.966	7.625	1.00	40.80	MS13	ATOM	1307	N	ARG	103	236.750	105.963	6.395	1.00	40.37	MS
ATOM	1255	CG	PRO	96	244.407	106.215	7.387	1.00	40.80	MS13	ATOM	1308	CB	ARG	103	235.445	105.751	5.825	1.00	40.37	MS
ATOM	1256	C	PRO	96	246.972	105.755	9.459	1.00	49.77	MS13	ATOM	1309	CG	ARG	103	234.372	106.382	6.705	1.00	49.94	MS
ATOM	1257	O	PRO	96	246.191	105.174	10.217	1.00	49.77	MS13	ATOM	1310	CD	ARG	103	231.925	106.686	7.163	1.00	49.94	MS
ATOM	1258	N	VAL	97	248.117	106.302	9.854	1.00	79.45	MS13	ATOM	1311	NE	ARG	103	230.574	106.352	6.733	1.00	49.94	MS
ATOM	1259	CA	VAL	97	248.578	106.234	11.230	1.00	79.45	MS13	ATOM	1312	CG	ARG	103	229.561	106.819	7.298	1.00	49.94	MS
ATOM	1260	CB	VAL	97	250.011	105.677	11.282	1.00	79.45	MS13	ATOM	1313	CZ	ARG	103	229.418	107.652	8.331	1.00	49.94	MS
ATOM	1261	CG1	VAL	97	250.226	104.959	12.589	1.00	127.17	MS13	ATOM	1314	NH1	ARG	103	228.282	106.447	6.823	1.00	49.94	MS
ATOM	1262	CG2	VAL	97	250.264	104.751	10.102	1.00	127.17	MS13	ATOM	1315	NH2	ARG	103	235.360	106.358	4.439	1.00	40.37	MS
ATOM	1263	C	VAL	97	248.574	107.578	11.941	1.00	79.45	MS13	ATOM	1316	C	ARG	103	234.684	105.813	3.570	1.00	40.37	MS
ATOM	1264	O	VAL	97	249.406	107.828	12.812	1.00	79.45	MS13	ATOM	1317	N	ARG	103	236.061	107.460	4.210	1.00	79.08	MS
ATOM	1265	N	ARG	98	247.642	108.448	11.581	1.00	67.63	MS13	ATOM	1318	CA	THR	104	235.937	108.099	2.920	1.00	79.08	MS
ATOM	1266	CA	ARG	98	247.587	109.755	12.218	1.00	67.63	MS13	ATOM	1319	CB	THR	104	235.206	109.413	3.071	1.00	67.14	MS
ATOM	1267	CB	ARG	98	248.415	110.771	11.423	1.00	65.65	MS13	ATOM	1320	CG	THR	104	234.055	109.199	3.883	1.00	67.14	MS
ATOM	1268	CG	ARG	98	249.858	110.342	11.241	1.00	65.65	MS13	ATOM	1321	OG1	THR	104	234.767	108.345	2.081	1.00	79.08	MS
ATOM	1269	CD	ARG	98	250.736	111.415	10.630	1.00	65.65	MS13	ATOM	1322	CG2	THR	104	237.157	108.345	0.854	1.00	79.08	MS
ATOM	1270	NE	ARG	98	252.120	110.959	10.597	1.00	65.65	MS13	ATOM	1323	C	THR	104	237.076	108.403	2.705	1.00	65.21	MS
ATOM	1271	CZ	ARG	98	253.143	111.668	10.139	1.00	65.65	MS13	ATOM	1324	O	THR	104	239.500	108.751	1.905	1.00	65.21	MS
ATOM	1272	NH1	ARG	98	252.950	112.892	9.660	1.00	65.65	MS13	ATOM	1325	N	ASN	105	238.320	108.499	2.705	1.00	65.21	MS
ATOM	1273	NH2	ARG	98	254.364	111.150	10.171	1.00	65.65	MS13	ATOM	1326	CA	ASN	105	239.500	108.751	1.905	1.00	65.21	MS
ATOM	1274	C	ARG	98	246.166	110.252	12.382	1.00	67.63	MS13	ATOM	1327	CB	ASN	105	238.898	111.199	1.666	1.00	47.76	MS
ATOM	1275	O	ARG	98	245.825	111.355	11.945	1.00	67.63	MS13	ATOM	1328	CG	ASN	105	238.320	111.069	0.591	1.00	47.76	MS
ATOM	1276	N	GLY	99	245.348	109.416	13.019	1.00	70.61	MS13	ATOM	1329	OD1	ASN	105	240.610	107.769	2.492	1.00	47.76	MS
ATOM	1277	CA	GLY	99	243.956	109.743	13.276	1.00	70.61	MS13	ATOM	1330	ND2	ASN	105	241.793	108.281	2.545	1.00	47.79	MS
ATOM	1278	C	GLY	99	243.229	110.459	12.161	1.00	70.61	MS13	ATOM	1331	C	ASN	105	242.906	107.416	2.881	1.00	47.79	MS
ATOM	1279	O	GLY	99	242.725	111.559	12.355	1.00	70.61	MS13	ATOM	1332	O	ASN	105	243.533	106.520	4.061	1.00	47.79	MS
ATOM	1280	N	GLN	100	243.184	109.843	10.988	1.00	65.66	MS13	ATOM	1333	N	ALA	106	242.906	107.416	2.881	1.00	47.79	MS
ATOM	1281	CA	GLN	100	242.488	110.425	9.855	1.00	65.66	MS13	ATOM	1334	CB	ALA	106	243.277	106.568	1.679	1.00	47.79	MS
ATOM	1282	CB	GLN	100	243.383	110.388	8.726	1.00	61.26	MS13	ATOM	1335	CA	ALA	106	243.624	105.387	1.811	1.00	47.79	MS
ATOM	1283	CG	GLN	100	244.581	111.318	8.726	1.00	61.26	MS13	ATOM	1336	C	ALA	106	243.198	107.166	0.695	1.00	55.43	MS
ATOM	1284	CD	GLN	100	245.881	110.620	8.397	1.00	61.26	MS13	ATOM	1337	O	ALA	106	243.545	106.428	-0.695	1.00	55.43	MS
ATOM	1285	OE1	GLN	100	246.254	109.642	9.053	1.00	61.26	MS13	ATOM	1338	N	ARG	107	242.964	107.116	-1.931	1.00	52.31	MS
ATOM	1286	NE2	GLN	100	246.582	111.112	7.381	1.00	61.26	MS13	ATOM	1339	CA	ARG	107	241.445	107.281	-1.921	1.00	52.31	MS
ATOM	1287	C	GLN	100	241.224	109.615	9.610	1.00	65.66	MS13	ATOM	1340	CB	ARG	107	240.660	106.051	-1.419	1.00	52.31	MS
ATOM	1288	O	GLN	100	240.896	108.714	10.398	1.00	65.66	MS13	ATOM	1341	CG	ARG	107	241.220	104.774	-1.847	1.00	52.31	MS
ATOM	1289	N	ARG	101	240.489	109.941	8.550	1.00	68.99	MS13	ATOM	1342	CD	ARG	107						
ATOM	1290	CA	ARG	101	239.282	109.184	8.237	1.00	68.99	MS13	ATOM	1343	NE	ARG	107						

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ATOM	1344	CZ	ARG	107	240.626	103.594	-1.663	1.00	52.31	MS13	ATOM	1397	O	ARG	113	240.023	99.564	-6.651	1.00	82.11	MS
ATOM	1345	NH1	ARG	107	239.442	103.526	-1.068	1.00	52.31	MS13	ATOM	1398	N	LVS	114	239.058	99.570	-4.630	1.00	70.65	MS
ATOM	1346	NH2	ARG	107	241.230	102.474	-2.043	1.00	52.31	MS13	ATOM	1399	CA	LVS	114	238.688	98.163	-4.693	1.00	70.65	MS
ATOM	1347	C	ARG	107	245.071	106.308	-0.817	1.00	55.43	MS13	ATOM	1400	CB	LVS	114	238.624	97.572	-3.287	1.00	80.99	MS
ATOM	1348	O	ARG	107	245.591	105.254	-1.204	1.00	55.43	MS13	ATOM	1401	CG	LVS	114	239.971	97.490	-2.600	1.00	80.99	MS
ATOM	1349	N	THR	108	245.787	107.380	-0.474	1.00	46.08	MS13	ATOM	1402	CD	LVS	114	240.907	96.612	-3.388	1.00	80.99	MS
ATOM	1350	CA	THR	108	247.238	107.358	-0.559	1.00	46.08	MS13	ATOM	1403	CE	LVS	114	242.235	96.467	-2.699	1.00	80.99	MS
ATOM	1351	CG	THR	108	247.852	108.696	-0.105	1.00	46.59	MS13	ATOM	1404	NZ	LVS	114	243.125	95.588	-3.505	1.00	80.99	MS
ATOM	1352	OGL	THR	108	247.670	109.678	-1.136	1.00	46.59	MS13	ATOM	1405	C	LVS	114	237.319	98.044	-5.374	1.00	70.65	MS
ATOM	1353	CG2	THR	108	249.350	108.542	-0.158	1.00	46.59	MS13	ATOM	1406	O	LVS	115	237.231	97.806	-6.576	1.00	70.65	MS
ATOM	1354	C	THR	108	247.781	106.229	-0.300	1.00	46.08	MS13	ATOM	1407	N	THR	115	236.263	98.223	-4.588	1.00	48.68	MS
ATOM	1355	O	THR	108	248.818	105.638	-0.001	1.00	46.08	MS13	ATOM	1408	CA	THR	115	234.866	98.171	-5.041	1.00	48.68	MS
ATOM	1356	N	ARG	109	247.063	105.919	1.367	1.00	54.50	MS13	ATOM	1409	CB	THR	115	234.642	98.764	-6.454	1.00	45.50	MS
ATOM	1357	CA	ARG	109	247.484	104.855	2.257	1.00	54.50	MS13	ATOM	1410	CG1	THR	115	235.027	100.149	-6.471	1.00	45.50	MS
ATOM	1358	CB	ARG	109	246.911	105.095	3.655	1.00	79.61	MS13	ATOM	1411	CG2	THR	115	233.165	98.660	-6.827	1.00	45.50	MS
ATOM	1359	CG	ARG	109	247.814	104.682	4.802	1.00	79.61	MS13	ATOM	1412	C	THR	115	234.251	96.792	-5.023	1.00	48.68	MS
ATOM	1360	CD	ARG	109	248.830	105.767	5.117	1.00	79.61	MS13	ATOM	1413	O	THR	116	233.635	95.902	-5.777	1.00	48.68	MS
ATOM	1361	NE	ARG	109	250.188	105.329	4.829	1.00	79.61	MS13	ATOM	1414	N	VAL	116	233.273	96.657	-4.137	1.00	77.44	MS
ATOM	1362	CZ	ARG	109	250.781	104.292	5.414	1.00	79.61	MS13	ATOM	1415	CA	VAL	116	232.534	95.430	-3.920	1.00	77.44	MS
ATOM	1363	NH1	ARG	109	250.144	103.570	6.332	1.00	79.61	MS13	ATOM	1416	CB	VAL	116	232.444	95.133	-2.423	1.00	47.37	MS
ATOM	1364	NH2	ARG	109	252.019	103.973	5.072	1.00	79.61	MS13	ATOM	1417	CG1	VAL	116	231.851	93.781	-2.193	1.00	47.37	MS
ATOM	1365	C	ARG	109	246.965	103.526	1.717	1.00	54.50	MS13	ATOM	1418	CG2	VAL	116	233.808	95.250	-1.805	1.00	47.37	MS
ATOM	1366	O	ARG	109	247.739	102.624	1.419	1.00	54.50	MS13	ATOM	1419	C	VAL	116	231.130	95.655	-4.438	1.00	77.44	MS
ATOM	1367	N	LVS	110	245.643	103.429	1.591	1.00	64.45	MS13	ATOM	1420	O	VAL	116	230.771	96.775	-4.804	1.00	77.44	MS
ATOM	1368	CA	LVS	110	244.970	102.219	1.121	1.00	64.45	MS13	ATOM	1421	N	ALA	117	230.337	94.591	-4.465	1.00	80.07	MS
ATOM	1369	CB	LVS	110	243.457	102.401	1.183	1.00	74.77	MS13	ATOM	1422	CA	ALA	117	228.958	94.689	-4.914	1.00	80.07	MS
ATOM	1370	CG	LVS	110	242.833	102.472	2.557	1.00	74.77	MS13	ATOM	1423	CB	ALA	117	228.330	93.310	-4.960	1.00	74.95	MS
ATOM	1371	CD	LVS	110	241.326	102.290	2.387	1.00	74.77	MS13	ATOM	1424	C	ALA	117	228.207	95.594	-3.934	1.00	80.07	MS
ATOM	1372	CE	LVS	110	240.546	102.486	3.671	1.00	74.77	MS13	ATOM	1425	O	ALA	117	228.175	96.809	-4.110	1.00	80.07	MS
ATOM	1373	NZ	LVS	110	239.087	102.233	3.455	1.00	74.77	MS13	ATOM	1426	N	GLY	118	227.604	95.012	-2.906	1.00	120.88	MS
ATOM	1374	C	LVS	110	245.315	101.745	-0.290	1.00	64.45	MS13	ATOM	1427	CA	GLY	118	225.491	96.269	-2.271	1.00	120.88	MS
ATOM	1375	O	LVS	110	245.102	100.579	-0.618	1.00	64.45	MS13	ATOM	1428	C	GLY	118	225.901	95.821	-1.925	1.00	120.88	MS
ATOM	1376	N	GLY	111	245.827	102.636	-1.132	1.00	52.28	MS13	ATOM	1429	O	GLY	118	225.183	96.578	-3.424	1.00	120.88	MS
ATOM	1377	CA	GLY	111	246.143	102.236	-2.491	1.00	52.28	MS13	ATOM	1430	N	LVS	119	224.645	96.307	-1.242	1.00	147.05	MS
ATOM	1378	C	GLY	111	244.954	102.509	-3.393	1.00	52.28	MS13	ATOM	1431	CA	LVS	119	223.242	96.712	-1.343	1.00	147.05	MS
ATOM	1379	O	GLY	111	244.072	103.278	-3.015	1.00	52.28	MS13	ATOM	1432	CB	LVS	119	222.650	96.838	-0.073	1.00	107.79	MS
ATOM	1380	N	PRO	112	244.886	101.898	-4.587	1.00	84.66	MS13	ATOM	1433	CG	LVS	119	221.346	97.631	0.174	1.00	107.79	MS
ATOM	1381	CD	PRO	112	245.917	101.033	-5.184	1.00	82.35	MS13	ATOM	1434	CD	LVS	119	220.952	97.859	1.635	1.00	107.79	MS
ATOM	1382	CA	PRO	112	243.776	102.102	-5.528	1.00	84.66	MS13	ATOM	1435	CE	LVS	119	219.883	98.943	1.768	1.00	107.79	MS
ATOM	1383	CB	PRO	112	244.305	101.479	-6.815	1.00	82.35	MS13	ATOM	1436	NZ	LVS	119	223.055	98.022	-2.112	1.00	147.05	MS
ATOM	1384	CG	PRO	112	245.160	100.363	-6.309	1.00	82.35	MS13	ATOM	1437	C	LVS	119	223.450	99.092	-1.640	1.00	147.05	MS
ATOM	1385	C	PRO	112	242.423	101.524	-5.118	1.00	84.66	MS13	ATOM	1438	O	LVS	120	222.447	97.920	-3.294	1.00	173.40	MS
ATOM	1386	O	PRO	112	241.357	102.050	-5.737	1.00	82.11	MS13	ATOM	1439	N	LVS	120	221.723	98.590	-5.550	1.00	153.51	MS
ATOM	1387	N	ARG	113	239.981	101.633	-6.470	1.00	82.11	MS13	ATOM	1440	CA	LVS	120	221.554	99.675	-6.632	1.00	153.51	MS
ATOM	1388	CA	ARG	113	238.633	103.745	-5.907	1.00	72.10	MS13	ATOM	1441	CB	LVS	120	222.886	100.261	-7.116	1.00	153.51	MS
ATOM	1389	CB	ARG	113	237.980	103.647	-4.560	1.00	72.10	MS13	ATOM	1442	CG	LVS	120	222.690	102.538	-6.017	1.00	153.51	MS
ATOM	1390	CG	ARG	113	237.925	104.952	-3.912	1.00	72.10	MS13	ATOM	1443	CD	LVS	120	221.118	99.968	-3.517	1.00	173.40	MS
ATOM	1391	CD	ARG	113	236.093	105.893	-4.186	1.00	72.10	MS13	ATOM	1444	CE	LVS	120	220.937	99.938	-2.298	1.00	173.40	MS
ATOM	1392	NE	ARG	113	237.031	105.893	-5.101	1.00	72.10	MS13	ATOM	1445	NZ	LVS	120	220.416	100.756	-4.331	1.00	142.53	MS
ATOM	1393	CZ	ARG	113	236.093	105.893	-5.101	1.00	72.10	MS13	ATOM	1446	C	LVS	120	219.378	101.652	-3.824	1.00	142.53	MS
ATOM	1394	NH1	ARG	113	237.082	107.052	-3.544	1.00	72.10	MS13	ATOM	1447	O	LVS	121						
ATOM	1395	NH2	ARG	113	239.696	100.157	-5.631	1.00	82.11	MS13	ATOM	1448	N	LVS	121						
ATOM	1396	C	ARG	113						MS13	ATOM	1449	CA	LVS	121						

ATOM	1450	CB	LVS	121	218.253	100.838	-3.165	1.00144.23	MS13	ATOM	1503	C	ILE	2	150.032	110.854	-73.044	1.00	74.93	OS	
ATOM	1451	CG	LVS	121	216.950	100.739	-3.960	1.00144.23	MS13	ATOM	1504	O	ILE	2	150.201	111.862	-72.370	1.00	74.93	OS	
ATOM	1452	CD	LVS	121	216.122	102.015	-3.837	1.00144.23	MS13	ATOM	1505	N	THR	3	149.643	110.897	-74.312	1.00	92.77	OS	
ATOM	1453	CE	LVS	121	214.710	101.823	-4.387	1.00144.23	MS13	ATOM	1506	CA	THR	3	149.400	112.170	-74.974	1.00	92.77	OS	
ATOM	1454	NZ	LVS	121	213.862	103.032	-4.177	1.00144.23	MS13	ATOM	1507	CB	THR	3	149.378	112.001	-76.498	1.00	91.43	OS	
ATOM	1455	C	LVS	121	220.006	102.592	-2.798	1.00142.53	MS13	ATOM	1508	CG1	THR	3	148.247	111.206	-76.877	1.00	91.43	OS	
ATOM	1456	O	LVS	121	221.140	103.049	-2.965	1.00142.53	MS13	ATOM	1509	CG2	THR	3	150.640	111.312	-76.965	1.00	91.43	OS	
ATOM	1457	N	ALA	122	219.251	102.872	-1.740	1.00200.66	MS13	ATOM	1510	C	THR	3	148.070	112.771	-74.539	1.00	92.77	OS	
ATOM	1458	CA	ALA	122	219.702	103.729	-0.650	1.00200.66	MS13	ATOM	1511	O	THR	3	147.131	112.053	-74.189	1.00	92.77	OS	
ATOM	1459	CB	ALA	122	220.807	103.027	0.122	1.00115.27	MS13	ATOM	1512	N	LVS	4	148.001	114.096	-74.563	1.00	95.13	OS	
ATOM	1460	C	ALA	122	220.157	105.135	-1.045	1.00200.66	MS13	ATOM	1513	CA	LVS	4	146.788	114.808	-74.192	1.00	95.13	OS	
ATOM	1461	O	ALA	122	220.561	105.384	-2.186	1.00200.66	MS13	ATOM	1514	CB	LVS	4	146.896	116.260	-74.644	1.00	98.41	OS	
ATOM	1462	N	PRO	123	220.075	106.077	-0.090	1.00166.44	MS13	ATOM	1515	CG	LVS	4	148.205	116.895	-74.220	1.00	98.41	OS	
ATOM	1463	CD	PRO	123	219.100	105.962	-1.003	1.00191.00	MS13	ATOM	1516	CD	LVS	4	148.515	118.152	-75.004	1.00	98.41	OS	
ATOM	1464	CA	PRO	123	220.458	107.481	-0.261	1.00166.44	MS13	ATOM	1517	CE	LVS	4	149.930	118.639	-74.711	1.00	98.41	OS	
ATOM	1465	CB	PRO	123	219.292	108.244	0.385	1.00191.00	MS13	ATOM	1518	NZ	LVS	4	150.307	119.791	-75.580	1.00	98.41	OS	
ATOM	1466	CG	PRO	123	218.247	107.160	0.737	1.00191.00	MS13	ATOM	1519	C	LVS	4	145.635	114.120	-74.901	1.00	95.13	OS	
ATOM	1467	C	PRO	123	221.800	107.852	0.376	1.00166.44	MS13	ATOM	1520	O	LVS	4	144.652	113.722	-74.278	1.00	95.13	OS	
ATOM	1468	O	PRO	123	222.232	107.245	-1.352	1.00166.44	MS13	ATOM	1521	N	GLU	5	145.784	113.967	-76.212	1.00	76.32	OS	
ATOM	1469	N	ARG	124	222.433	108.874	-0.188	1.00129.54	MS13	ATOM	1522	CA	GLU	5	144.780	113.320	-77.039	1.00	76.32	OS	
ATOM	1470	CA	ARG	124	223.727	109.377	0.256	1.00129.54	MS13	ATOM	1523	CB	GLU	5	145.374	112.980	-78.406	1.00161.61	OS		
ATOM	1471	CB	ARG	124	224.748	108.240	0.365	1.00111.08	MS13	ATOM	1524	CG	GLU	5	145.957	114.163	-79.154	1.00161.61	OS		
ATOM	1472	CG	ARG	124	224.605	107.099	-0.674	1.00111.08	MS13	ATOM	1525	CD	GLU	5	144.903	114.182	-79.539	1.00161.61	OS		
ATOM	1473	CD	ARG	124	224.499	107.570	-2.137	1.00111.08	MS13	ATOM	1526	OE1	GLU	5	143.920	114.796	-80.207	1.00161.61	OS		
ATOM	1474	NE	ARG	124	224.473	106.456	-3.092	1.00111.08	MS13	ATOM	1527	OE2	GLU	5	145.061	116.367	-79.177	1.00161.61	OS		
ATOM	1475	CZ	ARG	124	224.288	106.586	-4.406	1.00111.08	MS13	ATOM	1528	C	GLU	5	144.297	112.037	-76.375	1.00	76.32	OS	
ATOM	1476	NH1	ARG	124	224.109	107.786	-4.945	1.00111.08	MS13	ATOM	1529	O	GLU	5	143.142	111.933	-75.964	1.00	76.32	OS	
ATOM	1477	NH2	ARG	124	224.278	105.513	-5.184	1.00111.08	MS13	ATOM	1530	N	GLU	6	145.200	111.066	-76.268	1.00	67.95	OS	
ATOM	1478	C	ARG	124	224.168	110.331	-0.832	1.00129.54	MS13	ATOM	1531	CA	GLU	6	144.888	109.771	-75.673	1.00	67.95	OS	
ATOM	1479	O	ARG	124	225.347	110.617	-0.972	1.00129.54	MS13	ATOM	1532	CB	GLU	6	146.171	108.953	-75.485	1.00159.98	OS		
ATOM	1480	N	LVS	125	223.199	110.805	-1.610	1.00190.53	MS13	ATOM	1533	CG	GLU	6	146.244	107.731	-76.387	1.00159.98	OS		
ATOM	1481	CA	LVS	125	223.457	111.705	-2.732	1.00190.53	MS13	ATOM	1534	CD	GLU	6	145.108	106.742	-76.133	1.00159.98	OS		
ATOM	1482	CB	LVS	125	222.432	111.443	-3.834	1.00158.10	MS13	ATOM	1535	OE1	GLU	6	145.265	105.855	-75.266	1.00159.98	OS		
ATOM	1483	CG	LVS	125	222.428	110.019	-4.368	1.00158.10	MS13	ATOM	1536	OE2	GLU	6	144.050	106.861	-76.791	1.00159.98	OS		
ATOM	1484	CD	LVS	125	221.155	109.717	-5.149	1.00158.10	MS13	ATOM	1537	C	GLU	6	144.149	109.873	-74.345	1.00	67.95	OS	
ATOM	1485	CE	LVS	125	220.941	110.700	-6.294	1.00158.10	MS13	ATOM	1538	O	GLU	6	143.273	109.060	-74.044	1.00	67.95	OS	
ATOM	1486	NZ	LVS	125	220.656	112.101	-5.838	1.00158.10	MS13	ATOM	1539	N	LVS	7	144.497	110.877	-73.553	1.00	65.34	OS	
ATOM	1487	C	LVS	125	223.428	113.184	-2.366	1.00190.53	MS13	ATOM	1540	CA	LVS	7	143.864	111.046	-72.263	1.00	65.34	OS	
ATOM	1488	O	LVS	125	222.745	113.948	-3.079	1.00190.53	MS13	ATOM	1541	CB	LVS	7	144.643	112.066	-71.450	1.00	64.37	OS	
ATOM	1489	OXT	LVS	125	224.085	113.572	-1.378	1.00187.17	MS13	ATOM	1542	CG	LVS	7	144.381	112.002	-69.968	1.00	64.37	OS	
ATOM	1490	CB	PRO	1	154.594	109.757	-72.769	1.00	65.85	OS15	ATOM	1543	CD	LVS	7	145.293	112.970	-69.242	1.00	64.37	OS
ATOM	1491	CG	PRO	1	156.018	109.339	-73.095	1.00	65.85	OS15	ATOM	1544	CE	LVS	7	144.965	113.040	-67.769	1.00	64.37	OS
ATOM	1492	C	PRO	1	152.425	108.589	-73.155	1.00106.56	OS15	ATOM	1545	NZ	LVS	7	145.817	114.031	-67.068	1.00	64.37	OS	
ATOM	1493	O	PRO	1	151.985	108.172	-74.230	1.00106.56	OS15	ATOM	1546	C	LVS	7	142.405	111.474	-72.413	1.00	65.34	OS	
ATOM	1494	N	PRO	1	154.632	107.525	-73.696	1.00106.56	OS15	ATOM	1547	O	LVS	7	141.495	110.769	-71.954	1.00	65.34	OS	
ATOM	1495	CD	PRO	1	155.883	108.180	-74.119	1.00	65.85	OS15	ATOM	1548	N	GLN	8	142.174	112.618	-73.058	1.00	78.73	OS
ATOM	1496	CA	PRO	1	153.887	108.413	-72.773	1.00106.56	OS15	ATOM	1549	CA	GLN	8	140.807	113.096	-73.250	1.00	78.73	OS	
ATOM	1497	N	ILE	2	151.684	109.228	-72.259	1.00	74.93	OS15	ATOM	1550	CB	GLN	8	140.761	114.291	-74.201	1.00118.46	OS	
ATOM	1498	CA	ILE	2	150.262	109.473	-72.448	1.00	74.93	OS15	ATOM	1551	CG	GLN	8	140.659	115.624	-73.489	1.00118.46	OS	
ATOM	1499	CB	ILE	2	149.519	109.371	-71.098	1.00	77.72	OS15	ATOM	1552	CD	GLN	8	141.968	116.041	-72.852	1.00118.46	OS	
ATOM	1500	CG2	ILE	2	148.095	109.862	-71.243	1.00	77.72	OS15	ATOM	1553	OE1	GLN	8	142.857	116.576	-73.521	1.00118.46	OS	
ATOM	1501	CG1	ILE	2	149.543	107.920	-70.608	1.00	77.72	OS15	ATOM	1554	NE2	GLN	8	142.101	115.787	-71.556	1.00118.46	OS	
ATOM	1502	CD1	ILE	2	148.953	107.722	-69.231	1.00	77.72	OS15	ATOM	1555	C	GLN	8	139.923	111.991	-73.798	1.00	78.73	OS

ATOM	1556	O	GLN	8	138.823	111.765	-73.295	1.00	78.73	OS15	ATOM	1609	O	PHE	14	132.516	108.291	-67.704	1.00	69.00	OS
ATOM	1557	N	LYS	9	140.407	111.298	-74.824	1.00	83.45	OS15	ATOM	1610	N	ALA	15	133.454	109.841	-69.028	1.00	58.10	OS
ATOM	1558	CA	LYS	9	139.638	110.216	-75.420	1.00	83.45	OS15	ATOM	1611	CA	ALA	15	132.774	110.952	-68.363	1.00	58.10	OS
ATOM	1559	CB	LYS	9	140.503	109.399	-76.384	1.00	120.27	OS15	ATOM	1612	CB	ALA	15	132.965	112.234	-69.161	1.00	53.42	OS
ATOM	1560	CG	LYS	9	141.140	110.240	-77.480	1.00	120.27	OS15	ATOM	1613	C	ALA	15	131.283	110.680	-68.144	1.00	58.10	OS
ATOM	1561	CD	LYS	9	141.670	109.400	-78.634	1.00	120.27	OS15	ATOM	1614	O	ALA	15	130.594	110.173	-69.028	1.00	58.10	OS
ATOM	1562	CE	LYS	9	140.533	108.807	-79.458	1.00	120.27	OS15	ATOM	1615	N	ARG	16	130.795	111.012	-66.956	1.00	97.22	OS
ATOM	1563	NZ	LYS	9	141.027	108.078	-80.666	1.00	120.27	OS15	ATOM	1616	CA	ARG	16	129.394	110.800	-66.616	1.00	97.22	OS
ATOM	1564	C	LYS	9	139.119	109.335	-74.302	1.00	83.45	OS15	ATOM	1617	CB	ARG	16	129.177	111.097	-65.136	1.00	91.67	OS
ATOM	1565	O	LYS	9	137.957	108.934	-74.300	1.00	83.45	OS15	ATOM	1619	CD	ARG	16	129.901	110.153	-64.199	1.00	91.67	OS
ATOM	1566	N	VAL	10	139.987	109.059	-73.336	1.00	62.74	OS15	ATOM	1620	NE	ARG	16	127.825	108.911	-63.680	1.00	91.67	OS
ATOM	1567	CB	VAL	10	139.618	108.232	-72.194	1.00	62.74	OS15	ATOM	1621	CZ	ARG	16	127.444	109.510	-62.552	1.00	91.67	OS
ATOM	1568	CB	VAL	10	140.842	107.894	-71.333	1.00	67.11	OS15	ATOM	1622	NH1	ARG	16	126.155	109.553	-62.239	1.00	91.67	OS
ATOM	1569	CG1	VAL	10	140.444	106.953	-70.213	1.00	67.11	OS15	ATOM	1623	C	ARG	16	128.344	110.066	-61.740	1.00	91.67	OS
ATOM	1570	CG2	VAL	10	141.916	107.278	-72.192	1.00	67.11	OS15	ATOM	1624	C	ARG	16	128.461	111.676	-67.445	1.00	97.22	OS
ATOM	1571	O	VAL	10	138.623	108.999	-71.336	1.00	62.74	OS15	ATOM	1625	O	ARG	16	127.338	111.281	-67.765	1.00	97.22	OS
ATOM	1572	O	VAL	10	137.552	108.491	-70.995	1.00	54.61	OS15	ATOM	1626	N	PHE	17	128.938	112.866	-67.792	1.00	65.81	OS
ATOM	1573	N	ILE	11	138.987	110.228	-70.992	1.00	54.61	OS15	ATOM	1627	CA	PHE	17	128.155	113.825	-68.561	1.00	70.05	OS
ATOM	1574	CA	ILE	11	138.118	111.055	-70.118	1.00	47.01	OS15	ATOM	1628	CB	PHE	17	127.155	114.505	-67.638	1.00	70.05	OS
ATOM	1575	CB	ILE	11	138.622	112.501	-70.118	1.00	47.01	OS15	ATOM	1629	CG	PHE	17	127.791	115.169	-66.462	1.00	70.05	OS
ATOM	1576	CG2	ILE	11	137.628	113.371	-69.413	1.00	47.01	OS15	ATOM	1630	CD1	PHE	17	128.719	116.196	-66.643	1.00	70.05	OS
ATOM	1577	CG1	ILE	11	139.980	112.534	-69.413	1.00	47.01	OS15	ATOM	1631	CD2	PHE	17	127.480	114.761	-65.167	1.00	70.05	OS
ATOM	1578	CD1	ILE	11	140.597	113.920	-69.304	1.00	54.61	OS15	ATOM	1632	CE1	PHE	17	129.333	116.811	-65.554	1.00	70.05	OS
ATOM	1579	C	ILE	11	136.705	111.040	-70.737	1.00	54.61	OS15	ATOM	1633	CE2	PHE	17	128.088	115.369	-64.061	1.00	70.05	OS
ATOM	1580	O	ILE	11	135.789	110.503	-70.116	1.00	54.61	OS15	ATOM	1634	CZ	PHE	17	129.020	116.399	-64.257	1.00	70.05	OS
ATOM	1581	N	GLN	12	136.516	111.621	-71.912	1.00	86.97	OS15	ATOM	1635	C	PHE	17	129.098	114.869	-69.161	1.00	65.81	OS
ATOM	1582	CA	GLN	12	135.188	111.634	-72.498	1.00	86.97	OS15	ATOM	1636	O	PHE	17	130.302	115.810	-69.954	1.00	80.59	OS
ATOM	1583	CB	GLN	12	135.242	112.213	-73.908	1.00	132.99	OS15	ATOM	1637	N	PRO	18	128.564	114.847	-68.906	1.00	80.59	OS
ATOM	1584	CG	GLN	12	135.661	113.669	-73.926	1.00	132.99	OS15	ATOM	1638	CD	PRO	18	127.178	115.989	-70.416	1.00	90.05	OS
ATOM	1585	CD	GLN	12	135.470	114.311	-75.279	1.00	132.99	OS15	ATOM	1639	CB	PRO	18	129.446	116.821	-70.543	1.00	80.59	OS
ATOM	1586	OE1	GLN	12	135.743	115.498	-75.458	1.00	132.99	OS15	ATOM	1640	CB	PRO	18	128.482	117.695	-71.341	1.00	90.05	OS
ATOM	1587	NE2	GLN	12	134.996	113.530	-76.244	1.00	132.99	OS15	ATOM	1641	CG	PRO	18	127.376	116.745	-71.698	1.00	90.05	OS
ATOM	1588	C	GLN	12	134.590	110.230	-72.518	1.00	86.97	OS15	ATOM	1642	C	PRO	18	130.192	117.625	-69.477	1.00	80.59	OS
ATOM	1589	O	GLN	12	133.452	110.030	-72.096	1.00	86.97	OS15	ATOM	1643	O	PRO	18	129.575	118.380	-68.723	1.00	80.59	OS
ATOM	1590	N	GLU	13	135.368	109.257	-72.982	1.00	67.56	OS15	ATOM	1644	N	GLY	19	131.512	117.461	-69.413	1.00	79.89	OS
ATOM	1591	CA	GLU	13	134.898	107.876	-73.055	1.00	67.56	OS15	ATOM	1645	CA	GLY	19	132.301	118.201	-68.440	1.00	79.89	OS
ATOM	1592	CB	GLU	13	136.054	106.937	-73.400	1.00	140.12	OS15	ATOM	1646	C	GLY	19	132.713	117.418	-67.205	1.00	79.89	OS
ATOM	1593	CG	GLU	13	135.699	105.456	-73.301	1.00	140.12	OS15	ATOM	1647	O	GLY	19	133.221	117.987	-67.230	1.00	70.57	OS
ATOM	1594	CD	GLU	13	134.520	105.056	-74.180	1.00	140.12	OS15	ATOM	1648	N	ASP	20	132.860	115.281	-66.097	1.00	70.57	OS
ATOM	1595	OE1	GLU	13	134.127	103.869	-74.136	1.00	67.56	OS15	ATOM	1649	CA	ASP	20	132.489	116.109	-67.230	1.00	70.57	OS
ATOM	1596	OE2	GLU	13	133.986	105.917	-74.913	1.00	140.12	OS15	ATOM	1650	CB	ASP	20	132.138	113.931	-66.127	1.00	68.18	OS
ATOM	1597	C	GLU	13	134.219	107.384	-71.844	1.00	67.56	OS15	ATOM	1651	OD1	ASP	20	132.450	113.087	-64.902	1.00	68.18	OS
ATOM	1598	O	GLU	13	133.339	106.534	-71.844	1.00	69.00	OS15	ATOM	1652	OD2	ASP	20	133.031	113.656	-63.955	1.00	68.18	OS
ATOM	1599	N	PHE	14	134.622	107.914	-70.632	1.00	69.00	OS15	ATOM	1653	C	ASP	20	134.354	115.048	-66.180	1.00	70.57	OS
ATOM	1600	CA	PHE	14	134.030	107.496	-69.362	1.00	69.00	OS15	ATOM	1654	C	ASP	20	134.809	114.170	-66.911	1.00	70.57	OS
ATOM	1601	CB	PHE	14	135.105	106.950	-68.414	1.00	44.98	OS15	ATOM	1655	N	THR	21	135.116	115.839	-65.434	1.00	63.41	OS
ATOM	1602	CG	PHE	14	135.613	105.591	-68.784	1.00	44.98	OS15	ATOM	1656	CA	THR	21	136.564	115.699	-65.444	1.00	63.41	OS
ATOM	1603	CD1	PHE	14	136.538	105.436	-69.803	1.00	44.98	OS15	ATOM	1657	CB	THR	21	137.267	117.057	-65.230	1.00	67.92	OS
ATOM	1604	CD2	PHE	14	135.113	104.461	-68.155	1.00	44.98	OS15	ATOM	1658	CG1	THR	21	137.140	117.446	-63.861	1.00	67.92	OS
ATOM	1605	CE1	PHE	14	136.951	104.178	-70.196	1.00	44.98	OS15	ATOM	1659	CG2	THR	21	136.638	118.139	-66.087	1.00	67.92	OS
ATOM	1606	CE2	PHE	14	135.520	103.195	-68.544	1.00	44.98	OS15	ATOM	1660	C	THR	21	137.056	114.722	-64.370	1.00	63.41	OS
ATOM	1607	CZ	PHE	14	136.442	103.055	-69.571	1.00	44.98	OS15											
ATOM	1608	C	PHE	14	133.266	108.587	-68.630	1.00	69.00	OS15											

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ATOM	1662	O	THR	21	138.004	113.987	-64.605	1.00	63.41	OS15	ATOM	1715	C	ALA	29	141.092	105.373	-66.272	1.00	58.29	OS
ATOM	1663	N	GLY	22	136.417	114.691	-63.202	1.00	61.87	OS15	ATOM	1716	O	ALA	29	141.944	104.569	-66.672	1.00	58.29	OS
ATOM	1664	CA	GLY	22	136.894	113.790	-62.162	1.00	61.87	OS15	ATOM	1717	N	LEU	30	141.380	106.649	-66.000	1.00	56.32	OS
ATOM	1665	C	GLY	22	135.933	113.055	-61.233	1.00	61.87	OS15	ATOM	1718	CA	LEU	30	142.743	107.159	-66.176	1.00	56.32	OS
ATOM	1666	O	GLY	22	135.909	113.304	-60.025	1.00	61.87	OS15	ATOM	1719	CB	LEU	30	142.851	108.634	-65.779	1.00	55.52	OS
ATOM	1667	N	THR	23	135.151	112.134	-61.783	1.00	56.00	OS15	ATOM	1720	CG	LEU	30	141.951	109.641	-66.489	1.00	55.52	OS
ATOM	1668	CA	SER	23	134.223	111.350	-60.986	1.00	56.00	OS15	ATOM	1721	CD1	LEU	30	140.604	109.615	-65.816	1.00	55.52	OS
ATOM	1669	CB	SER	23	132.891	111.215	-61.700	1.00	94.82	OS15	ATOM	1722	CD2	LEU	30	142.524	111.032	-66.402	1.00	55.52	OS
ATOM	1670	OG	SER	23	133.352	112.487	-61.971	1.00	94.82	OS15	ATOM	1723	C	LEU	30	144.752	106.361	-65.358	1.00	56.32	OS
ATOM	1671	C	SER	23	134.875	109.989	-60.900	1.00	56.00	OS15	ATOM	1724	N	LEU	30	144.849	106.081	-65.828	1.00	56.32	OS
ATOM	1672	O	SER	23	135.838	109.726	-61.620	1.00	56.00	OS15	ATOM	1725	O	LEU	31	143.387	106.009	-64.128	1.00	64.75	OS
ATOM	1673	N	THR	24	134.352	109.119	-60.045	1.00	46.97	OS15	ATOM	1726	CA	LEU	31	144.278	105.228	-63.278	1.00	64.75	OS
ATOM	1674	CA	THR	24	134.925	107.798	-59.906	1.00	46.97	OS15	ATOM	1727	CB	LEU	31	143.656	104.973	-61.907	1.00	48.91	OS
ATOM	1675	CB	THR	24	134.030	106.888	-59.077	1.00	50.02	OS15	ATOM	1728	CG	LEU	31	143.963	106.050	-60.871	1.00	48.91	OS
ATOM	1676	OG1	THR	24	133.919	107.421	-57.755	1.00	50.02	OS15	ATOM	1729	CD1	LEU	31	143.306	105.706	-59.527	1.00	48.91	OS
ATOM	1677	CG2	THR	24	134.624	105.488	-58.997	1.00	50.02	OS15	ATOM	1730	CD2	LEU	31	144.547	103.909	-63.952	1.00	64.75	OS
ATOM	1678	C	THR	24	135.177	107.153	-61.256	1.00	46.97	OS15	ATOM	1731	C	LEU	31	145.684	103.452	-64.011	1.00	64.75	OS
ATOM	1679	O	THR	24	136.319	106.833	-61.579	1.00	46.97	OS15	ATOM	1732	O	LEU	31	143.490	103.299	-64.469	1.00	52.69	OS
ATOM	1680	N	GLU	25	134.133	106.971	-62.058	1.00	58.01	OS15	ATOM	1733	N	THR	32	142.286	101.511	-65.626	1.00	49.05	OS
ATOM	1681	CA	GLU	25	134.313	106.345	-63.365	1.00	58.01	OS15	ATOM	1734	CA	THR	32	144.415	101.371	-64.499	1.00	49.05	OS
ATOM	1682	CB	GLU	25	133.035	106.447	-64.207	1.00	61.60	OS15	ATOM	1735	CB	THR	32	142.456	100.168	-66.297	1.00	49.05	OS
ATOM	1683	CG	GLU	25	131.960	105.410	-63.867	1.00	61.60	OS15	ATOM	1736	OG1	THR	32	141.415	101.371	-64.499	1.00	49.05	OS
ATOM	1684	CD	GLU	25	130.928	105.905	-62.848	1.00	61.60	OS15	ATOM	1737	CG2	THR	32	144.553	102.176	-66.352	1.00	52.69	OS
ATOM	1685	OEL	GLU	25	129.969	105.151	-62.555	1.00	61.60	OS15	ATOM	1738	C	THR	32	145.317	101.265	-66.667	1.00	52.69	OS
ATOM	1686	OEL	GLU	25	131.072	107.042	-62.347	1.00	61.60	OS15	ATOM	1739	O	THR	32	144.486	103.331	-67.010	1.00	59.42	OS
ATOM	1687	C	GLU	25	135.503	106.931	-64.135	1.00	58.01	OS15	ATOM	1740	N	LEU	33	145.331	103.592	-68.169	1.00	59.42	OS
ATOM	1688	O	GLU	25	136.413	106.190	-64.522	1.00	58.01	OS15	ATOM	1741	CA	LEU	33	145.074	104.998	-68.724	1.00	73.58	OS
ATOM	1689	N	VAL	26	135.510	108.247	-64.352	1.00	45.70	OS15	ATOM	1742	CB	LEU	33	145.693	105.339	-70.090	1.00	73.58	OS
ATOM	1690	CA	VAL	26	136.620	108.868	-65.072	1.00	45.70	OS15	ATOM	1743	CG	LEU	33	145.411	106.804	-70.423	1.00	73.58	OS
ATOM	1691	CB	VAL	26	137.746	110.991	-65.714	1.00	49.29	OS15	ATOM	1744	CD1	LEU	33	147.203	105.080	-70.083	1.00	73.58	OS
ATOM	1692	CG1	VAL	26	135.300	110.871	-65.807	1.00	49.29	OS15	ATOM	1745	CD2	LEU	33	146.785	103.478	-67.741	1.00	59.42	OS
ATOM	1693	CG2	VAL	26	137.922	108.471	-64.397	1.00	45.70	OS15	ATOM	1746	C	LEU	33	147.525	102.609	-68.210	1.00	59.42	OS
ATOM	1694	C	VAL	26	138.731	107.735	-64.960	1.00	45.70	OS15	ATOM	1747	O	LEU	33	147.180	104.377	-66.850	1.00	53.65	OS
ATOM	1695	O	VAL	26	138.101	108.958	-63.174	1.00	48.40	OS15	ATOM	1748	N	ARG	34	148.075	106.797	-65.637	1.00	58.90	OS
ATOM	1696	N	GLN	27	139.289	108.684	-62.375	1.00	48.40	OS15	ATOM	1749	CA	ARG	34	148.616	105.459	-65.220	1.00	58.90	OS
ATOM	1697	CA	GLN	27	139.042	109.068	-60.921	1.00	50.13	OS15	ATOM	1751	CG	ARG	34	148.406	107.846	-64.619	1.00	58.90	OS
ATOM	1698	CB	GLN	27	139.428	110.502	-60.604	1.00	50.13	OS15	ATOM	1752	CD	ARG	34	149.848	107.909	-64.435	1.00	58.90	OS
ATOM	1699	CG	GLN	27	139.209	110.849	-59.147	1.00	50.13	OS15	ATOM	1753	NE	ARG	34	150.445	108.512	-63.413	1.00	58.90	OS
ATOM	1700	OEL	GLN	27	139.579	110.089	-58.256	1.00	50.13	OS15	ATOM	1754	CZ	ARG	34	149.716	109.118	-62.477	1.00	58.90	OS
ATOM	1701	OE1	GLN	27	138.613	112.007	-58.899	1.00	50.13	OS15	ATOM	1755	NH1	ARG	34	151.770	108.475	-63.309	1.00	58.90	OS
ATOM	1702	NE2	GLN	27	139.796	107.255	-62.434	1.00	48.40	OS15	ATOM	1756	NH2	ARG	34	149.007	103.052	-65.802	1.00	53.65	OS
ATOM	1703	C	GLN	27	140.987	107.030	-62.651	1.00	48.40	OS15	ATOM	1757	O	ARG	34	150.083	102.577	-66.186	1.00	53.65	OS
ATOM	1704	O	GLN	27	138.908	106.290	-62.226	1.00	44.31	OS15	ATOM	1758	C	ARG	34	148.215	102.426	-64.932	1.00	43.97	OS
ATOM	1705	N	VAL	28	139.314	104.891	-62.279	1.00	44.31	OS15	ATOM	1759	N	ILE	35	148.597	101.129	-64.393	1.00	43.97	OS
ATOM	1706	CA	VAL	28	138.165	103.941	-61.865	1.00	34.10	OS15	ATOM	1760	CA	ILE	35	147.884	99.014	-63.255	1.00	43.80	OS
ATOM	1707	CB	VAL	28	137.782	104.194	-60.412	1.00	34.10	OS15	ATOM	1761	CB	ILE	35	147.052	101.209	-62.402	1.00	43.80	OS
ATOM	1708	CG1	VAL	28	139.601	102.493	-62.033	1.00	34.10	OS15	ATOM	1762	CG2	ILE	35	145.866	100.623	-61.647	1.00	43.80	OS
ATOM	1709	CG2	VAL	28	139.781	104.523	-63.684	1.00	44.31	OS15	ATOM	1763	CG1	ILE	35	149.042	100.212	-65.517	1.00	43.97	OS
ATOM	1710	C	VAL	28	140.624	103.642	-63.855	1.00	44.31	OS15	ATOM	1764	CD1	ILE	35	150.051	99.515	-65.403	1.00	43.97	OS
ATOM	1711	O	VAL	28	139.238	105.197	-64.689	1.00	58.29	OS15	ATOM	1765	C	ILE	35	148.294	100.212	-66.611	1.00	54.91	OS
ATOM	1712	N	ALA	29	138.642	104.918	-66.058	1.00	58.29	OS15	ATOM	1766	O	ILE	35						OS
ATOM	1713	CA	ALA	29	138.716	105.622	-67.034	1.00	76.10	OS15	ATOM	1767	N	ASN	36						OS

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ATOM	1768	CA	ASN	36	148.637	99.359	-67.736	1.00	54.91	OS15	ATOM	1821	CB	LEU	42	157.314	97.072	-64.390	1.00	42.74	OS
ATOM	1769	CB	ASN	36	147.498	99.387	-68.742	1.00	57.08	OS15	ATOM	1822	CG	LEU	42	157.205	98.459	-63.769	1.00	42.74	OS
ATOM	1770	CG	ASN	36	146.271	98.659	-68.223	1.00	57.08	OS15	ATOM	1823	CD1	LEU	42	156.387	98.382	-62.494	1.00	42.74	OS
ATOM	1771	OD1	ASN	36	145.186	98.765	-68.782	1.00	57.08	OS15	ATOM	1824	CD2	LEU	42	158.595	99.003	-63.496	1.00	42.74	OS
ATOM	1772	ND2	ASN	36	146.447	97.905	-67.142	1.00	57.08	OS15	ATOM	1825	C	LEU	42	158.169	95.601	-66.206	1.00	44.94	OS
ATOM	1773	C	ASN	36	149.963	99.766	-68.358	1.00	54.91	OS15	ATOM	1826	C	LEU	42	158.884	94.834	-65.559	1.00	44.94	OS
ATOM	1774	O	ASN	36	150.846	98.932	-68.543	1.00	54.91	OS15	ATOM	1827	N	LYS	43	157.505	95.209	-67.296	1.00	60.07	OS
ATOM	1775	N	ARG	37	150.116	101.048	-68.661	1.00	50.80	OS15	ATOM	1828	CA	LYS	43	157.666	93.846	-67.803	1.00	60.07	OS
ATOM	1776	CB	ARG	37	151.371	101.526	-69.229	1.00	50.80	OS15	ATOM	1829	CB	LYS	43	156.770	93.578	-69.010	1.00	135.02	OS
ATOM	1777	CG	ARG	37	151.342	103.046	-69.396	1.00	82.97	OS15	ATOM	1830	CG	LYS	43	155.353	93.159	-68.664	1.00	135.02	OS
ATOM	1778	CG	ARG	37	150.416	103.526	-70.467	1.00	82.97	OS15	ATOM	1831	CD	LYS	43	154.600	92.744	-69.921	1.00	135.02	OS
ATOM	1779	CD	ARG	37	150.767	102.901	-71.812	1.00	82.97	OS15	ATOM	1832	CE	LYS	43	153.175	92.314	-69.612	1.00	135.02	OS
ATOM	1780	NE	ARG	37	150.064	103.567	-72.903	1.00	82.97	OS15	ATOM	1833	NZ	LYS	43	152.474	91.829	-70.838	1.00	135.02	OS
ATOM	1781	CZ	ARG	37	150.226	104.850	-73.210	1.00	82.97	OS15	ATOM	1834	C	LYS	43	159.112	93.857	-68.231	1.00	60.07	OS
ATOM	1783	NH1	ARG	37	151.075	105.599	-72.509	1.00	82.97	OS15	ATOM	1835	N	LYS	43	159.874	92.946	-67.934	1.00	60.07	OS
ATOM	1784	C	ARG	37	152.555	101.158	-68.322	1.00	50.80	OS15	ATOM	1837	CA	VAL	44	160.841	95.137	-69.371	1.00	86.69	OS
ATOM	1785	O	ARG	37	153.581	100.658	-68.789	1.00	50.80	OS15	ATOM	1838	CB	VAL	44	160.898	96.089	-70.555	1.00	58.63	OS
ATOM	1787	CA	LEU	38	153.390	101.421	-67.028	1.00	52.90	OS15	ATOM	1839	CG1	VAL	44	162.318	96.534	-70.788	1.00	58.63	OS
ATOM	1788	CB	LEU	38	153.420	101.162	-66.034	1.00	52.90	OS15	ATOM	1840	CG2	VAL	44	160.348	95.412	-71.774	1.00	58.63	OS
ATOM	1789	CG	LEU	38	153.003	101.784	-64.692	1.00	68.68	OS15	ATOM	1841	C	VAL	44	161.279	95.892	-68.137	1.00	86.69	OS
ATOM	1790	CD1	LEU	38	154.073	102.331	-63.732	1.00	68.68	OS15	ATOM	1842	O	VAL	44	160.428	96.385	-67.409	1.00	86.69	OS
ATOM	1791	CD2	LEU	38	153.393	102.867	-62.478	1.00	68.68	OS15	ATOM	1843	N	HIS	45	162.565	96.004	-67.863	1.00	56.33	OS
ATOM	1792	C	LEU	38	155.074	101.246	-63.373	1.00	68.68	OS15	ATOM	1844	CA	HIS	45	162.962	96.742	-66.655	1.00	56.33	OS
ATOM	1793	O	LEU	38	153.669	99.663	-65.871	1.00	52.90	OS15	ATOM	1845	CB	HIS	45	162.482	98.197	-66.722	1.00	59.88	OS
ATOM	1794	N	SER	39	154.591	99.220	-65.776	1.00	50.37	OS15	ATOM	1846	CG	HIS	45	162.770	98.877	-68.024	1.00	59.88	OS
ATOM	1795	CA	SER	39	152.730	97.442	-65.688	1.00	50.37	OS15	ATOM	1847	CD2	HIS	45	163.916	99.400	-68.524	1.00	59.88	OS
ATOM	1796	CB	SER	39	151.364	96.763	-65.644	1.00	100.06.94	OS15	ATOM	1848	NH1	HIS	45	161.803	99.091	-68.981	1.00	59.88	OS
ATOM	1797	OG	SER	39	150.731	96.991	-64.397	1.00	100.06.94	OS15	ATOM	1849	CE1	HIS	45	162.339	99.120	-70.013	1.00	59.88	OS
ATOM	1798	C	SER	39	153.530	96.949	-66.875	1.00	50.37	OS15	ATOM	1850	NE2	HIS	45	163.620	99.920	-69.761	1.00	59.88	OS
ATOM	1799	O	SER	39	154.416	96.114	-66.727	1.00	50.37	OS15	ATOM	1851	C	HIS	45	162.422	96.127	-65.349	1.00	56.33	OS
ATOM	1800	N	GLU	40	153.220	97.486	-68.050	1.00	67.37	OS15	ATOM	1852	O	HIS	45	161.789	96.819	-64.554	1.00	56.33	OS
ATOM	1801	CA	GLU	40	153.923	97.127	-69.276	1.00	67.37	OS15	ATOM	1853	N	LYS	46	162.670	94.839	-65.126	1.00	71.66	OS
ATOM	1802	CB	GLU	40	153.389	97.949	-70.446	1.00	91.89	OS15	ATOM	1854	CA	LYS	46	162.212	94.182	-63.904	1.00	71.66	OS
ATOM	1803	CG	GLU	40	152.288	97.269	-71.198	1.00	91.89	OS15	ATOM	1855	CB	LYS	46	162.579	92.692	-63.911	1.00	80.69	OS
ATOM	1804	CD	GLU	40	152.767	95.984	-71.825	1.00	91.89	OS15	ATOM	1856	CG	LYS	46	162.276	91.927	-65.191	1.00	80.69	OS
ATOM	1805	OE1	GLU	40	152.166	94.925	-71.554	1.00	91.89	OS15	ATOM	1857	CD	LYS	46	160.807	91.582	-65.340	1.00	80.69	OS
ATOM	1806	OE2	GLU	40	153.752	96.038	-72.587	1.00	91.89	OS15	ATOM	1858	CE	LYS	46	160.600	90.618	-66.502	1.00	80.69	OS
ATOM	1807	C	GLU	40	155.395	97.430	-69.096	1.00	67.37	OS15	ATOM	1859	NZ	LYS	46	159.159	90.306	-66.747	1.00	80.69	OS
ATOM	1808	O	GLU	40	156.253	96.548	-69.148	1.00	67.37	OS15	ATOM	1860	C	LYS	46	162.890	94.830	-62.689	1.00	71.66	OS
ATOM	1809	N	HIS	41	155.664	98.709	-68.898	1.00	57.99	OS15	ATOM	1861	O	LYS	46	162.482	94.609	-61.550	1.00	71.66	OS
ATOM	1810	CA	HIS	41	157.005	99.214	-68.695	1.00	57.99	OS15	ATOM	1862	N	LYS	47	163.926	95.626	-62.937	1.00	58.48	OS
ATOM	1811	CB	HIS	41	156.923	100.590	-68.067	1.00	57.46	OS15	ATOM	1863	CA	LYS	47	164.667	96.266	-61.861	1.00	58.48	OS
ATOM	1812	CG	HIS	41	158.213	101.061	-67.489	1.00	57.46	OS15	ATOM	1864	CB	LYS	47	166.165	96.167	-62.130	1.00	75.53	OS
ATOM	1813	CD2	HIS	41	158.616	101.190	-66.204	1.00	57.46	OS15	ATOM	1865	CG	LYS	47	166.719	94.750	-62.051	1.00	75.53	OS
ATOM	1814	ND1	HIS	41	159.276	101.462	-68.269	1.00	57.46	OS15	ATOM	1866	CD	LYS	47	168.213	94.750	-62.351	1.00	75.53	OS
ATOM	1815	CE1	HIS	41	159.902	101.667	-66.231	1.00	57.46	OS15	ATOM	1867	CE	LYS	47	169.525	95.260	-63.760	1.00	75.53	OS
ATOM	1816	NE2	HIS	41	157.843	98.313	-67.805	1.00	57.99	OS15	ATOM	1868	NZ	LYS	47	164.340	97.714	-61.564	1.00	58.48	OS
ATOM	1817	C	HIS	41	158.977	98.004	-68.135	1.00	57.99	OS15	ATOM	1869	C	LYS	47	165.005	98.318	-60.736	1.00	58.48	OS
ATOM	1818	O	HIS	41	158.286	97.903	-66.670	1.00	44.94	OS15	ATOM	1870	O	LYS	47	163.352	98.293	-62.236	1.00	62.41	OS
ATOM	1819	N	LEU	42	158.004	97.047	-65.743	1.00	44.94	OS15	ATOM	1871	N	ASP	48	163.006	99.684	-61.957	1.00	62.41	OS
ATOM	1820	CA	LEU	42						OS15	ATOM	1872	CA	ASP	48	162.242	100.296	-63.128	1.00	58.45	OS
											ATOM	1873	CB	ASP	48						OS

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ATOM	1874	CG	ASP	48	162.021	101.797	-62.965	1.00	58.45	OS15	ATOM	1927	CA	GLY	54	154.422	104.297	-58.059	1.00	56.81	OS
ATOM	1875	ODI	ASP	48	161.811	102.252	-61.821	1.00	58.45	OS15	ATOM	1928	C	GLY	54	153.233	103.407	-58.351	1.00	56.81	OS
ATOM	1876	OD2	ASP	48	162.045	102.533	-63.976	1.00	58.45	OS15	ATOM	1929	O	GLY	54	152.128	103.652	-57.868	1.00	56.81	OS
ATOM	1877	C	ASP	48	162.122	99.678	-60.712	1.00	62.41	OS15	ATOM	1930	N	LEU	55	153.473	102.357	-59.130	1.00	45.77	OS
ATOM	1878	O	ASP	48	160.937	99.981	-60.784	1.00	62.41	OS15	ATOM	1931	CA	LEU	55	152.440	101.405	-59.503	1.00	45.77	OS
ATOM	1879	N	HIS	49	162.700	99.334	-59.568	1.00	52.05	OS15	ATOM	1932	CB	LEU	55	153.070	100.181	-60.153	1.00	42.68	OS
ATOM	1880	CA	HIS	49	161.933	99.265	-58.341	1.00	52.05	OS15	ATOM	1933	CG	LEU	55	152.118	99.012	-60.414	1.00	42.68	OS
ATOM	1881	CB	HIS	49	162.811	98.837	-57.176	1.00	54.37	OS15	ATOM	1934	CD1	LEU	55	151.045	99.441	-61.396	1.00	42.68	OS
ATOM	1882	CG	HIS	49	163.460	97.507	-57.369	1.00	54.37	OS15	ATOM	1935	CD2	LEU	55	152.892	97.833	-60.970	1.00	42.68	OS
ATOM	1883	CD2	HIS	49	164.745	97.112	-57.212	1.00	54.37	OS15	ATOM	1936	C	LEU	55	151.626	100.950	-58.306	1.00	45.77	OS
ATOM	1884	ND1	HIS	49	162.760	96.394	-57.775	1.00	54.37	OS15	ATOM	1937	O	LEU	55	150.400	100.915	-58.352	1.00	45.77	OS
ATOM	1885	CE1	HIS	49	163.588	95.368	-57.863	1.00	54.37	OS15	ATOM	1938	N	LEU	56	152.319	100.595	-57.231	1.00	60.97	OS
ATOM	1886	NE2	HIS	49	164.799	95.777	-57.527	1.00	54.37	OS15	ATOM	1939	CA	LEU	56	151.659	100.112	-56.022	1.00	60.97	OS
ATOM	1887	C	HIS	49	161.267	100.564	-57.973	1.00	52.05	OS15	ATOM	1940	CB	LEU	56	152.690	99.688	-54.979	1.00	52.28	OS
ATOM	1888	O	HIS	49	160.131	100.571	-57.516	1.00	52.05	OS15	ATOM	1941	CG	LEU	56	152.653	98.181	-54.738	1.00	52.28	OS
ATOM	1889	N	HIS	50	161.964	101.672	-58.148	1.00	44.24	OS15	ATOM	1942	CD1	LEU	56	152.576	97.432	-56.069	1.00	52.28	OS
ATOM	1890	CA	HIS	50	161.376	102.942	-57.785	1.00	44.24	OS15	ATOM	1943	CD2	LEU	56	153.878	97.776	-53.954	1.00	52.28	OS
ATOM	1891	CB	HIS	50	162.344	104.066	-58.097	1.00	52.43	OS15	ATOM	1944	C	LEU	56	150.730	101.118	-55.413	1.00	60.97	OS
ATOM	1892	CG	HIS	50	163.487	104.125	-57.138	1.00	52.43	OS15	ATOM	1945	O	LEU	56	149.726	100.750	-54.814	1.00	60.97	OS
ATOM	1893	CD2	HIS	50	163.978	105.139	-56.391	1.00	52.43	OS15	ATOM	1946	N	LEU	57	151.077	102.387	-55.553	1.00	58.51	OS
ATOM	1894	ND1	HIS	50	164.222	103.010	-56.800	1.00	52.43	OS15	ATOM	1947	CA	MET	57	150.249	103.440	-55.009	1.00	58.51	OS
ATOM	1895	CE1	HIS	50	164.985	104.619	-55.613	1.00	52.43	OS15	ATOM	1948	CB	MET	57	151.036	104.750	-54.916	1.00	60.38	OS
ATOM	1896	NE2	HIS	50	160.042	103.163	-58.449	1.00	44.24	OS15	ATOM	1949	CG	MET	57	152.248	100.682	-54.001	1.00	60.38	OS
ATOM	1897	C	HIS	50	159.069	103.485	-57.773	1.00	44.24	OS15	ATOM	1950	SD	MET	57	152.951	106.320	-53.629	1.00	60.38	OS
ATOM	1898	O	HIS	50	159.982	102.977	-59.762	1.00	43.84	OS15	ATOM	1951	CE	MET	57	153.955	106.623	-55.080	1.00	60.38	OS
ATOM	1899	N	SER	51	158.723	103.149	-60.482	1.00	43.84	OS15	ATOM	1952	C	MET	57	149.052	103.605	-55.927	1.00	58.51	OS
ATOM	1900	CA	SER	51	158.920	102.895	-61.524	1.00	45.25	OS15	ATOM	1953	O	MET	58	147.923	103.735	-55.463	1.00	58.51	OS
ATOM	1901	CB	SER	51	159.848	103.810	-62.524	1.00	45.25	OS15	ATOM	1954	N	MET	58	149.312	103.588	-57.230	1.00	43.23	OS
ATOM	1902	OG	SER	51	156.681	102.172	-59.933	1.00	43.84	OS15	ATOM	1955	CA	MET	58	148.266	103.732	-58.232	1.00	43.23	OS
ATOM	1903	C	SER	51	156.504	102.487	-59.852	1.00	43.84	OS15	ATOM	1956	CB	MET	58	148.864	103.637	-59.630	1.00	68.30	OS
ATOM	1904	O	SER	51	158.119	100.991	-59.530	1.00	40.44	OS15	ATOM	1957	SD	MET	58	149.681	104.849	-60.021	1.00	68.30	OS
ATOM	1905	N	HIS	52	157.190	100.013	-59.015	1.00	40.44	OS15	ATOM	1958	CE	MET	58	150.516	104.659	-61.607	1.00	68.30	OS
ATOM	1906	CA	HIS	52	157.901	98.709	-58.686	1.00	48.77	OS15	ATOM	1959	CE	MET	58	149.297	103.707	-62.522	1.00	68.30	OS
ATOM	1907	CB	HIS	52	156.983	97.646	-58.819	1.00	48.77	OS15	ATOM	1960	C	MET	58	147.221	102.642	-58.056	1.00	43.23	OS
ATOM	1908	CG	HIS	52	156.289	96.679	-58.819	1.00	48.77	OS15	ATOM	1961	O	MET	58	146.019	102.908	-57.932	1.00	43.23	OS
ATOM	1909	CD2	HIS	52	156.663	97.519	-56.838	1.00	48.77	OS15	ATOM	1962	N	VAL	59	147.686	101.404	-58.051	1.00	51.67	OS
ATOM	1910	ND1	HIS	52	155.814	96.518	-56.684	1.00	48.77	OS15	ATOM	1963	CA	VAL	59	146.788	100.285	-57.878	1.00	51.67	OS
ATOM	1911	CE1	HIS	52	155.569	95.993	-57.871	1.00	48.77	OS15	ATOM	1964	CB	VAL	59	147.557	98.977	-57.786	1.00	27.06	OS
ATOM	1912	NE2	HIS	52	156.420	100.495	-57.800	1.00	40.44	OS15	ATOM	1965	CG1	VAL	59	146.636	97.886	-57.280	1.00	27.06	OS
ATOM	1913	C	HIS	52	155.285	100.053	-57.561	1.00	40.44	OS15	ATOM	1966	CG2	VAL	59	148.131	98.621	-59.160	1.00	27.06	OS
ATOM	1914	O	HIS	52	157.021	101.380	-57.012	1.00	52.73	OS15	ATOM	1967	C	VAL	59	145.989	100.452	-56.601	1.00	51.67	OS
ATOM	1915	N	ARG	53	156.304	101.885	-55.849	1.00	52.73	OS15	ATOM	1968	O	VAL	59	144.825	100.072	-56.533	1.00	51.67	OS
ATOM	1916	CA	ARG	53	157.223	102.696	-54.942	1.00	42.35	OS15	ATOM	1969	N	GLY	60	146.626	101.024	-55.589	1.00	42.36	OS
ATOM	1917	CB	ARG	53	156.483	103.479	-53.890	1.00	42.35	OS15	ATOM	1970	CA	GLY	60	145.967	101.211	-54.314	1.00	42.36	OS
ATOM	1918	CG	ARG	53	157.386	103.815	-52.729	1.00	42.35	OS15	ATOM	1971	O	GLY	60	144.859	102.208	-54.441	1.00	42.36	OS
ATOM	1919	CD	ARG	53	156.790	104.794	-51.816	1.00	42.35	OS15	ATOM	1972	C	GLY	60	145.208	103.411	-54.886	1.00	60.42	OS
ATOM	1920	NE	ARG	53	156.608	106.074	-52.123	1.00	42.35	OS15	ATOM	1973	N	GLN	61	144.239	104.480	-55.060	1.00	60.42	OS
ATOM	1921	C2	ARG	53	156.969	106.529	-53.311	1.00	42.35	OS15	ATOM	1974	CA	GLN	61	144.903	105.684	-55.724	1.00	57.69	OS
ATOM	1922	NH1	ARG	53	156.085	106.906	-51.248	1.00	42.35	OS15	ATOM	1975	CB	GLN	61	143.997	106.906	-55.929	1.00	57.69	OS
ATOM	1923	NH2	ARG	53	155.173	102.755	-56.373	1.00	52.73	OS15	ATOM	1976	CG	GLN	61	143.467	107.522	-54.629	1.00	57.69	OS
ATOM	1924	C	ARG	53	154.084	102.781	-55.809	1.00	52.73	OS15	ATOM	1977	CD	GLN	61	144.200	107.658	-53.650	1.00	57.69	OS
ATOM	1925	O	ARG	53	155.442	103.460	-57.467	1.00	56.81	OS15	ATOM	1978	OE1	GLN	61	142.189	107.919	-54.632	1.00	57.69	OS
ATOM	1926	N	GLY	54						OS15	ATOM	1979	NE2	GLN	61						OS

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ATOM	1980	C	GLN	61	143.077	103.984	-55.906	1.00	60.42	OS15	ATOM	2033	CB	ARG	67	136.627	100.273	-51.916	1.00	78.77	OS
ATOM	1981	O	GLN	61	141.936	104.396	-55.703	1.00	60.42	OS15	ATOM	2034	CG	ARG	67	135.986	100.098	-50.553	1.00	78.77	OS
ATOM	1982	N	ARG	62	143.348	103.096	-56.855	1.00	45.75	OS15	ATOM	2035	CD	ARG	67	137.035	100.229	-49.482	1.00	78.77	OS
ATOM	1983	CA	ARG	62	142.254	102.596	-57.669	1.00	45.75	OS15	ATOM	2036	NE	ARG	67	138.146	99.334	-49.773	1.00	78.77	OS
ATOM	1984	CB	ARG	62	142.760	101.803	-58.866	1.00	53.09	OS15	ATOM	2037	CZ	ARG	67	139.423	99.613	-49.529	1.00	78.77	OS
ATOM	1985	CG	ARG	62	141.628	101.393	-59.795	1.00	53.09	OS15	ATOM	2038	NH1	ARG	67	139.770	100.776	-48.981	1.00	78.77	OS
ATOM	1986	CD	ARG	62	142.134	100.824	-61.106	1.00	53.09	OS15	ATOM	2039	NH2	ARG	67	140.357	98.728	-49.855	1.00	78.77	OS
ATOM	1987	NE	ARG	62	142.826	99.555	-60.920	1.00	53.09	OS15	ATOM	2040	C	ARG	67	134.475	101.122	-52.764	1.00	43.64	OS
ATOM	1988	CZ	ARG	62	143.205	98.764	-61.918	1.00	53.09	OS15	ATOM	2041	O	ARG	67	133.397	100.675	-52.380	1.00	43.64	OS
ATOM	1989	NH1	ARG	62	142.963	99.111	-63.177	1.00	53.09	OS15	ATOM	2042	N	TYR	68	134.712	102.416	-52.937	1.00	51.54	OS
ATOM	1990	NH2	ARG	62	143.821	97.621	-61.657	1.00	53.09	OS15	ATOM	2043	CA	TYR	68	133.710	103.437	-52.668	1.00	48.37	OS
ATOM	1991	C	ARG	62	141.366	101.710	-56.818	1.00	45.75	OS15	ATOM	2044	CB	TYR	68	134.346	104.822	-52.711	1.00	48.37	OS
ATOM	1992	O	ARG	62	140.159	101.924	-56.734	1.00	45.75	OS15	ATOM	2045	CG	TYR	68	133.338	105.931	-52.797	1.00	48.37	OS
ATOM	1993	N	ARG	63	141.973	100.713	-56.186	1.00	53.70	OS15	ATOM	2046	CD1	TYR	68	132.672	106.377	-51.665	1.00	48.37	OS
ATOM	1994	CA	ARG	63	141.249	99.786	-55.327	1.00	53.70	OS15	ATOM	2047	CE1	TYR	68	131.738	107.410	-51.735	1.00	48.37	OS
ATOM	1995	CB	ARG	63	142.250	98.915	-54.564	1.00	53.70	OS15	ATOM	2048	CD2	TYR	68	133.046	106.533	-54.012	1.00	48.37	OS
ATOM	1996	CG	ARG	63	141.648	98.048	-53.487	1.00	53.70	OS15	ATOM	2049	CE2	TYR	68	132.111	107.562	-54.098	1.00	48.37	OS
ATOM	1997	CD	ARG	63	142.221	96.650	-53.552	1.00	53.70	OS15	ATOM	2050	CH	TYR	68	131.462	107.997	-52.953	1.00	48.37	OS
ATOM	1998	NE	ARG	63	141.846	95.997	-54.805	1.00	53.70	OS15	ATOM	2051	OH	TYR	68	130.546	109.018	-53.024	1.00	48.37	OS
ATOM	1999	CZ	ARG	63	142.046	94.709	-55.081	1.00	53.70	OS15	ATOM	2052	C	TYR	68	132.579	103.410	-53.661	1.00	51.54	OS
ATOM	2000	NH1	ARG	63	142.628	93.912	-54.191	1.00	53.70	OS15	ATOM	2053	O	TYR	68	131.431	103.653	-53.308	1.00	51.54	OS
ATOM	2001	NH2	ARG	63	141.650	94.215	-56.252	1.00	53.70	OS15	ATOM	2054	CA	LEU	69	132.918	103.153	-54.917	1.00	44.57	OS
ATOM	2002	C	ARG	63	140.351	100.554	-54.356	1.00	53.70	OS15	ATOM	2055	CB	LEU	69	131.921	103.110	-55.968	1.00	44.57	OS
ATOM	2003	O	ARG	63	139.258	100.117	-54.015	1.00	52.54	OS15	ATOM	2056	CG	LEU	69	132.596	102.931	-55.333	1.00	61.87	OS
ATOM	2004	N	ARG	64	140.812	101.716	-53.924	1.00	52.54	OS15	ATOM	2057	CG	LEU	69	131.779	103.271	-58.589	1.00	61.87	OS
ATOM	2005	CB	ARG	64	140.039	102.512	-52.992	1.00	52.54	OS15	ATOM	2058	CD1	LEU	69	130.677	102.251	-58.780	1.00	61.87	OS
ATOM	2006	CG	ARG	64	141.083	103.336	-50.863	1.00	66.92	OS15	ATOM	2059	CD2	LEU	69	131.197	104.676	-58.472	1.00	61.87	OS
ATOM	2007	CG	ARG	64	142.527	103.531	-50.508	1.00	66.92	OS15	ATOM	2060	C	LEU	69	129.981	101.955	-55.668	1.00	44.57	OS
ATOM	2008	CD	ARG	64	143.107	104.679	-51.189	1.00	66.92	OS15	ATOM	2061	O	LEU	69	129.799	102.165	-55.467	1.00	44.57	OS
ATOM	2009	NE	ARG	64	144.401	104.809	-51.448	1.00	66.92	OS15	ATOM	2062	N	GLN	70	131.505	100.738	-55.614	1.00	48.41	OS
ATOM	2010	NH1	ARG	64	145.249	103.856	-51.077	1.00	66.92	OS15	ATOM	2063	CA	GLN	70	131.484	98.343	-55.085	1.00	100.55	OS
ATOM	2011	CG	ARG	64	144.845	105.881	-52.089	1.00	66.92	OS15	ATOM	2064	CB	GLN	70	130.656	99.593	-55.329	1.00	48.41	OS
ATOM	2012	NH2	ARG	64	138.850	103.182	-53.666	1.00	52.54	OS15	ATOM	2065	CG	GLN	70	130.633	97.161	-54.693	1.00	100.55	OS
ATOM	2013	C	ARG	64	137.731	103.119	-53.149	1.00	52.54	OS15	ATOM	2066	CD	GLN	70	131.452	96.023	-54.150	1.00	100.55	OS
ATOM	2014	O	ARG	64	139.093	103.832	-54.806	1.00	50.03	OS15	ATOM	2067	CE1	GLN	70	132.118	96.162	-53.124	1.00	100.55	OS
ATOM	2015	N	LEU	65	138.027	104.493	-55.538	1.00	50.03	OS15	ATOM	2068	NE2	GLN	70	131.415	94.883	-54.834	1.00	100.55	OS
ATOM	2016	CA	LEU	65	138.530	105.030	-56.870	1.00	32.66	OS15	ATOM	2069	C	GLN	70	129.821	99.866	-54.095	1.00	48.41	OS
ATOM	2017	CB	LEU	65	139.208	106.405	-56.941	1.00	32.66	OS15	ATOM	2070	O	GLN	70	128.631	99.577	-54.064	1.00	48.41	OS
ATOM	2018	CG	LEU	65	139.381	106.720	-58.395	1.00	32.66	OS15	ATOM	2071	N	ARG	71	130.454	100.419	-53.069	1.00	51.54	OS
ATOM	2019	CD1	LEU	65	138.370	107.516	-56.298	1.00	32.66	OS15	ATOM	2072	CA	ARG	71	129.759	100.738	-51.833	1.00	51.54	OS
ATOM	2020	CD2	LEU	65	136.911	103.499	-55.788	1.00	50.03	OS15	ATOM	2073	CB	ARG	71	130.736	101.336	-50.818	1.00	82.72	OS
ATOM	2021	C	LEU	65	135.760	103.760	-55.446	1.00	50.03	OS15	ATOM	2074	CG	ARG	71	130.070	102.005	-49.634	1.00	82.72	OS
ATOM	2022	O	LEU	65	137.250	102.356	-56.381	1.00	51.43	OS15	ATOM	2075	CD	ARG	71	132.205	102.044	-48.439	1.00	82.72	OS
ATOM	2023	CA	LEU	66	136.257	101.324	-56.648	1.00	51.43	OS15	ATOM	2076	NE	ARG	71	132.002	102.839	-48.667	1.00	82.72	OS
ATOM	2024	CB	LEU	66	137.915	99.108	-59.331	1.00	45.39	OS15	ATOM	2077	CZ	ARG	71	132.225	104.168	-48.710	1.00	82.72	OS
ATOM	2025	CG	LEU	66	137.488	100.405	-58.690	1.00	45.39	OS15	ATOM	2078	NH1	ARG	71	131.102	104.860	-48.543	1.00	82.72	OS
ATOM	2026	CD1	LEU	66	136.437	101.074	-59.547	1.00	45.39	OS15	ATOM	2079	NH2	ARG	71	128.635	101.719	-52.105	1.00	82.72	OS
ATOM	2027	CD2	LEU	66	135.520	100.876	-55.374	1.00	51.43	OS15	ATOM	2080	C	ARG	71	127.549	101.583	-51.566	1.00	51.54	OS
ATOM	2028	C	LEU	66	134.296	100.757	-55.358	1.00	51.43	OS15	ATOM	2081	O	ARG	72	128.893	102.688	-52.975	1.00	61.58	OS
ATOM	2029	N	ARG	67	135.635	100.201	-53.066	1.00	43.64	OS15	ATOM	2082	N	GLU	72	127.917	103.720	-53.297	1.00	61.58	OS
ATOM	2030	O	LEU	67	136.260	100.618	-54.305	1.00	43.64	OS15	ATOM	2083	CA	GLU	72	128.634	105.065	-53.426	1.00	90.37	OS
ATOM	2031	N	ARG	67	135.635	100.201	-53.066	1.00	43.64	OS15	ATOM	2084	CB	GLU	72	127.909	106.187	-52.738	1.00	90.37	OS
ATOM	2032	CA	ARG	67	135.635	100.201	-53.066	1.00	43.64	OS15	ATOM	2085	CG	GLU	72	127.909	106.187	-52.738	1.00	90.37	OS

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ATOM	2086	CD	GLU	72	127.822	105.958	-51.246	1.00	90.37	OS15	ATOM	2139	CA	ARG	78	129.748	96.368	-62.350	1.00	85.45	OS
ATOM	2087	OE1	GLU	72	126.961	106.589	-50.597	1.00	90.37	OS15	ATOM	2140	CB	ARG	78	128.423	95.603	-62.444	1.00	117.55	OS
ATOM	2088	OE2	GLU	72	128.622	105.150	-50.723	1.00	90.37	OS15	ATOM	2141	CG	ARG	78	128.044	94.835	-61.192	1.00	117.55	OS
ATOM	2089	C	GLU	72	127.054	103.505	-54.545	1.00	61.58	OS15	ATOM	2142	CD	ARG	78	126.680	94.169	-61.348	1.00	117.55	OS
ATOM	2090	O	GLU	72	126.347	104.421	-54.955	1.00	61.58	OS15	ATOM	2143	NE	ARG	78	126.226	93.555	-60.102	1.00	117.55	OS
ATOM	2091	N	ASP	73	127.106	102.320	-55.152	1.00	65.64	OS15	ATOM	2144	CZ	ARG	78	125.920	94.232	-58.998	1.00	117.55	OS
ATOM	2092	CA	ASP	73	126.317	102.030	-56.357	1.00	65.64	OS15	ATOM	2145	NH1	ARG	78	126.011	95.553	-58.981	1.00	117.55	OS
ATOM	2093	CB	ASP	73	126.329	103.226	-57.313	1.00	95.29	OS15	ATOM	2146	NH2	ARG	78	125.537	93.588	-57.903	1.00	117.55	OS
ATOM	2094	CG	ASP	73	125.282	103.109	-58.398	1.00	95.29	OS15	ATOM	2147	C	ARG	78	130.062	96.983	-63.705	1.00	85.45	OS
ATOM	2095	OD1	ASP	73	125.229	102.054	-59.066	1.00	95.29	OS15	ATOM	2148	O	ARG	79	130.988	96.558	-64.393	1.00	85.45	OS
ATOM	2096	OD2	ASP	73	124.515	104.078	-58.580	1.00	95.29	OS15	ATOM	2149	N	ALA	79	129.982	97.995	-64.071	1.00	69.26	OS
ATOM	2097	C	ASP	73	126.870	100.812	-57.094	1.00	65.64	OS15	ATOM	2150	CA	ALA	79	129.457	98.696	-65.337	1.00	69.26	OS
ATOM	2098	O	ASP	73	127.586	100.942	-58.090	1.00	65.64	OS15	ATOM	2151	CB	ALA	79	128.628	99.977	-65.335	1.00	50.79	OS
ATOM	2099	N	PRO	74	126.533	99.608	-56.619	1.00	56.29	OS15	ATOM	2152	C	ALA	79	130.925	99.029	-65.587	1.00	69.26	OS
ATOM	2100	CD	PRO	74	125.624	99.299	-55.508	1.00	42.97	OS15	ATOM	2153	O	ALA	79	131.473	98.706	-66.645	1.00	69.26	OS
ATOM	2101	CA	PRO	74	127.015	98.377	-57.250	1.00	56.29	OS15	ATOM	2154	N	LEU	80	131.553	99.672	-64.603	1.00	77.98	OS
ATOM	2102	CB	PRO	74	126.291	97.275	-56.476	1.00	42.97	OS15	ATOM	2155	CA	LEU	80	132.956	100.065	-64.697	1.00	77.98	OS
ATOM	2103	CG	PRO	74	125.091	97.967	-55.931	1.00	42.97	OS15	ATOM	2156	CB	LEU	80	133.403	100.808	-63.435	1.00	44.83	OS
ATOM	2104	C	PRO	74	126.788	98.287	-58.749	1.00	56.29	OS15	ATOM	2157	CG	LEU	80	134.057	102.182	-63.613	1.00	44.83	OS
ATOM	2105	O	PRO	74	127.509	97.565	-59.447	1.00	56.29	OS15	ATOM	2158	CD1	LEU	80	134.895	102.523	-62.390	1.00	44.83	OS
ATOM	2106	N	GLU	75	125.802	99.018	-59.255	1.00	82.73	OS15	ATOM	2159	CD2	LEU	80	134.923	102.175	-64.853	1.00	44.83	OS
ATOM	2107	CA	GLU	75	125.553	98.966	-60.685	1.00	82.73	OS15	ATOM	2160	C	LEU	80	133.871	98.869	-64.890	1.00	77.98	OS
ATOM	2108	CB	GLU	75	124.164	99.498	-61.024	1.00	122.83	OS15	ATOM	2161	O	LEU	80	134.590	98.790	-65.891	1.00	77.98	OS
ATOM	2109	CG	GLU	75	123.661	98.969	-62.360	1.00	122.83	OS15	ATOM	2162	N	ILE	81	133.852	97.949	-63.923	1.00	82.49	OS
ATOM	2110	CD	GLU	75	123.906	97.469	-62.518	1.00	122.83	OS15	ATOM	2163	CA	ILE	81	134.696	96.762	-63.989	1.00	82.49	OS
ATOM	2111	OE1	GLU	75	123.525	96.699	-61.606	1.00	122.83	OS15	ATOM	2164	CB	ILE	81	134.238	95.663	-63.023	1.00	93.05	OS
ATOM	2112	OE2	GLU	75	124.478	97.064	-63.555	1.00	122.83	OS15	ATOM	2165	CG2	ILE	81	134.962	94.355	-63.353	1.00	93.05	OS
ATOM	2113	C	GLU	75	126.622	99.747	-61.434	1.00	82.73	OS15	ATOM	2166	CG1	ILE	81	134.521	96.070	-61.581	1.00	93.05	OS
ATOM	2114	O	GLU	75	127.275	99.204	-62.330	1.00	82.73	OS15	ATOM	2167	CD1	ILE	81	134.352	94.925	-60.612	1.00	93.05	OS
ATOM	2115	N	ARG	76	126.811	101.015	-61.073	1.00	58.82	OS15	ATOM	2168	C	ILE	81	134.697	96.162	-65.385	1.00	82.49	OS
ATOM	2116	CA	ARG	76	127.844	101.798	-61.729	1.00	58.82	OS15	ATOM	2169	O	ILE	81	135.752	95.897	-65.953	1.00	82.49	OS
ATOM	2117	CB	ARG	76	127.994	103.166	-61.081	1.00	56.16	OS15	ATOM	2170	N	GLU	82	133.508	95.943	-65.932	1.00	89.00	OS
ATOM	2118	CG	ARG	76	126.904	104.134	-61.466	1.00	56.16	OS15	ATOM	2171	CA	GLU	82	133.389	95.372	-67.264	1.00	89.00	OS
ATOM	2119	CD	ARG	76	127.419	105.567	-61.437	1.00	56.16	OS15	ATOM	2172	CB	GLU	82	131.917	95.203	-67.636	1.00	146.71	OS
ATOM	2120	CE	ARG	76	127.508	106.108	-60.088	1.00	56.16	OS15	ATOM	2173	CG	GLU	82	131.697	94.730	-69.061	1.00	146.71	OS
ATOM	2121	NZ	ARG	76	128.257	107.153	-59.757	1.00	56.16	OS15	ATOM	2174	CD	GLU	82	130.239	94.766	-69.465	1.00	146.71	OS
ATOM	2122	NH1	ARG	76	128.988	107.761	-60.679	1.00	56.16	OS15	ATOM	2175	OE1	GLU	82	129.621	95.847	-69.360	1.00	146.71	OS
ATOM	2123	NH2	ARG	76	128.266	107.606	-58.509	1.00	56.16	OS15	ATOM	2176	OE2	GLU	82	129.714	93.716	-69.893	1.00	146.71	OS
ATOM	2124	C	ARG	76	129.134	101.012	-61.577	1.00	58.82	OS15	ATOM	2177	C	GLU	82	134.070	96.262	-68.293	1.00	89.00	OS
ATOM	2125	O	ARG	76	130.007	101.055	-62.438	1.00	58.82	OS15	ATOM	2178	O	GLU	82	135.143	95.938	-68.802	1.00	89.00	OS
ATOM	2126	N	TYR	77	129.234	100.273	-60.477	1.00	51.96	OS15	ATOM	2179	N	LYS	83	133.432	97.387	-68.589	1.00	64.55	OS
ATOM	2127	CA	TYR	77	130.406	99.459	-60.212	1.00	51.96	OS15	ATOM	2180	CA	LYS	83	133.945	98.329	-69.567	1.00	64.55	OS
ATOM	2128	CB	TYR	77	130.272	98.781	-58.859	1.00	56.94	OS15	ATOM	2181	CB	LYS	83	133.309	99.695	-69.337	1.00	59.11	OS
ATOM	2129	CG	TYR	77	131.446	97.911	-58.522	1.00	56.94	OS15	ATOM	2182	CG	LYS	83	133.634	100.733	-70.393	1.00	59.11	OS
ATOM	2130	CD1	TYR	77	132.710	98.462	-58.337	1.00	56.94	OS15	ATOM	2183	CD	LYS	83	132.818	101.994	-70.126	1.00	59.11	OS
ATOM	2131	CE1	TYR	77	133.801	97.662	-58.037	1.00	56.94	OS15	ATOM	2184	CE	LYS	83	133.082	103.115	-71.119	1.00	59.11	OS
ATOM	2132	CD2	TYR	77	131.297	96.535	-58.398	1.00	56.94	OS15	ATOM	2185	NZ	LYS	83	132.321	104.326	-70.678	1.00	59.11	OS
ATOM	2133	CE2	TYR	77	133.375	95.723	-58.097	1.00	56.94	OS15	ATOM	2186	C	LYS	83	135.462	98.430	-69.482	1.00	64.55	OS
ATOM	2134	CZ	TYR	77	133.627	96.287	-57.920	1.00	56.94	OS15	ATOM	2187	O	LYS	83	136.170	98.120	-70.442	1.00	64.55	OS
ATOM	2135	OH	TYR	77	134.709	95.474	-57.660	1.00	56.94	OS15	ATOM	2188	N	LEU	84	135.960	98.863	-68.329	1.00	102.82	OS
ATOM	2136	C	TYR	77	130.571	98.411	-61.301	1.00	51.96	OS15	ATOM	2189	CA	LEU	84	137.394	98.984	-68.133	1.00	102.82	OS
ATOM	2137	O	TYR	77	131.491	98.501	-62.104	1.00	51.96	OS15	ATOM	2190	CB	LEU	84	137.704	99.466	-66.720	1.00	47.22	OS
ATOM	2138	N	ARG	78	129.677	97.424	-61.334	1.00	85.45	OS15	ATOM	2191	CG	LEU	84	137.640	100.956	-66.403	1.00	47.22	OS

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ATOM	2192	CDI	LEU	84	137.857	101.139	-64.913	1.00	47.22	OS15	ATOM	2245	NZ	LVS	3	110.692	67.944	11.692	1.00	41.57	PS
ATOM	2193	CD2	LEU	84	138.700	101.718	-67.192	1.00	47.22	OS15	ATOM	2246	C	LVS	3	109.953	73.333	8.848	1.00	44.53	PS
ATOM	2194	C	LEU	84	138.066	97.639	-68.336	1.00	102.82	OS15	ATOM	2247	O	LVS	3	110.688	74.170	8.327	1.00	44.53	PS
ATOM	2195	O	LEU	84	139.107	97.542	-68.979	1.00	102.82	OS15	ATOM	2248	N	ILE	4	109.206	73.592	9.911	1.00	47.77	PS
ATOM	2196	N	GLY	85	137.051	96.596	-67.782	1.00	107.60	OS15	ATOM	2249	CA	ILE	4	109.291	74.870	10.592	1.00	47.77	PS
ATOM	2197	CA	GLY	85	138.051	95.275	-67.892	1.00	107.60	OS15	ATOM	2250	CB	ILE	4	107.918	75.392	11.013	1.00	37.20	PS
ATOM	2198	C	GLY	85	139.023	95.083	-66.741	1.00	107.60	OS15	ATOM	2251	CG2	ILE	4	108.073	76.623	11.883	1.00	37.20	PS
ATOM	2199	O	GLY	85	140.221	94.888	-66.949	1.00	107.60	OS15	ATOM	2252	CG1	ILE	4	107.082	75.714	9.784	1.00	37.20	PS
ATOM	2200	N	ILE	86	138.495	95.157	-65.521	1.00	112.37	OS15	ATOM	2253	CD1	ILE	4	105.669	76.105	10.148	1.00	37.20	PS
ATOM	2201	CA	ILE	86	139.289	95.007	-64.307	1.00	112.37	OS15	ATOM	2254	C	ILE	4	110.039	74.412	11.817	1.00	47.77	PS
ATOM	2202	CB	ILE	86	139.199	96.271	-63.429	1.00	73.31	OS15	ATOM	2255	O	ILE	4	109.488	73.681	12.636	1.00	47.77	PS
ATOM	2203	CG2	ILE	86	140.165	96.179	-62.256	1.00	73.31	OS15	ATOM	2256	N	ARG	5	111.298	74.810	11.935	1.00	42.51	PS
ATOM	2204	CG1	ILE	86	139.557	97.497	-64.265	1.00	73.31	OS15	ATOM	2257	CA	ARG	5	112.088	74.367	13.064	1.00	42.51	PS
ATOM	2205	CD1	ILE	86	139.549	98.786	-63.479	1.00	73.31	OS15	ATOM	2258	CB	ARG	5	112.862	73.117	12.667	1.00	43.35	PS
ATOM	2206	C	ILE	86	138.785	93.814	-63.509	1.00	112.37	OS15	ATOM	2259	CG	ARG	5	113.927	73.342	11.622	1.00	43.35	PS
ATOM	2207	O	ILE	86	138.246	92.865	-64.077	1.00	112.37	OS15	ATOM	2260	CD	ARG	5	114.364	72.028	10.523	1.00	43.35	PS
ATOM	2208	N	ARG	87	138.951	93.873	-62.193	1.00	157.02	OS15	ATOM	2261	NE	ARG	5	115.712	72.028	9.582	1.00	43.35	PS
ATOM	2209	CA	ARG	87	138.534	92.789	-61.324	1.00	157.02	OS15	ATOM	2262	C2	ARG	5	116.150	71.194	9.582	1.00	43.35	PS
ATOM	2210	CG	ARG	87	136.467	91.501	-60.506	1.00	148.30	OS15	ATOM	2263	NH1	ARG	5	117.394	71.302	9.146	1.00	43.35	PS
ATOM	2211	CG	ARG	87	137.088	91.522	-59.119	1.00	148.30	OS15	ATOM	2264	NH2	ARG	5	113.039	75.427	13.562	1.00	42.51	PS
ATOM	2212	CD	ARG	87	137.088	91.522	-59.119	1.00	148.30	OS15	ATOM	2265	C	ARG	5	113.058	76.536	13.053	1.00	42.51	PS
ATOM	2213	NE	ARG	87	137.191	92.878	-58.591	1.00	148.30	OS15	ATOM	2266	O	ARG	5	113.058	76.536	13.053	1.00	42.51	PS
ATOM	2214	CZ	ARG	87	137.607	93.170	-57.364	1.00	148.30	OS15	ATOM	2267	N	LEU	6	114.785	75.073	14.553	1.00	40.61	PS
ATOM	2215	NH1	ARG	87	137.957	92.195	-56.531	1.00	148.30	OS15	ATOM	2268	CA	LEU	6	114.785	75.824	15.132	1.00	40.61	PS
ATOM	2216	NH2	ARG	87	137.677	94.436	-56.971	1.00	148.30	OS15	ATOM	2269	CB	LEU	6	113.636	76.448	17.451	1.00	36.21	PS
ATOM	2217	O	ARG	87	139.238	91.534	-61.822	1.00	157.02	OS15	ATOM	2270	CG	LEU	6	112.312	76.266	16.736	1.00	36.21	PS
ATOM	2218	C	ARG	87	138.610	90.500	-62.052	1.00	157.02	OS15	ATOM	2271	CD1	LEU	6	113.594	75.831	18.881	1.00	36.21	PS
ATOM	2219	N	GLY	88	140.553	91.655	-62.000	1.00	157.81	OS15	ATOM	2272	C	LEU	6	116.204	75.850	14.580	1.00	40.61	PS
ATOM	2220	CA	GLY	88	141.372	90.552	-62.476	1.00	157.81	OS15	ATOM	2273	CD2	LEU	6	116.730	74.722	14.485	1.00	40.61	PS
ATOM	2221	C	GLY	88	140.848	89.166	-62.140	1.00	157.81	OS15	ATOM	2274	O	LEU	6	116.813	76.978	14.194	1.00	43.29	PS
ATOM	2222	O	GLY	88	140.558	88.400	-63.085	1.00	157.81	OS15	ATOM	2275	N	ALA	7	118.190	76.966	13.682	1.00	43.29	PS
ATOM	2223	OXT	GLY	88	140.725	88.842	-60.936	1.00	109.09	OS15	ATOM	2276	CA	ALA	7	118.286	77.677	12.355	1.00	14.51	PS
ATOM	2224	CB	MET	1	108.766	66.675	4.432	1.00	67.10	PS16	ATOM	2277	CB	ALA	7	119.075	77.652	14.711	1.00	43.29	PS
ATOM	2225	CG	MET	1	107.715	67.179	5.400	1.00	67.10	PS16	ATOM	2278	C	ALA	7	118.765	78.736	15.199	1.00	43.29	PS
ATOM	2226	SD	MET	1	107.338	65.990	6.667	1.00	67.10	PS16	ATOM	2279	O	ALA	7	120.174	77.004	15.055	1.00	57.60	PS
ATOM	2227	CE	MET	1	108.773	66.231	7.756	1.00	84.06	PS16	ATOM	2280	N	ARG	8	122.048	76.456	16.484	1.00	50.84	PS
ATOM	2228	C	MET	1	109.706	68.947	4.254	1.00	84.06	PS16	ATOM	2281	CA	ARG	8	121.977	76.116	17.946	1.00	50.84	PS
ATOM	2229	O	MET	1	110.453	68.796	5.221	1.00	84.06	PS16	ATOM	2282	CB	ARG	8	122.864	77.006	18.773	1.00	50.84	PS
ATOM	2230	N	MET	1	110.314	67.219	2.584	1.00	84.06	PS16	ATOM	2283	CG	ARG	8	122.899	76.461	20.114	1.00	50.84	PS
ATOM	2231	CA	MET	1	109.229	67.746	3.459	1.00	84.06	PS16	ATOM	2284	CD	ARG	8	123.817	76.935	21.031	1.00	50.84	PS
ATOM	2232	N	VAL	2	109.257	70.135	3.862	1.00	48.91	PS16	ATOM	2285	NE	ARG	8	124.591	77.968	20.743	1.00	50.84	PS
ATOM	2233	CB	VAL	2	109.680	71.350	4.548	1.00	48.91	PS16	ATOM	2286	C2	ARG	8	123.880	76.369	22.229	1.00	50.84	PS
ATOM	2234	CA	VAL	2	108.729	72.629	3.856	1.00	50.56	PS16	ATOM	2287	NH1	ARG	8	121.853	78.733	15.520	1.00	57.60	PS
ATOM	2235	CG1	VAL	2	109.122	72.326	4.406	1.00	50.56	PS16	ATOM	2288	NH2	ARG	8	122.584	78.630	14.528	1.00	57.60	PS
ATOM	2236	CG2	VAL	2	107.910	73.145	4.586	1.00	50.56	PS16	ATOM	2289	C	ARG	8	121.694	79.865	16.196	1.00	51.50	PS
ATOM	2237	C	VAL	2	109.267	71.312	6.015	1.00	48.91	PS16	ATOM	2290	O	ARG	9	122.375	81.084	15.812	1.00	51.50	PS
ATOM	2238	O	VAL	2	108.243	70.739	6.379	1.00	48.91	PS16	ATOM	2291	N	PHE	9	121.424	82.002	15.062	1.00	35.37	PS
ATOM	2239	N	LVS	3	110.080	71.930	6.850	1.00	44.53	PS16	ATOM	2292	CA	PHE	9	121.475	81.819	13.596	1.00	35.37	PS
ATOM	2240	CA	LVS	3	109.825	71.941	8.267	1.00	44.53	PS16	ATOM	2293	CB	PHE	9	122.380	82.532	12.837	1.00	35.37	PS
ATOM	2241	CB	LVS	3	110.825	71.016	8.941	1.00	41.57	PS16	ATOM	2294	CG	PHE	9	120.697	80.862	12.987	1.00	35.37	PS
ATOM	2242	CG	LVS	3	110.727	69.597	8.443	1.00	41.57	PS16	ATOM	2295	CD1	PHE	9	122.509	82.298	11.495	1.00	35.37	PS
ATOM	2243	CD	LVS	3	110.040	68.729	9.465	1.00	41.57	PS16	ATOM	2296	CD2	PHE	9						PS
ATOM	2244	CE	LVS	3	111.094	68.047	10.278	1.00	41.57	PS16	ATOM	2297	CE1	PHE	9						PS

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ATOM	2298	CE2	PHE	9	120.820	80.616	11.642	1.00	35.37	PS16	ATOM	2351	ND1	HIS	16	121.066	84.303	21.923	1.00	44.28	PS16
ATOM	2299	C2	PHE	9	121.734	81.337	10.892	1.00	35.37	PS16	ATOM	2352	CE1	HIS	16	120.838	85.261	22.802	1.00	44.28	PS16
ATOM	2300	C	PHE	9	122.913	81.784	17.021	1.00	51.50	PS16	ATOM	2353	NE2	HIS	16	119.767	85.931	22.418	1.00	44.28	PS16
ATOM	2301	O	PHE	9	123.381	82.919	16.943	1.00	51.50	PS16	ATOM	2354	C	HIS	16	119.156	81.276	18.905	1.00	41.25	PS16
ATOM	2302	N	GLY	10	122.857	81.103	18.151	1.00	48.39	PS16	ATOM	2355	O	HIS	16	119.998	81.027	18.045	1.00	41.25	PS16
ATOM	2303	CA	GLY	10	123.354	81.723	19.356	1.00	48.39	PS16	ATOM	2356	N	TYR	17	117.884	80.924	18.806	1.00	44.10	PS16
ATOM	2304	C	GLY	10	124.812	82.166	19.319	1.00	48.39	PS16	ATOM	2357	CA	TYR	17	117.426	80.197	17.645	1.00	44.10	PS16
ATOM	2305	O	GLY	10	125.235	83.004	18.521	1.00	48.39	PS16	ATOM	2358	CB	TYR	17	116.595	78.974	18.050	1.00	49.51	PS16
ATOM	2306	N	SER	11	125.559	81.555	20.217	1.00	47.31	PS16	ATOM	2359	CG	TYR	17	117.332	77.986	18.910	1.00	49.51	PS16
ATOM	2307	CA	SER	11	126.976	81.808	20.431	1.00	47.31	PS16	ATOM	2360	CD1	TYR	17	117.414	78.160	20.293	1.00	49.51	PS16
ATOM	2308	CB	SER	11	127.151	83.253	20.880	1.00	68.89	PS16	ATOM	2361	CE1	TYR	17	118.109	77.268	21.089	1.00	49.51	PS16
ATOM	2309	OG	SER	11	128.360	83.453	21.588	1.00	68.89	PS16	ATOM	2362	CD2	TYR	17	117.968	76.889	18.341	1.00	49.51	PS16
ATOM	2310	C	SER	11	127.213	80.843	21.580	1.00	47.31	PS16	ATOM	2363	CE2	TYR	17	118.670	75.988	19.126	1.00	49.51	PS16
ATOM	2311	O	SER	11	126.285	80.562	22.336	1.00	47.31	PS16	ATOM	2364	CZ	TYR	17	118.736	76.179	20.503	1.00	49.51	PS16
ATOM	2312	N	LYS	12	128.421	80.316	21.720	1.00	59.82	PS16	ATOM	2365	OH	TYR	17	119.418	75.263	21.283	1.00	49.51	PS16
ATOM	2313	CA	LYS	12	128.676	79.362	22.800	1.00	59.82	PS16	ATOM	2366	C	TYR	17	116.593	81.040	16.743	1.00	44.10	PS16
ATOM	2314	CB	LYS	12	130.172	79.172	23.009	1.00	53.29	PS16	ATOM	2367	O	TYR	17	115.939	81.980	17.175	1.00	44.10	PS16
ATOM	2315	CD	LYS	12	130.540	77.852	23.640	1.00	53.29	PS16	ATOM	2368	N	ARG	18	116.631	81.354	14.486	1.00	35.47	PS16
ATOM	2316	CD	LYS	12	131.960	77.931	24.126	1.00	53.29	PS16	ATOM	2369	CA	ARG	18	115.818	81.354	14.486	1.00	35.47	PS16
ATOM	2317	CE	LYS	12	132.662	76.592	24.128	1.00	53.29	PS16	ATOM	2370	CB	ARG	18	116.627	81.685	13.238	1.00	56.05	PS16
ATOM	2318	NZ	LYS	12	134.035	76.755	24.704	1.00	53.29	PS16	ATOM	2371	CG	ARG	18	117.734	82.661	13.488	1.00	56.05	PS16
ATOM	2319	C	LYS	12	128.034	79.817	24.112	1.00	59.82	PS16	ATOM	2372	CD	ARG	18	118.181	83.317	12.201	1.00	56.05	PS16
ATOM	2320	O	LYS	12	128.183	80.967	24.525	1.00	59.82	PS16	ATOM	2373	NE	ARG	18	119.231	84.300	12.440	1.00	56.05	PS16
ATOM	2321	N	HIS	13	127.318	78.902	24.755	1.00	57.53	PS16	ATOM	2374	CZ	ARG	18	119.930	84.878	11.473	1.00	56.05	PS16
ATOM	2322	CA	HIS	13	126.629	79.185	26.009	1.00	57.53	PS16	ATOM	2375	NH1	ARG	18	119.664	84.571	10.207	1.00	56.05	PS16
ATOM	2323	CB	HIS	13	127.632	79.405	27.130	1.00	54.11	PS16	ATOM	2376	NH2	ARG	18	120.886	85.742	11.770	1.00	56.05	PS16
ATOM	2324	CG	HIS	13	128.332	78.158	27.556	1.00	54.11	PS16	ATOM	2377	C	ARG	18	114.742	80.337	14.130	1.00	35.47	PS16
ATOM	2325	CD2	HIS	13	129.647	77.888	27.736	1.00	54.11	PS16	ATOM	2378	O	ARG	18	115.051	79.201	13.722	1.00	35.47	PS16
ATOM	2326	ND1	HIS	13	127.652	77.002	27.877	1.00	54.11	PS16	ATOM	2379	N	ILE	19	113.486	80.707	14.345	1.00	39.85	PS16
ATOM	2327	CE1	HIS	13	128.519	76.072	28.238	1.00	54.11	PS16	ATOM	2380	CA	ILE	19	112.409	79.817	13.969	1.00	39.85	PS16
ATOM	2328	NE2	HIS	13	129.736	76.585	28.162	1.00	54.11	PS16	ATOM	2381	CB	ILE	19	111.066	80.302	14.514	1.00	40.80	PS16
ATOM	2329	C	HIS	13	125.696	80.385	25.917	1.00	57.53	PS16	ATOM	2382	CG2	ILE	19	109.915	79.574	13.805	1.00	40.80	PS16
ATOM	2330	O	HIS	13	125.241	80.914	26.937	1.00	57.53	PS16	ATOM	2383	CG1	ILE	19	111.057	80.122	16.032	1.00	40.80	PS16
ATOM	2331	N	ASN	14	125.418	80.808	24.688	1.00	43.48	PS16	ATOM	2384	CD1	ILE	19	109.725	78.944	12.450	1.00	40.80	PS16
ATOM	2332	CA	ASN	14	124.527	81.932	24.444	1.00	43.48	PS16	ATOM	2385	C	ILE	19	112.458	79.944	12.450	1.00	39.85	PS16
ATOM	2333	CB	ASN	14	125.314	83.215	24.190	1.00	61.13	PS16	ATOM	2386	O	ILE	19	112.562	81.054	11.921	1.00	39.85	PS16
ATOM	2334	CG	ASN	14	124.411	84.386	23.935	1.00	61.13	PS16	ATOM	2387	N	VAL	20	112.383	78.825	11.742	1.00	60.82	PS16
ATOM	2335	OD1	ASN	14	123.393	84.531	24.603	1.00	61.13	PS16	ATOM	2388	CA	VAL	20	112.500	78.910	10.306	1.00	60.82	PS16
ATOM	2336	ND2	ASN	14	124.768	85.230	22.972	1.00	61.13	PS16	ATOM	2389	CB	VAL	20	114.777	77.941	10.635	1.00	62.65	PS16
ATOM	2337	C	ASN	14	123.656	81.609	23.239	1.00	43.48	PS16	ATOM	2390	CG1	VAL	20	114.174	78.900	8.480	1.00	62.65	PS16
ATOM	2338	O	ASN	14	123.634	82.325	22.240	1.00	43.48	PS16	ATOM	2391	CG2	VAL	20	111.883	77.780	9.498	1.00	60.82	PS16
ATOM	2339	N	PRO	15	122.906	80.514	23.338	1.00	58.11	PS16	ATOM	2392	C	VAL	20	111.657	76.688	10.011	1.00	60.82	PS16
ATOM	2340	CD	PRO	15	122.628	79.791	24.590	1.00	37.80	PS16	ATOM	2393	O	VAL	21	111.609	78.075	8.228	1.00	53.02	PS16
ATOM	2341	CA	PRO	15	122.018	80.062	22.272	1.00	37.80	PS16	ATOM	2394	N	VAL	21	111.060	77.113	7.281	1.00	53.02	PS16
ATOM	2342	CB	PRO	15	121.437	78.789	22.844	1.00	37.80	PS16	ATOM	2395	CA	VAL	21	110.048	77.771	6.333	1.00	35.89	PS16
ATOM	2343	CG	PRO	15	121.290	79.171	24.290	1.00	37.80	PS16	ATOM	2396	CB	VAL	21	109.510	76.756	5.320	1.00	35.89	PS16
ATOM	2344	C	PRO	15	120.931	81.071	21.949	1.00	58.11	PS16	ATOM	2397	CG1	VAL	21	108.918	78.360	7.137	1.00	35.89	PS16
ATOM	2345	O	PRO	15	120.421	81.768	22.826	1.00	58.11	PS16	ATOM	2398	CG2	VAL	21	112.226	76.637	6.422	1.00	53.02	PS16
ATOM	2346	N	HIS	16	120.592	81.133	20.672	1.00	41.25	PS16	ATOM	2399	C	VAL	21	112.974	77.458	5.899	1.00	53.02	PS16
ATOM	2347	CA	HIS	16	119.550	82.002	20.155	1.00	41.25	PS16	ATOM	2400	O	VAL	21	112.385	75.323	6.275	1.00	51.54	PS16
ATOM	2348	CB	HIS	16	120.080	83.395	19.785	1.00	44.28	PS16	ATOM	2401	N	THR	22	113.457	74.774	5.454	1.00	51.54	PS16
ATOM	2349	CG	HIS	16	120.109	84.355	20.932	1.00	44.28	PS16	ATOM	2402	CA	THR	22	114.799	74.820	6.168	1.00	37.10	PS16
ATOM	2350	CD2	HIS	16	119.291	85.384	21.250	1.00	44.28	PS16	ATOM	2403	CB	THR	22						PS16

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ATOM	2404	OGI	THR	22	115.806	74.281	5.299	1.00	37.10	PS16	ATOM	2457	NE	ARG	28	121.955	72.383	15.749	1.00	30.76	PS
ATOM	2405	CG2	THR	22	114.744	74.020	7.452	1.00	37.10	PS16	ATOM	2458	CZ	ARG	28	123.024	73.137	15.773	1.00	30.76	PS
ATOM	2406	C	THR	22	113.158	73.334	5.150	1.00	51.54	PS16	ATOM	2459	NH1	ARG	28	123.131	74.163	14.905	1.00	30.76	PS
ATOM	2407	O	THR	22	112.330	72.731	5.810	1.00	51.54	PS16	ATOM	2460	NH2	ARG	28	123.965	73.006	16.703	1.00	30.76	PS
ATOM	2408	N	ASP	23	113.828	72.778	4.151	1.00	38.33	PS16	ATOM	2461	C	ARG	28	120.372	73.906	10.934	1.00	66.51	PS
ATOM	2409	CA	ASP	23	113.616	71.378	3.791	1.00	38.33	PS16	ATOM	2462	O	ARG	28	119.434	74.209	10.977	1.00	66.51	PS
ATOM	2410	CB	ASP	23	114.176	71.104	2.388	1.00	54.84	PS16	ATOM	2463	N	ASP	29	121.627	74.285	10.751	1.00	74.00	PS
ATOM	2411	CG	ASP	23	114.060	69.642	1.975	1.00	54.84	PS16	ATOM	2464	CA	ASP	29	121.926	75.666	10.548	1.00	74.00	PS
ATOM	2412	OD1	ASP	23	114.783	68.798	2.551	1.00	54.84	PS16	ATOM	2465	CB	ASP	29	123.320	75.966	11.067	1.00	50.04	PS
ATOM	2413	CD2	ASP	23	113.248	69.331	1.071	1.00	54.84	PS16	ATOM	2466	CG	ASP	29	123.396	75.727	12.568	1.00	50.04	PS
ATOM	2414	C	ASP	23	114.299	70.493	4.840	1.00	38.33	PS16	ATOM	2467	OD1	ASP	29	124.434	75.982	13.219	1.00	50.04	PS
ATOM	2415	O	ASP	23	115.441	70.737	5.249	1.00	38.33	PS16	ATOM	2468	OD2	ASP	29	122.365	75.272	13.097	1.00	50.04	PS
ATOM	2416	N	ALA	24	113.590	69.455	5.274	1.00	46.10	PS16	ATOM	2469	C	ASP	29	121.734	75.922	9.056	1.00	74.00	PS
ATOM	2417	CA	ALA	24	114.097	68.542	6.289	1.00	46.10	PS16	ATOM	2470	O	ASP	29	120.592	76.059	8.630	1.00	74.00	PS
ATOM	2418	CB	ALA	24	113.175	67.356	6.401	1.00	46.10	PS16	ATOM	2471	N	GLY	30	122.794	75.964	8.263	1.00	38.98	PS
ATOM	2419	C	ALA	24	115.535	68.069	6.089	1.00	46.10	PS16	ATOM	2472	CA	GLY	30	122.632	76.113	6.155	1.00	38.98	PS
ATOM	2420	O	ALA	24	116.237	67.803	7.060	1.00	46.10	PS16	ATOM	2473	C	GLY	30	121.450	76.832	6.155	1.00	38.98	PS
ATOM	2421	N	ARG	25	115.983	67.970	4.846	1.00	58.29	PS16	ATOM	2474	O	GLY	30	120.567	77.369	6.808	1.00	38.98	PS
ATOM	2422	CA	ARG	25	117.345	67.518	4.567	1.00	58.29	PS16	ATOM	2475	N	LYS	31	121.411	76.809	4.828	1.00	42.95	PS
ATOM	2423	CB	ARG	25	117.363	66.820	3.212	1.00	46.04	PS16	ATOM	2476	CA	LYS	31	120.373	77.528	4.086	1.00	42.95	PS
ATOM	2424	CG	ARG	25	116.252	65.817	3.027	1.00	46.04	PS16	ATOM	2477	CB	LYS	31	120.649	77.508	2.578	1.00	58.10	PS
ATOM	2425	CD	ARG	25	115.999	66.500	1.563	1.00	46.04	PS16	ATOM	2478	CG	LYS	31	119.585	78.280	1.802	1.00	58.10	PS
ATOM	2426	NE	ARG	25	115.422	66.646	0.873	1.00	46.04	PS16	ATOM	2479	CD	LYS	31	119.993	78.622	0.381	1.00	58.10	PS
ATOM	2427	CZ	ARG	25	114.873	66.599	-0.338	1.00	46.04	PS16	ATOM	2480	CE	LYS	31	120.125	77.382	-0.477	1.00	58.10	PS
ATOM	2428	NH1	ARG	25	114.820	65.450	-1.006	1.00	46.04	PS16	ATOM	2481	NZ	LYS	31	120.471	77.727	-1.884	1.00	58.10	PS
ATOM	2429	NH2	ARG	25	114.374	67.708	-0.881	1.00	46.04	PS16	ATOM	2482	C	LYS	31	118.912	77.195	4.273	1.00	42.95	PS
ATOM	2430	C	ARG	25	118.295	68.714	4.538	1.00	58.29	PS16	ATOM	2483	O	LYS	31	118.414	76.229	3.716	1.00	42.95	PS
ATOM	2431	O	ARG	25	118.651	69.187	3.471	1.00	58.29	PS16	ATOM	2484	N	TYR	32	118.209	78.016	5.036	1.00	34.28	PS
ATOM	2432	N	ARG	26	118.736	69.194	5.689	1.00	43.58	PS16	ATOM	2485	CA	TYR	32	116.787	77.804	5.217	1.00	34.28	PS
ATOM	2433	CB	ARG	26	119.590	70.379	5.690	1.00	43.58	PS16	ATOM	2486	CB	TYR	32	116.351	78.319	6.581	1.00	43.68	PS
ATOM	2434	CG	ARG	26	118.889	72.165	5.407	1.00	46.63	PS16	ATOM	2487	CG	TYR	32	116.785	79.724	6.944	1.00	43.68	PS
ATOM	2435	CG	ARG	26	119.787	73.365	4.042	1.00	46.63	PS16	ATOM	2488	CD1	TYR	32	117.804	79.942	7.865	1.00	43.68	PS
ATOM	2436	CD	ARG	26	119.472	74.151	2.815	1.00	46.63	PS16	ATOM	2489	CE1	TYR	32	118.154	81.232	8.273	1.00	43.68	PS
ATOM	2437	CE	ARG	26	119.706	73.749	1.615	1.00	46.63	PS16	ATOM	2490	CE2	TYR	32	116.128	80.826	6.428	1.00	43.68	PS
ATOM	2438	CZ	ARG	26	120.276	72.581	1.399	1.00	46.63	PS16	ATOM	2491	CE2	TYR	32	116.467	82.118	6.823	1.00	43.68	PS
ATOM	2439	NH1	ARG	26	119.319	74.485	0.585	1.00	46.63	PS16	ATOM	2493	OH	TYR	32	117.476	82.318	7.746	1.00	43.68	PS
ATOM	2440	NH2	ARG	26	120.300	70.648	6.994	1.00	43.58	PS16	ATOM	2494	C	TYR	32	116.025	78.523	4.099	1.00	34.28	PS
ATOM	2441	C	ARG	26	119.649	70.657	8.034	1.00	43.58	PS16	ATOM	2495	O	TYR	32	116.593	79.331	3.367	1.00	34.28	PS
ATOM	2443	N	LYS	27	121.606	70.906	6.961	1.00	50.01	PS16	ATOM	2496	N	ILE	33	114.743	78.231	3.956	1.00	47.55	PS
ATOM	2444	CA	LYS	27	122.309	71.209	8.207	1.00	50.01	PS16	ATOM	2497	CA	ILE	33	113.943	78.860	2.913	1.00	47.55	PS
ATOM	2445	CB	LYS	27	123.515	72.109	7.941	1.00	50.53	PS16	ATOM	2498	CB	ILE	33	112.707	78.020	2.588	1.00	28.85	PS
ATOM	2446	CG	LYS	27	124.414	71.673	6.816	1.00	50.53	PS16	ATOM	2499	CG2	ILE	33	111.704	78.859	1.857	1.00	28.85	PS
ATOM	2447	CD	LYS	27	125.633	72.557	6.783	1.00	50.53	PS16	ATOM	2500	CG1	ILE	33	113.114	76.793	1.773	1.00	28.85	PS
ATOM	2448	CE	LYS	27	126.562	72.068	5.733	1.00	50.53	PS16	ATOM	2501	CD1	ILE	33	112.272	75.565	2.031	1.00	28.85	PS
ATOM	2449	NZ	LYS	27	125.756	71.801	4.508	1.00	50.53	PS16	ATOM	2502	C	ILE	33	113.454	80.242	3.309	1.00	47.55	PS
ATOM	2450	C	LYS	27	121.290	71.998	9.038	1.00	50.01	PS16	ATOM	2503	O	ILE	33	113.377	81.137	2.473	1.00	47.55	PS
ATOM	2451	O	LYS	27	120.641	72.898	8.505	1.00	66.51	PS16	ATOM	2504	N	GLU	34	113.107	80.398	4.583	1.00	52.78	PS
ATOM	2452	N	ARG	28	121.127	71.683	10.318	1.00	66.51	PS16	ATOM	2505	CA	GLU	34	112.583	81.652	5.098	1.00	52.78	PS
ATOM	2453	CA	ARG	28	120.132	72.416	11.080	1.00	66.51	PS16	ATOM	2506	CB	GLU	34	111.153	81.862	4.602	1.00	55.17	PS
ATOM	2454	CG	ARG	28	120.127	72.009	12.550	1.00	30.76	PS16	ATOM	2507	CG	GLU	34	110.453	83.050	5.231	1.00	55.17	PS
ATOM	2455	CB	ARG	28	121.251	72.539	13.379	1.00	30.76	PS16	ATOM	2508	CD	GLU	34	109.026	83.236	4.722	1.00	55.17	PS
ATOM	2456	CD	ARG	28	120.829	72.512	14.826	1.00	30.76	PS16	ATOM	2509	OE1	GLU	34	108.716	82.778	3.591	1.00	55.17	PS

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ATOM	2510	OE2	GLU	34	108.215	83.860	5.450	1.00	55.17	PS16	ATOM	2563	OD2	ASP	40	117.554	85.707	25.104	1.00	66.31	PS
ATOM	2511	C	GLU	34	112.560	81.687	6.613	1.00	52.78	PS16	ATOM	2564	C	ASP	40	115.424	82.493	24.082	1.00	51.12	PS
ATOM	2512	O	GLU	34	112.154	80.724	7.262	1.00	52.78	PS16	ATOM	2565	O	ASP	40	114.662	83.018	24.889	1.00	51.12	PS
ATOM	2513	N	LYS	35	112.997	82.805	7.173	1.00	50.73	PS16	ATOM	2566	N	PRO	41	115.843	81.227	24.210	1.00	51.70	PS
ATOM	2514	CA	LYS	35	112.966	82.991	8.612	1.00	50.73	PS16	ATOM	2567	CD	PRO	41	117.008	80.671	23.501	1.00	58.14	PS
ATOM	2515	CB	LYS	35	113.953	84.085	9.018	1.00	38.31	PS16	ATOM	2568	CA	PRO	41	115.429	80.326	25.284	1.00	51.70	PS
ATOM	2516	CG	LYS	35	113.928	84.450	10.489	1.00	38.31	PS16	ATOM	2569	CB	PRO	41	116.218	79.060	24.983	1.00	58.14	PS
ATOM	2517	CD	LYS	35	115.137	85.295	10.901	1.00	38.31	PS16	ATOM	2570	CG	PRO	41	117.493	79.607	24.460	1.00	58.14	PS
ATOM	2518	CE	LYS	35	114.982	85.792	12.337	1.00	38.31	PS16	ATOM	2571	C	PRO	41	115.664	80.826	26.697	1.00	51.70	PS
ATOM	2519	NZ	LYS	35	116.014	86.786	12.774	1.00	38.31	PS16	ATOM	2572	O	PRO	41	114.871	81.545	26.919	1.00	51.70	PS
ATOM	2520	C	LYS	35	111.536	83.445	8.876	1.00	50.73	PS16	ATOM	2573	N	ARG	42	117.013	82.026	28.264	1.00	50.10	PS
ATOM	2521	O	LYS	35	110.952	84.143	8.055	1.00	50.73	PS16	ATOM	2574	CA	ARG	42	118.510	82.112	28.511	1.00	55.86	PS
ATOM	2522	N	ILE	36	110.943	83.021	9.982	1.00	44.89	PS16	ATOM	2575	CB	ARG	42	119.242	80.837	28.215	1.00	55.86	PS
ATOM	2523	CA	ILE	36	109.584	83.458	10.286	1.00	44.89	PS16	ATOM	2576	CG	ARG	42	120.708	81.034	28.478	1.00	55.86	PS
ATOM	2524	CB	ILE	36	108.567	82.143	8.411	1.00	38.20	PS16	ATOM	2577	CD	ARG	42	121.221	82.169	27.721	1.00	55.86	PS
ATOM	2525	CG2	ILE	36	108.673	81.153	10.729	1.00	38.20	PS16	ATOM	2578	NE	ARG	42	122.345	82.807	28.023	1.00	55.86	PS
ATOM	2526	CG1	ILE	36	107.621	80.077	10.420	1.00	38.20	PS16	ATOM	2579	CZ	ARG	42	123.056	82.410	29.067	1.00	55.86	PS
ATOM	2527	CD1	ILE	36	109.469	83.740	11.765	1.00	44.89	PS16	ATOM	2580	NH1	ARG	42	122.759	83.831	27.286	1.00	50.10	PS
ATOM	2528	C	ILE	36	108.384	83.969	12.275	1.00	44.89	PS16	ATOM	2581	NH2	ARG	42	116.581	83.989	28.508	1.00	50.10	PS
ATOM	2529	O	ILE	36	110.598	83.707	12.457	1.00	44.30	PS16	ATOM	2582	C	ARG	42	115.633	83.871	27.521	1.00	114.78	PS
ATOM	2530	N	GLY	37	110.573	84.008	13.872	1.00	44.30	PS16	ATOM	2583	O	ARG	42	114.978	85.166	27.615	1.00	114.78	PS
ATOM	2531	CA	GLY	37	111.952	83.880	14.459	1.00	44.30	PS16	ATOM	2584	N	LYS	43	114.206	84.363	28.988	1.00	62.20	PS
ATOM	2532	C	GLY	37	112.908	83.567	13.747	1.00	44.30	PS16	ATOM	2585	CA	LYS	43	113.323	82.907	29.002	1.00	62.20	PS
ATOM	2533	O	GLY	37	112.055	84.146	15.754	1.00	53.26	PS16	ATOM	2586	CB	LYS	43	112.051	82.047	29.020	1.00	62.20	PS
ATOM	2534	N	TYR	38	114.312	84.012	16.470	1.00	53.26	PS16	ATOM	2587	CG	LYS	43	112.372	80.591	29.167	1.00	62.20	PS
ATOM	2535	CA	TYR	38	114.190	85.261	16.313	1.00	62.08	PS16	ATOM	2588	CD	LYS	43	115.954	86.339	27.498	1.00	114.78	PS
ATOM	2536	CB	TYR	38	113.628	86.545	16.869	1.00	62.08	PS16	ATOM	2589	CE	LYS	43	116.075	86.953	26.438	1.00	114.78	PS
ATOM	2537	CG	TYR	38	113.747	86.850	18.226	1.00	62.08	PS16	ATOM	2590	NZ	LYS	43	117.611	87.748	28.592	1.00	61.64	PS
ATOM	2538	CD1	TYR	38	113.257	88.038	18.732	1.00	62.08	PS16	ATOM	2591	C	LYS	43	118.489	87.500	26.371	1.00	60.71	PS
ATOM	2539	CE2	TYR	38	112.994	87.468	16.033	1.00	62.08	PS16	ATOM	2592	O	LYS	43	117.036	89.126	28.305	1.00	61.64	PS
ATOM	2540	CD2	TYR	38	112.499	88.658	16.531	1.00	62.08	PS16	ATOM	2593	N	TYR	44	117.582	90.146	28.718	1.00	61.64	PS
ATOM	2541	CE2	TYR	38	112.634	88.937	17.881	1.00	62.08	PS16	ATOM	2594	CA	TYR	44	115.935	89.156	27.561	1.00	45.82	PS
ATOM	2542	CZ	TYR	38	112.151	90.120	18.385	1.00	62.08	PS16	ATOM	2595	CB	TYR	44	115.856	90.949	25.852	1.00	52.18	PS
ATOM	2543	OH	TYR	38	112.957	83.745	17.920	1.00	53.26	PS16	ATOM	2596	OG1	TYR	44	117.335	91.248	25.955	1.00	52.18	PS
ATOM	2544	C	TYR	38	111.882	84.137	18.388	1.00	53.26	PS16	ATOM	2597	CG2	TYR	44	113.805	90.258	27.011	1.00	45.82	PS
ATOM	2545	O	TYR	38	113.850	83.078	18.634	1.00	40.46	PS16	ATOM	2598	C	THR	44	113.312	89.304	26.583	1.00	45.82	PS
ATOM	2546	N	TYR	39	113.556	82.722	20.005	1.00	40.46	PS16	ATOM	2599	O	THR	44	113.055	91.327	27.324	1.00	65.47	PS
ATOM	2547	CA	TYR	39	112.765	81.410	19.986	1.00	63.13	PS16	ATOM	2600	N	THR	45	113.577	92.675	27.607	1.00	80.42	PS
ATOM	2548	CB	TYR	39	112.913	80.527	21.202	1.00	63.13	PS16	ATOM	2601	CA	THR	45	111.596	91.355	27.225	1.00	65.47	PS
ATOM	2549	CG	TYR	39	112.496	80.957	22.456	1.00	63.13	PS16	ATOM	2602	CB	THR	45	111.302	92.836	27.070	1.00	80.42	PS
ATOM	2550	CD1	TYR	39	112.593	80.131	23.563	1.00	63.13	PS16	ATOM	2603	OG1	THR	45	111.327	93.440	26.049	1.00	65.47	PS
ATOM	2551	CE1	TYR	39	113.434	79.247	21.086	1.00	63.13	PS16	ATOM	2604	CG2	THR	45	110.885	89.580	26.211	1.00	65.47	PS
ATOM	2552	CD2	TYR	39	113.534	78.417	22.179	1.00	63.13	PS16	ATOM	2605	C	THR	45	111.078	90.274	23.652	1.00	69.00	PS
ATOM	2553	CE2	TYR	39	113.114	78.861	23.417	1.00	63.13	PS16	ATOM	2606	O	THR	45	113.577	92.675	27.607	1.00	80.42	PS
ATOM	2554	CZ	TYR	39	113.226	78.040	24.513	1.00	63.13	PS16	ATOM	2607	N	PRO	46	111.596	91.355	27.225	1.00	65.47	PS
ATOM	2555	OH	TYR	39	114.795	82.587	20.864	1.00	40.46	PS16	ATOM	2608	CD	PRO	46	111.302	92.836	27.070	1.00	80.42	PS
ATOM	2556	C	TYR	39	114.708	81.840	20.524	1.00	40.46	PS16	ATOM	2609	CA	PRO	46	111.327	93.440	26.049	1.00	65.47	PS
ATOM	2557	O	TYR	39	114.830	83.329	21.967	1.00	51.12	PS16	ATOM	2610	CB	PRO	46	110.346	89.580	26.211	1.00	65.47	PS
ATOM	2558	N	ASP	40	115.948	83.273	22.895	1.00	51.12	PS16	ATOM	2611	CG	PRO	46	111.502	90.941	24.860	1.00	69.00	PS
ATOM	2559	CA	ASP	40	116.369	84.669	23.332	1.00	66.31	PS16	ATOM	2612	C	PRO	46	111.078	90.274	23.652	1.00	69.00	PS
ATOM	2560	CB	ASP	40	117.314	84.642	24.512	1.00	66.31	PS16	ATOM	2613	O	PRO	46	111.078	90.274	23.652	1.00	69.00	PS
ATOM	2561	CG	ASP	40	117.829	83.557	24.852	1.00	66.31	PS16	ATOM	2614	N	ASP	47	111.078	90.274	23.652	1.00	69.00	PS
ATOM	2562	OD1	ASP	40						PS16	ATOM	2615	CA	ASP	47						PS

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ATOM	2616	CB	ASP	47	111.132	91.269	22.494	1.00119.64	PS16	ATOM	2669	CA	VAL	53	101.435	84.283	13.079	1.00	56.28	PS16	
ATOM	2617	CG	ASP	47	110.713	90.661	21.181	1.00119.64	PS16	ATOM	2670	CB	VAL	53	100.151	84.651	13.814	1.00	77.08	PS16	
ATOM	2618	OD1	ASP	47	110.697	91.401	20.177	1.00119.64	PS16	ATOM	2671	CG1	VAL	53	100.437	84.778	15.291	1.00	77.08	PS16	
ATOM	2619	OD2	ASP	47	110.401	89.451	21.148	1.00119.64	PS16	ATOM	2672	CG2	VAL	53	99.585	85.936	13.262	1.00	77.08	PS16	
ATOM	2620	C	ASP	47	111.961	89.071	23.354	1.00	69.00	PS16	ATOM	2673	C	VAL	53	101.123	84.102	11.609	1.00	56.28	PS16
ATOM	2621	O	ASP	47	112.894	89.176	22.566	1.00	69.00	PS16	ATOM	2674	O	VAL	53	100.873	82.984	11.169	1.00	56.28	PS16
ATOM	2622	N	TRP	48	111.677	87.929	23.977	1.00	50.96	PS16	ATOM	2675	N	GLU	54	101.124	85.178	10.830	1.00	68.80	PS16
ATOM	2623	CA	TRP	48	112.481	86.736	23.723	1.00	50.96	PS16	ATOM	2676	CA	GLU	54	100.878	85.019	9.396	1.00	68.80	PS16
ATOM	2624	CB	TRP	48	112.930	86.073	25.025	1.00	61.94	PS16	ATOM	2677	CB	GLU	54	100.791	86.384	8.709	1.00	68.80	PS16
ATOM	2625	CG	TRP	48	111.830	85.776	25.977	1.00	61.94	PS16	ATOM	2678	CG	GLU	54	99.432	86.682	8.092	1.00	68.80	PS16
ATOM	2626	CD2	TRP	48	110.962	84.644	25.954	1.00	61.94	PS16	ATOM	2679	CD	GLU	54	99.144	85.829	6.866	1.00	68.80	PS16
ATOM	2627	CE2	TRP	48	110.082	84.773	27.041	1.00	61.94	PS16	ATOM	2680	OE1	GLU	54	99.336	84.593	6.938	1.00	68.80	PS16
ATOM	2628	CE3	TRP	48	110.840	83.534	25.117	1.00	61.94	PS16	ATOM	2681	OE2	GLU	54	98.715	86.398	5.837	1.00	68.80	PS16
ATOM	2629	CD1	TRP	48	111.454	86.526	27.045	1.00	61.94	PS16	ATOM	2682	C	GLU	54	102.121	84.273	8.934	1.00	68.80	PS16
ATOM	2630	NE1	TRP	48	110.405	85.931	27.693	1.00	61.94	PS16	ATOM	2683	O	GLU	54	102.985	83.971	9.751	1.00	68.80	PS16
ATOM	2631	CZ2	TRP	48	109.092	83.832	27.319	1.00	61.94	PS16	ATOM	2684	N	ARG	55	102.242	83.961	7.657	1.00	72.35	PS16
ATOM	2632	CZ3	TRP	48	109.857	82.599	25.390	1.00	61.94	PS16	ATOM	2685	CA	ARG	55	103.454	83.264	7.227	1.00	72.35	PS16
ATOM	2633	CH2	TRP	48	108.992	82.755	26.483	1.00	61.94	PS16	ATOM	2686	CB	ARG	55	104.695	84.028	7.697	1.00	43.06	PS16
ATOM	2634	C	TRP	48	111.795	85.699	22.842	1.00	50.96	PS16	ATOM	2687	CG	ARG	55	104.949	85.317	6.973	1.00	43.06	PS16
ATOM	2635	O	TRP	48	112.219	84.548	22.797	1.00	50.96	PS16	ATOM	2688	CD	ARG	55	105.646	85.018	5.680	1.00	43.06	PS16
ATOM	2636	N	LEU	49	110.737	86.099	22.150	1.00	54.86	PS16	ATOM	2689	NE	ARG	55	104.717	84.695	4.605	1.00	43.06	PS16
ATOM	2637	CA	LEU	49	110.054	85.195	21.238	1.00	54.86	PS16	ATOM	2690	CZ	ARG	55	105.031	83.933	3.560	1.00	43.06	PS16
ATOM	2638	CB	LEU	49	109.286	84.105	21.991	1.00	51.18	PS16	ATOM	2691	NH1	ARG	55	106.250	83.403	3.460	1.00	43.06	PS16
ATOM	2639	CG	LEU	49	108.411	83.241	21.058	1.00	51.18	PS16	ATOM	2692	NH2	ARG	55	104.139	83.722	2.593	1.00	43.06	PS16
ATOM	2640	CD1	LEU	49	109.278	82.315	20.208	1.00	51.18	PS16	ATOM	2693	C	ARG	55	103.473	81.866	7.829	1.00	72.35	PS16
ATOM	2641	CD2	LEU	49	107.426	82.435	21.879	1.00	51.18	PS16	ATOM	2694	O	ARG	55	103.452	80.862	7.105	1.00	72.35	PS16
ATOM	2642	C	LEU	49	109.092	85.948	20.331	1.00	54.86	PS16	ATOM	2695	N	ALA	56	103.552	81.804	9.155	1.00	50.88	PS16
ATOM	2643	N	LYS	50	109.445	86.063	19.058	1.00	45.14	PS16	ATOM	2696	CA	ALA	56	103.529	80.523	9.826	1.00	50.88	PS16
ATOM	2644	CA	LYS	50	108.544	86.738	18.098	1.00	45.14	PS16	ATOM	2697	CB	ALA	56	103.451	80.706	11.316	1.00	33.95	PS16
ATOM	2645	CB	LYS	50	108.954	87.836	17.355	1.00	91.45	PS16	ATOM	2698	C	ALA	56	102.247	79.901	9.303	1.00	50.88	PS16
ATOM	2646	CG	LYS	50	108.595	88.356	16.145	1.00	91.45	PS16	ATOM	2699	O	ALA	56	102.269	78.837	8.692	1.00	50.88	PS16
ATOM	2647	CG	LYS	50	109.404	89.359	15.352	1.00	91.45	PS16	ATOM	2700	N	ARG	57	101.134	80.597	9.508	1.00	46.54	PS16
ATOM	2648	CD	LYS	50	109.404	89.359	15.352	1.00	91.45	PS16	ATOM	2701	CA	ARG	57	99.852	80.102	9.041	1.00	46.54	PS16
ATOM	2649	CE	LYS	50	108.699	89.687	14.045	1.00	91.45	PS16	ATOM	2702	CB	ARG	57	98.754	81.145	9.247	1.00	72.71	PS16
ATOM	2650	NZ	LYS	50	108.494	88.462	13.222	1.00	91.45	PS16	ATOM	2703	CG	ARG	57	98.282	81.327	10.674	1.00	72.71	PS16
ATOM	2651	C	LYS	50	108.237	85.618	17.153	1.00	45.14	PS16	ATOM	2704	CD	ARG	57	97.366	82.558	10.751	1.00	72.71	PS16
ATOM	2652	O	LYS	50	109.069	84.739	16.940	1.00	45.14	PS16	ATOM	2705	NE	ARG	57	97.128	83.013	12.120	1.00	72.71	PS16
ATOM	2653	N	VAL	51	107.039	85.611	16.581	1.00	58.06	PS16	ATOM	2706	CZ	ARG	57	96.301	82.419	12.968	1.00	72.71	PS16
ATOM	2654	CA	VAL	51	106.725	84.496	15.703	1.00	58.06	PS16	ATOM	2707	NH1	ARG	57	95.618	81.347	12.585	1.00	72.71	PS16
ATOM	2655	CB	VAL	51	105.954	83.395	16.450	1.00	56.25	PS16	ATOM	2708	NH2	ARG	57	96.183	82.878	14.203	1.00	72.71	PS16
ATOM	2656	CG1	VAL	51	105.616	82.257	15.506	1.00	56.25	PS16	ATOM	2709	C	ARG	57	99.952	79.762	7.565	1.00	46.54	PS16
ATOM	2657	CG2	VAL	51	106.791	82.873	17.600	1.00	56.25	PS16	ATOM	2710	O	ARG	57	99.269	78.868	7.082	1.00	46.54	PS16
ATOM	2658	C	VAL	51	105.994	84.790	14.424	1.00	58.06	PS16	ATOM	2711	N	TYR	58	100.789	80.470	6.828	1.00	55.20	PS16
ATOM	2659	O	VAL	51	105.940	83.931	13.554	1.00	58.06	PS16	ATOM	2712	CA	TYR	58	100.891	80.143	5.417	1.00	55.20	PS16
ATOM	2660	N	ASP	52	105.411	85.967	14.283	1.00	52.26	PS16	ATOM	2713	CB	TYR	58	101.544	81.269	4.617	1.00	33.85	PS16
ATOM	2661	CA	ASP	52	104.738	86.248	13.017	1.00	52.26	PS16	ATOM	2714	CG	TYR	58	102.068	80.774	3.296	1.00	33.85	PS16
ATOM	2662	CB	ASP	52	105.794	86.292	11.906	1.00	59.18	PS16	ATOM	2715	CD1	TYR	58	103.432	80.491	3.119	1.00	33.85	PS16
ATOM	2663	CG	ASP	52	105.207	86.613	10.560	1.00	59.18	PS16	ATOM	2716	CE1	TYR	58	103.916	79.980	1.905	1.00	33.85	PS16
ATOM	2664	OD1	ASP	52	104.180	86.003	10.204	1.00	59.18	PS16	ATOM	2717	CD2	TYR	58	101.204	80.534	2.239	1.00	33.85	PS16
ATOM	2665	OD2	ASP	52	105.772	87.471	9.848	1.00	59.18	PS16	ATOM	2718	CE2	TYR	58	101.671	80.025	1.029	1.00	33.85	PS16
ATOM	2666	C	ASP	52	103.672	85.177	12.677	1.00	52.26	PS16	ATOM	2719	CZ	TYR	58	103.024	79.752	0.865	1.00	33.85	PS16
ATOM	2667	O	ASP	52	103.919	84.298	11.841	1.00	52.26	PS16	ATOM	2720	OH	TYR	58	103.473	79.266	-0.346	1.00	33.85	PS16
ATOM	2668	N	VAL	53	102.496	85.258	13.310	1.00	56.28	PS16	ATOM	2721	C	TYR	58	101.686	78.866	5.216	1.00	55.20	PS16

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ATOM	2722	O	TYR	58	101.259	77.975	4.491	1.00	55.20	PS16	ATOM	2775	O	GLN	65	107.768	70.830	10.539	1.00	59.80	PS
ATOM	2723	N	TRP	59	102.850	78.779	5.847	1.00	57.66	PS16	ATOM	2776	N	PRO	66	105.980	71.557	11.660	1.00	47.58	PS
ATOM	2724	CA	TRP	59	103.667	77.586	5.687	1.00	57.66	PS16	ATOM	2777	CD	PRO	66	104.559	71.872	11.891	1.00	38.94	PS
ATOM	2725	CB	TRP	59	105.056	77.774	6.335	1.00	42.82	PS16	ATOM	2778	CA	PRO	66	106.807	71.984	12.788	1.00	47.58	PS
ATOM	2726	CG	TRP	59	105.963	78.620	5.468	1.00	42.82	PS16	ATOM	2779	CB	PRO	66	105.836	72.805	13.624	1.00	38.94	PS
ATOM	2727	CD2	TRP	59	106.483	78.256	4.186	1.00	42.82	PS16	ATOM	2780	CG	PRO	66	104.522	72.105	13.381	1.00	38.94	PS
ATOM	2728	CE2	TRP	59	107.139	79.389	3.661	1.00	42.82	PS16	ATOM	2781	C	PRO	66	107.477	70.900	13.617	1.00	47.58	PS
ATOM	2729	CE3	TRP	59	106.449	77.081	3.427	1.00	42.82	PS16	ATOM	2782	O	PRO	66	106.975	69.791	13.755	1.00	47.58	PS
ATOM	2730	CD1	TRP	59	106.326	79.926	5.670	1.00	42.82	PS16	ATOM	2783	N	THR	67	108.630	71.247	14.166	1.00	44.12	PS
ATOM	2731	NE1	TRP	59	107.029	80.394	4.584	1.00	42.82	PS16	ATOM	2784	CA	THR	67	109.370	70.372	15.051	1.00	44.12	PS
ATOM	2732	C22	TRP	59	107.755	79.382	2.413	1.00	42.82	PS16	ATOM	2785	CB	THR	67	110.749	70.982	15.356	1.00	57.50	PS
ATOM	2733	C23	TRP	59	107.060	77.074	2.185	1.00	42.82	PS16	ATOM	2786	OG1	THR	67	111.621	70.783	14.240	1.00	57.50	PS
ATOM	2734	CH2	TRP	59	107.707	78.221	1.689	1.00	42.82	PS16	ATOM	2787	CG2	THR	67	111.356	70.354	16.584	1.00	57.50	PS
ATOM	2735	C	TRP	59	102.965	76.351	6.228	1.00	57.66	PS16	ATOM	2788	C	THR	67	108.520	70.412	16.321	1.00	44.12	PS
ATOM	2736	O	TRP	59	103.144	75.263	5.693	1.00	57.66	PS16	ATOM	2789	O	THR	67	107.650	71.279	16.457	1.00	44.12	PS
ATOM	2737	N	LEU	60	102.161	76.516	7.273	1.00	50.78	PS16	ATOM	2790	N	ASP	68	108.743	69.502	17.259	1.00	58.25	PS
ATOM	2738	CA	LEU	60	101.429	75.395	7.838	1.00	50.78	PS16	ATOM	2791	CA	ASP	68	107.945	69.563	18.472	1.00	58.25	PS
ATOM	2739	CB	LEU	60	101.694	75.823	9.097	1.00	46.23	PS16	ATOM	2792	CB	ASP	68	108.233	68.378	19.389	1.00	90.89	PS
ATOM	2740	CG	LEU	60	101.674	76.202	10.199	1.00	46.23	PS16	ATOM	2793	CG	ASP	68	107.389	67.174	19.043	1.00	90.89	PS
ATOM	2741	CD1	LEU	60	100.932	76.847	11.349	1.00	46.23	PS16	ATOM	2794	OD1	ASP	68	106.191	67.380	18.758	1.00	90.89	PS
ATOM	2742	CD2	LEU	60	102.431	74.956	10.649	1.00	46.23	PS16	ATOM	2795	OD2	ASP	68	107.908	66.034	19.059	1.00	90.89	PS
ATOM	2743	C	LEU	60	100.453	74.915	6.775	1.00	50.78	PS16	ATOM	2796	C	ASP	68	108.157	70.875	19.222	1.00	58.25	PS
ATOM	2744	O	LEU	60	100.282	73.708	6.574	1.00	50.78	PS16	ATOM	2797	C	ASP	68	107.196	71.451	19.723	1.00	58.25	PS
ATOM	2745	N	SER	61	99.788	75.845	6.097	1.00	53.05	PS16	ATOM	2798	N	THR	69	109.395	71.357	19.301	1.00	60.49	PS
ATOM	2746	CA	SER	61	98.917	75.434	5.009	1.00	53.05	PS16	ATOM	2799	CA	THR	69	109.637	72.616	19.958	1.00	60.49	PS
ATOM	2747	CB	SER	61	98.091	76.604	4.501	1.00	56.05	PS16	ATOM	2800	CG1	THR	69	111.116	72.842	20.343	1.00	50.27	PS
ATOM	2748	OG	SER	61	98.878	77.473	3.711	1.00	56.05	PS16	ATOM	2801	OG1	THR	69	111.609	71.745	21.113	1.00	50.27	PS
ATOM	2749	C	SER	61	100.025	75.131	4.020	1.00	53.05	PS16	ATOM	2802	CG2	THR	69	111.263	74.101	21.170	1.00	50.27	PS
ATOM	2750	O	SER	61	101.187	75.343	4.350	1.00	53.05	PS16	ATOM	2803	C	THR	69	109.188	73.780	19.134	1.00	60.49	PS
ATOM	2751	N	VAL	62	99.740	74.643	2.827	1.00	59.28	PS16	ATOM	2804	N	ALA	70	108.665	74.771	19.639	1.00	60.49	PS
ATOM	2752	CA	VAL	62	100.871	74.407	1.931	1.00	59.28	PS16	ATOM	2805	CA	ALA	70	109.402	73.667	17.830	1.00	59.37	PS
ATOM	2753	CB	VAL	62	101.770	75.655	1.851	1.00	52.98	PS16	ATOM	2806	CA	ALA	70	108.984	74.724	16.927	1.00	59.37	PS
ATOM	2754	CG1	VAL	62	103.007	75.350	1.078	1.00	52.98	PS16	ATOM	2807	CB	ALA	70	109.214	74.306	15.484	1.00	55.71	PS
ATOM	2755	CG2	VAL	62	101.013	76.795	1.221	1.00	52.98	PS16	ATOM	2808	C	ALA	70	107.502	74.978	17.169	1.00	59.37	PS
ATOM	2756	C	VAL	62	101.740	73.225	2.369	1.00	59.28	PS16	ATOM	2809	O	ALA	70	107.078	76.120	17.317	1.00	59.37	PS
ATOM	2757	O	VAL	62	102.459	72.654	1.551	1.00	59.28	PS16	ATOM	2810	N	ARG	71	106.720	73.905	17.226	1.00	55.19	PS
ATOM	2758	N	GLY	63	101.724	72.883	3.655	1.00	38.57	PS16	ATOM	2811	CA	ARG	71	105.281	74.017	17.451	1.00	55.19	PS
ATOM	2759	CA	GLY	63	102.476	71.718	4.083	1.00	38.57	PS16	ATOM	2812	CB	ARG	71	104.644	72.633	17.321	1.00	53.65	PS
ATOM	2760	C	GLY	63	103.626	71.757	5.070	1.00	38.57	PS16	ATOM	2813	CG	ARG	71	103.200	72.544	17.770	1.00	53.65	PS
ATOM	2761	O	GLY	63	104.216	70.708	5.343	1.00	38.57	PS16	ATOM	2814	CD	ARG	71	102.605	71.196	17.412	1.00	53.65	PS
ATOM	2762	N	ALA	64	103.981	72.919	5.605	1.00	65.92	PS16	ATOM	2815	NE	ARG	71	101.878	71.246	16.148	1.00	53.65	PS
ATOM	2763	CA	ALA	64	105.086	72.942	6.553	1.00	65.92	PS16	ATOM	2816	CZ	ARG	71	101.996	70.336	15.185	1.00	53.65	PS
ATOM	2764	CB	ALA	64	105.292	74.325	7.113	1.00	60.60	PS16	ATOM	2817	NH1	ARG	71	102.824	69.308	15.344	1.00	53.65	PS
ATOM	2765	C	ALA	64	104.768	71.963	7.670	1.00	65.92	PS16	ATOM	2818	CH	ARG	71	101.276	70.442	14.070	1.00	53.65	PS
ATOM	2766	O	ALA	64	103.610	71.589	7.886	1.00	65.92	PS16	ATOM	2819	NH2	ARG	71	104.938	74.641	18.814	1.00	55.19	PS
ATOM	2767	N	GLN	65	105.805	71.564	8.390	1.00	59.80	PS16	ATOM	2820	O	ARG	71	104.062	75.505	18.918	1.00	55.19	PS
ATOM	2768	CA	GLN	65	105.659	70.243	9.451	1.00	59.80	PS16	ATOM	2821	N	ARG	72	105.637	74.201	19.852	1.00	52.70	PS
ATOM	2769	CB	GLN	65	106.100	69.245	8.927	1.00	47.12	PS16	ATOM	2822	CA	ARG	72	105.421	74.705	21.199	1.00	52.70	PS
ATOM	2770	CG	GLN	65	105.419	68.129	9.601	1.00	47.12	PS16	ATOM	2823	CB	ARG	72	106.499	74.156	22.133	1.00	57.02	PS
ATOM	2771	CD	GLN	65	103.950	68.171	9.327	1.00	47.12	PS16	ATOM	2824	CG	ARG	72	106.328	74.529	23.585	1.00	57.02	PS
ATOM	2772	OE1	GLN	65	103.515	67.945	8.191	1.00	47.12	PS16	ATOM	2825	CD	ARG	72	107.622	74.281	24.340	1.00	57.02	PS
ATOM	2773	NE2	GLN	65	103.165	68.470	10.359	1.00	47.12	PS16	ATOM	2826	NE	ARG	72	108.143	75.510	24.943	1.00	57.02	PS
ATOM	2774	C	GLN	65	106.557	71.011	10.594	1.00	59.80	PS16	ATOM	2827	CZ	ARG	72	109.440	75.769	25.097	1.00	57.02	PS

ATOM	2828	NH1	ARG	72	110.343	74.884	24.690	1.00	57.02	PS16	ATOM	2881	CG2	VAL	79	101.901	80.889	15.372	1.00	45.18	PS
ATOM	2829	NH2	ARG	72	109.836	76.913	25.652	1.00	57.02	PS16	ATOM	2882	C	VAL	79	98.377	79.495	15.463	1.00	55.24	PS
ATOM	2830	C	ARG	72	105.455	76.225	21.180	1.00	52.70	PS16	ATOM	2883	O	VAL	79	97.870	79.424	14.349	1.00	55.24	PS
ATOM	2831	O	ARG	72	104.742	76.915	21.889	1.00	52.70	PS16	ATOM	2884	N	PHE	80	97.987	78.728	16.473	1.00	57.85	PS
ATOM	2832	N	LEU	73	106.414	76.740	20.364	1.00	49.98	PS16	ATOM	2885	CA	PHE	80	96.921	77.755	16.271	1.00	57.85	PS
ATOM	2833	CA	LEU	73	106.606	78.174	20.238	1.00	49.98	PS16	ATOM	2886	CB	PHE	80	97.315	76.398	16.851	1.00	55.17	PS
ATOM	2834	CB	LEU	73	107.997	78.473	19.684	1.00	63.47	PS16	ATOM	2887	CG	PHE	80	98.619	75.868	16.320	1.00	55.17	PS
ATOM	2835	CG	LEU	73	109.116	77.904	20.566	1.00	63.47	PS16	ATOM	2888	CD1	PHE	80	99.776	75.918	17.100	1.00	55.17	PS
ATOM	2836	CD1	LEU	73	110.480	78.342	20.035	1.00	63.47	PS16	ATOM	2889	CD2	PHE	80	98.687	75.300	15.044	1.00	55.17	PS
ATOM	2837	CD2	LEU	73	108.921	78.370	22.014	1.00	63.47	PS16	ATOM	2890	CE1	PHE	80	100.977	75.409	16.624	1.00	55.17	PS
ATOM	2838	C	LEU	73	105.543	78.780	19.348	1.00	49.98	PS16	ATOM	2891	CE2	PHE	80	99.882	74.786	14.550	1.00	55.17	PS
ATOM	2839	O	LEU	73	104.897	79.746	19.735	1.00	49.98	PS16	ATOM	2892	CZ	PHE	80	101.031	74.837	15.341	1.00	55.17	PS
ATOM	2840	N	LEU	74	105.353	78.230	18.155	1.00	44.92	PS16	ATOM	2893	C	PHE	80	95.624	78.228	16.902	1.00	57.85	PS
ATOM	2841	CA	LEU	74	104.331	78.776	17.279	1.00	44.92	PS16	ATOM	2894	O	PHE	80	94.568	77.627	16.693	1.00	57.85	PS
ATOM	2842	CB	LEU	74	104.125	77.901	16.041	1.00	34.15	PS16	ATOM	2895	N	ARG	81	95.729	79.308	17.676	1.00	70.04	PS
ATOM	2843	CG	LEU	74	105.239	77.730	15.018	1.00	34.15	PS16	ATOM	2896	CA	ARG	81	94.598	79.935	18.360	1.00	70.04	PS
ATOM	2844	CD1	LEU	74	104.639	77.884	13.621	1.00	34.15	PS16	ATOM	2897	CB	ARG	81	94.938	81.391	18.673	1.00	103.51	PS
ATOM	2845	CD2	LEU	74	106.326	78.749	15.250	1.00	34.15	PS16	ATOM	2898	CG	ARG	81	95.306	81.661	20.103	1.00	103.51	PS
ATOM	2846	C	LEU	74	103.030	78.833	18.071	1.00	44.92	PS16	ATOM	2899	CD	ARG	81	94.076	81.944	20.900	1.00	103.51	PS
ATOM	2847	O	LEU	74	102.159	79.661	17.799	1.00	44.92	PS16	ATOM	2900	NE	ARG	81	94.347	81.866	22.325	1.00	103.51	PS
ATOM	2848	N	ARG	75	102.893	77.945	19.051	1.00	43.50	PS16	ATOM	2901	CZ	ARG	81	93.430	82.067	23.264	1.00	103.51	PS
ATOM	2849	CA	ARG	75	101.687	77.935	19.865	1.00	43.50	PS16	ATOM	2902	NH1	ARG	81	92.783	82.363	22.917	1.00	103.51	PS
ATOM	2850	CB	ARG	75	101.636	76.681	20.742	1.00	60.07	PS16	ATOM	2903	NH2	ARG	81	93.755	81.955	24.548	1.00	103.51	PS
ATOM	2851	CG	ARG	75	100.296	76.465	21.432	1.00	60.07	PS16	ATOM	2904	C	ARG	81	93.319	79.915	17.542	1.00	70.04	PS
ATOM	2852	CD	ARG	75	100.294	75.200	22.278	1.00	60.07	PS16	ATOM	2905	O	ARG	81	93.004	80.895	16.871	1.00	70.04	PS
ATOM	2853	NE	ARG	75	100.493	73.983	21.488	1.00	60.07	PS16	ATOM	2906	N	GLN	82	92.586	78.808	17.588	1.00	40.94	PS
ATOM	2854	CZ	ARG	75	99.697	73.591	20.494	1.00	60.07	PS16	ATOM	2907	CA	GLN	82	91.329	77.721	16.841	1.00	40.94	PS
ATOM	2855	NH1	ARG	75	98.637	74.316	20.158	1.00	60.07	PS16	ATOM	2908	CB	GLN	82	90.826	77.285	16.782	1.00	40.94	PS
ATOM	2856	NH2	ARG	75	99.965	72.475	19.829	1.00	60.07	PS16	ATOM	2909	CG	GLN	82	91.378	76.490	15.638	1.00	40.94	PS
ATOM	2857	C	ARG	75	101.649	79.195	20.738	1.00	43.50	PS16	ATOM	2910	CD	GLN	82	91.263	75.007	15.883	1.00	40.94	PS
ATOM	2858	O	ARG	75	100.733	79.999	20.612	1.00	43.50	PS16	ATOM	2911	OE1	GLN	82	90.182	74.493	17.820	1.00	40.94	PS
ATOM	2859	N	GLN	76	102.637	79.363	21.619	1.00	52.85	PS16	ATOM	2912	NE2	GLN	82	92.384	74.305	15.770	1.00	40.94	PS
ATOM	2860	CA	GLN	76	102.700	80.544	22.482	1.00	52.85	PS16	ATOM	2913	C	GLN	82	90.331	79.551	17.614	1.00	40.94	PS
ATOM	2861	CB	GLN	76	104.089	80.014	23.067	1.00	55.18	PS16	ATOM	2914	O	GLN	82	89.789	79.105	18.623	1.00	40.94	PS
ATOM	2862	CG	GLN	76	104.294	80.014	24.349	1.00	55.18	PS16	ATOM	2915	N	GLU	83	90.096	80.766	17.149	1.00	119.03	PS
ATOM	2863	CD	GLN	76	105.671	80.281	24.899	1.00	55.18	PS16	ATOM	2916	CA	GLU	83	89.151	81.636	17.851	1.00	119.03	PS
ATOM	2864	OE1	GLN	76	106.114	81.432	24.950	1.00	55.18	PS16	ATOM	2917	CB	GLU	83	89.888	82.760	18.551	1.00	119.03	PS
ATOM	2865	NE2	GLN	76	106.366	79.219	25.322	1.00	55.18	PS16	ATOM	2918	CG	GLU	83	90.939	82.281	19.544	1.00	119.03	PS
ATOM	2866	C	GLN	76	102.379	81.808	21.706	1.00	52.85	PS16	ATOM	2919	CD	GLU	83	90.355	82.281	20.656	1.00	119.03	PS
ATOM	2867	O	GLN	76	101.777	82.747	22.232	1.00	52.85	PS16	ATOM	2920	OE1	GLU	83	89.418	81.435	20.656	1.00	119.03	PS
ATOM	2868	N	ALA	77	102.810	81.830	20.453	1.00	55.07	PS16	ATOM	2921	OE2	GLU	83	90.841	80.302	20.857	1.00	119.03	PS
ATOM	2869	CA	ALA	77	102.590	82.974	19.598	1.00	55.07	PS16	ATOM	2922	C	GLU	83	88.196	82.218	16.798	1.00	119.03	PS
ATOM	2870	CB	ALA	77	103.521	82.900	18.422	1.00	46.40	PS16	ATOM	2923	O	GLU	83	87.779	83.369	16.916	1.00	119.03	PS
ATOM	2871	C	ALA	77	101.139	83.039	19.131	1.00	55.07	PS16	ATOM	2924	N	ALA	84	87.862	81.421	15.787	1.00	165.06	PS
ATOM	2872	O	ALA	77	100.740	83.979	18.452	1.00	55.07	PS16	ATOM	2925	CA	ALA	84	86.937	81.867	14.757	1.00	165.06	PS
ATOM	2873	N	GLY	78	100.352	82.034	19.497	1.00	53.43	PS16	ATOM	2926	CB	ALA	84	86.542	80.704	13.862	1.00	82.25	PS
ATOM	2874	CA	GLY	78	98.953	82.011	19.120	1.00	53.43	PS16	ATOM	2927	C	ALA	84	85.710	82.440	15.460	1.00	65.06	PS
ATOM	2875	C	GLY	78	98.739	81.672	17.667	1.00	53.43	PS16	ATOM	2928	O	ALA	84	85.466	83.642	15.398	1.00	65.06	PS
ATOM	2876	O	GLY	78	97.790	82.131	17.039	1.00	53.43	PS16	ATOM	2929	N	ARG	85	84.960	81.567	16.133	1.00	82.73	PS
ATOM	2877	N	VAL	79	99.623	80.855	17.121	1.00	55.24	PS16	ATOM	2930	CA	ARG	85	83.757	81.929	16.891	1.00	182.73	PS
ATOM	2878	CA	VAL	79	99.497	80.483	15.728	1.00	55.24	PS16	ATOM	2931	CB	ARG	85	82.815	82.834	16.077	1.00	200.66	PS
ATOM	2879	CB	VAL	79	100.788	79.888	15.203	1.00	45.18	PS16	ATOM	2932	CG	ARG	85	83.116	84.332	16.159	1.00	200.66	PS
ATOM	2880	CG1	VAL	79	100.625	79.523	13.740	1.00	45.18	PS16	ATOM	2933	CD	ARG	85	83.332	84.794	17.595	1.00	200.66	PS

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ATOM	2934	NE	ARG	85	83.770	86.187	17.660	1.00200.66	PS16	ATOM	2987	CG1	VAL	5	114.640	88.319	-30.351	1.00	27.82	OS	
ATOM	2935	CZ	ARG	85	84.189	86.790	18.770	1.00200.66	PS16	ATOM	2988	CG2	VAL	5	113.914	87.054	-28.355	1.00	27.82	OS	
ATOM	2936	NH1	ARG	85	84.228	86.121	19.917	1.00200.66	PS16	ATOM	2989	C	VAL	5	117.489	87.590	-29.563	1.00	43.98	OS	
ATOM	2937	NH2	ARG	85	84.573	88.061	18.734	1.00200.66	PS16	ATOM	2990	O	VAL	5	117.822	88.543	-28.857	1.00	43.98	OS	
ATOM	2938	C	ARG	85	82.986	80.683	17.323	1.00182.73	PS16	ATOM	2991	N	LEU	6	118.165	87.238	-30.650	1.00	49.75	OS	
ATOM	2939	O	ARG	85	81.773	80.736	17.528	1.00182.73	PS16	ATOM	2992	CA	LEU	6	119.358	87.954	-31.058	1.00	49.75	OS	
ATOM	2940	N	GLU	86	83.690	79.564	17.462	1.00141.81	PS16	ATOM	2993	CB	LEU	6	120.589	87.124	-30.755	1.00	35.63	OS	
ATOM	2941	CA	GLU	86	83.052	78.313	17.863	1.00141.81	PS16	ATOM	2994	CG	LEU	6	120.730	86.710	-29.299	1.00	35.63	OS	
ATOM	2942	CB	GLU	86	83.905	77.118	17.418	1.00159.71	PS16	ATOM	2995	CD1	LEU	6	121.820	85.653	-29.131	1.00	35.63	OS	
ATOM	2943	CG	GLU	86	83.243	76.205	16.381	1.00159.71	PS16	ATOM	2996	CD2	LEU	6	121.025	87.934	-28.502	1.00	35.63	OS	
ATOM	2944	CD	GLU	86	83.024	76.879	15.033	1.00159.71	PS16	ATOM	2997	C	LEU	6	119.332	88.284	-32.539	1.00	49.75	OS	
ATOM	2945	OE1	GLU	86	84.018	77.325	14.420	1.00159.71	PS16	ATOM	2998	O	LEU	6	118.629	87.646	-33.329	1.00	49.75	OS	
ATOM	2946	OE2	GLU	86	81.860	76.957	14.585	1.00159.71	PS16	ATOM	2999	N	THR	7	120.124	89.280	-32.913	1.00	53.84	OS	
ATOM	2947	C	GLU	86	82.827	78.260	19.375	1.00141.81	PS16	ATOM	3000	CA	THR	7	120.179	89.729	-34.290	1.00	53.84	OS	
ATOM	2948	O	GLU	86	83.720	78.587	20.158	1.00141.81	PS16	ATOM	3001	CB	THR	7	119.681	91.148	-34.382	1.00	55.11	OS	
ATOM	2949	N	GLY	87	81.625	77.851	19.776	1.00166.06	PS16	ATOM	3002	OG1	THR	7	118.310	91.192	-33.970	1.00	55.11	OS	
ATOM	2950	CA	GLY	87	81.300	77.766	21.190	1.00166.06	PS16	ATOM	3003	CG2	THR	7	119.808	91.645	-35.795	1.00	55.11	OS	
ATOM	2951	C	GLY	87	79.880	77.296	21.457	1.00166.06	PS16	ATOM	3004	C	THR	7	121.564	89.659	-34.917	1.00	53.84	OS	
ATOM	2952	O	GLY	87	79.641	76.498	22.368	1.00166.06	PS16	ATOM	3005	O	THR	7	122.539	90.188	-34.382	1.00	53.84	OS	
ATOM	2953	N	ALA	88	78.935	77.794	20.662	1.00187.92	PS16	ATOM	3006	N	GLY	8	121.640	89.016	-36.074	1.00	46.17	OS	
ATOM	2954	CA	ALA	88	77.529	77.425	20.805	1.00187.92	PS16	ATOM	3007	CA	GLY	8	122.915	88.866	-36.740	1.00	46.17	OS	
ATOM	2955	CB	ALA	88	76.768	78.539	21.521	1.00130.19	PS16	ATOM	3008	C	GLY	8	122.732	88.521	-38.187	1.00	46.17	OS	
ATOM	2956	C	ALA	88	76.897	77.151	19.441	1.00187.92	PS16	ATOM	3009	O	GLY	8	121.601	88.436	-38.663	1.00	46.17	OS	
ATOM	2957	O	ALA	88	77.582	77.371	18.419	1.00187.92	PS16	ATOM	3010	N	VAL	9	123.795	87.961	-40.290	1.00	47.52	OS	
ATOM	2958	OXT	ALA	88	75.722	76.723	19.411	1.00130.19	PS16	ATOM	3011	CA	VAL	9	124.882	88.787	-41.066	1.00	65.35	OS	
ATOM	2959	CB	PRO	2	112.550	87.139	-21.841	1.00	45.98	OS17	ATOM	3012	CB	VAL	9	124.882	88.702	-41.066	1.00	65.35	OS
ATOM	2960	CG	PRO	2	112.130	87.727	-20.491	1.00	45.98	OS17	ATOM	3013	CG1	VAL	9	124.666	88.516	-42.554	1.00	65.35	OS
ATOM	2961	C	PRO	2	113.470	84.989	-22.467	1.00	48.68	OS17	ATOM	3014	CG2	VAL	9	124.866	90.158	-40.705	1.00	65.35	OS
ATOM	2962	O	PRO	2	114.674	85.126	-22.239	1.00	48.68	OS17	ATOM	3015	C	VAL	9	123.975	86.493	-40.594	1.00	47.52	OS
ATOM	2963	N	PRO	2	112.606	85.454	-20.180	1.00	48.68	OS17	ATOM	3016	O	VAL	9	124.807	85.817	-39.990	1.00	47.52	OS
ATOM	2964	CD	PRO	2	112.668	86.735	-19.457	1.00	45.98	OS17	ATOM	3017	N	VAL	10	123.201	86.001	-41.550	1.00	59.73	OS
ATOM	2965	CA	PRO	2	112.435	85.702	-21.622	1.00	48.68	OS17	ATOM	3018	CA	VAL	10	123.327	84.616	-41.948	1.00	59.73	OS
ATOM	2966	N	LYS	3	112.988	84.218	-23.435	1.00	46.17	OS17	ATOM	3019	CB	VAL	10	122.171	84.193	-42.843	1.00	50.82	OS
ATOM	2967	CA	LYS	3	113.865	83.532	-24.359	1.00	46.17	OS17	ATOM	3020	CG1	VAL	10	122.363	82.754	-43.288	1.00	50.82	OS
ATOM	2968	CB	LYS	3	113.040	82.756	-25.378	1.00	53.40	OS17	ATOM	3021	CG2	VAL	10	120.877	84.348	-42.099	1.00	50.82	OS
ATOM	2969	CG	LYS	3	112.199	81.669	-24.730	1.00	53.40	OS17	ATOM	3022	C	VAL	10	124.618	84.531	-42.743	1.00	59.73	OS
ATOM	2970	CD	LYS	3	111.742	80.620	-25.731	1.00	53.40	OS17	ATOM	3023	O	VAL	10	124.644	84.855	-43.925	1.00	59.73	OS
ATOM	2971	CE	LYS	3	111.139	79.426	-25.019	1.00	53.40	OS17	ATOM	3024	N	VAL	11	125.697	84.114	-42.097	1.00	45.11	OS
ATOM	2972	NZ	LYS	3	110.022	79.808	-24.110	1.00	53.40	OS17	ATOM	3025	CA	VAL	11	126.971	84.018	-42.790	1.00	45.11	OS
ATOM	2973	C	LYS	3	114.630	84.682	-25.008	1.00	46.17	OS17	ATOM	3026	CB	VAL	11	128.136	84.375	-41.864	1.00	48.52	OS
ATOM	2974	O	LYS	3	114.043	85.697	-25.387	1.00	46.17	OS17	ATOM	3027	CG1	VAL	11	127.774	85.578	-41.043	1.00	48.52	OS
ATOM	2975	N	LYS	4	115.938	84.514	-25.122	1.00	49.20	OS17	ATOM	3028	CG2	VAL	11	128.465	83.201	-40.962	1.00	48.52	OS
ATOM	2976	CA	LYS	4	116.824	85.538	-25.636	1.00	49.20	OS17	ATOM	3029	C	VAL	11	127.201	82.622	-43.346	1.00	45.11	OS
ATOM	2977	CB	LYS	4	118.204	84.942	-25.858	1.00	47.08	OS17	ATOM	3030	O	VAL	11	128.281	82.333	-43.846	1.00	45.11	OS
ATOM	2978	CG	LYS	4	119.271	86.004	-26.042	1.00	47.08	OS17	ATOM	3031	N	SER	12	126.194	81.755	-43.256	1.00	62.30	OS
ATOM	2979	CD	LYS	4	119.211	86.983	-24.911	1.00	47.08	OS17	ATOM	3032	CA	SER	12	126.320	80.397	-43.796	1.00	62.30	OS
ATOM	2980	CE	LYS	4	120.252	88.033	-25.064	1.00	47.08	OS17	ATOM	3033	CB	SER	12	127.253	79.548	-42.945	1.00	50.42	OS
ATOM	2981	NZ	LYS	4	120.133	88.944	-23.905	1.00	47.08	OS17	ATOM	3034	OG	SER	12	127.176	78.199	-43.370	1.00	50.42	OS
ATOM	2982	C	LYS	4	116.503	86.432	-26.829	1.00	49.20	OS17	ATOM	3035	C	SER	12	125.021	79.624	-43.963	1.00	62.30	OS
ATOM	2983	O	LYS	4	116.298	87.631	-26.649	1.00	49.20	OS17	ATOM	3036	O	SER	12	124.219	79.530	-43.030	1.00	62.30	OS
ATOM	2984	N	VAL	5	116.492	85.896	-28.043	1.00	43.98	OS17	ATOM	3037	N	ASP	13	124.841	79.056	-45.155	1.00	74.39	OS
ATOM	2985	CA	VAL	5	116.244	86.746	-29.222	1.00	43.98	OS17	ATOM	3038	CA	ASP	13	123.664	78.260	-45.486	1.00	74.39	OS
ATOM	2986	CB	VAL	5	115.071	87.743	-29.014	1.00	27.82	OS17	ATOM	3039	CB	ASP	13	122.774	79.008	-46.483	1.00	167.53	OS

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ATOM	3040	CG	ASP	13	121.453	78.293	-46.744	1.00167.53	Q517	ATOM	3093	O	VAL	19	122.653	79.049	-38.575	1.0051.37	Q5
ATOM	3041	OD1	ASP	13	120.694	78.762	-47.623	1.00167.53	Q517	ATOM	3094	N	THR	20	124.194	79.683	-40.093	1.0043.77	Q5
ATOM	3042	OD2	ASP	13	121.168	77.270	-46.074	1.00167.53	Q517	ATOM	3095	CA	THR	20	125.051	80.299	-39.103	1.0043.77	Q5
ATOM	3043	C	ASP	13	124.132	76.941	-46.103	1.0074.39	Q517	ATOM	3096	CB	THR	20	126.517	80.146	-39.456	1.0045.26	Q5
ATOM	3044	N	LYS	13	123.373	76.252	-46.788	1.0074.39	Q517	ATOM	3097	OG1	THR	20	126.846	78.756	-39.563	1.0045.26	Q5
ATOM	3045	O	LYS	14	125.383	76.583	-45.844	1.0074.84	Q517	ATOM	3098	CG2	THR	20	127.368	80.785	-38.381	1.0045.26	Q5
ATOM	3046	CA	LYS	14	125.957	75.360	-46.390	1.0074.84	Q517	ATOM	3099	C	THR	20	124.737	81.777	-39.066	1.0043.77	Q5
ATOM	3047	CB	LYS	14	127.469	75.353	-46.171	1.00106.75	Q517	ATOM	3100	O	THR	20	124.763	82.446	-40.095	1.0043.77	Q5
ATOM	3048	CG	LYS	14	128.135	76.609	-46.681	1.00106.75	Q517	ATOM	3101	N	VAL	21	124.430	82.286	-37.884	1.0046.13	Q5
ATOM	3049	CD	LYS	14	129.631	76.556	-46.541	1.00106.75	Q517	ATOM	3102	CA	VAL	21	124.133	83.653	-37.750	1.0046.13	Q5
ATOM	3050	CE	LYS	14	130.234	77.889	-46.930	1.00106.75	Q517	ATOM	3103	CB	VAL	21	122.819	83.917	-37.026	1.0041.05	Q5
ATOM	3051	NZ	LYS	14	131.718	77.826	-46.949	1.00106.75	Q517	ATOM	3104	CG1	VAL	21	122.421	85.373	-37.150	1.0041.05	Q5
ATOM	3052	C	LYS	14	125.348	74.100	-45.797	1.0074.84	Q517	ATOM	3105	CG2	VAL	21	121.753	83.019	-37.600	1.0041.05	Q5
ATOM	3053	O	LYS	14	125.316	73.054	-46.438	1.0074.84	Q517	ATOM	3106	C	VAL	21	125.249	84.349	-36.951	1.0046.13	Q5
ATOM	3054	N	MET	15	124.857	74.201	-44.571	1.0078.91	Q517	ATOM	3107	O	VAL	21	125.599	83.895	-35.864	1.0046.13	Q5
ATOM	3055	CA	MET	15	124.273	73.053	-43.906	1.0078.91	Q517	ATOM	3108	N	LEU	22	125.816	85.415	-37.494	1.0050.56	Q5
ATOM	3056	CB	MET	15	124.356	73.239	-42.401	1.0060.97	Q517	ATOM	3109	CA	LEU	22	126.895	86.093	-36.814	1.0050.56	Q5
ATOM	3057	CG	MET	15	125.767	73.300	-41.897	1.0060.97	Q517	ATOM	3110	CB	LEU	22	127.903	86.624	-37.828	1.0043.49	Q5
ATOM	3058	SD	MET	15	125.798	73.340	-40.128	1.0060.97	Q517	ATOM	3111	CG	LEU	22	129.206	87.188	-37.269	1.0043.49	Q5
ATOM	3059	CE	MET	15	125.719	75.086	-39.833	1.0060.97	Q517	ATOM	3112	CD1	LEU	22	129.907	86.131	-36.444	1.0043.49	Q5
ATOM	3060	C	MET	15	122.835	72.775	-44.302	1.0078.91	Q517	ATOM	3113	CD2	LEU	22	130.084	87.613	-38.406	1.0043.49	Q5
ATOM	3061	O	MET	15	122.294	73.527	-45.078	1.0078.91	Q517	ATOM	3114	C	LEU	22	126.295	87.230	-36.036	1.0050.56	Q5
ATOM	3062	N	GLN	16	122.294	71.685	-43.759	1.0092.82	Q517	ATOM	3115	O	LEU	22	125.895	88.238	-36.621	1.0050.56	Q5
ATOM	3063	CA	GLN	16	120.926	71.276	-44.032	1.0092.82	Q517	ATOM	3116	N	VAL	23	126.233	87.069	-34.718	1.0047.51	Q5
ATOM	3064	CB	GLN	16	120.621	69.952	-43.338	1.00102.46	Q517	ATOM	3117	CA	VAL	23	125.652	88.089	-33.851	1.0047.51	Q5
ATOM	3065	CG	GLN	16	120.021	68.878	-44.261	1.00102.46	Q517	ATOM	3118	CB	VAL	23	124.845	87.435	-32.708	1.0038.23	Q5
ATOM	3066	CD	GLN	16	121.013	68.337	-45.292	1.00102.46	Q517	ATOM	3119	CG1	VAL	23	124.376	88.430	-31.715	1.0038.23	Q5
ATOM	3067	OE1	GLN	16	121.492	69.071	-46.160	1.00102.46	Q517	ATOM	3120	CG2	VAL	23	123.666	86.685	-33.292	1.0038.23	Q5
ATOM	3068	NE2	GLN	16	121.321	67.048	-45.195	1.00102.46	Q517	ATOM	3121	C	VAL	23	126.700	89.002	-33.253	1.0047.51	Q5
ATOM	3069	C	GLN	16	119.950	72.346	-43.563	1.0092.82	Q517	ATOM	3122	O	VAL	23	127.568	88.556	-32.505	1.0047.51	Q5
ATOM	3070	N	GLN	16	119.995	73.480	-44.041	1.0092.82	Q517	ATOM	3123	N	GLU	24	126.615	90.286	-33.580	1.0053.19	Q5
ATOM	3071	N	LYS	17	119.077	72.012	-42.621	1.0048.17	Q517	ATOM	3124	CA	GLU	24	127.575	91.258	-33.061	1.0053.19	Q5
ATOM	3072	CA	LYS	17	118.099	72.999	-42.159	1.0048.17	Q517	ATOM	3125	CB	GLU	24	127.835	92.354	-34.097	1.00112.17	Q5
ATOM	3073	CG	LYS	17	116.852	72.286	-41.658	1.0058.82	Q517	ATOM	3126	CG	GLU	24	129.165	93.065	-33.923	1.00112.17	Q5
ATOM	3074	CB	LYS	17	116.324	71.279	-42.652	1.0058.82	Q517	ATOM	3127	CD	GLU	24	129.572	93.840	-35.165	1.00112.17	Q5
ATOM	3075	CD	LYS	17	115.401	70.292	-41.982	1.0058.82	Q517	ATOM	3128	OE1	GLU	24	129.686	93.214	-36.242	1.00112.17	Q5
ATOM	3076	CE	LYS	17	115.112	69.126	-42.892	1.0058.82	Q517	ATOM	3129	OE2	GLU	24	129.779	95.070	-35.066	1.00112.17	Q5
ATOM	3077	NZ	LYS	17	114.245	68.133	-42.215	1.0058.82	Q517	ATOM	3130	C	GLU	24	127.041	91.847	-31.755	1.0053.19	Q5
ATOM	3078	C	LYS	17	118.694	73.864	-41.057	1.0048.17	Q517	ATOM	3131	O	GLU	24	125.838	91.799	-31.485	1.0053.19	Q5
ATOM	3079	O	LYS	17	118.058	74.143	-40.034	1.0048.17	Q517	ATOM	3132	N	ARG	25	127.947	92.409	-30.959	1.0044.39	Q5
ATOM	3080	N	THR	18	119.929	74.292	-41.283	1.0057.53	Q517	ATOM	3133	CA	ARG	25	127.610	92.957	-29.648	1.0044.39	Q5
ATOM	3081	CA	THR	18	120.642	75.106	-40.320	1.0057.53	Q517	ATOM	3134	CB	ARG	25	127.599	91.807	-28.640	1.0049.33	Q5
ATOM	3082	CB	THR	18	121.704	74.271	-39.604	1.0049.30	Q517	ATOM	3135	CG	ARG	25	127.776	92.196	-27.202	1.0049.33	Q5
ATOM	3083	OG1	THR	18	121.207	72.945	-39.386	1.0049.30	Q517	ATOM	3136	CD	ARG	25	127.791	90.958	-26.317	1.0049.33	Q5
ATOM	3084	CG2	THR	18	122.078	74.921	-38.282	1.0049.30	Q517	ATOM	3137	NE	ARG	25	129.041	90.206	-26.394	1.0049.33	Q5
ATOM	3085	C	THR	18	121.369	76.250	-41.018	1.0057.53	Q517	ATOM	3138	CZ	ARG	25	129.908	90.131	-25.389	1.0049.33	Q5
ATOM	3086	C	THR	18	121.808	76.109	-42.160	1.0057.53	Q517	ATOM	3139	NH1	ARG	25	129.649	89.764	-24.255	1.0049.33	Q5
ATOM	3087	N	VAL	19	121.497	77.378	-40.329	1.0051.37	Q517	ATOM	3140	NH2	ARG	25	131.021	89.424	-25.501	1.0049.33	Q5
ATOM	3088	CA	VAL	19	122.226	78.519	-40.870	1.0051.37	Q517	ATOM	3141	C	ARG	25	128.654	93.974	-29.237	1.0044.39	Q5
ATOM	3089	CB	VAL	19	121.310	79.637	-41.361	1.0036.29	Q517	ATOM	3142	O	ARG	25	129.840	93.688	-29.321	1.0044.39	Q5
ATOM	3090	CG1	VAL	19	120.573	79.231	-42.634	1.0036.29	Q517	ATOM	3143	N	GLN	26	128.234	95.155	-28.800	1.0046.22	Q5
ATOM	3091	CG2	VAL	19	120.374	79.981	-40.258	1.0036.29	Q517	ATOM	3144	CA	GLN	26	129.201	96.167	-28.381	1.0046.22	Q5
ATOM	3092	C	VAL	19	123.049	79.110	-39.740	1.0051.37	Q517	ATOM	3145	CB	GLN	26	128.902	97.517	-29.029	1.00100.55	Q5

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ATOM	3146	CG	GLN	26	128.858	97.494	-30.539	1.00100.55	OS17	ATOM	3199	CD1	TYR	32	142.092	98.376	-21.087	1.0045.24	OS
ATOM	3147	CD	GLN	26	128.904	98.886	-31.130	1.00100.55	OS17	ATOM	3200	CE1	TYR	32	143.182	97.778	-20.446	1.0045.24	OS
ATOM	3148	OE1	GLN	26	128.261	99.808	-30.622	1.00100.55	OS17	ATOM	3201	CD2	TYR	32	142.358	100.331	-19.713	1.0045.24	OS
ATOM	3149	NE2	GLN	26	129.659	99.046	-32.214	1.00100.55	OS17	ATOM	3202	CE2	TYR	32	143.435	99.746	-19.078	1.0045.24	OS
ATOM	3150	C	GLN	26	129.134	96.315	-26.875	1.0046.22	OS17	ATOM	3203	C2	TYR	32	143.840	98.479	-19.440	1.0045.24	OS
ATOM	3151	O	GLN	26	128.243	95.759	-26.247	1.0046.22	OS17	ATOM	3204	OH	TYR	32	144.905	97.945	-18.753	1.0045.24	OS
ATOM	3152	N	PHE	27	130.076	97.058	-26.298	1.0058.74	OS17	ATOM	3205	C	TYR	32	138.382	101.628	-20.636	1.0033.09	OS
ATOM	3153	CA	PHE	27	130.105	97.282	-24.855	1.0058.74	OS17	ATOM	3206	O	TYR	32	138.542	102.681	-21.248	1.0033.09	OS
ATOM	3154	CB	PHE	27	129.788	95.990	-24.086	1.0039.09	OS17	ATOM	3207	N	GLY	33	137.192	101.137	-20.331	1.0038.41	OS
ATOM	3155	CG	PHE	27	130.965	94.963	-24.145	1.0039.09	OS17	ATOM	3208	CA	GLY	33	135.981	101.834	-20.700	1.0038.41	OS
ATOM	3156	CD1	PHE	27	131.983	95.066	-23.339	1.0039.09	OS17	ATOM	3209	C	GLY	33	135.688	102.058	-22.167	1.0038.41	OS
ATOM	3157	CD2	PHE	27	130.768	93.889	-25.019	1.0039.09	OS17	ATOM	3210	O	GLY	33	136.674	102.107	-23.036	1.0024.78	OS
ATOM	3158	CE1	PHE	27	133.003	94.105	-23.403	1.0039.09	OS17	ATOM	3211	N	LYS	34	136.489	102.198	-22.514	1.0038.41	OS
ATOM	3159	CE2	PHE	27	131.781	92.927	-25.088	1.0039.09	OS17	ATOM	3212	CA	LYS	34	136.674	102.107	-23.036	1.0024.78	OS
ATOM	3160	C2	PHE	27	132.899	93.039	-24.278	1.0039.09	OS17	ATOM	3213	CB	LYS	34	136.378	102.350	-24.436	1.0024.78	OS
ATOM	3161	C	PHE	27	131.425	97.843	-24.354	1.0058.74	OS17	ATOM	3214	CG	LYS	34	137.664	102.370	-25.267	1.0025.74	OS
ATOM	3162	O	PHE	27	132.481	97.648	-24.962	1.0058.74	OS17	ATOM	3215	CD	LYS	34	138.186	101.045	-25.704	1.0025.74	OS
ATOM	3163	N	PRO	28	131.377	98.531	-23.209	1.0041.81	OS17	ATOM	3216	CE	LYS	34	138.727	101.772	-28.051	1.0025.74	OS
ATOM	3164	CA	PRO	28	130.193	98.661	-22.351	1.0030.53	OS17	ATOM	3217	N2	LYS	34	137.937	100.809	-27.186	1.0025.74	OS
ATOM	3165	CB	PRO	28	132.519	99.156	-22.556	1.0041.81	OS17	ATOM	3218	C	LYS	34	138.688	101.338	-29.478	1.0025.74	OS
ATOM	3166	CG	PRO	28	131.883	99.887	-21.397	1.0030.53	OS17	ATOM	3219	O	LYS	34	135.402	101.279	-24.918	1.0024.78	OS
ATOM	3167	CG	PRO	28	130.812	98.950	-21.012	1.0030.53	OS17	ATOM	3220	N	VAL	35	135.402	101.279	-24.918	1.0024.78	OS
ATOM	3168	C	PRO	28	133.475	98.138	-22.044	1.0041.81	OS17	ATOM	3221	CA	VAL	35	134.447	101.676	-25.749	1.0035.44	OS
ATOM	3169	O	PRO	28	133.072	97.096	-21.539	1.0041.81	OS17	ATOM	3222	CB	VAL	35	133.469	100.738	-26.262	1.0035.44	OS
ATOM	3170	N	HIS	29	134.749	98.457	-22.167	1.0045.49	OS17	ATOM	3223	CG1	VAL	35	132.330	101.480	-26.983	1.0021.32	OS
ATOM	3171	CA	HIS	29	135.781	97.590	-21.662	1.0045.49	OS17	ATOM	3224	CG2	VAL	35	131.503	100.516	-27.814	1.0021.32	OS
ATOM	3172	CB	HIS	29	137.126	98.031	-22.224	1.0041.79	OS17	ATOM	3225	C	VAL	35	131.458	102.150	-25.985	1.0021.32	OS
ATOM	3173	CG	HIS	29	138.238	97.097	-21.896	1.0041.79	OS17	ATOM	3226	O	VAL	35	134.179	99.813	-27.237	1.0035.44	OS
ATOM	3174	CD2	HIS	29	138.944	96.246	-22.677	1.0041.79	OS17	ATOM	3227	N	ILE	36	135.028	100.252	-28.000	1.0035.44	OS
ATOM	3175	ND1	HIS	29	138.692	96.910	-20.607	1.0041.79	OS17	ATOM	3228	CA	ILE	36	133.833	98.530	-27.202	1.0037.53	OS
ATOM	3176	CE1	HIS	29	139.626	95.978	-20.611	1.0041.79	OS17	ATOM	3229	CB	ILE	36	134.459	97.547	-28.078	1.0037.53	OS
ATOM	3177	NE2	HIS	29	139.798	95.559	-21.854	1.0041.79	OS17	ATOM	3230	CG2	ILE	36	135.501	96.714	-27.316	1.0051.78	OS
ATOM	3178	C	HIS	29	135.720	97.801	-20.142	1.0045.49	OS17	ATOM	3231	CG1	ILE	36	136.345	97.613	-26.441	1.0051.78	OS
ATOM	3179	O	HIS	29	135.686	98.928	-19.653	1.0045.49	OS17	ATOM	3232	C	ILE	36	134.804	95.700	-26.413	1.0051.78	OS
ATOM	3180	N	PRO	30	135.671	96.719	-19.377	1.0049.51	OS17	ATOM	3233	C	ILE	36	135.750	94.674	-25.807	1.0051.78	OS
ATOM	3181	CD	PRO	30	135.617	95.321	-19.813	1.0038.01	OS17	ATOM	3234	O	ILE	36	133.427	96.587	-28.646	1.0037.53	OS
ATOM	3182	CA	PRO	30	135.605	96.819	-17.916	1.0049.51	OS17	ATOM	3235	N	LYS	37	132.483	96.120	-27.960	1.0037.53	OS
ATOM	3183	CB	PRO	30	135.546	95.364	-17.466	1.0038.01	OS17	ATOM	3236	CA	LYS	37	133.595	96.196	-29.902	1.0052.53	OS
ATOM	3184	CG	PRO	30	136.188	94.626	-18.604	1.0038.01	OS17	ATOM	3237	CB	LYS	37	132.680	95.248	-30.508	1.0052.53	OS
ATOM	3185	C	PRO	30	136.712	97.591	-17.208	1.0049.51	OS17	ATOM	3238	CG	LYS	37	132.706	95.345	-32.030	1.0078.66	OS
ATOM	3186	O	PRO	30	136.561	97.943	-16.037	1.0049.51	OS17	ATOM	3239	CD	LYS	37	132.150	96.629	-32.588	1.0078.66	OS
ATOM	3187	N	LEU	31	137.832	97.847	-17.871	1.0038.86	OS17	ATOM	3240	CE	LYS	37	132.166	96.589	-34.104	1.0078.66	OS
ATOM	3188	CA	LEU	31	138.868	98.606	-17.191	1.0038.86	OS17	ATOM	3241	N2	LYS	37	131.653	97.887	-34.705	1.0078.66	OS
ATOM	3189	CB	LEU	31	140.116	97.759	-16.961	1.0020.46	OS17	ATOM	3242	C	LYS	37	131.774	97.887	-36.193	1.0078.66	OS
ATOM	3190	CG	LEU	31	141.294	98.522	-16.325	1.0020.46	OS17	ATOM	3243	O	LYS	37	133.179	93.871	-30.091	1.0052.53	OS
ATOM	3191	CD1	LEU	31	140.936	98.995	-14.941	1.0020.46	OS17	ATOM	3244	N	ARG	38	134.262	93.739	-29.513	1.0052.53	OS
ATOM	3192	CD2	LEU	31	142.497	97.635	-16.249	1.0020.46	OS17	ATOM	3245	CA	ARG	38	132.384	92.851	-30.366	1.0051.19	OS
ATOM	3193	C	LEU	31	139.241	99.837	-17.980	1.0038.86	OS17	ATOM	3246	CB	ARG	38	132.709	91.466	-30.068	1.0051.19	OS
ATOM	3194	O	LEU	31	139.554	100.876	-17.408	1.0038.86	OS17	ATOM	3247	CG	ARG	38	132.682	91.239	-28.559	1.0079.46	OS
ATOM	3195	N	TYR	32	139.203	99.715	-19.299	1.0033.09	OS17	ATOM	3248	CD	ARG	38	133.440	90.010	-28.125	1.0079.46	OS
ATOM	3196	CA	TYR	32	139.567	100.819	-20.156	1.0033.09	OS17	ATOM	3249	NE	ARG	38	134.813	90.357	-27.553	1.0079.46	OS
ATOM	3197	CB	TYR	32	140.415	100.279	-21.300	1.0045.24	OS17	ATOM	3250	C2	ARG	38	135.579	91.271	-28.399	1.0079.46	OS
ATOM	3198	CG	TYR	32	141.660	99.663	-20.721	1.0045.24	OS17	ATOM	3251	NH1	ARG	38	136.810	91.692	-28.112	1.0079.46	OS

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ATOM	3252	NH2	ARG	38	137.438	92.548	-28.917	1.00	79.46	OS17	ATOM	3305	CA	HIS	45	117.539	76.020	-37.065	1.00	45.51	OS
ATOM	3253	C	ARG	38	131.574	90.711	-30.747	1.00	51.19	OS17	ATOM	3306	CB	HIS	45	116.708	75.262	-36.020	1.00	61.25	OS
ATOM	3254	O	ARG	38	130.465	91.242	-30.868	1.00	51.19	OS17	ATOM	3307	CG	HIS	45	115.787	74.227	-36.587	1.00	61.25	OS
ATOM	3255	N	SER	39	131.827	89.494	-31.209	1.00	41.53	OS17	ATOM	3308	CD2	HIS	45	114.508	73.910	-36.274	1.00	61.25	OS
ATOM	3256	CA	SER	39	130.779	88.757	-31.900	1.00	41.53	OS17	ATOM	3309	ND1	HIS	45	116.173	73.339	-37.568	1.00	61.25	OS
ATOM	3257	CB	SER	39	130.891	89.016	-33.392	1.00	36.34	OS17	ATOM	3310	CE1	HIS	45	114.149	72.521	-37.835	1.00	61.25	OS
ATOM	3258	OG	SER	39	132.148	88.582	-33.853	1.00	36.34	OS17	ATOM	3311	NE2	HIS	45	114.149	72.846	-37.063	1.00	61.25	OS
ATOM	3259	C	SER	39	130.789	87.253	-31.650	1.00	41.53	OS17	ATOM	3312	C	HIS	45	116.635	76.660	-38.129	1.00	45.51	OS
ATOM	3260	O	SER	39	131.695	86.710	-31.011	1.00	41.53	OS17	ATOM	3313	O	HIS	45	115.916	77.617	-37.857	1.00	45.51	OS
ATOM	3261	N	LYS	40	129.794	86.573	-32.196	1.00	45.67	OS17	ATOM	3314	N	ASP	46	116.679	76.143	-39.347	1.00	58.39	OS
ATOM	3262	CA	LYS	40	129.674	85.146	-31.992	1.00	45.67	OS17	ATOM	3315	CA	ASP	46	115.836	76.697	-40.391	1.00	58.39	OS
ATOM	3263	CB	LYS	40	129.078	84.938	-30.612	1.00	42.17	OS17	ATOM	3316	CB	ASP	46	116.632	77.609	-41.333	1.00	68.86	OS
ATOM	3264	CG	LYS	40	128.913	83.525	-30.140	1.00	42.17	OS17	ATOM	3317	CG	ASP	46	115.774	78.170	-42.477	1.00	68.86	OS
ATOM	3265	CD	LYS	40	128.508	83.584	-28.673	1.00	42.17	OS17	ATOM	3318	OD1	ASP	46	116.350	78.642	-43.487	1.00	68.86	OS
ATOM	3266	CE	LYS	40	128.233	82.234	-28.081	1.00	42.17	OS17	ATOM	3319	OD2	ASP	46	114.527	78.147	-42.361	1.00	68.86	OS
ATOM	3267	NZ	LYS	40	127.656	82.449	-26.741	1.00	42.17	OS17	ATOM	3320	C	ASP	46	115.148	75.631	-41.221	1.00	58.39	OS
ATOM	3268	O	LYS	40	128.769	84.565	-33.063	1.00	45.67	OS17	ATOM	3321	O	ASP	46	115.697	75.148	-42.212	1.00	58.39	OS
ATOM	3269	O	LYS	40	127.879	85.255	-33.563	1.00	45.67	OS17	ATOM	3322	N	PRO	47	113.944	75.225	-40.807	1.00	90.46	OS
ATOM	3270	N	LYS	41	129.005	83.312	-33.435	1.00	48.30	OS17	ATOM	3323	CD	PRO	47	113.287	75.494	-39.519	1.00	62.50	OS
ATOM	3271	CA	LYS	41	128.176	82.668	-34.445	1.00	48.30	OS17	ATOM	3324	CA	PRO	47	113.213	74.214	-41.571	1.00	90.46	OS
ATOM	3272	CB	LYS	41	129.019	81.934	-35.494	1.00	37.07	OS17	ATOM	3325	CB	PRO	47	112.095	73.802	-40.621	1.00	62.50	OS
ATOM	3273	CG	LYS	41	129.738	82.810	-36.502	1.00	37.07	OS17	ATOM	3326	CG	PRO	47	112.616	74.197	-39.258	1.00	62.50	OS
ATOM	3274	CD	LYS	41	130.625	81.976	-37.446	1.00	37.07	OS17	ATOM	3327	C	PRO	47	112.685	75.039	-42.737	1.00	90.46	OS
ATOM	3275	CE	LYS	41	131.755	81.295	-36.684	1.00	37.07	OS17	ATOM	3328	O	PRO	47	112.683	76.269	-42.656	1.00	90.46	OS
ATOM	3276	NZ	LYS	41	132.519	80.267	-37.473	1.00	37.07	OS17	ATOM	3329	N	GLU	48	112.233	74.404	-43.809	1.00	81.17	OS
ATOM	3277	O	LYS	41	127.301	81.647	-33.756	1.00	48.30	OS17	ATOM	3330	CA	GLU	48	111.729	75.179	-44.941	1.00	81.17	OS
ATOM	3278	C	LYS	41	127.096	80.812	-32.997	1.00	48.30	OS17	ATOM	3331	CB	GLU	48	110.507	76.014	-44.530	1.00	67.63	OS
ATOM	3279	N	TYR	42	126.006	81.718	-34.018	1.00	42.67	OS17	ATOM	3332	CG	GLU	48	109.250	75.219	-44.198	1.00	67.63	OS
ATOM	3280	CA	TYR	42	125.062	80.766	-33.463	1.00	42.67	OS17	ATOM	3333	CD	GLU	48	108.142	76.094	-43.621	1.00	67.63	OS
ATOM	3281	CB	TYR	42	123.906	81.510	-32.797	1.00	41.07	OS17	ATOM	3334	OE1	GLU	48	107.761	77.092	-44.270	1.00	67.63	OS
ATOM	3282	CG	TYR	42	124.879	82.292	-31.565	1.00	41.07	OS17	ATOM	3335	OE2	GLU	48	107.650	75.782	-42.516	1.00	67.63	OS
ATOM	3283	CD1	TYR	42	124.879	83.563	-31.659	1.00	41.07	OS17	ATOM	3336	O	GLU	48	112.838	76.124	-45.370	1.00	81.17	OS
ATOM	3284	CE1	TYR	42	125.243	84.279	-30.510	1.00	41.07	OS17	ATOM	3337	C	GLU	48	112.572	77.159	-45.976	1.00	81.17	OS
ATOM	3285	CD2	TYR	42	124.100	81.754	-30.302	1.00	41.07	OS17	ATOM	3338	N	GLU	49	114.074	75.749	-45.046	1.00	53.47	OS
ATOM	3286	CE2	TYR	42	124.464	82.451	-29.150	1.00	41.07	OS17	ATOM	3339	CA	GLU	49	115.258	76.550	-45.345	1.00	53.47	OS
ATOM	3287	CZ	TYR	42	125.033	83.711	-29.251	1.00	41.07	OS17	ATOM	3340	CB	GLU	49	116.267	75.730	-46.155	1.00	78.81	OS
ATOM	3288	OH	TYR	42	125.380	84.378	-28.083	1.00	41.07	OS17	ATOM	3341	CG	GLU	49	116.837	74.558	-45.364	1.00	78.81	OS
ATOM	3289	C	TYR	42	124.545	79.922	-34.639	1.00	42.67	OS17	ATOM	3342	CD	GLU	49	118.038	73.890	-46.020	1.00	78.81	OS
ATOM	3290	O	TYR	43	124.393	80.440	-35.742	1.00	42.67	OS17	ATOM	3343	OE1	GLU	49	119.096	74.553	-46.179	1.00	78.81	OS
ATOM	3291	N	LEU	43	124.306	78.629	-34.432	1.00	53.84	OS17	ATOM	3344	OE2	GLU	49	117.924	72.694	-46.366	1.00	78.81	OS
ATOM	3292	CA	LEU	43	123.773	77.798	-35.514	1.00	53.84	OS17	ATOM	3345	C	GLU	49	114.942	77.857	-46.058	1.00	53.47	OS
ATOM	3293	CB	LEU	43	124.329	76.371	-35.469	1.00	35.47	OS17	ATOM	3346	O	GLU	49	115.119	77.976	-47.267	1.00	53.47	OS
ATOM	3294	CG	LEU	43	125.838	76.206	-35.681	1.00	35.47	OS17	ATOM	3347	N	LYS	50	114.444	78.834	-45.311	1.00	74.12	OS
ATOM	3295	CD1	LEU	43	126.179	74.744	-35.875	1.00	35.47	OS17	ATOM	3348	CA	LYS	50	114.135	80.119	-45.912	1.00	74.12	OS
ATOM	3296	CD2	LEU	43	126.265	77.013	-36.903	1.00	35.47	OS17	ATOM	3349	CB	LYS	50	113.279	80.984	-44.985	1.00	62.09	OS
ATOM	3297	C	LEU	43	122.274	77.736	-35.331	1.00	53.84	OS17	ATOM	3350	CG	LYS	50	111.969	80.396	-44.547	1.00	62.09	OS
ATOM	3298	O	LEU	43	121.781	76.944	-34.540	1.00	53.84	OS17	ATOM	3351	CE	LYS	50	111.221	81.432	-43.726	1.00	62.09	OS
ATOM	3299	N	ALA	44	121.549	78.579	-36.051	1.00	44.60	OS17	ATOM	3352	CD	LYS	50	109.934	80.870	-43.152	1.00	62.09	OS
ATOM	3300	CA	ALA	44	120.100	78.608	-35.951	1.00	44.60	OS17	ATOM	3353	CE	LYS	50	109.227	81.901	-42.346	1.00	62.09	OS
ATOM	3301	CB	ALA	44	119.590	80.011	-36.257	1.00	76.83	OS17	ATOM	3354	C	LYS	50	115.450	80.841	-46.104	1.00	74.12	OS
ATOM	3302	O	ALA	44	119.421	77.586	-36.869	1.00	44.60	OS17	ATOM	3355	N	LYS	50	116.104	80.755	-47.142	1.00	74.12	OS
ATOM	3303	C	ALA	44	119.856	77.330	-37.997	1.00	44.60	OS17	ATOM	3356	N	TYR	51	115.814	81.547	-45.044	1.00	63.49	OS
ATOM	3304	N	HIS	45	118.335	77.019	-36.361	1.00	45.51	OS17	ATOM	3357	CA	TYR	51	117.009	82.359	-44.939	1.00	63.49	OS

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ATOM	3358	CB	TYR	51	117.333	82.486	-43.465	1.00	49.27	OS17	ATOM	3411	N	GLU	58	116.687	87.166	-36.898	1.00	68.62	OS
ATOM	3359	CG	TYR	51	116.051	82.606	-42.682	1.00	49.27	OS17	ATOM	3412	CA	GLU	58	116.593	87.127	-35.449	1.00	68.62	OS
ATOM	3360	CD1	TYR	51	115.388	81.468	-42.233	1.00	49.27	OS17	ATOM	3413	CB	GLU	58	115.398	87.918	-34.946	1.00	79.04	OS
ATOM	3361	CE1	TYR	51	114.169	81.557	-41.587	1.00	49.27	OS17	ATOM	3414	CG	GLU	58	115.435	89.377	-35.275	1.00	79.04	OS
ATOM	3362	CD2	TYR	51	115.457	83.851	-42.459	1.00	49.27	OS17	ATOM	3415	CD	GLU	58	114.365	90.137	-34.516	1.00	79.04	OS
ATOM	3363	CE2	TYR	51	114.230	83.958	-41.811	1.00	49.27	OS17	ATOM	3416	OE1	GLU	58	113.267	89.568	-34.320	1.00	79.04	OS
ATOM	3364	C2	TYR	51	113.586	82.801	-41.377	1.00	49.27	OS17	ATOM	3417	OE2	GLU	58	114.610	91.301	-34.121	1.00	79.04	OS
ATOM	3365	OH	TYR	51	112.352	82.871	-40.743	1.00	49.27	OS17	ATOM	3418	C	GLU	58	116.469	85.675	-35.002	1.00	68.62	OS
ATOM	3366	C	TYR	51	118.230	81.951	-45.738	1.00	63.49	OS17	ATOM	3419	O	GLU	58	115.583	84.933	-35.423	1.00	68.62	OS
ATOM	3367	O	TYR	51	118.664	80.797	-45.713	1.00	63.49	OS17	ATOM	3420	N	ILE	59	117.398	85.288	-34.148	1.00	30.47	OS
ATOM	3368	N	LYS	52	118.760	82.947	-46.448	1.00	71.45	OS17	ATOM	3421	CA	ILE	59	117.478	83.612	-33.591	1.00	30.47	OS
ATOM	3369	CA	LYS	52	119.935	82.817	-47.304	1.00	71.45	OS17	ATOM	3422	CB	ILE	59	119.939	83.961	-33.362	1.00	57.99	OS
ATOM	3370	CB	LYS	52	119.555	83.131	-48.754	1.00	127.95	OS17	ATOM	3423	CG2	ILE	59	119.102	82.146	-33.307	1.00	57.99	OS
ATOM	3371	CG	LYS	52	118.348	82.368	-49.284	1.00	127.95	OS17	ATOM	3424	CG1	ILE	59	119.769	84.110	-34.537	1.00	57.99	OS
ATOM	3372	CE	LYS	52	118.021	82.808	-50.713	1.00	127.95	OS17	ATOM	3425	CD1	ILE	59	119.220	83.671	-35.887	1.00	30.47	OS
ATOM	3373	CD	LYS	52	116.845	82.029	-51.317	1.00	127.95	OS17	ATOM	3426	C	ILE	59	116.761	84.098	-32.253	1.00	30.47	OS
ATOM	3374	N2	LYS	52	116.523	82.470	-52.720	1.00	127.95	OS17	ATOM	3427	O	ILE	59	116.785	85.172	-31.648	1.00	59.20	OS
ATOM	3375	C	LYS	52	121.013	83.806	-46.843	1.00	71.45	OS17	ATOM	3428	N	ILE	60	116.136	83.029	-31.771	1.00	59.20	OS
ATOM	3376	O	LYS	52	120.722	84.751	-46.105	1.00	64.48	OS17	ATOM	3429	CA	ILE	60	115.425	83.161	-30.519	1.00	51.84	OS
ATOM	3377	N	LEU	53	122.249	83.588	-47.285	1.00	64.48	OS17	ATOM	3430	CB	ILE	60	113.928	82.943	-30.740	1.00	51.84	OS
ATOM	3378	CA	LEU	53	123.366	84.459	-46.924	1.00	64.48	OS17	ATOM	3431	CG2	ILE	60	113.699	81.590	-31.356	1.00	51.84	OS
ATOM	3379	CB	LEU	53	124.544	84.201	-47.858	1.00	62.04	OS17	ATOM	3432	CG1	ILE	60	113.186	83.122	-29.421	1.00	51.84	OS
ATOM	3380	CD	LEU	53	125.707	83.383	-47.289	1.00	62.04	OS17	ATOM	3433	CD1	ILE	60	111.714	83.200	-29.585	1.00	51.84	OS
ATOM	3381	CD1	LEU	53	125.197	82.287	-46.379	1.00	62.04	OS17	ATOM	3434	C	ILE	60	115.901	82.345	-29.317	1.00	59.20	OS
ATOM	3382	CD2	LEU	53	126.507	82.802	-48.433	1.00	62.04	OS17	ATOM	3435	O	ILE	60	116.404	82.939	-28.354	1.00	59.20	OS
ATOM	3383	C	LEU	53	122.963	85.918	-46.997	1.00	64.48	OS17	ATOM	3436	N	GLU	61	115.738	81.022	-29.345	1.00	51.66	OS
ATOM	3384	O	LEU	53	122.163	86.295	-47.841	1.00	64.48	OS17	ATOM	3437	CA	GLU	61	116.952	80.159	-28.227	1.00	51.66	OS
ATOM	3385	N	GLY	54	123.508	86.740	-46.109	1.00	51.15	OS17	ATOM	3438	CB	GLU	61	117.239	80.838	-26.855	1.00	39.82	OS
ATOM	3386	CA	GLY	54	123.165	88.153	-46.109	1.00	51.15	OS17	ATOM	3439	CG	GLU	61	117.120	80.926	-24.524	1.00	39.82	OS
ATOM	3387	C	GLY	54	121.845	88.494	-45.422	1.00	51.15	OS17	ATOM	3440	CD	GLU	61	117.482	79.829	-24.051	1.00	39.82	OS
ATOM	3388	O	GLY	54	121.457	89.657	-45.359	1.00	57.49	OS17	ATOM	3441	OE1	GLU	61	116.679	81.829	-26.410	1.00	39.82	OS
ATOM	3389	N	ASP	55	121.146	87.497	-44.898	1.00	57.49	OS17	ATOM	3442	OE2	GLU	61	115.485	78.790	-28.127	1.00	51.66	OS
ATOM	3390	CA	ASP	55	119.874	87.757	-44.233	1.00	57.49	OS17	ATOM	3443	C	GLU	61	115.016	78.175	-29.105	1.00	51.66	OS
ATOM	3391	CB	ASP	55	118.993	86.504	-44.230	1.00	93.09	OS17	ATOM	3444	O	GLU	61	115.480	78.345	-26.877	1.00	63.02	OS
ATOM	3392	CG	ASP	55	118.082	86.424	-45.430	1.00	93.09	OS17	ATOM	3445	N	SER	62	114.901	77.097	-26.410	1.00	63.02	OS
ATOM	3393	OD1	ASP	55	117.669	87.494	-45.922	1.00	93.09	OS17	ATOM	3446	CA	SER	62	113.396	77.294	-26.154	1.00	47.28	OS
ATOM	3394	OD2	ASP	55	117.764	85.295	-45.863	1.00	93.09	OS17	ATOM	3447	CB	SER	62	112.830	76.217	-25.415	1.00	47.28	OS
ATOM	3395	C	ASP	55	120.015	88.228	-42.797	1.00	57.49	OS17	ATOM	3448	OG	SER	62	115.121	75.863	-27.254	1.00	63.02	OS
ATOM	3396	O	ASP	55	120.397	87.463	-41.922	1.00	57.49	OS17	ATOM	3449	C	SER	62	114.678	74.741	-26.697	1.00	53.53	OS
ATOM	3397	N	VAL	56	119.715	89.488	-42.534	1.00	66.68	OS17	ATOM	3450	O	SER	62	114.733	73.416	-27.293	1.00	53.53	OS
ATOM	3398	CA	VAL	56	119.786	89.940	-41.159	1.00	66.68	OS17	ATOM	3451	N	ARG	63	113.592	73.214	-28.279	1.00	68.60	OS
ATOM	3399	CB	VAL	56	119.657	91.440	-41.048	1.00	45.81	OS17	ATOM	3452	CA	ARG	63	112.369	72.593	-27.674	1.00	68.60	OS
ATOM	3400	CG1	VAL	56	119.718	91.845	-39.584	1.00	45.81	OS17	ATOM	3453	CB	ARG	63	112.507	71.114	-27.414	1.00	68.60	OS
ATOM	3401	CG2	VAL	56	120.765	92.092	-41.827	1.00	45.81	OS17	ATOM	3454	CD	ARG	63	111.301	70.475	-27.922	1.00	68.60	OS
ATOM	3402	C	VAL	56	118.581	89.306	-40.500	1.00	66.68	OS17	ATOM	3455	CG	ARG	63	111.093	70.225	-29.208	1.00	68.60	OS
ATOM	3403	O	VAL	56	117.451	89.719	-40.737	1.00	66.68	OS17	ATOM	3456	NE	ARG	63	112.020	70.545	-30.091	1.00	68.60	OS
ATOM	3404	N	VAL	57	118.817	88.305	-39.669	1.00	63.42	OS17	ATOM	3457	CZ	ARG	63	109.950	69.698	-29.617	1.00	53.53	OS
ATOM	3405	CA	VAL	57	117.716	87.613	-39.326	1.00	43.85	OS17	ATOM	3458	NH1	ARG	63	116.142	72.179	-29.184	1.00	53.53	OS
ATOM	3406	CB	VAL	57	117.749	86.144	-39.095	1.00	43.85	OS17	ATOM	3459	NH2	ARG	63	116.914	72.398	-27.232	1.00	50.58	OS
ATOM	3407	CG1	VAL	57	117.844	86.001	-40.901	1.00	43.85	OS17	ATOM	3460	C	ARG	64	117.078	72.193	-25.781	1.00	40.59	OS
ATOM	3408	CG2	VAL	57	118.944	85.480	-38.727	1.00	43.85	OS17	ATOM	3461	O	ARG	64						
ATOM	3409	C	VAL	57	117.739	87.696	-37.511	1.00	63.42	OS17	ATOM	3462	N	PRO	64						
ATOM	3410	O	VAL	57	118.677	88.221	-36.911	1.00	63.42	OS17	ATOM	3463	CD	PRO	64						

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ATOM	3464	CA	PRO.	64	118.101	71.985	-27.968	1.00	50.58	OS17	ATOM	3517	NE	ARG	70	122.370	72.914	-26.588	1.00	42.71	OS
ATOM	3465	CB	PRO	64	118.821	71.114	-26.957	1.00	40.59	OS17	ATOM	3518	CZ	ARG	70	122.310	71.853	-27.392	1.00	42.71	OS
ATOM	3466	CG	PRO	64	118.563	71.891	-25.673	1.00	40.59	OS17	ATOM	3519	NH1	ARG	70	122.049	71.999	-28.686	1.00	42.71	OS
ATOM	3467	C	PRO	64	117.597	71.218	-29.195	1.00	50.58	OS17	ATOM	3520	NH2	ARG	70	122.501	70.640	-26.895	1.00	42.71	OS
ATOM	3468	O	PRO	64	116.665	70.415	-29.111	1.00	50.58	OS17	ATOM	3521	C	ARG	70	119.129	77.186	-29.712	1.00	49.36	OS
ATOM	3469	N	ILE	65	118.180	71.513	-30.343	1.00	42.35	OS17	ATOM	3522	N	ARG	70	118.777	77.854	-28.745	1.00	49.36	OS
ATOM	3470	CA	ILE	65	117.787	70.869	-31.581	1.00	42.35	OS17	ATOM	3523	O	PHE	71	118.962	77.567	-30.972	1.00	48.08	OS
ATOM	3471	CB	ILE	65	117.542	71.915	-32.665	1.00	40.93	OS17	ATOM	3524	CA	PHE	71	118.361	78.839	-31.343	1.00	48.08	OS
ATOM	3472	CG2	ILE	65	117.364	71.250	-34.022	1.00	40.93	OS17	ATOM	3525	CB	PHE	71	119.463	79.874	-31.560	1.00	34.06	OS
ATOM	3473	CG1	ILE	65	116.352	72.776	-32.260	1.00	40.93	OS17	ATOM	3526	CG	PHE	71	119.822	80.673	-30.339	1.00	34.06	OS
ATOM	3474	CD1	ILE	65	116.011	73.840	-33.249	1.00	40.93	OS17	ATOM	3527	CD1	PHE	71	119.049	80.376	-29.947	1.00	34.06	OS
ATOM	3475	C	ILE	65	118.876	69.937	-32.065	1.00	42.35	OS17	ATOM	3528	CD2	PHE	71	120.972	80.376	-29.609	1.00	34.06	OS
ATOM	3476	O	ILE	65	118.585	68.861	-32.594	1.00	42.35	OS17	ATOM	3529	CE1	PHE	71	119.418	82.539	-28.845	1.00	34.06	OS
ATOM	3477	N	SER	66	120.131	70.345	-31.867	1.00	62.27	OS17	ATOM	3530	CE2	PHE	71	121.344	81.155	-28.505	1.00	34.06	OS
ATOM	3478	CA	SER	66	121.237	69.538	-32.348	1.00	62.27	OS17	ATOM	3531	CZ	PHE	71	120.563	82.238	-28.130	1.00	34.06	OS
ATOM	3479	CB	SER	66	121.444	69.793	-33.848	1.00	51.83	OS17	ATOM	3532	C	PHE	71	117.610	78.613	-32.654	1.00	48.08	OS
ATOM	3480	OG	SER	66	122.273	70.921	-34.077	1.00	51.83	OS17	ATOM	3533	O	PHE	71	118.082	77.887	-33.534	1.00	48.08	OS
ATOM	3481	C	SER	66	123.589	69.797	-32.348	1.00	62.27	OS17	ATOM	3534	N	ARG	72	116.442	79.228	-32.789	1.00	50.64	OS
ATOM	3482	O	SER	66	122.581	69.683	-31.668	1.00	62.27	OS17	ATOM	3535	CA	ARG	72	115.656	79.070	-34.005	1.00	50.64	OS
ATOM	3483	N	LYS	67	122.629	69.666	-30.349	1.00	45.98	OS17	ATOM	3536	CB	ARG	72	114.249	78.554	-33.687	1.00	35.70	OS
ATOM	3484	CA	LYS	67	123.923	69.776	-29.676	1.00	45.98	OS17	ATOM	3537	CG	ARG	72	114.165	77.141	-33.151	1.00	35.70	OS
ATOM	3485	CB	LYS	67	124.951	68.808	-30.254	1.00	26.51	OS17	ATOM	3538	CD	ARG	72	112.718	76.730	-32.979	1.00	35.70	OS
ATOM	3486	CG	LYS	67	126.377	69.230	-29.923	1.00	26.51	OS17	ATOM	3539	NE	ARG	72	112.088	77.448	-31.880	1.00	35.70	OS
ATOM	3487	CD	LYS	67	127.440	68.230	-30.282	1.00	26.51	OS17	ATOM	3540	CZ	ARG	72	110.793	77.372	-31.594	1.00	35.70	OS
ATOM	3488	CE	LYS	67	128.790	68.695	-29.773	1.00	26.51	OS17	ATOM	3541	NH1	ARG	72	110.000	76.610	-32.334	1.00	35.70	OS
ATOM	3489	NZ	LYS	67	129.916	67.817	-30.182	1.00	26.51	OS17	ATOM	3542	NH2	ARG	72	110.292	78.055	-30.574	1.00	35.70	OS
ATOM	3490	C	LYS	67	124.530	71.141	-29.788	1.00	45.98	OS17	ATOM	3543	C	ARG	72	115.938	80.412	-34.665	1.00	50.64	OS
ATOM	3491	O	LYS	67	124.898	71.739	-28.788	1.00	45.98	OS17	ATOM	3544	N	TYR	73	114.891	80.419	-35.835	1.00	74.11	OS
ATOM	3492	N	ARG	68	124.678	71.604	-31.022	1.00	51.03	OS17	ATOM	3545	CA	TYR	73	114.656	81.668	-36.511	1.00	74.11	OS
ATOM	3493	CA	ARG	68	125.250	72.906	-31.302	1.00	51.03	OS17	ATOM	3546	CB	TYR	73	114.380	81.459	-37.967	1.00	33.27	OS
ATOM	3494	CB	ARG	68	126.173	72.788	-32.515	1.00	59.47	OS17	ATOM	3547	CG	TYR	73	115.624	81.655	-38.725	1.00	33.27	OS
ATOM	3495	CG	ARG	68	127.049	73.981	-32.761	1.00	59.47	OS17	ATOM	3548	CD1	TYR	73	116.467	80.590	-38.988	1.00	33.27	OS
ATOM	3496	CD	ARG	68	128.427	73.821	-32.147	1.00	59.47	OS17	ATOM	3549	CE1	TYR	73	117.656	80.780	-39.642	1.00	33.27	OS
ATOM	3497	NE	ARG	68	129.017	75.139	-32.948	1.00	59.47	OS17	ATOM	3550	CE2	TYR	73	116.001	82.922	-39.132	1.00	33.27	OS
ATOM	3498	CZ	ARG	68	129.234	76.016	-32.925	1.00	59.47	OS17	ATOM	3551	OH	TYR	73	117.186	83.127	-39.783	1.00	33.27	OS
ATOM	3499	NH1	ARG	68	128.923	75.713	-34.182	1.00	59.47	OS17	ATOM	3552	CE2	TYR	73	118.017	82.059	-40.043	1.00	33.27	OS
ATOM	3500	NH2	ARG	68	129.724	77.218	-32.644	1.00	59.47	OS17	ATOM	3553	CZ	TYR	73	119.200	82.278	-40.718	1.00	33.27	OS
ATOM	3501	C	ARG	68	124.117	73.903	-31.575	1.00	51.03	OS17	ATOM	3554	OH	TYR	73	113.481	82.334	-35.885	1.00	74.11	OS
ATOM	3502	O	ARG	68	124.277	75.105	-31.389	1.00	51.03	OS17	ATOM	3555	O	TYR	73	112.876	81.797	-34.968	1.00	74.11	OS
ATOM	3503	N	LYS	69	122.971	73.394	-32.023	1.00	49.14	OS17	ATOM	3556	N	LEU	74	113.133	83.500	-36.395	1.00	65.26	OS
ATOM	3504	CA	LYS	69	121.811	74.232	-32.313	1.00	49.14	OS17	ATOM	3557	CA	LEU	74	112.033	84.247	-35.825	1.00	65.26	OS
ATOM	3505	CB	LYS	69	120.972	73.627	-33.438	1.00	46.31	OS17	ATOM	3558	CB	LEU	74	112.361	84.579	-34.365	1.00	30.55	OS
ATOM	3506	CG	LYS	69	121.693	73.532	-34.763	1.00	46.31	OS17	ATOM	3559	CG	LEU	74	111.377	85.262	-33.420	1.00	30.55	OS
ATOM	3507	CD	LYS	69	120.906	72.730	-35.787	1.00	46.31	OS17	ATOM	3560	CD1	LEU	74	110.085	85.530	-34.147	1.00	30.55	OS
ATOM	3508	CE	LYS	69	119.536	73.328	-36.059	1.00	46.31	OS17	ATOM	3561	CD2	LEU	74	111.969	85.508	-36.646	1.00	65.26	OS
ATOM	3509	NZ	LYS	69	118.935	72.681	-37.270	1.00	46.31	OS17	ATOM	3562	C	LEU	74	112.365	86.582	-37.190	1.00	62.15	OS
ATOM	3510	C	LYS	69	120.936	74.348	-31.082	1.00	49.14	OS17	ATOM	3563	N	ARG	75	111.500	85.360	-37.875	1.00	62.15	OS
ATOM	3511	O	LYS	69	120.538	73.342	-30.505	1.00	49.36	OS17	ATOM	3564	CA	ARG	75	111.369	86.478	-38.804	1.00	62.15	OS
ATOM	3512	N	ARG	70	120.631	75.578	-30.691	1.00	49.36	OS17	ATOM	3565	CB	ARG	75	110.351	87.512	-38.298	1.00	77.79	OS
ATOM	3513	CA	ARG	70	119.787	75.842	-29.534	1.00	42.71	OS17	ATOM	3566	CG	ARG	75	110.814	88.389	-37.167	1.00	77.79	OS
ATOM	3514	CB	ARG	70	120.619	74.455	-28.259	1.00	42.71	OS17	ATOM	3567	CD	ARG	75	111.136	89.766	-37.657	1.00	77.79	OS
ATOM	3515	CG	ARG	70	120.839	74.455	-27.733	1.00	42.71	OS17	ATOM	3568	CD	ARG	75	111.136	89.766	-37.657	1.00	77.79	OS
ATOM	3516	CD	ARG	70	122.161	74.298	-27.022	1.00	42.71	OS17	ATOM	3569	CD	ARG	75	111.136	89.766	-37.657	1.00	77.79	OS

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ATOM	3570	NE	ARG	75	111.456	90.651	-36.539	1.00	77.79	Q517	ATOM	3623	CB	MET	82	126.954	90.326	-49.640	1.00	78.85	Q5
ATOM	3571	C2	ARG	75	111.808	91.928	-36.670	1.00	77.79	Q517	ATOM	3624	CG	MET	82	125.631	89.800	-50.182	1.00	78.85	Q5
ATOM	3572	NH1	ARG	75	111.879	92.480	-37.880	1.00	77.79	Q517	ATOM	3625	SD	MET	82	125.095	88.281	-49.378	1.00	78.85	Q5
ATOM	3573	NH2	ARG	75	112.111	92.645	-35.592	1.00	77.79	Q517	ATOM	3626	CE	MET	82	126.487	91.167	-49.766	1.00	78.85	Q5
ATOM	3574	C	ARG	75	112.655	87.187	-39.157	1.00	62.15	Q517	ATOM	3627	C	MET	82	128.191	91.235	-47.691	1.00	69.94	Q5
ATOM	3575	O	ARG	75	113.478	87.526	-38.316	1.00	62.15	Q517	ATOM	3628	O	MET	82	129.262	90.766	-47.329	1.00	69.94	Q5
ATOM	3576	N	LEU	76	112.787	87.398	-40.452	1.00	56.26	Q517	ATOM	3629	N	ASP	83	127.970	92.540	-47.753	1.00	69.95	Q5
ATOM	3577	CA	LEU	76	113.910	88.067	-41.049	1.00	56.26	Q517	ATOM	3630	CA	ASP	83	128.996	93.478	-47.335	1.00	69.95	Q5
ATOM	3578	CB	LEU	76	113.853	87.774	-42.540	1.00	51.86	Q517	ATOM	3631	CB	ASP	83	128.418	94.895	-47.263	1.00	81.90	Q5
ATOM	3579	CG	LEU	76	114.392	88.676	-43.631	1.00	51.86	Q517	ATOM	3632	CG	ASP	83	127.211	94.996	-46.348	1.00	81.90	Q5
ATOM	3580	CD1	LEU	76	114.206	87.925	-44.951	1.00	51.86	Q517	ATOM	3633	OD1	ASP	83	126.521	93.970	-46.133	1.00	81.90	Q5
ATOM	3581	CD2	LEU	76	113.649	90.016	-43.653	1.00	51.86	Q517	ATOM	3634	OD2	ASP	83	126.944	96.112	-45.855	1.00	81.90	Q5
ATOM	3582	C	LEU	76	113.781	89.557	-40.752	1.00	56.26	Q517	ATOM	3635	C	ASP	83	129.430	92.986	-45.962	1.00	69.95	Q5
ATOM	3583	O	LEU	76	112.695	90.039	-40.453	1.00	56.26	Q517	ATOM	3636	O	ASP	83	130.615	93.017	-45.612	1.00	69.95	Q5
ATOM	3584	N	VAL	77	114.888	90.283	-40.819	1.00	61.99	Q517	ATOM	3637	N	LEU	84	128.446	92.499	-45.207	1.00	70.71	Q5
ATOM	3585	CA	VAL	77	114.867	91.711	-40.552	1.00	61.99	Q517	ATOM	3638	CA	LEU	84	128.658	91.945	-43.880	1.00	70.71	Q5
ATOM	3586	CB	VAL	77	115.887	92.063	-39.477	1.00	51.35	Q517	ATOM	3639	CB	LEU	84	127.326	91.790	-43.173	1.00	50.45	Q5
ATOM	3587	CG1	VAL	77	116.015	93.562	-39.340	1.00	51.35	Q517	ATOM	3640	CG	LEU	84	126.619	93.078	-42.788	1.00	50.45	Q5
ATOM	3588	CG2	VAL	77	115.452	91.445	-38.167	1.00	51.35	Q517	ATOM	3641	CD1	LEU	84	125.152	92.793	-42.492	1.00	50.45	Q5
ATOM	3589	C	VAL	77	115.139	92.508	-41.825	1.00	61.99	Q517	ATOM	3642	CD2	LEU	84	127.319	93.682	-41.580	1.00	50.45	Q5
ATOM	3590	O	VAL	77	114.449	93.489	-42.109	1.00	61.99	Q517	ATOM	3643	C	LEU	84	129.280	90.569	-44.061	1.00	70.71	Q5
ATOM	3591	N	GLU	78	116.153	92.038	-42.579	1.00	69.69	Q517	ATOM	3644	O	LEU	84	130.346	90.269	-43.528	1.00	70.71	Q5
ATOM	3592	CA	GLU	78	116.471	92.743	-43.848	1.00	69.69	Q517	ATOM	3645	N	VAL	85	128.599	89.728	-44.823	1.00	53.93	Q5
ATOM	3593	CB	GLU	78	117.181	94.088	-43.646	1.00	61.66	Q517	ATOM	3646	CA	VAL	85	129.095	88.392	-45.066	1.00	53.93	Q5
ATOM	3594	CG	GLU	78	118.636	94.010	-43.245	1.00	61.66	Q517	ATOM	3647	CB	VAL	85	128.250	87.677	-46.129	1.00	61.20	Q5
ATOM	3595	CD	GLU	78	119.491	95.278	-43.601	1.00	61.66	Q517	ATOM	3648	CG1	VAL	85	128.674	86.213	-46.241	1.00	61.20	Q5
ATOM	3596	CE1	GLU	78	119.408	95.589	-44.808	1.00	61.66	Q517	ATOM	3649	CG2	VAL	85	126.782	87.787	-45.771	1.00	53.93	Q5
ATOM	3597	CE2	GLU	78	119.900	95.960	-42.679	1.00	61.66	Q517	ATOM	3650	C	VAL	85	130.537	88.460	-45.545	1.00	53.93	Q5
ATOM	3598	C	GLU	78	117.334	91.798	-44.672	1.00	69.69	Q517	ATOM	3651	O	VAL	85	131.398	87.710	-45.081	1.00	53.93	Q5
ATOM	3599	O	GLU	78	118.342	91.281	-44.196	1.00	69.69	Q517	ATOM	3652	N	GLU	86	130.810	89.374	-46.465	1.00	67.11	Q5
ATOM	3600	N	SER	79	116.920	91.563	-45.910	1.00	52.60	Q517	ATOM	3653	CA	GLU	86	132.157	89.486	-46.983	1.00	67.11	Q5
ATOM	3601	CA	SER	79	117.631	90.655	-46.796	1.00	52.60	Q517	ATOM	3654	CB	GLU	86	132.248	90.510	-48.098	1.00	129.60	Q5
ATOM	3602	CB	SER	79	116.653	90.069	-47.819	1.00	102.11	Q517	ATOM	3655	CG	GLU	86	133.651	90.607	-48.631	1.00	129.60	Q5
ATOM	3603	CG	SER	79	117.255	89.032	-48.576	1.00	102.11	Q517	ATOM	3656	CG	GLU	86	133.682	90.865	-50.111	1.00	129.60	Q5
ATOM	3604	C	SER	79	118.801	91.316	-47.518	1.00	52.60	Q517	ATOM	3657	CE1	GLU	86	133.205	91.938	-50.533	1.00	129.60	Q5
ATOM	3605	O	SER	79	118.972	92.529	-47.464	1.00	52.60	Q517	ATOM	3658	CE2	GLU	86	134.107	89.863	-45.877	1.00	67.11	Q5
ATOM	3606	N	GLY	80	119.607	90.492	-48.180	1.00	66.44	Q517	ATOM	3659	C	GLU	86	133.107	89.311	-45.789	1.00	67.11	Q5
ATOM	3607	CA	GLY	80	120.753	90.975	-48.931	1.00	66.44	Q517	ATOM	3660	O	GLU	86	134.209	89.311	-45.789	1.00	67.11	Q5
ATOM	3608	C	GLY	80	121.722	91.909	-48.230	1.00	66.44	Q517	ATOM	3661	N	LYS	87	133.544	90.806	-45.035	1.00	49.56	Q5
ATOM	3609	O	GLY	80	121.432	93.079	-48.027	1.00	66.44	Q517	ATOM	3662	CA	LYS	87	132.689	91.214	-43.933	1.00	49.56	Q5
ATOM	3610	N	ARG	81	122.886	91.380	-47.867	1.00	95.90	Q517	ATOM	3663	CB	LYS	87	132.785	92.097	-42.940	1.00	89.57	Q5
ATOM	3611	CA	ARG	81	123.906	92.194	-47.214	1.00	95.90	Q517	ATOM	3664	CG	LYS	87	133.282	93.538	-42.905	1.00	89.57	Q5
ATOM	3612	CB	ARG	81	123.934	91.897	-45.731	1.00	53.95	Q517	ATOM	3665	CD	LYS	87	132.326	94.469	-42.170	1.00	89.57	Q5
ATOM	3613	CG	ARG	81	122.648	92.333	-45.069	1.00	53.95	Q517	ATOM	3666	CE	LYS	87	132.680	95.923	-42.477	1.00	89.57	Q5
ATOM	3614	CD	ARG	81	122.413	93.812	-45.302	1.00	53.95	Q517	ATOM	3667	N2	LYS	87	131.640	96.897	-42.017	1.00	89.57	Q5
ATOM	3615	NE	ARG	81	123.597	94.565	-44.905	1.00	53.95	Q517	ATOM	3668	C	LYS	87	133.965	89.922	-43.275	1.00	49.56	Q5
ATOM	3616	C2	ARG	81	123.571	95.635	-44.117	1.00	53.95	Q517	ATOM	3669	O	LYS	87	135.154	89.624	-43.166	1.00	49.56	Q5
ATOM	3617	NH1	ARG	81	122.410	96.085	-43.649	1.00	53.95	Q517	ATOM	3670	N	TYR	88	133.974	89.133	-42.878	1.00	50.73	Q5
ATOM	3618	NH2	ARG	81	124.707	96.229	-43.764	1.00	53.95	Q517	ATOM	3671	CA	TYR	88	133.240	87.856	-42.243	1.00	50.73	Q5
ATOM	3619	C	ARG	81	125.238	91.884	-47.848	1.00	95.90	Q517	ATOM	3672	CB	TYR	88	131.936	87.099	-42.014	1.00	50.44	Q5
ATOM	3620	O	ARG	81	125.750	92.673	-48.633	1.00	95.90	Q517	ATOM	3673	CG	TYR	88	132.150	85.678	-41.553	1.00	50.44	Q5
ATOM	3621	N	MET	82	125.796	90.731	-47.523	1.00	69.94	Q517	ATOM	3674	CD1	TYR	88	132.637	85.404	-40.279	1.00	50.44	Q5
ATOM	3622	CA	MET	82	127.060	90.325	-48.115	1.00	69.94	Q517	ATOM	3675	CE1	TYR	88	132.830	84.095	-39.851	1.00	50.44	Q5

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ATOM	3676	CD2	TYR	88	131.864	84.604	-42.397	1.00	50.44	OS17	ATOM	3729	N	ASN	94	141.957	85.937	-44.183	1.00	60.48	OS
ATOM	3677	CE2	TYR	88	132.055	83.293	-41.984	1.00	50.44	OS17	ATOM	3730	CA	ASN	94	143.219	86.435	-43.625	1.00	60.48	OS
ATOM	3678	CZ	TYR	88	132.536	83.044	-40.710	1.00	50.44	OS17	ATOM	3731	CB	ASN	94	142.984	87.565	-42.624	1.00	64.06	OS
ATOM	3679	OH	TYR	88	132.716	81.745	-40.295	1.00	50.44	OS17	ATOM	3732	CG	ASN	94	142.857	88.908	-43.287	1.00	64.06	OS
ATOM	3680	C	TYR	88	134.178	86.996	-43.088	1.00	50.73	OS17	ATOM	3733	OD1	ASN	94	143.235	89.069	-44.447	1.00	64.06	OS
ATOM	3681	O	TYR	88	135.180	86.487	-42.594	1.00	50.73	OS17	ATOM	3734	ND2	ASN	94	142.339	89.892	-42.552	1.00	64.06	OS
ATOM	3682	N	LEU	89	133.861	86.842	-44.366	1.00	46.44	OS17	ATOM	3735	C	ASN	94	143.977	85.346	-42.903	1.00	60.48	OS
ATOM	3683	CA	LEU	89	134.686	86.008	-45.227	1.00	46.44	OS17	ATOM	3736	O	ASN	94	145.197	85.266	-42.987	1.00	60.48	OS
ATOM	3684	CB	LEU	89	134.051	85.902	-46.608	1.00	58.95	OS17	ATOM	3737	N	TYR	95	143.245	84.517	-42.174	1.00	59.85	OS
ATOM	3685	CG	LEU	89	132.123	85.134	-46.579	1.00	58.95	OS17	ATOM	3738	CA	TYR	95	143.858	83.444	-41.417	1.00	59.85	OS
ATOM	3686	CD1	LEU	89	132.123	85.128	-47.961	1.00	58.95	OS17	ATOM	3739	CB	TYR	95	142.762	82.495	-40.919	1.00	72.77	OS
ATOM	3687	CD2	LEU	89	132.980	83.718	-46.084	1.00	58.95	OS17	ATOM	3740	CG	TYR	95	141.918	83.164	-39.852	1.00	72.77	OS
ATOM	3688	C	LEU	89	136.135	86.455	-45.343	1.00	46.44	OS17	ATOM	3741	CD1	TYR	95	142.041	84.544	-39.623	1.00	72.77	OS
ATOM	3689	O	LEU	89	137.048	85.673	-45.098	1.00	46.44	OS17	ATOM	3742	CE1	TYR	95	141.328	85.187	-38.621	1.00	72.77	OS
ATOM	3690	N	ILE	90	136.352	87.703	-45.728	1.00	57.59	OS17	ATOM	3743	CE2	TYR	95	141.036	82.434	-39.041	1.00	72.77	OS
ATOM	3691	CA	ILE	90	137.707	88.209	-45.848	1.00	57.59	OS17	ATOM	3744	CD2	TYR	95	140.307	83.072	-38.019	1.00	72.77	OS
ATOM	3692	CB	ILE	90	137.689	89.710	-46.137	1.00	64.68	OS17	ATOM	3745	CZ	TYR	95	140.469	84.455	-37.817	1.00	72.77	OS
ATOM	3693	CG2	ILE	90	139.086	90.291	-45.993	1.00	64.68	OS17	ATOM	3746	OH	TYR	95	139.830	85.129	-36.794	1.00	72.77	OS
ATOM	3694	CG1	ILE	90	137.110	89.938	-47.534	1.00	64.68	OS17	ATOM	3747	C	TYR	95	146.008	82.420	-41.717	1.00	59.85	OS
ATOM	3695	CD1	ILE	90	136.892	91.387	-47.883	1.00	64.68	OS17	ATOM	3748	O	TYR	95	144.635	82.508	-43.509	1.00	84.99	OS
ATOM	3696	C	ILE	90	138.464	87.943	-44.548	1.00	57.59	OS17	ATOM	3749	N	GLN	96	145.560	81.834	-44.412	1.00	84.99	OS
ATOM	3697	O	ILE	90	139.612	87.498	-44.565	1.00	57.59	OS17	ATOM	3750	CA	GLN	96	145.081	82.005	-45.860	1.00	131.38	OS
ATOM	3698	N	ARG	91	137.808	88.194	-43.419	1.00	53.65	OS17	ATOM	3751	CB	GLN	96	145.887	81.238	-46.909	1.00	131.38	OS
ATOM	3699	CA	ARG	91	138.431	87.979	-42.119	1.00	53.65	OS17	ATOM	3752	CG	GLN	96	146.674	82.155	-47.842	1.00	131.38	OS
ATOM	3700	CG	ARG	91	137.440	88.277	-40.983	1.00	88.37	OS17	ATOM	3753	CD	GLN	96	147.966	81.879	-47.995	1.00	84.99	OS
ATOM	3701	CB	ARG	91	138.098	88.819	-39.718	1.00	88.37	OS17	ATOM	3754	OE1	GLN	96	146.123	83.092	-48.423	1.00	131.38	OS
ATOM	3702	CD	ARG	91	137.701	88.035	-38.474	1.00	88.37	OS17	ATOM	3755	NE2	GLN	96	147.925	81.637	-44.008	1.00	84.99	OS
ATOM	3703	NE	ARG	91	136.307	88.246	-38.089	1.00	88.37	OS17	ATOM	3756	C	GLN	96	147.113	83.702	-44.389	1.00	106.95	OS
ATOM	3704	CZ	ARG	91	135.687	87.590	-37.108	1.00	88.37	OS17	ATOM	3757	O	GLN	96	149.109	84.182	-42.957	1.00	106.95	OS
ATOM	3705	NH1	ARG	91	136.330	86.669	-36.402	1.00	88.37	OS17	ATOM	3758	N	SER	97	148.285	85.848	-44.591	1.00	97.98	OS
ATOM	3706	NH2	ARG	91	134.419	87.858	-36.829	1.00	53.65	OS17	ATOM	3759	CA	SER	97	147.715	86.542	-43.494	1.00	97.98	OS
ATOM	3707	C	ARG	91	138.921	86.541	-42.023	1.00	53.65	OS17	ATOM	3760	CB	SER	97	149.109	84.182	-42.957	1.00	106.95	OS
ATOM	3708	O	ARG	91	140.069	86.293	-41.665	1.00	53.65	OS17	ATOM	3761	OG	SER	97	148.536	84.774	-41.912	1.00	57.63	OS
ATOM	3709	N	ARG	92	138.059	85.588	-42.348	1.00	57.30	OS17	ATOM	3762	C	SER	97	149.118	84.731	-40.562	1.00	57.63	OS
ATOM	3710	CA	ARG	92	138.459	84.190	-42.280	1.00	57.30	OS17	ATOM	3763	N	LEU	98	148.336	85.660	-39.606	1.00	60.01	OS
ATOM	3711	CB	ARG	92	137.282	83.277	-42.656	1.00	125.88	OS17	ATOM	3764	CA	LEU	98	146.439	84.165	-38.889	1.00	60.01	OS
ATOM	3712	CG	ARG	92	137.084	83.087	-44.154	1.00	125.88	OS17	ATOM	3765	CB	LEU	98	146.425	86.579	-38.343	1.00	60.01	OS
ATOM	3713	CD	ARG	92	135.723	82.491	-44.489	1.00	125.88	OS17	ATOM	3766	CG	LEU	98	149.301	83.374	-39.883	1.00	57.63	OS
ATOM	3714	NE	ARG	92	135.485	81.206	-43.841	1.00	125.88	OS17	ATOM	3767	CG	LEU	98	146.439	84.165	-38.889	1.00	60.01	OS
ATOM	3715	CZ	ARG	92	134.393	80.474	-44.029	1.00	125.88	OS17	ATOM	3768	CD1	LEU	98	149.301	83.374	-39.883	1.00	57.63	OS
ATOM	3716	NH1	ARG	92	133.441	80.901	-44.848	1.00	125.88	OS17	ATOM	3769	CD2	LEU	98	149.301	83.374	-39.883	1.00	57.63	OS
ATOM	3717	NH2	ARG	92	134.247	79.318	-43.399	1.00	125.88	OS17	ATOM	3770	C	LEU	98	149.301	83.374	-39.883	1.00	57.63	OS
ATOM	3718	C	ARG	92	139.638	83.974	-43.242	1.00	57.30	OS17	ATOM	3771	N	LEU	98	149.301	83.374	-39.883	1.00	57.63	OS
ATOM	3719	O	ARG	92	140.643	83.338	-42.899	1.00	57.30	OS17	ATOM	3772	O	LEU	98	149.301	83.374	-39.883	1.00	57.63	OS
ATOM	3720	N	GLN	93	139.505	84.527	-44.441	1.00	62.19	OS17	ATOM	3773	CA	SER	99	149.438	82.310	-40.660	1.00	92.82	OS
ATOM	3721	CB	GLN	93	140.522	84.425	-45.472	1.00	62.19	OS17	ATOM	3774	CB	SER	99	148.395	80.122	-40.338	1.00	169.85	OS
ATOM	3722	CA	GLN	93	140.084	85.278	-46.653	1.00	122.06	OS17	ATOM	3775	OG	SER	99	148.101	80.057	-41.725	1.00	169.85	OS
ATOM	3723	CG	GLN	93	140.938	85.189	-47.882	1.00	122.06	OS17	ATOM	3776	C	SER	99	150.857	80.347	-40.692	1.00	92.82	OS
ATOM	3724	CD	GLN	93	140.252	85.846	-49.063	1.00	122.06	OS17	ATOM	3777	O	SER	99	150.915	80.145	-41.904	1.00	92.82	OS
ATOM	3725	OE1	GLN	93	139.643	86.910	-48.922	1.00	122.06	OS17	ATOM	3778	N	LYS	100	151.834	80.026	-39.848	1.00	161.59	OS
ATOM	3726	NE2	GLN	93	140.324	85.219	-50.235	1.00	122.06	OS17	ATOM	3779	CA	LYS	100	153.086	79.404	-40.288	1.00	161.59	OS
ATOM	3727	C	GLN	93	141.910	84.855	-44.964	1.00	62.19	OS17	ATOM	3780	CB	LYS	100	153.946	79.066	-39.070	1.00	77.56	OS
ATOM	3728	O	GLN	93	142.921	84.209	-45.274	1.00	62.19	OS17	ATOM	3781	CG	LYS	100	153.897	80.119	-37.981	1.00	77.56	OS

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ATOM	3782	CD	LYS	100	154.674	79.674	-36.752	1.00	77.56	Q517	ATOM	3835	OG1	THR	25	182.410	141.341	-68.410	1.00	90.98	RS
ATOM	3783	CE	LYS	100	154.648	80.741	-35.667	1.00	77.56	Q517	ATOM	3836	CG2	THR	25	182.656	141.393	-70.792	1.00	90.98	RS
ATOM	3784	NZ	LYS	100	155.576	80.422	-34.538	1.00	77.56	Q517	ATOM	3837	C	THR	25	179.660	141.251	-70.961	1.00	103.93	RS
ATOM	3785	C	LYS	100	152.881	78.132	-41.126	1.00	61.59	Q517	ATOM	3838	O	THR	25	180.036	141.544	-72.093	1.00	103.93	RS
ATOM	3786	O	LYS	100	151.712	77.741	-41.356	1.00	61.59	Q517	ATOM	3839	N	LEU	26	178.602	140.481	-70.729	1.00	97.93	RS
ATOM	3787	OG1	LYS	100	153.904	77.535	-41.543	1.00	106.63	Q517	ATOM	3840	CA	LEU	26	177.806	139.931	-71.821	1.00	97.93	RS
ATOM	3788	CB	LYS	19	188.175	142.709	-61.587	1.00	118.58	RS18	ATOM	3841	CB	LEU	26	177.499	138.447	-71.570	1.00	111.39	RS
ATOM	3789	CG	LYS	19	189.535	142.579	-60.909	1.00	118.58	RS18	ATOM	3842	CG	LEU	26	178.558	137.348	-71.739	1.00	111.39	RS
ATOM	3790	CD	LYS	19	190.606	143.358	-61.673	1.00	118.58	RS18	ATOM	3843	CD1	LEU	26	178.932	137.212	-73.204	1.00	111.39	RS
ATOM	3791	CE	LYS	19	192.016	142.958	-61.240	1.00	118.58	RS18	ATOM	3844	CD2	LEU	26	179.775	137.657	-70.903	1.00	111.39	RS
ATOM	3792	NZ	LYS	19	193.084	143.590	-62.075	1.00	118.58	RS18	ATOM	3845	C	LEU	26	176.491	140.688	-71.978	1.00	97.93	RS
ATOM	3793	C	LYS	19	185.946	141.698	-62.082	1.00	103.89	RS18	ATOM	3846	O	LEU	26	176.260	141.706	-71.322	1.00	97.93	RS
ATOM	3794	O	LYS	19	186.091	141.330	-63.247	1.00	103.89	RS18	ATOM	3847	N	GLY	27	175.639	140.170	-72.859	1.00	73.06	RS
ATOM	3795	N	LYS	19	187.736	140.326	-61.068	1.00	103.89	RS18	ATOM	3848	CA	GLY	27	174.336	140.759	-73.112	1.00	73.06	RS
ATOM	3796	CA	LYS	19	187.131	141.691	-61.116	1.00	103.89	RS18	ATOM	3849	C	GLY	27	173.371	139.660	-73.515	1.00	73.06	RS
ATOM	3797	N	ALA	20	184.779	142.112	-61.595	1.00	101.64	RS18	ATOM	3850	O	GLY	27	173.798	138.548	-73.823	1.00	73.06	RS
ATOM	3798	CA	ALA	20	183.567	142.176	-62.417	1.00	101.64	RS18	ATOM	3851	N	GLU	28	172.077	139.958	-73.500	1.00	129.11	RS
ATOM	3799	CB	ALA	20	183.784	143.121	-63.599	1.00	113.18	RS18	ATOM	3852	CA	GLU	28	171.056	138.983	-73.876	1.00	129.11	RS
ATOM	3800	C	ALA	20	183.104	140.813	-62.926	1.00	101.64	RS18	ATOM	3853	CB	GLU	28	169.959	139.680	-74.688	1.00	146.32	RS
ATOM	3801	O	ALA	20	183.857	140.093	-63.577	1.00	101.64	RS18	ATOM	3854	CG	GLU	28	169.004	138.736	-75.406	1.00	146.32	RS
ATOM	3802	N	LYS	21	181.851	140.478	-62.629	1.00	95.78	RS18	ATOM	3855	CD	GLU	28	168.003	139.471	-76.285	1.00	146.32	RS
ATOM	3803	CA	LYS	21	181.258	139.208	-63.038	1.00	95.78	RS18	ATOM	3856	OE1	GLU	28	167.132	140.178	-75.734	1.00	146.32	RS
ATOM	3804	CB	LYS	21	179.813	139.123	-62.548	1.00	129.51	RS18	ATOM	3857	OE2	GLU	28	168.094	139.342	-77.525	1.00	146.32	RS
ATOM	3805	CG	LYS	21	179.550	139.849	-61.247	1.00	129.51	RS18	ATOM	3858	C	GLU	28	171.634	137.817	-74.684	1.00	129.11	RS
ATOM	3806	CD	LYS	21	178.056	139.999	-61.014	1.00	129.51	RS18	ATOM	3859	O	GLU	28	171.836	137.936	-75.894	1.00	129.11	RS
ATOM	3807	CE	LYS	21	177.749	141.291	-60.270	1.00	129.51	RS18	ATOM	3860	N	PHE	29	171.913	136.699	-74.015	1.00	64.40	RS
ATOM	3808	NZ	LYS	21	178.495	141.395	-58.981	1.00	95.78	RS18	ATOM	3861	CA	PHE	29	172.456	135.525	-74.695	1.00	64.40	RS
ATOM	3809	C	LYS	21	181.272	139.095	-64.558	1.00	95.78	RS18	ATOM	3862	CB	PHE	29	173.969	135.444	-74.482	1.00	90.35	RS
ATOM	3810	O	LYS	21	181.110	140.093	-65.260	1.00	95.78	RS18	ATOM	3863	CG	PHE	29	174.377	135.214	-73.053	1.00	90.35	RS
ATOM	3811	N	VAL	22	181.454	137.877	-65.061	1.00	58.12	RS18	ATOM	3864	CD1	PHE	29	174.312	133.941	-72.491	1.00	90.35	RS
ATOM	3812	CA	VAL	22	181.489	137.640	-66.500	1.00	58.12	RS18	ATOM	3865	CD2	PHE	29	174.851	136.265	-72.274	1.00	90.35	RS
ATOM	3813	CB	VAL	22	181.749	136.150	-66.824	1.00	49.71	RS18	ATOM	3866	CE1	PHE	29	174.717	133.720	-71.180	1.00	90.35	RS
ATOM	3814	CGI	VAL	22	182.078	135.990	-68.308	1.00	49.71	RS18	ATOM	3867	CE2	PHE	29	175.257	136.051	-70.961	1.00	90.35	RS
ATOM	3815	CG2	VAL	22	182.880	135.610	-65.951	1.00	49.71	RS18	ATOM	3868	CZ	PHE	29	175.191	134.774	-70.414	1.00	90.35	RS
ATOM	3816	C	VAL	22	180.145	138.027	-67.103	1.00	58.12	RS18	ATOM	3869	C	PHE	29	171.775	134.253	-74.202	1.00	64.40	RS
ATOM	3817	O	VAL	22	180.019	138.221	-68.306	1.00	58.12	RS18	ATOM	3870	O	PHE	29	171.426	134.145	-74.747	1.00	64.40	RS
ATOM	3818	N	LYS	23	179.144	138.134	-66.242	1.00	95.75	RS18	ATOM	3871	N	ASP	30	171.588	133.291	-75.099	1.00	61.93	RS
ATOM	3819	CA	LYS	23	177.792	138.485	-66.647	1.00	95.75	RS18	ATOM	3872	CA	ASP	30	170.924	132.041	-74.747	1.00	61.93	RS
ATOM	3820	CB	LYS	23	176.852	138.247	-65.466	1.00	114.36	RS18	ATOM	3873	CB	ASP	30	170.374	131.356	-75.997	1.00	75.14	RS
ATOM	3821	CG	LYS	23	175.381	138.443	-65.740	1.00	114.36	RS18	ATOM	3874	CG	ASP	30	169.831	129.977	-75.701	1.00	75.14	RS
ATOM	3822	CD	LYS	23	174.609	138.150	-64.469	1.00	114.36	RS18	ATOM	3875	OD1	ASP	30	169.327	129.780	-74.582	1.00	75.14	RS
ATOM	3823	CE	LYS	23	173.117	138.205	-64.683	1.00	114.36	RS18	ATOM	3876	OD2	ASP	30	169.894	129.091	-76.578	1.00	75.14	RS
ATOM	3824	NZ	LYS	23	172.417	137.810	-63.434	1.00	114.36	RS18	ATOM	3877	C	ASP	30	171.805	131.056	-73.987	1.00	61.93	RS
ATOM	3825	C	LYS	23	177.712	139.939	-67.099	1.00	95.75	RS18	ATOM	3878	O	ASP	30	172.674	130.396	-74.734	1.00	61.93	RS
ATOM	3826	O	LYS	23	177.139	140.245	-68.143	1.00	95.75	RS18	ATOM	3879	N	LEU	31	171.561	130.938	-72.684	1.00	59.26	RS
ATOM	3827	N	ALA	24	178.294	140.833	-66.308	1.00	105.08	RS18	ATOM	3880	CA	LEU	31	172.349	130.035	-71.860	1.00	59.26	RS
ATOM	3828	CA	ALA	24	178.280	142.255	-66.627	1.00	105.08	RS18	ATOM	3881	CB	LEU	31	171.921	130.133	-70.389	1.00	62.52	RS
ATOM	3829	CB	ALA	24	178.714	143.064	-65.413	1.00	105.08	RS18	ATOM	3882	CD	LEU	31	172.563	131.303	-69.629	1.00	62.52	RS
ATOM	3830	C	ALA	24	179.171	142.584	-67.818	1.00	105.08	RS18	ATOM	3883	CD1	LEU	31	172.027	131.434	-68.214	1.00	62.52	RS
ATOM	3831	O	ALA	24	179.503	143.745	-68.052	1.00	105.08	RS18	ATOM	3884	CD2	LEU	31	174.051	131.063	-69.590	1.00	62.52	RS
ATOM	3832	N	THR	25	179.567	141.560	-68.564	1.00	103.93	RS18	ATOM	3885	C	LEU	31	172.271	128.595	-72.337	1.00	59.26	RS
ATOM	3833	CA	THR	25	180.405	141.763	-69.736	1.00	103.93	RS18	ATOM	3886	O	LEU	31	173.096	127.773	-71.952	1.00	59.26	RS
ATOM	3834	CB	THR	25	181.750	141.004	-69.634	1.00	90.98	RS18	ATOM	3887	N	ARG	32	171.291	128.286	-73.180	1.00	64.07	RS

ATOM	3888	CA	ARG	32	171.147	126.925	-73.689	1.00	64.07	RS18	ATOM	3941	CG2	VAL	37	182.160	127.501	-79.931	1.00	57.04	RS
ATOM	3889	CB	ARG	32	169.676	126.566	-73.905	1.00	72.01	RS18	ATOM	3942	C	VAL	37	182.111	130.682	-77.810	1.00	58.30	RS
ATOM	3890	CG	ARG	32	168.879	126.304	-72.643	1.00	72.01	RS18	ATOM	3943	O	VAL	37	182.471	130.915	-76.660	1.00	58.30	RS
ATOM	3891	CD	ARG	32	167.536	125.542	-72.981	1.00	72.01	RS18	ATOM	3944	N	GLU	38	182.041	131.608	-78.760	1.00	73.50	RS
ATOM	3892	NE	ARG	32	166.822	125.189	-71.792	1.00	72.01	RS18	ATOM	3945	CA	GLU	38	182.389	132.996	-78.507	1.00	73.50	RS
ATOM	3893	CZ	ARG	32	166.159	126.067	-71.048	1.00	72.01	RS18	ATOM	3946	CB	GLU	38	181.646	133.904	-79.488	1.00	76.39	RS
ATOM	3894	NH1	ARG	32	166.172	127.352	-71.373	1.00	72.01	RS18	ATOM	3947	CG	GLU	38	182.555	134.695	-80.411	1.00	76.39	RS
ATOM	3895	NH2	ARG	32	165.487	125.663	-69.982	1.00	72.01	RS18	ATOM	3948	CD	GLU	38	183.453	135.665	-79.657	1.00	76.39	RS
ATOM	3896	C	ARG	32	171.885	126.722	-75.001	1.00	64.07	RS18	ATOM	3949	OE1	GLU	38	184.222	136.400	-80.314	1.00	76.39	RS
ATOM	3897	O	ARG	32	171.799	125.649	-75.597	1.00	64.07	RS18	ATOM	3950	OE2	GLU	38	183.389	133.694	-78.409	1.00	73.50	RS
ATOM	3898	N	ASP	33	172.609	127.744	-75.453	1.00	83.77	RS18	ATOM	3951	C	GLU	38	182.007	133.354	-77.076	1.00	73.50	RS
ATOM	3899	CA	ASP	33	173.337	127.649	-76.715	1.00	83.77	RS18	ATOM	3952	O	GLU	38	182.863	133.727	-76.270	1.00	73.50	RS
ATOM	3900	CB	ASP	33	173.598	129.040	-77.281	1.00	102.45	RS18	ATOM	3953	N	VAL	39	180.718	133.211	-76.766	1.00	71.42	RS
ATOM	3901	CG	ASP	33	173.826	129.017	-78.775	1.00	102.45	RS18	ATOM	3954	CA	VAL	39	180.186	133.510	-75.437	1.00	71.42	RS
ATOM	3902	OD1	ASP	33	173.523	130.030	-79.436	1.00	102.45	RS18	ATOM	3955	CB	VAL	39	178.634	133.485	-75.441	1.00	50.80	RS
ATOM	3903	OD2	ASP	33	174.313	127.986	-79.289	1.00	102.45	RS18	ATOM	3956	CG1	VAL	39	178.100	134.683	-76.202	1.00	50.80	RS
ATOM	3904	C	ASP	33	174.667	126.919	-76.565	1.00	83.77	RS18	ATOM	3957	CG2	VAL	39	180.681	132.536	-74.368	1.00	71.42	RS
ATOM	3905	O	ASP	33	175.680	127.524	-76.207	1.00	83.77	RS18	ATOM	3958	C	VAL	39	181.327	132.943	-73.401	1.00	55.11	RS
ATOM	3906	N	TYR	34	174.670	125.622	-76.856	1.00	64.08	RS18	ATOM	3959	O	VAL	39	180.374	131.253	-74.548	1.00	55.11	RS
ATOM	3907	CA	TYR	34	175.888	124.834	-76.729	1.00	64.08	RS18	ATOM	3960	N	LEU	40	180.769	130.228	-73.588	1.00	55.11	RS
ATOM	3908	CB	TYR	34	175.543	123.361	-76.529	1.00	80.40	RS18	ATOM	3961	CA	LEU	40	180.540	128.834	-74.180	1.00	45.86	RS
ATOM	3909	CG	TYR	34	174.780	122.754	-77.674	1.00	80.40	RS18	ATOM	3962	CB	LEU	40	179.066	128.466	-74.440	1.00	45.86	RS
ATOM	3910	CD1	TYR	34	174.720	121.765	-79.891	1.00	80.40	RS18	ATOM	3963	CG	LEU	40	178.940	127.042	-74.995	1.00	45.86	RS
ATOM	3911	CE1	TYR	34	173.398	122.627	-77.610	1.00	80.40	RS18	ATOM	3964	CD1	LEU	40	182.202	130.357	-73.069	1.00	55.11	RS
ATOM	3912	CE2	TYR	34	172.639	122.076	-78.665	1.00	80.40	RS18	ATOM	3965	CD2	LEU	40	182.425	130.287	-71.854	1.00	55.11	RS
ATOM	3913	CZ	TYR	34	172.606	121.114	-80.823	1.00	80.40	RS18	ATOM	3966	O	LEU	40	183.167	130.553	-73.968	1.00	86.75	RS
ATOM	3914	CE	TYR	34	176.806	124.974	-77.931	1.00	64.08	RS18	ATOM	3967	N	LVS	41	184.570	130.706	-73.566	1.00	86.75	RS
ATOM	3915	OH	TYR	34	177.521	124.039	-78.282	1.00	64.08	RS18	ATOM	3968	CA	LVS	41	185.372	131.470	-74.622	1.00	131.42	RS
ATOM	3916	C	TYR	34	176.793	126.139	-78.564	1.00	81.68	RS18	ATOM	3971	CG	LVS	41	185.290	130.950	-76.038	1.00	131.42	RS
ATOM	3917	N	ARG	35	177.637	126.356	-79.726	1.00	81.68	RS18	ATOM	3972	CD	LVS	41	185.938	131.596	-76.984	1.00	131.42	RS
ATOM	3919	CA	ARG	35	176.864	126.071	-81.004	1.00	83.39	RS18	ATOM	3973	CE	LVS	41	186.372	132.596	-79.355	1.00	131.42	RS
ATOM	3920	CB	ARG	35	176.159	124.611	-81.327	1.00	83.39	RS18	ATOM	3974	NZ	LVS	41	184.628	131.519	-72.276	1.00	86.75	RS
ATOM	3921	CG	ARG	35	174.709	124.551	-82.658	1.00	83.39	RS18	ATOM	3975	C	LVS	41	185.196	131.087	-71.276	1.00	86.75	RS
ATOM	3922	CD	ARG	35	173.952	124.750	-83.734	1.00	83.39	RS18	ATOM	3976	O	LVS	42	183.984	133.638	-71.205	1.00	85.53	RS
ATOM	3923	NE	ARG	35	172.631	124.811	-83.613	1.00	83.39	RS18	ATOM	3977	N	ARG	42	182.889	135.565	-72.538	1.00	102.83	RS
ATOM	3924	CZ	ARG	35	178.184	127.754	-79.780	1.00	81.68	RS18	ATOM	3978	CA	ARG	42	184.039	136.547	-72.387	1.00	102.83	RS
ATOM	3925	NH1	ARG	35	179.118	128.025	-80.523	1.00	81.68	RS18	ATOM	3979	CB	ARG	42	183.803	137.767	-73.156	1.00	102.83	RS
ATOM	3926	NH2	ARG	35	177.602	128.647	-78.994	1.00	71.04	RS18	ATOM	3980	CG	ARG	42	182.976	138.738	-72.776	1.00	102.83	RS
ATOM	3927	C	ARG	35	177.064	130.020	-78.981	1.00	71.04	RS18	ATOM	3981	CD	ARG	42	182.313	138.630	-71.632	1.00	102.83	RS
ATOM	3928	O	ARG	35	177.388	132.386	-78.425	1.00	108.99	RS18	ATOM	3982	NE	ARG	42	182.799	139.809	-73.540	1.00	102.83	RS
ATOM	3929	N	ASN	36	176.552	132.668	-78.185	1.00	108.99	RS18	ATOM	3983	CZ	ARG	42	183.876	132.992	-69.829	1.00	85.53	RS
ATOM	3930	CA	ASN	36	178.631	132.668	-78.792	1.00	108.99	RS18	ATOM	3984	OE	ARG	42	184.503	133.446	-68.869	1.00	85.53	RS
ATOM	3931	CB	ASN	36	179.387	130.062	-78.237	1.00	71.04	RS18	ATOM	3985	NH2	ARG	42	183.076	131.934	-69.737	1.00	72.64	RS
ATOM	3932	CG	ASN	36	179.515	130.699	-77.188	1.00	71.04	RS18	ATOM	3986	C	ARG	43	182.852	131.267	-68.464	1.00	72.64	RS
ATOM	3933	OD1	ASN	36	180.367	129.360	-78.799	1.00	58.30	RS18	ATOM	3987	O	PHE	43	181.435	130.677	-68.454	1.00	64.55	RS
ATOM	3934	ND2	ASN	36	181.699	129.285	-78.224	1.00	58.30	RS18	ATOM	3988	N	PHE	43	180.348	131.717	-68.584	1.00	64.55	RS
ATOM	3935	C	ASN	36	182.720	128.748	-79.245	1.00	57.04	RS18	ATOM	3989	CA	PHE	43	179.228	131.476	-69.366	1.00	64.55	RS
ATOM	3936	O	ASN	36	184.048	128.435	-78.547	1.00	57.04	RS18	ATOM	3990	CB	PHE	43	180.458	132.948	-67.944	1.00	64.55	RS
ATOM	3937	N	VAL	37							ATOM	3991	CG	PHE	43						
ATOM	3938	CA	VAL	37							ATOM	3992	CD1	PHE	43						
ATOM	3939	CB	VAL	37							ATOM	3993	CD2	PHE	43						
ATOM	3940	CG1	VAL	37							ATOM										

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ATOM	3994	CEI	PHE	43	178.234	132.442	-69.518	1.00	64.55	RS18	ATOM	4047	CD1	ILE	50	181.101	123.318	-66.276	1.00	44.12	R:
ATOM	3995	CE2	PHE	43	179.471	133.918	-68.090	1.00	64.55	RS18	ATOM	4048	C	ILE	50	183.925	126.897	-64.167	1.00	55.92	R:
ATOM	3996	CZ	PHE	43	178.357	133.663	-68.881	1.00	64.55	RS18	ATOM	4049	O	ILE	50	184.041	126.445	-63.030	1.00	55.92	R:
ATOM	3997	C	PHE	43	183.866	130.199	-68.072	1.00	72.64	RS18	ATOM	4050	N	LEU	51	183.960	128.199	-64.433	1.00	72.58	R:
ATOM	3998	O	PHE	43	183.826	129.702	-66.949	1.00	72.64	RS18	ATOM	4051	CA	LEU	51	184.109	129.182	-63.368	1.00	72.58	R:
ATOM	3999	N	LEU	44	184.795	129.876	-68.968	1.00	74.42	RS18	ATOM	4052	CB	LEU	51	184.049	129.602	-63.926	1.00	53.25	R:
ATOM	4000	CA	LEU	44	185.775	128.829	-68.691	1.00	74.42	RS18	ATOM	4053	CG	LEU	51	185.229	131.134	-64.737	1.00	53.25	R:
ATOM	4001	CB	LEU	44	186.182	128.147	-69.990	1.00	48.61	RS18	ATOM	4054	CD1	LEU	51	185.000	132.603	-65.081	1.00	53.25	R:
ATOM	4002	CG	LEU	44	185.398	126.877	-70.305	1.00	48.61	RS18	ATOM	4055	CD2	LEU	51	186.492	131.003	-63.918	1.00	53.25	R:
ATOM	4003	CD1	LEU	44	186.170	126.069	-71.349	1.00	48.61	RS18	ATOM	4056	C	LEU	51	182.989	129.017	-62.361	1.00	72.58	R:
ATOM	4004	CD2	LEU	44	185.195	126.046	-69.028	1.00	48.61	RS18	ATOM	4057	O	LEU	51	181.853	128.712	-61.729	1.00	72.58	R:
ATOM	4005	C	LEU	44	187.047	129.073	-67.884	1.00	74.42	RS18	ATOM	4058	N	PRO	52	183.287	129.217	-62.071	1.00	85.46	R:
ATOM	4006	O	LEU	44	187.455	128.193	-67.135	1.00	74.42	RS18	ATOM	4059	CD	PRO	52	184.515	129.775	-60.476	1.00	50.82	R:
ATOM	4007	N	SER	45	187.694	130.221	-68.041	1.00	53.22	RS18	ATOM	4060	CA	PRO	52	182.243	129.078	-60.056	1.00	85.46	R:
ATOM	4008	CA	SER	45	188.938	130.493	-67.306	1.00	53.22	RS18	ATOM	4061	CB	PRO	52	183.025	129.220	-58.759	1.00	50.82	R:
ATOM	4009	CB	SER	45	188.860	130.000	-65.863	1.00	47.15	RS18	ATOM	4062	CG	PRO	52	184.028	130.247	-59.118	1.00	50.82	R:
ATOM	4010	OG	SER	45	189.839	128.988	-65.639	1.00	47.15	RS18	ATOM	4063	C	PRO	52	181.332	130.262	-60.291	1.00	85.46	R:
ATOM	4011	O	SER	45	190.220	129.892	-67.893	1.00	53.22	RS18	ATOM	4064	O	PRO	52	181.414	130.890	-61.339	1.00	85.46	R:
ATOM	4012	C	SER	45	190.201	129.053	-68.800	1.00	53.22	RS18	ATOM	4065	N	ARG	53	180.452	130.572	-59.351	1.00	93.73	R:
ATOM	4013	N	GLU	46	191.326	130.317	-67.287	1.00	97.93	RS18	ATOM	4066	CA	ARG	53	179.639	131.758	-59.543	1.00	93.73	R:
ATOM	4014	CA	GLU	46	192.639	129.949	-67.626	1.00	97.93	RS18	ATOM	4067	CB	ARG	53	178.518	131.828	-58.522	1.00	82.21	R:
ATOM	4015	CB	GLU	46	193.646	130.624	-66.626	1.00	112.56	RS18	ATOM	4068	CG	ARG	53	177.220	131.172	-58.980	1.00	82.21	R:
ATOM	4016	CG	GLU	46	193.249	132.058	-66.236	1.00	112.56	RS18	ATOM	4069	CD	ARG	53	176.284	131.082	-57.797	1.00	82.21	R:
ATOM	4017	CD	GLU	46	191.938	132.138	-65.442	1.00	112.56	RS18	ATOM	4070	NE	ARG	53	174.872	130.987	-58.137	1.00	82.21	R:
ATOM	4018	OE1	GLU	46	191.885	131.622	-64.306	1.00	112.56	RS18	ATOM	4071	CZ	ARG	53	173.907	131.121	-57.234	1.00	82.21	R:
ATOM	4019	OE2	GLU	46	190.956	132.719	-65.956	1.00	112.56	RS18	ATOM	4072	NH1	ARG	53	174.218	131.352	-55.968	1.00	82.21	R:
ATOM	4020	C	GLU	46	193.026	128.457	-67.675	1.00	97.93	RS18	ATOM	4073	NH2	ARG	53	172.635	131.032	-57.581	1.00	82.21	R:
ATOM	4021	O	GLU	46	194.097	128.073	-68.142	1.00	97.93	RS18	ATOM	4074	C	ARG	53	180.677	132.841	-59.295	1.00	93.73	R:
ATOM	4022	N	THR	47	192.121	127.614	-67.194	1.00	49.63	RS18	ATOM	4075	O	ARG	53	181.752	132.785	-59.883	1.00	93.73	R:
ATOM	4023	CA	THR	47	192.372	126.175	-67.184	1.00	49.63	RS18	ATOM	4076	N	ARG	54	180.405	133.794	-58.413	1.00	104.19	R:
ATOM	4024	CB	THR	47	192.639	125.686	-65.742	1.00	58.26	RS18	ATOM	4077	CA	ARG	54	181.385	134.848	-58.160	1.00	104.19	R:
ATOM	4025	OG1	THR	47	193.852	126.278	-65.261	1.00	58.26	RS18	ATOM	4078	CB	ARG	54	182.613	134.289	-57.437	1.00	104.19	R:
ATOM	4026	CG2	THR	47	192.770	124.169	-65.687	1.00	58.26	RS18	ATOM	4079	CG	ARG	54	182.352	133.094	-56.536	1.00	104.19	R:
ATOM	4027	C	THR	47	191.203	125.401	-67.776	1.00	49.63	RS18	ATOM	4080	CD	ARG	54	183.591	132.191	-56.428	1.00	104.19	R:
ATOM	4028	O	THR	47	191.150	124.171	-67.699	1.00	49.63	RS18	ATOM	4081	NE	ARG	54	185.515	132.560	-55.353	1.00	104.19	R:
ATOM	4029	N	GLY	48	190.263	126.126	-68.373	1.00	63.56	RS18	ATOM	4082	CZ	ARG	54	185.190	133.706	-55.277	1.00	104.19	R:
ATOM	4030	CA	GLY	48	189.118	125.475	-68.981	1.00	63.56	RS18	ATOM	4083	NH1	ARG	54	185.061	133.634	-56.217	1.00	104.19	R:
ATOM	4031	C	GLY	48	188.188	124.831	-67.976	1.00	63.56	RS18	ATOM	4084	NH2	ARG	54	186.000	133.927	-54.246	1.00	104.19	R:
ATOM	4032	O	GLY	48	187.460	123.889	-68.305	1.00	60.71	RS18	ATOM	4085	C	ARG	54	181.818	135.334	-59.540	1.00	104.19	R:
ATOM	4033	N	LYS	49	188.223	125.330	-66.744	1.00	60.71	RS18	ATOM	4086	O	ARG	54	181.229	136.257	-60.100	1.00	104.19	R:
ATOM	4034	CA	LYS	49	187.356	124.821	-65.692	1.00	60.71	RS18	ATOM	4087	N	ARG	55	182.850	134.687	-60.078	1.00	73.37	R:
ATOM	4035	CB	LYS	49	188.082	124.823	-64.353	1.00	64.05	RS18	ATOM	4088	CA	ARG	55	183.378	134.995	-61.400	1.00	73.37	R:
ATOM	4036	CG	LYS	49	189.232	123.857	-64.268	1.00	64.05	RS18	ATOM	4089	CB	ARG	55	184.324	133.887	-61.838	1.00	114.58	R:
ATOM	4037	CD	LYS	49	189.810	123.853	-62.880	1.00	64.05	RS18	ATOM	4090	CG	ARG	55	185.410	133.625	-60.827	1.00	114.58	R:
ATOM	4038	CE	LYS	49	191.061	123.032	-62.843	1.00	64.05	RS18	ATOM	4091	CD	ARG	55	186.273	133.861	-60.613	1.00	114.58	R:
ATOM	4039	NZ	LYS	49	191.716	123.122	-61.512	1.00	64.05	RS18	ATOM	4092	NE	ARG	55	187.030	135.209	-61.813	1.00	114.58	R:
ATOM	4040	C	LYS	49	186.139	125.730	-65.602	1.00	60.71	RS18	ATOM	4093	CZ	ARG	55	186.634	136.092	-62.724	1.00	114.58	R:
ATOM	4041	O	LYS	49	186.265	126.952	-65.672	1.00	55.92	RS18	ATOM	4094	NH1	ARG	55	185.481	136.733	-62.574	1.00	114.58	R:
ATOM	4042	N	ILE	50	184.958	125.145	-65.452	1.00	55.92	RS18	ATOM	4095	NH2	ARG	55	187.390	135.327	-63.791	1.00	73.37	R:
ATOM	4043	CA	ILE	50	183.764	125.959	-65.348	1.00	55.92	RS18	ATOM	4096	C	ARG	55	182.229	136.126	-62.392	1.00	73.37	R:
ATOM	4044	CB	ILE	50	182.525	125.102	-65.131	1.00	44.12	RS18	ATOM	4097	O	ARG	55	182.015	136.190	-62.965	1.00	73.37	R:
ATOM	4045	CG2	ILE	50	181.323	125.997	-64.972	1.00	44.12	RS18	ATOM	4098	N	THR	56	181.503	134.042	-62.620	1.00	57.68	R:
ATOM	4046	CG1	ILE	50	182.341	124.159	-66.324	1.00	44.12	RS18	ATOM	4099	CA	THR	56	180.361	134.124	-63.511	1.00	57.68	R:

ATOM	4100	CB	THR	56	179.808	132.728	-63.881	1.00	77.99	RS18	ATOM	4153	O	GLN	63	172.471	126.611	-63.988	1.00	62.93	RS
ATOM	4101	OG1	THR	56	179.056	132.197	-62.782	1.00	77.99	RS18	ATOM	4154	N	ARG	64	174.429	125.542	-63.877	1.00	94.07	RS
ATOM	4102	CG2	THR	56	180.950	131.775	-64.204	1.00	77.99	RS18	ATOM	4155	CA	ARG	64	173.784	124.245	-64.048	1.00	94.07	RS
ATOM	4103	C	THR	56	179.342	134.850	-62.642	1.00	57.68	RS18	ATOM	4156	CB	ARG	64	172.531	124.115	-63.172	1.00	149.91	RS
ATOM	4104	O	THR	56	179.240	134.566	-61.445	1.00	57.68	RS18	ATOM	4157	CD	ARG	64	172.136	122.679	-62.809	1.00	149.91	RS
ATOM	4105	N	GLY	57	178.601	135.795	-63.204	1.00	55.88	RS18	ATOM	4158	CG	ARG	64	172.126	121.713	-64.006	1.00	149.91	RS
ATOM	4106	CA	GLY	57	177.634	136.492	-62.373	1.00	55.88	RS18	ATOM	4159	NE	ARG	64	173.472	121.312	-64.426	1.00	149.91	RS
ATOM	4107	C	GLY	57	176.336	135.717	-62.236	1.00	55.88	RS18	ATOM	4160	CZ	ARG	64	173.730	120.392	-65.354	1.00	149.91	RS
ATOM	4108	O	GLY	57	175.417	136.141	-61.536	1.00	55.88	RS18	ATOM	4161	NH1	ARG	64	172.733	119.767	-65.968	1.00	149.91	RS
ATOM	4109	N	LEU	58	176.275	134.567	-62.901	1.00	60.71	RS18	ATOM	4162	NH2	ARG	64	173.985	120.096	-65.672	1.00	149.91	RS
ATOM	4110	CA	LEU	58	175.093	133.718	-62.918	1.00	60.71	RS18	ATOM	4163	C	ARG	64	173.393	124.219	-65.516	1.00	94.07	RS
ATOM	4111	CB	LEU	58	175.401	132.437	-63.690	1.00	73.12	RS18	ATOM	4164	O	ARG	64	173.800	123.325	-66.253	1.00	94.07	RS
ATOM	4112	CG	LEU	58	175.888	132.631	-65.122	1.00	73.12	RS18	ATOM	4165	N	ILE	65	172.598	125.196	-65.945	1.00	69.05	RS
ATOM	4113	CD1	LEU	58	175.951	131.282	-65.835	1.00	73.12	RS18	ATOM	4166	CA	ILE	65	172.236	125.265	-67.354	1.00	69.05	RS
ATOM	4114	CD2	LEU	58	174.937	133.557	-65.847	1.00	73.12	RS18	ATOM	4167	CB	ILE	65	171.353	126.470	-67.639	1.00	62.45	RS
ATOM	4115	C	LEU	58	174.439	133.343	-61.591	1.00	60.71	RS18	ATOM	4168	CG2	ILE	65	171.172	126.532	-69.204	1.00	62.45	RS
ATOM	4116	O	LEU	58	175.073	133.287	-60.540	1.00	60.71	RS18	ATOM	4169	CG1	ILE	65	169.991	126.361	-67.019	1.00	62.45	RS
ATOM	4117	N	SER	59	173.145	133.067	-61.681	1.00	48.44	RS18	ATOM	4170	CD1	ILE	65	173.572	125.558	-68.038	1.00	69.05	RS
ATOM	4118	CA	SER	59	172.314	132.668	-60.559	1.00	48.44	RS18	ATOM	4171	C	ILE	65	174.014	124.708	-68.872	1.00	69.05	RS
ATOM	4119	CB	SER	59	170.880	133.070	-60.824	1.00	43.38	RS18	ATOM	4172	O	ILE	65	174.213	126.598	-67.657	1.00	50.01	RS
ATOM	4120	OG	SER	59	170.330	132.191	-61.787	1.00	43.38	RS18	ATOM	4173	N	LEU	66	175.503	126.945	-68.214	1.00	50.01	RS
ATOM	4121	C	SER	59	172.366	131.153	-60.493	1.00	48.44	RS18	ATOM	4174	CA	LEU	66	176.189	128.009	-67.360	1.00	42.91	RS
ATOM	4122	O	SER	59	173.031	130.522	-61.307	1.00	48.44	RS18	ATOM	4175	CB	LEU	66	177.584	128.336	-67.887	1.00	42.91	RS
ATOM	4123	N	GLY	60	171.632	130.575	-59.547	1.00	44.85	RS18	ATOM	4176	CG	LEU	66	177.414	129.000	-69.223	1.00	42.91	RS
ATOM	4124	CA	GLY	60	171.626	129.135	-59.393	1.00	44.85	RS18	ATOM	4177	CD1	LEU	66	178.343	129.250	-66.947	1.00	42.91	RS
ATOM	4125	C	GLY	60	171.118	128.504	-60.666	1.00	44.85	RS18	ATOM	4178	CD2	LEU	66	176.336	125.681	-68.210	1.00	50.01	RS
ATOM	4126	O	GLY	60	171.842	127.785	-61.349	1.00	44.85	RS18	ATOM	4179	C	LEU	66	176.717	125.178	-69.259	1.00	50.01	RS
ATOM	4127	N	LYS	61	169.869	128.800	-60.999	1.00	53.54	RS18	ATOM	4180	O	LEU	67	176.589	125.166	-67.010	1.00	53.10	RS
ATOM	4128	CA	LYS	61	169.242	128.243	-62.187	1.00	53.54	RS18	ATOM	4181	N	ALA	67	177.375	123.952	-66.816	1.00	53.10	RS
ATOM	4129	CB	LYS	61	167.821	128.809	-62.336	1.00	64.78	RS18	ATOM	4182	CB	ALA	67	177.110	123.382	-65.435	1.00	46.08	RS
ATOM	4130	CG	LYS	61	166.999	128.197	-63.459	1.00	64.78	RS18	ATOM	4183	CA	ALA	67	177.077	122.898	-67.863	1.00	53.10	RS
ATOM	4131	CD	LYS	61	165.566	128.699	-63.436	1.00	64.78	RS18	ATOM	4184	C	ALA	67	177.966	122.461	-68.596	1.00	53.10	RS
ATOM	4132	CE	LYS	61	164.775	128.127	-64.602	1.00	64.78	RS18	ATOM	4185	O	ALA	67	175.817	122.496	-67.927	1.00	44.08	RS
ATOM	4133	NZ	LYS	61	163.358	128.599	-64.619	1.00	64.78	RS18	ATOM	4186	N	LYS	68	175.377	121.480	-68.868	1.00	44.08	RS
ATOM	4134	C	LYS	61	170.061	128.505	-63.447	1.00	53.54	RS18	ATOM	4187	CA	LYS	68	173.908	121.151	-68.617	1.00	87.95	RS
ATOM	4135	O	LYS	61	170.219	127.615	-64.283	1.00	53.54	RS18	ATOM	4188	CB	LYS	68	173.499	119.766	-69.049	1.00	87.95	RS
ATOM	4136	N	GLU	62	170.586	129.720	-63.580	1.00	60.59	RS18	ATOM	4189	CG	LYS	68	172.001	119.609	-68.928	1.00	87.95	RS
ATOM	4137	CA	GLU	62	171.384	130.066	-64.751	1.00	60.59	RS18	ATOM	4190	CD	LYS	68	171.547	118.234	-69.382	1.00	87.95	RS
ATOM	4138	CB	GLU	62	171.863	131.518	-64.656	1.00	69.96	RS18	ATOM	4191	CE	LYS	68	170.135	118.267	-69.881	1.00	87.95	RS
ATOM	4139	CG	GLU	62	170.704	132.493	-64.563	1.00	69.96	RS18	ATOM	4192	NZ	LYS	68	175.559	121.959	-70.301	1.00	44.08	RS
ATOM	4140	CD	GLU	62	171.137	133.939	-64.403	1.00	69.96	RS18	ATOM	4193	C	LYS	68	176.059	121.229	-71.151	1.00	44.08	RS
ATOM	4141	OE1	GLU	62	172.217	134.194	-63.822	1.00	69.96	RS18	ATOM	4194	O	LYS	69	175.154	123.191	-70.569	1.00	73.63	RS
ATOM	4142	OE2	GLU	62	170.376	134.828	-64.845	1.00	60.59	RS18	ATOM	4195	N	THR	69	174.413	125.018	-72.046	1.00	93.97	RS
ATOM	4143	C	GLU	62	172.553	129.090	-64.845	1.00	60.59	RS18	ATOM	4196	CA	THR	69	173.057	124.709	-71.695	1.00	93.97	RS
ATOM	4144	O	GLU	62	172.759	128.476	-65.901	1.00	60.59	RS18	ATOM	4197	CB	THR	69	176.746	124.118	-72.119	1.00	73.63	RS
ATOM	4145	N	GLN	63	173.313	128.941	-63.755	1.00	62.93	RS18	ATOM	4198	OG1	THR	69	177.064	125.127	-72.737	1.00	73.63	RS
ATOM	4146	CA	GLN	63	174.417	127.976	-63.738	1.00	62.93	RS18	ATOM	4199	CG2	THR	69	174.439	125.533	-73.468	1.00	93.97	RS
ATOM	4147	CB	GLN	63	175.162	127.997	-62.405	1.00	53.64	RS18	ATOM	4200	C	THR	69	177.635	123.292	-71.593	1.00	57.84	RS
ATOM	4148	CG	GLN	63	175.993	129.239	-62.146	1.00	53.64	RS18	ATOM	4201	O	THR	70	179.066	123.522	-71.699	1.00	57.84	RS
ATOM	4149	CD	GLN	63	177.457	129.086	-62.568	1.00	53.64	RS18	ATOM	4202	N	ILE	70	179.607	124.221	-70.461	1.00	41.50	RS
ATOM	4150	OE1	GLN	63	178.125	128.109	-62.207	1.00	53.64	RS18	ATOM	4203	CA	ILE	70	181.100	124.019	-70.349	1.00	41.50	RS
ATOM	4151	NE2	GLN	63	177.964	130.065	-63.321	1.00	53.64	RS18	ATOM	4204	CB	ILE	70						
ATOM	4152	C	GLN	63	173.699	126.643	-63.888	1.00	62.93	RS18	ATOM	4205	CG2	ILE	70						

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ATOM	4206	CGI	ILE	70	179.297	125.708	-70.541	1.00	41.50	RS18	ATOM	4259	CD2	LEU	76	179.228	117.367	-80.336	1.00	43.91	RS
ATOM	4207	CDI	ILE	70	179.868	126.512	-69.370	1.00	41.50	RS18	ATOM	4260	C	LEU	76	182.940	119.362	-79.911	1.00	53.38	RS
ATOM	4208	C	ILE	70	179.741	122.183	-71.815	1.00	57.84	RS18	ATOM	4261	O	LEU	76	182.996	120.312	-80.688	1.00	53.38	RS
ATOM	4209	O	ILE	70	180.745	122.033	-72.513	1.00	57.84	RS18	ATOM	4262	N	GLY	77	183.992	118.900	-79.242	1.00	50.76	RS
ATOM	4210	N	LVS	71	179.204	121.210	-71.096	1.00	53.66	RS18	ATOM	4263	CA	GLY	77	185.299	119.506	-79.390	1.00	50.76	RS
ATOM	4211	CA	LVS	71	179.740	119.876	-71.165	1.00	53.66	RS18	ATOM	4264	C	GLY	77	185.254	121.021	-79.482	1.00	50.76	RS
ATOM	4212	CB	LVS	71	179.058	118.997	-70.115	1.00	47.83	RS18	ATOM	4265	O	GLY	77	186.203	121.636	-79.952	1.00	50.76	RS
ATOM	4213	CG	LVS	71	179.548	119.331	-68.717	1.00	47.83	RS18	ATOM	4266	N	LEU	78	184.173	121.640	-79.025	1.00	49.99	RS
ATOM	4214	CD	LVS	71	178.738	118.717	-67.597	1.00	47.83	RS18	ATOM	4267	CA	LEU	78	184.077	123.085	-79.115	1.00	49.99	RS
ATOM	4215	CE	LVS	71	179.194	119.355	-66.294	1.00	47.83	RS18	ATOM	4268	CB	LEU	78	182.623	123.508	-79.299	1.00	68.20	RS
ATOM	4216	N2	LVS	71	178.298	119.076	-65.143	1.00	47.83	RS18	ATOM	4269	CG	LEU	78	182.020	123.073	-80.634	1.00	68.20	RS
ATOM	4217	C	LVS	71	179.452	119.413	-72.591	1.00	53.66	RS18	ATOM	4270	CD1	LEU	78	180.588	123.567	-80.742	1.00	68.20	RS
ATOM	4218	O	LVS	71	180.217	118.649	-73.186	1.00	53.66	RS18	ATOM	4271	CD2	LEU	78	182.875	123.616	-81.768	1.00	68.20	RS
ATOM	4219	N	ARG	72	178.358	119.915	-73.151	1.00	69.39	RS18	ATOM	4272	C	LEU	78	184.690	123.829	-77.941	1.00	49.99	RS
ATOM	4220	CA	ARG	72	177.993	119.573	-74.516	1.00	69.39	RS18	ATOM	4273	O	LEU	78	185.122	124.977	-78.086	1.00	49.99	RS
ATOM	4221	CB	ARG	72	176.636	120.179	-74.857	1.00	70.91	RS18	ATOM	4274	N	LEU	79	184.719	123.191	-76.776	1.00	61.73	RS
ATOM	4222	CG	ARG	72	175.493	119.577	-74.085	1.00	70.91	RS18	ATOM	4275	CA	LEU	79	185.312	123.804	-75.590	1.00	61.73	RS
ATOM	4223	CD	ARG	72	174.183	120.232	-74.474	1.00	70.91	RS18	ATOM	4276	CB	LEU	79	184.232	124.219	-74.601	1.00	59.86	RS
ATOM	4224	NE	ARG	72	173.039	119.521	-73.916	1.00	70.91	RS18	ATOM	4277	CG	LEU	79	183.395	125.417	-75.029	1.00	59.86	RS
ATOM	4225	C2	ARG	72	171.774	119.800	-74.207	1.00	70.91	RS18	ATOM	4278	CD1	LEU	79	182.340	125.709	-73.972	1.00	59.86	RS
ATOM	4226	NH1	ARG	72	171.484	120.779	-75.054	1.00	70.91	RS18	ATOM	4279	CD2	LEU	79	184.301	126.614	-75.226	1.00	59.86	RS
ATOM	4227	NH2	ARG	72	170.798	119.094	-73.653	1.00	70.91	RS18	ATOM	4280	C	LEU	79	186.249	122.800	-74.945	1.00	61.73	RS
ATOM	4228	C	ARG	72	179.057	120.106	-75.477	1.00	69.39	RS18	ATOM	4281	O	LEU	79	185.978	121.604	-74.931	1.00	61.73	RS
ATOM	4229	O	ARG	72	179.604	119.363	-76.291	1.00	69.39	RS18	ATOM	4282	N	PRO	80	187.368	124.677	-74.396	1.00	45.52	RS
ATOM	4230	N	ALA	73	179.343	121.399	-75.373	1.00	63.71	RS18	ATOM	4283	CD	PRO	80	187.744	123.272	-74.151	1.00	37.84	RS
ATOM	4231	CA	ALA	73	180.339	122.041	-76.220	1.00	63.71	RS18	ATOM	4284	CA	PRO	80	188.317	122.358	-73.766	1.00	45.52	RS
ATOM	4232	CB	ALA	73	180.511	123.492	-75.809	1.00	43.45	RS18	ATOM	4285	CB	PRO	80	189.533	123.237	-73.574	1.00	37.84	RS
ATOM	4233	C	ALA	73	181.672	121.315	-76.114	1.00	63.71	RS18	ATOM	4286	CG	PRO	80	188.895	124.558	-73.156	1.00	37.84	RS
ATOM	4234	O	ALA	73	182.429	121.220	-77.085	1.00	63.71	RS18	ATOM	4287	C	PRO	80	187.815	121.812	-72.436	1.00	45.52	RS
ATOM	4235	N	ARG	74	181.970	120.814	-74.925	1.00	66.85	RS18	ATOM	4288	O	PRO	80	186.957	122.412	-71.793	1.00	45.52	RS
ATOM	4236	CA	ARG	74	183.214	120.097	-74.733	1.00	66.85	RS18	ATOM	4289	N	PHE	81	188.339	120.661	-72.036	1.00	65.60	RS
ATOM	4237	CB	ARG	74	183.389	119.712	-73.260	1.00	55.13	RS18	ATOM	4290	CA	PHE	81	187.986	120.095	-70.750	1.00	65.60	RS
ATOM	4238	CG	ARG	74	183.957	120.839	-72.407	1.00	55.13	RS18	ATOM	4291	CB	PHE	81	188.041	118.577	-70.757	1.00	57.06	RS
ATOM	4239	CD	ARG	74	184.084	120.444	-70.947	1.00	55.13	RS18	ATOM	4292	CG	PHE	81	186.971	117.919	-71.566	1.00	57.06	RS
ATOM	4240	NE	ARG	74	184.662	121.523	-70.151	1.00	55.13	RS18	ATOM	4293	CD1	PHE	81	187.001	117.960	-72.955	1.00	57.06	RS
ATOM	4241	C2	ARG	74	184.634	121.576	-68.825	1.00	55.13	RS18	ATOM	4294	CD2	PHE	81	186.064	117.254	-73.705	1.00	57.06	RS
ATOM	4242	NH1	ARG	74	184.050	120.607	-68.134	1.00	55.13	RS18	ATOM	4295	CE1	PHE	81	185.044	116.469	-71.680	1.00	57.06	RS
ATOM	4243	NH2	ARG	74	185.191	122.600	-68.195	1.00	66.85	RS18	ATOM	4296	CE2	PHE	81	185.087	116.507	-73.061	1.00	57.06	RS
ATOM	4244	C	ARG	74	183.232	118.858	-75.615	1.00	66.85	RS18	ATOM	4297	C2	PHE	81	189.065	120.585	-69.794	1.00	65.60	RS
ATOM	4245	O	ARG	74	184.189	118.621	-76.351	1.00	66.85	RS18	ATOM	4298	C	PHE	81	188.833	120.701	-68.594	1.00	65.60	RS
ATOM	4246	N	ILE	75	182.157	118.081	-75.552	1.00	59.99	RS18	ATOM	4299	O	PHE	81	190.250	120.866	-70.338	1.00	75.91	RS
ATOM	4247	CA	ILE	75	182.064	116.862	-76.337	1.00	59.99	RS18	ATOM	4300	N	THR	82	191.380	121.323	-69.532	1.00	75.91	RS
ATOM	4248	CB	ILE	75	180.804	116.073	-75.973	1.00	63.96	RS18	ATOM	4301	CA	THR	82	192.121	120.140	-68.897	1.00	91.50	RS
ATOM	4249	CG	ILE	75	180.726	114.807	-76.806	1.00	63.96	RS18	ATOM	4302	CB	THR	82	191.183	119.293	-68.228	1.00	91.50	RS
ATOM	4250	CG1	ILE	75	180.841	115.716	-74.488	1.00	63.96	RS18	ATOM	4303	CG1	THR	82	193.148	120.636	-67.890	1.00	91.50	RS
ATOM	4251	CD1	ILE	75	179.765	114.740	-74.067	1.00	63.96	RS18	ATOM	4304	CG2	THR	82	192.415	122.109	-70.326	1.00	75.91	RS
ATOM	4252	C	ILE	75	182.084	117.130	-77.834	1.00	59.99	RS18	ATOM	4305	C	THR	82	192.606	121.882	-71.514	1.00	75.91	RS
ATOM	4253	O	ILE	75	182.516	116.283	-78.616	1.00	53.38	RS18	ATOM	4306	N	GLU	83	193.095	123.024	-69.649	1.00	60.19	RS
ATOM	4254	N	LEU	76	181.614	118.301	-78.242	1.00	53.38	RS18	ATOM	4307	O	GLU	83	194.125	123.835	-70.271	1.00	60.19	RS
ATOM	4255	CA	LEU	76	181.634	118.636	-79.652	1.00	43.91	RS18	ATOM	4308	CA	GLU	83	193.618	125.249	-70.551	1.00	43.91	RS
ATOM	4256	CB	LEU	76	180.439	119.521	-80.011	1.00	43.91	RS18	ATOM	4309	CB	GLU	83	192.526	125.330	-71.593	1.00	43.91	RS
ATOM	4257	CG	LEU	76	179.093	118.805	-79.847	1.00	43.91	RS18	ATOM	4310	CG	GLU	83	192.303	126.749	-72.076	1.00	43.91	RS
ATOM	4258	CD1	LEU	76	178.008	119.528	-80.634	1.00	43.91	RS18	ATOM	4311	CD	GLU	83						RS

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ATOM	4312	OE1	GLU	83	192.159	127.647	-71.223	1.00129.06	RS18	ATOM	4365	N	PRO	2	256.065	111.615	15.902	1.00122.90	SS
ATOM	4313	OE2	GLU	83	192.269	126.967	-73.306	1.00129.06	RS18	ATOM	4366	CD	PRO	2	255.694	111.725	14.480	1.00138.04	SS
ATOM	4314	C	GLU	83	195.310	123.915	-69.329	1.0060.19	RS18	ATOM	4367	CA	PRO	2	256.429	112.953	16.434	1.00122.90	SS
ATOM	4315	N	GLU	83	195.153	123.777	-68.116	1.0060.19	RS18	ATOM	4368	N	ARG	3	255.301	112.515	18.552	1.00193.97	SS
ATOM	4316	N	LYS	84	196.497	124.134	-69.891	1.0063.19	RS18	ATOM	4369	CA	ARG	3	254.443	112.719	19.719	1.00193.97	SS
ATOM	4317	CA	LYS	84	197.709	124.247	-69.095	1.0063.19	RS18	ATOM	4370	CB	ARG	3	254.541	111.602	20.704	1.00177.60	SS
ATOM	4318	CB	LYS	84	198.925	123.958	-69.971	1.00103.64	RS18	ATOM	4371	CG	ARG	3	254.001	110.275	20.146	1.00177.60	SS
ATOM	4319	CG	LYS	84	198.877	122.585	-70.612	1.00103.64	RS18	ATOM	4372	CD	ARG	3	254.225	109.089	21.096	1.00177.60	SS
ATOM	4320	CD	LYS	84	200.108	122.309	-71.460	1.00103.64	RS18	ATOM	4373	NE	ARG	3	253.540	107.875	20.640	1.00177.60	SS
ATOM	4321	CE	LYS	84	200.035	120.921	-72.098	1.00103.64	RS18	ATOM	4374	CZ	ARG	3	253.600	106.691	21.250	1.00177.60	SS
ATOM	4322	NZ	LYS	84	201.214	120.607	-72.961	1.00103.64	RS18	ATOM	4375	NH1	ARG	3	254.322	106.537	22.354	1.00177.60	SS
ATOM	4323	C	LYS	84	197.780	125.655	-68.507	1.0063.19	RS18	ATOM	4376	NH2	ARG	3	252.926	105.656	20.762	1.00177.60	SS
ATOM	4324	O	LYS	84	197.308	126.622	-69.113	1.0063.19	RS18	ATOM	4377	C	ARG	3	254.805	114.101	20.415	1.00193.97	SS
ATOM	4325	N	LEU	85	198.344	125.772	-67.313	1.0089.08	RS18	ATOM	4378	O	ARG	3	255.889	114.639	20.180	1.00193.97	SS
ATOM	4326	CA	LEU	85	198.453	127.074	-66.675	1.0089.08	RS18	ATOM	4379	N	SER	4	253.918	114.625	21.268	1.0098.70	SS
ATOM	4327	CB	LEU	85	198.339	126.927	-65.159	1.00101.54	RS18	ATOM	4380	CA	SER	4	254.208	115.898	21.926	1.0098.70	SS
ATOM	4328	CG	LEU	85	198.495	128.197	-64.323	1.00101.54	RS18	ATOM	4381	CB	SER	4	254.124	117.021	20.901	1.00113.30	SS
ATOM	4329	CD1	LEU	85	197.720	129.355	-64.945	1.00101.54	RS18	ATOM	4382	OG	SER	4	252.792	117.158	20.435	1.00113.30	SS
ATOM	4330	CD2	LEU	85	198.008	127.908	-62.909	1.00101.54	RS18	ATOM	4383	C	SER	4	253.368	116.310	23.134	1.0098.70	SS
ATOM	4331	C	LEU	85	199.774	127.725	-67.043	1.0089.08	RS18	ATOM	4384	O	SER	4	252.139	116.375	23.069	1.0098.70	SS
ATOM	4332	O	LEU	85	200.836	127.134	-66.867	1.0089.08	RS18	ATOM	4385	N	LEU	5	254.062	117.619	24.225	1.00104.04	SS
ATOM	4333	N	VAL	86	199.695	128.947	-67.557	1.0095.85	RS18	ATOM	4386	CA	LEU	5	253.458	117.074	25.469	1.00104.04	SS
ATOM	4334	CA	VAL	86	200.875	129.694	-67.975	1.0095.85	RS18	ATOM	4387	CB	LEU	5	253.744	116.077	26.598	1.00125.04	SS
ATOM	4335	CB	VAL	86	200.664	130.266	-69.378	1.0062.31	RS18	ATOM	4388	CG	LEU	5	253.554	114.586	26.260	1.00125.04	SS
ATOM	4336	CG1	VAL	86	201.983	130.714	-69.964	1.0062.31	RS18	ATOM	4389	CD1	LEU	5	253.760	114.353	25.702	1.00125.04	SS
ATOM	4337	CG2	VAL	86	200.017	129.222	-70.259	1.0062.31	RS18	ATOM	4390	CD2	LEU	5	254.179	118.402	25.704	1.00125.04	SS
ATOM	4338	C	VAL	86	201.155	130.840	-67.009	1.0095.85	RS18	ATOM	4391	C	LEU	5	253.982	119.330	24.926	1.00104.04	SS
ATOM	4339	O	VAL	86	200.352	131.109	-66.117	1.0095.85	RS18	ATOM	4392	O	LEU	5	255.025	119.497	26.734	1.00100.80	SS
ATOM	4340	N	ARG	87	202.287	131.518	-67.187	1.00119.44	RS18	ATOM	4393	N	LYS	6	255.785	119.731	27.013	1.00100.80	SS
ATOM	4341	CA	ARG	87	202.649	132.627	-66.311	1.00162.46	RS18	ATOM	4394	CA	LYS	6	253.775	121.346	26.716	1.0095.66	SS
ATOM	4342	CB	ARG	87	201.511	133.658	-66.274	1.00162.46	RS18	ATOM	4395	CB	LYS	6	252.482	121.399	27.528	1.0095.66	SS
ATOM	4343	CG	ARG	87	202.807	135.763	-65.809	1.00162.46	RS18	ATOM	4396	CG	LYS	6	251.377	122.182	26.846	1.0095.66	SS
ATOM	4344	CD	ARG	87	203.261	137.047	-66.336	1.00162.46	RS18	ATOM	4397	CD	LYS	6	251.663	123.646	26.741	1.0095.66	SS
ATOM	4345	NE	ARG	87	203.952	137.193	-67.463	1.00162.46	RS18	ATOM	4398	CE	LYS	6	256.929	119.501	28.010	1.00100.80	SS
ATOM	4346	CZ	ARG	87	204.272	136.133	-68.193	1.00162.46	RS18	ATOM	4400	C	LYS	6	258.054	119.142	27.639	1.00100.80	SS
ATOM	4347	NH1	ARG	87	204.330	138.401	-67.858	1.00119.44	RS18	ATOM	4401	O	LYS	7	256.626	119.740	29.285	1.00103.83	SS
ATOM	4348	NH2	ARG	87	202.857	132.036	-64.923	1.00119.44	RS18	ATOM	4402	N	LYS	7	258.132	120.935	30.792	1.0053.67	SS
ATOM	4349	O	ARG	87	201.971	132.113	-64.072	1.0092.63	RS18	ATOM	4403	CA	LYS	7	258.675	121.721	29.626	1.0053.67	SS
ATOM	4350	C	ARG	87	204.026	131.449	-64.691	1.0092.63	RS18	ATOM	4404	CB	LYS	7	258.670	123.212	29.926	1.0053.67	SS
ATOM	4351	N	LYS	88	204.312	130.817	-63.403	1.0089.21	RS18	ATOM	4405	CG	LYS	7	257.287	123.705	30.333	1.0053.67	SS
ATOM	4352	CA	LYS	88	204.050	129.309	-63.523	1.0089.21	RS18	ATOM	4406	CD	LYS	7	257.163	125.188	30.169	1.0053.67	SS
ATOM	4353	CB	LYS	88	204.285	128.499	-62.261	1.0089.21	RS18	ATOM	4407	CE	LYS	7	256.863	118.951	31.556	1.00103.83	SS
ATOM	4354	CG	LYS	88	203.937	127.044	-62.501	1.0089.21	RS18	ATOM	4408	NZ	LYS	7	256.168	117.643	32.310	1.0078.63	SS
ATOM	4355	CD	LYS	88	204.170	126.226	-61.250	1.0089.21	RS18	ATOM	4409	C	LYS	7	256.389	116.943	32.789	1.0078.63	SS
ATOM	4356	CE	LYS	88	203.747	124.815	-61.443	1.0089.21	RS18	ATOM	4410	O	LYS	8	255.754	115.648	32.338	1.0078.63	SS
ATOM	4357	NZ	LYS	88	205.736	131.075	-62.894	1.0092.63	RS18	ATOM	4411	N	GLY	8	254.923	115.093	33.060	1.0078.63	SS
ATOM	4358	C	LYS	88	206.383	132.016	-63.404	1.0092.63	RS18	ATOM	4412	CA	GLY	8	256.148	115.159	31.162	1.00128.59	SS
ATOM	4359	O	LYS	88	206.188	130.349	-61.976	1.00118.28	RS18	ATOM	4413	O	GLY	8	255.587	113.923	30.622	1.00128.59	SS
ATOM	4360	OXT	LYS	88	256.352	113.927	15.263	1.00138.04	SS19	ATOM	4414	C	VAL	9	255.411	112.696	31.043	1.0066.87	SS
ATOM	4361	CG	PRO	2	255.355	113.219	14.342	1.00138.04	SS19	ATOM	4415	N	VAL	9					SS
ATOM	4362	CB	PRO	2	255.513	113.403	17.577	1.00122.90	SS19	ATOM	4416	CA	VAL	9					SS
ATOM	4363	C	PRO	2	255.017	114.533	17.569	1.00122.90	SS19	ATOM	4417	CB	VAL	9					SS
ATOM	4364	O	PRO	2						ATOM									

ATOM	4418	CG1	VAL	9	255.929	111.471	30.309	1.00	66.87	SS19	ATOM	4471	CD2	LEU	15	249.104	102.486	36.216	1.00	94.64	SS
ATOM	4419	CG2	VAL	9	257.874	112.932	30.750	1.00	66.87	SS19	ATOM	4472	C	LEU	15	251.179	104.073	39.339	1.00	82.91	SS
ATOM	4420	C	VAL	9	254.195	113.800	31.214	1.00128	.59	SS19	ATOM	4473	O	LEU	15	251.562	103.008	39.818	1.00	82.91	SS
ATOM	4421	O	VAL	9	253.352	114.679	31.011	1.00128	.59	SS19	ATOM	4474	N	LEU	16	251.918	105.179	39.313	1.00	89.62	SS
ATOM	4422	N	PHE	10	253.969	112.722	31.961	1.00	73.06	SS19	ATOM	4475	CA	LEU	16	253.256	105.202	39.867	1.00	89.62	SS
ATOM	4423	CA	PHE	10	252.693	112.503	32.637	1.00	73.06	SS19	ATOM	4476	CB	LEU	16	253.784	106.634	39.955	1.00	80.97	SS
ATOM	4424	CB	PHE	10	251.526	113.104	31.860	1.00	63.72	SS19	ATOM	4477	CG	LEU	16	254.307	107.209	38.634	1.00	80.97	SS
ATOM	4425	CG	PHE	10	250.248	113.144	32.645	1.00	63.72	SS19	ATOM	4478	CD1	LEU	16	254.659	108.676	38.810	1.00	80.97	SS
ATOM	4426	CD1	PHE	10	249.774	114.347	33.162	1.00	63.72	SS19	ATOM	4479	CD2	LEU	16	255.524	106.414	38.171	1.00	80.97	SS
ATOM	4427	CD2	PHE	10	249.518	111.972	32.879	1.00	63.72	SS19	ATOM	4480	C	LEU	16	253.184	104.577	41.237	1.00	89.62	SS
ATOM	4428	CE1	PHE	10	248.587	114.384	33.900	1.00	63.72	SS19	ATOM	4481	O	LEU	16	253.894	103.613	41.518	1.00	89.62	SS
ATOM	4429	CE2	PHE	10	248.331	111.995	33.614	1.00	63.72	SS19	ATOM	4482	N	GLU	17	252.315	105.109	42.090	1.00	77.14	SS
ATOM	4430	CZ	PHE	10	247.864	113.201	34.124	1.00	63.72	SS19	ATOM	4483	CA	GLU	17	252.177	104.533	43.419	1.00	77.14	SS
ATOM	4431	C	PHE	10	252.351	111.057	32.939	1.00	73.06	SS19	ATOM	4484	CB	GLU	17	250.960	105.096	44.151	1.00135	.93	SS
ATOM	4432	O	PHE	10	252.346	110.196	32.052	1.00	73.06	SS19	ATOM	4485	CG	GLU	17	250.906	106.605	44.264	1.00135	.93	SS
ATOM	4433	N	VAL	11	252.038	110.820	34.211	1.00	79.71	SS19	ATOM	4486	CD	GLU	17	249.880	107.074	45.262	1.00135	.93	SS
ATOM	4434	CA	VAL	11	251.649	109.507	34.700	1.00	79.71	SS19	ATOM	4487	OE1	GLU	17	248.797	106.453	45.349	1.00135	.93	SS
ATOM	4435	CB	VAL	11	252.832	108.760	35.345	1.00	59.52	SS19	ATOM	4488	OE2	GLU	17	250.155	108.067	45.970	1.00135	.93	SS
ATOM	4436	CG1	VAL	11	252.416	107.332	35.673	1.00	59.52	SS19	ATOM	4489	C	GLU	17	251.978	103.041	43.189	1.00	77.14	SS
ATOM	4437	CG2	VAL	11	254.038	108.777	34.411	1.00	59.52	SS19	ATOM	4490	O	GLU	17	252.879	102.243	43.443	1.00	77.14	SS
ATOM	4438	C	VAL	11	250.578	109.725	35.759	1.00	79.71	SS19	ATOM	4491	N	LVS	18	250.804	102.687	42.671	1.00	93.26	SS
ATOM	4439	O	VAL	11	250.738	110.570	36.646	1.00	79.71	SS19	ATOM	4492	CA	LVS	18	250.448	101.301	42.390	1.00	93.26	SS
ATOM	4440	N	ASP	12	249.482	108.981	35.656	1.00101	.36	SS19	ATOM	4493	CB	LVS	18	249.436	101.243	41.243	1.00129	.13	SS
ATOM	4441	CA	ASP	12	248.397	109.108	36.619	1.00101	.36	SS19	ATOM	4494	CG	LVS	18	248.838	99.864	40.998	1.00129	.13	SS
ATOM	4442	CB	ASP	12	247.242	108.170	36.265	1.00157	.17	SS19	ATOM	4495	CD	LVS	18	247.920	99.433	42.140	1.00129	.13	SS
ATOM	4443	CG	ASP	12	246.629	108.489	34.918	1.00157	.17	SS19	ATOM	4496	CE	LVS	18	247.269	98.079	41.850	1.00129	.13	SS
ATOM	4444	OD1	ASP	12	247.264	109.054	33.887	1.00157	.17	SS19	ATOM	4497	NZ	LVS	18	246.380	97.607	42.955	1.00129	.13	SS
ATOM	4445	OD2	ASP	12	245.515	109.054	34.890	1.00157	.17	SS19	ATOM	4498	C	LVS	18	251.675	100.470	42.034	1.00	93.26	SS
ATOM	4446	C	ASP	12	248.917	108.788	38.008	1.00101	.36	SS19	ATOM	4499	O	LVS	18	251.786	99.316	42.445	1.00	93.26	SS
ATOM	4447	O	ASP	12	249.230	107.640	38.323	1.00101	.36	SS19	ATOM	4500	N	VAL	19	252.592	101.061	41.272	1.00124	.79	SS
ATOM	4448	N	ASP	13	249.018	109.824	38.829	1.00119	.80	SS19	ATOM	4501	CA	VAL	19	253.818	100.374	40.870	1.00124	.79	SS
ATOM	4449	CA	ASP	13	249.507	109.679	40.186	1.00119	.80	SS19	ATOM	4502	CB	VAL	19	253.886	100.179	39.336	1.00138	.83	SS
ATOM	4450	CB	ASP	13	249.530	111.043	40.874	1.00164	.11	SS19	ATOM	4503	CG1	VAL	19	252.230	99.586	38.945	1.00138	.83	SS
ATOM	4451	CG	ASP	13	250.366	111.042	42.132	1.00164	.11	SS19	ATOM	4504	CG2	VAL	19	252.763	99.251	38.882	1.00138	.83	SS
ATOM	4452	OD1	ASP	13	251.559	110.677	42.047	1.00164	.11	SS19	ATOM	4505	C	VAL	19	255.057	101.131	41.342	1.00124	.79	SS
ATOM	4453	OD2	ASP	13	249.834	111.407	43.203	1.00164	.11	SS19	ATOM	4506	O	VAL	19	255.710	101.848	40.582	1.00124	.79	SS
ATOM	4454	C	ASP	13	248.616	108.710	40.949	1.00119	.80	SS19	ATOM	4507	N	LEU	20	255.349	100.953	42.622	1.00134	.21	SS
ATOM	4455	O	ASP	13	247.758	109.115	41.726	1.00119	.80	SS19	ATOM	4508	CA	LEU	20	256.482	101.550	43.316	1.00134	.21	SS
ATOM	4456	N	HIS	14	248.824	107.425	40.695	1.00	90.73	SS19	ATOM	4509	CB	LEU	20	256.255	103.043	43.579	1.00	79.54	SS
ATOM	4457	CA	HIS	14	248.076	106.347	41.330	1.00	90.73	SS19	ATOM	4510	CG	LEU	20	256.613	104.002	42.444	1.00	79.54	SS
ATOM	4458	CB	HIS	14	246.552	106.538	41.136	1.00112	.42	SS19	ATOM	4511	CD1	LEU	20	256.224	105.412	42.822	1.00	79.54	SS
ATOM	4459	CG	HIS	14	245.953	105.795	39.975	1.00112	.42	SS19	ATOM	4512	CD2	LEU	20	258.101	103.916	42.158	1.00	79.54	SS
ATOM	4460	CD2	HIS	14	246.076	104.507	39.571	1.00112	.42	SS19	ATOM	4513	C	LEU	20	256.440	100.781	44.617	1.00134	.21	SS
ATOM	4461	ND1	HIS	14	244.025	106.371	39.134	1.00112	.42	SS19	ATOM	4514	O	LEU	20	257.467	100.484	45.227	1.00134	.21	SS
ATOM	4462	CE1	HIS	14	244.604	105.472	38.262	1.00112	.42	SS19	ATOM	4515	N	GLU	21	255.215	100.464	45.022	1.00127	.65	SS
ATOM	4463	NE2	HIS	14	245.225	104.332	38.506	1.00112	.42	SS19	ATOM	4516	CA	GLU	21	254.969	99.690	46.221	1.00127	.65	SS
ATOM	4464	C	HIS	14	248.603	105.088	40.660	1.00	90.73	SS19	ATOM	4517	CB	GLU	21	253.471	99.653	46.531	1.00160	.02	SS
ATOM	4465	O	HIS	14	248.485	103.978	41.183	1.00	90.73	SS19	ATOM	4518	CD	GLU	21	252.842	100.935	46.755	1.00160	.02	SS
ATOM	4466	N	LEU	15	249.190	105.288	39.485	1.00	82.91	SS19	ATOM	4519	CG	GLU	21	251.356	100.935	47.071	1.00160	.02	SS
ATOM	4467	CA	LEU	15	249.798	104.208	38.728	1.00	82.91	SS19	ATOM	4520	OE1	GLU	21	250.600	100.401	46.231	1.00160	.02	SS
ATOM	4468	CB	LEU	15	249.951	104.598	37.260	1.00	94.64	SS19	ATOM	4521	OE2	GLU	21	250.947	101.403	48.156	1.00127	.65	SS
ATOM	4469	CG	LEU	15	249.021	104.005	36.209	1.00	94.64	SS19	ATOM	4522	C	GLU	21	255.468	98.297	45.867	1.00127	.65	SS
ATOM	4470	CD1	LEU	15	249.435	104.546	34.857	1.00	94.64	SS19	ATOM	4523	O	GLU	21	255.875	97.523	46.737	1.00127	.65	SS

ATOM	4524	N	LEU	22	255.433	97.990	44.572	1.00120.77	SS19	ATOM	4577	CA	ARG	29	251.614	89.476	38.484	1.00189.36	SS
ATOM	4525	CA	LEU	22	255.898	96.703	44.072	1.00120.77	SS19	ATOM	4578	CB	ARG	29	250.945	88.233	39.086	1.00181.64	SS
ATOM	4526	CB	LEU	22	255.114	96.293	42.826	1.00137.18	SS19	ATOM	4579	CG	ARG	29	250.520	87.181	38.063	1.00181.64	SS
ATOM	4527	CG	LEU	22	253.597	96.191	42.978	1.00137.18	SS19	ATOM	4580	CD	ARG	29	250.316	85.816	38.719	1.00181.64	SS
ATOM	4528	CD	LEU	22	253.008	95.662	41.682	1.00137.18	SS19	ATOM	4581	NE	ARG	29	251.571	84.217	39.246	1.00181.64	SS
ATOM	4529	CD2	LEU	22	253.240	95.277	44.145	1.00137.18	SS19	ATOM	4582	CZ	ARG	29	251.685	85.118	39.886	1.00181.64	SS
ATOM	4530	C	LEU	22	257.369	96.867	43.727	1.00120.77	SS19	ATOM	4583	NH1	ARG	29	250.614	83.358	40.084	1.00181.64	SS
ATOM	4531	O	LEU	22	258.109	95.891	43.598	1.00120.77	SS19	ATOM	4584	NH2	ARG	29	252.870	83.717	40.328	1.00181.64	SS
ATOM	4532	N	ASN	23	257.776	98.121	43.571	1.00122.99	SS19	ATOM	4585	C	ARG	29	250.667	90.161	37.499	1.00189.36	SS
ATOM	4533	CA	ASN	23	259.159	98.453	43.270	1.00122.99	SS19	ATOM	4586	O	ARG	29	250.643	89.820	36.315	1.00189.36	SS
ATOM	4534	CB	ASN	23	259.223	99.668	42.345	1.00119.45	SS19	ATOM	4587	N	LEU	30	249.890	91.121	37.995	1.0096.35	SS
ATOM	4535	CG	ASN	23	258.862	99.326	40.923	1.00119.45	SS19	ATOM	4588	CA	LEU	30	248.949	91.870	37.165	1.0096.35	SS
ATOM	4536	CD1	ASN	23	257.803	98.760	40.660	1.00119.45	SS19	ATOM	4589	CB	LEU	30	247.717	91.022	36.820	1.00113.59	SS
ATOM	4537	NH2	ASN	23	259.745	99.664	39.993	1.00119.45	SS19	ATOM	4590	CG	LEU	30	247.840	90.023	35.660	1.00113.59	SS
ATOM	4538	C	ASN	23	259.871	98.752	44.583	1.00122.99	SS19	ATOM	4591	CD1	LEU	30	246.554	89.225	35.516	1.00113.59	SS
ATOM	4539	O	ASN	23	260.688	99.665	44.678	1.00122.99	SS19	ATOM	4592	CD2	LEU	30	248.137	90.766	34.373	1.00113.59	SS
ATOM	4540	N	ALA	24	259.527	97.976	45.600	1.00130.59	SS19	ATOM	4593	C	LEU	30	248.512	93.139	37.877	1.0096.35	SS
ATOM	4541	CA	ALA	24	260.112	98.101	46.925	1.00130.59	SS19	ATOM	4594	O	LEU	30	248.540	93.211	39.099	1.0096.35	SS
ATOM	4542	CB	ALA	24	259.232	98.944	47.809	1.00130.59	SS19	ATOM	4595	N	ILE	31	248.114	94.138	37.100	1.00107.96	SS
ATOM	4543	C	ALA	24	260.149	96.675	47.430	1.00130.59	SS19	ATOM	4596	CA	ILE	31	247.673	95.417	37.641	1.00107.96	SS
ATOM	4544	O	ALA	24	260.661	96.381	48.511	1.00130.59	SS19	ATOM	4597	CB	ILE	31	248.857	96.405	37.780	1.0081.31	SS
ATOM	4545	N	LYS	25	259.575	95.798	46.616	1.00113.73	SS19	ATOM	4598	CG2	ILE	31	248.349	97.803	38.112	1.0081.31	SS
ATOM	4546	CA	LYS	25	259.512	94.377	46.895	1.00113.73	SS19	ATOM	4599	CG1	ILE	31	249.817	95.910	38.860	1.0081.31	SS
ATOM	4547	CB	LYS	25	258.158	94.011	47.503	1.00127.83	SS19	ATOM	4600	CD1	ILE	31	249.168	95.736	40.235	1.0081.31	SS
ATOM	4548	CG	LYS	25	258.090	92.580	48.007	1.00127.83	SS19	ATOM	4601	C	ILE	31	246.638	96.014	36.698	1.00107.96	SS
ATOM	4549	CD	LYS	25	256.656	92.131	48.242	1.00127.83	SS19	ATOM	4602	O	ILE	31	246.898	96.171	35.504	1.00107.96	SS
ATOM	4550	CE	LYS	25	256.605	90.638	48.528	1.00127.83	SS19	ATOM	4603	N	LYS	32	245.471	96.350	37.238	1.00125.23	SS
ATOM	4551	NZ	LYS	25	255.207	90.148	48.665	1.00127.83	SS19	ATOM	4604	CA	LYS	32	244.390	96.919	36.444	1.00125.23	SS
ATOM	4552	C	LYS	25	250.696	93.684	45.547	1.00113.73	SS19	ATOM	4605	CB	LYS	32	243.117	97.024	37.291	1.00103.42	SS
ATOM	4553	O	LYS	25	260.569	94.071	44.768	1.00113.73	SS19	ATOM	4606	CG	LYS	32	242.569	95.687	37.782	1.00103.42	SS
ATOM	4554	N	GLY	26	258.867	92.685	45.259	1.00115.53	SS19	ATOM	4607	CD	LYS	32	242.280	94.745	36.622	1.00103.42	SS
ATOM	4555	CA	GLY	26	258.996	91.971	44.003	1.00115.53	SS19	ATOM	4608	CE	LYS	32	241.675	93.436	37.099	1.00103.42	SS
ATOM	4556	C	GLY	26	257.794	92.036	43.082	1.00115.53	SS19	ATOM	4609	NZ	LYS	32	241.467	92.491	35.962	1.00103.42	SS
ATOM	4557	O	GLY	26	256.987	91.107	43.057	1.00115.53	SS19	ATOM	4610	C	LYS	32	244.728	98.289	35.852	1.00125.23	SS
ATOM	4558	N	GLU	27	257.683	93.128	42.324	1.00140.78	SS19	ATOM	4611	O	LYS	32	245.643	98.416	35.038	1.00125.23	SS
ATOM	4559	CA	GLU	27	256.593	93.335	41.362	1.00140.78	SS19	ATOM	4612	N	THR	33	243.970	99.299	36.271	1.0096.07	SS
ATOM	4560	CB	GLU	27	256.943	92.683	40.020	1.00124.78	SS19	ATOM	4613	CA	THR	33	244.110	100.688	35.829	1.0096.07	SS
ATOM	4561	CG	GLU	27	258.368	92.893	39.541	1.00124.78	SS19	ATOM	4614	CB	THR	33	245.595	101.102	35.600	1.0083.90	SS
ATOM	4562	CD	GLU	27	258.694	92.011	38.346	1.00124.78	SS19	ATOM	4615	OG1	THR	33	245.762	102.478	35.961	1.0083.90	SS
ATOM	4563	OE1	GLU	27	258.359	90.805	38.395	1.00124.78	SS19	ATOM	4616	CG2	THR	33	245.994	100.943	34.139	1.0083.90	SS
ATOM	4564	OE2	GLU	27	259.285	92.514	37.366	1.00124.78	SS19	ATOM	4617	C	THR	33	243.312	100.959	34.560	1.0096.07	SS
ATOM	4565	C	GLU	27	255.266	92.754	41.848	1.00140.78	SS19	ATOM	4618	O	THR	33	243.300	100.157	33.624	1.0096.07	SS
ATOM	4566	O	GLU	27	254.756	93.136	42.902	1.00140.78	SS19	ATOM	4619	N	TRP	34	242.628	102.095	34.556	1.00115.53	SS
ATOM	4567	N	LYS	28	254.718	91.835	41.054	1.0099.15	SS19	ATOM	4620	CA	TRP	34	241.822	102.517	33.423	1.00115.53	SS
ATOM	4568	CA	LYS	28	253.466	91.151	41.364	1.0099.15	SS19	ATOM	4621	CB	TRP	34	240.498	103.110	33.905	1.0091.56	SS
ATOM	4569	CB	LYS	28	252.304	92.140	41.512	1.00139.17	SS19	ATOM	4622	CG	TRP	34	239.424	102.104	34.152	1.0091.56	SS
ATOM	4570	CG	LYS	28	251.873	92.351	42.962	1.00139.17	SS19	ATOM	4623	CD2	TRP	34	239.421	101.074	35.145	1.0091.56	SS
ATOM	4571	CD	LYS	28	250.445	92.872	43.067	1.00139.17	SS19	ATOM	4624	CE2	TRP	34	238.213	100.682	35.002	1.0091.56	SS
ATOM	4572	CE	LYS	28	249.435	91.822	42.608	1.00139.17	SS19	ATOM	4625	CE3	TRP	34	240.321	100.362	33.469	1.0091.56	SS
ATOM	4573	NZ	LYS	28	248.026	92.294	42.757	1.00139.17	SS19	ATOM	4626	CD1	TRP	34	238.255	101.981	33.469	1.0091.56	SS
ATOM	4574	C	LYS	28	253.125	90.129	40.288	1.0099.15	SS19	ATOM	4627	NE1	TRP	34	237.520	100.937	33.972	1.0091.56	SS
ATOM	4575	O	LYS	28	253.826	89.128	40.137	1.0099.15	SS19	ATOM	4628	CZ2	TRP	34	237.880	99.280	35.817	1.0091.56	SS
ATOM	4576	N	ARG	29	252.045	90.380	39.549	1.00189.36	SS19	ATOM	4629	CZ3	TRP	34	239.989	99.603	36.955	1.0091.56	SS

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ATOM	4630	CH2 TRP	34	238.778	98.915	36.786	1.00	91.56	SS19	ATOM	4683	CA VAL	41	258.064	105.227	32.508	1.00	83.11	SS
ATOM	4631	C TRP	34	242.588	103.582	32.666	1.00115	.53	SS19	ATOM	4684	CB VAL	41	257.869	106.109	33.760	1.00	64.07	SS
ATOM	4632	O TRP	34	242.543	103.650	31.440	1.00115	.53	SS19	ATOM	4685	CG1 VAL	41	257.109	107.381	33.375	1.00	64.07	SS
ATOM	4633	N SER	35	243.297	104.410	33.423	1.00108	.95	SS19	ATOM	4686	CG2 VAL	41	257.086	105.348	34.828	1.00	64.07	SS
ATOM	4634	CA SER	35	244.075	105.510	32.878	1.00108	.95	SS19	ATOM	4687	C VAL	41	258.927	104.001	32.828	1.00	83.11	SS
ATOM	4635	CB SER	35	245.180	105.902	33.856	1.00	87.50	SS19	ATOM	4688	O VAL	41	258.403	102.910	33.072	1.00	83.11	SS
ATOM	4636	OG SER	35	246.080	104.830	34.042	1.00	87.50	SS19	ATOM	4689	N PRO	42	260.264	104.165	32.822	1.00	74.45	SS
ATOM	4637	C SER	35	244.690	105.255	31.512	1.00108	.95	SS19	ATOM	4690	CD PRO	42	260.947	105.467	32.712	1.00	74.45	SS
ATOM	4638	O SER	35	244.109	105.615	30.488	1.00108	.95	SS19	ATOM	4691	CA PRO	42	261.239	103.102	33.099	1.00140	.71	SS
ATOM	4639	N ARG	36	245.873	104.645	31.505	1.00	92.08	SS19	ATOM	4692	CB PRO	42	262.449	103.877	33.581	1.00	77.45	SS
ATOM	4640	CA ARG	36	246.609	104.371	30.271	1.00	92.08	SS19	ATOM	4693	CG PRO	42	262.418	105.064	32.685	1.00	77.45	SS
ATOM	4641	CB ARG	36	245.987	103.194	29.515	1.00115	.29	SS19	ATOM	4694	C PRO	42	260.787	102.047	34.098	1.00140	.71	SS
ATOM	4642	CG ARG	36	245.303	103.546	28.221	1.00115	.29	SS19	ATOM	4695	O PRO	42	260.594	100.889	33.732	1.00140	.71	SS
ATOM	4643	CD ARG	36	243.886	103.957	28.466	1.00115	.29	SS19	ATOM	4696	N GLU	43	260.638	102.447	35.358	1.00	91.84	SS
ATOM	4644	NE ARG	36	243.304	104.439	27.255	1.00115	.29	SS19	ATOM	4697	CA GLU	43	260.189	101.536	36.408	1.00	91.84	SS
ATOM	4645	C2 ARG	36	242.004	104.632	27.052	1.00115	.29	SS19	ATOM	4698	CB GLU	43	259.503	102.313	37.532	1.00104	.83	SS
ATOM	4646	NH1 ARG	36	241.143	104.261	27.987	1.00115	.29	SS19	ATOM	4699	CG GLU	43	258.859	103.598	37.070	1.00104	.83	SS
ATOM	4647	NH2 ARG	36	241.571	105.095	25.892	1.00115	.29	SS19	ATOM	4700	CD GLU	43	259.890	104.616	36.625	1.00104	.83	SS
ATOM	4648	C ARG	36	246.650	105.635	29.404	1.00	92.08	SS19	ATOM	4701	OE1 GLU	43	260.587	105.171	37.500	1.00104	.83	SS
ATOM	4649	O ARG	36	247.098	105.630	28.256	1.00	92.08	SS19	ATOM	4702	OE2 GLU	43	259.215	100.541	35.807	1.00	91.84	SS
ATOM	4650	N ARG	37	246.164	106.714	30.003	1.00	69.68	SS19	ATOM	4703	C GLU	43	259.416	99.328	35.881	1.00	91.84	SS
ATOM	4651	CA ARG	37	246.133	108.042	29.429	1.00	69.68	SS19	ATOM	4704	O GLU	43	258.157	101.059	35.199	1.00	93.24	SS
ATOM	4652	CB ARG	37	245.036	108.855	30.115	1.00174	.24	SS19	ATOM	4705	N MET	44	258.187	100.187	34.566	1.00	93.24	SS
ATOM	4653	CG ARG	37	243.956	109.378	29.208	1.00174	.24	SS19	ATOM	4706	CA MET	44	256.213	100.995	33.656	1.00	90.21	SS
ATOM	4654	CD ARG	37	244.443	110.568	28.416	1.00174	.24	SS19	ATOM	4707	CB MET	44	255.208	101.842	34.458	1.00	90.21	SS
ATOM	4655	NE ARG	37	243.394	111.080	27.544	1.00174	.24	SS19	ATOM	4708	CG MET	44	254.235	102.914	33.356	1.00	90.21	SS
ATOM	4656	C2 ARG	37	243.528	112.142	26.759	1.00174	.24	SS19	ATOM	4709	SD MET	44	254.019	104.394	34.386	1.00	90.21	SS
ATOM	4657	NH1 ARG	37	244.674	112.813	26.738	1.00174	.24	SS19	ATOM	4710	CE MET	44	257.980	99.229	32.751	1.00	93.24	SS
ATOM	4658	NH2 ARG	37	242.519	112.527	25.988	1.00174	.24	SS19	ATOM	4711	C MET	44	258.649	99.653	32.751	1.00	93.24	SS
ATOM	4659	C ARG	37	247.486	108.560	29.879	1.00	69.68	SS19	ATOM	4712	O MET	44	257.931	97.947	34.015	1.00	83.68	SS
ATOM	4660	O ARG	37	247.844	109.713	29.645	1.00	69.68	SS19	ATOM	4713	N VAL	45	258.601	96.902	33.246	1.00	83.68	SS
ATOM	4661	N SER	38	248.217	107.667	30.546	1.00	80.71	SS19	ATOM	4714	CA VAL	45	260.142	96.993	33.302	1.00	77.43	SS
ATOM	4662	CA SER	38	249.528	107.948	31.118	1.00	80.71	SS19	ATOM	4715	CB VAL	45	260.742	95.678	32.811	1.00	77.43	SS
ATOM	4663	CB SER	38	249.574	107.423	32.553	1.00	90.39	SS19	ATOM	4716	CG1 VAL	45	260.649	98.118	32.404	1.00	77.43	SS
ATOM	4664	OG SER	38	249.158	106.071	32.598	1.00	90.39	SS19	ATOM	4717	CG2 VAL	45	258.161	95.594	33.877	1.00	83.68	SS
ATOM	4665	C SER	38	250.715	107.387	30.349	1.00	80.71	SS19	ATOM	4718	C VAL	45	257.797	95.578	35.047	1.00	83.68	SS
ATOM	4666	O SER	38	251.848	108.066	30.496	1.00	74.54	SS19	ATOM	4719	O VAL	45	258.176	94.508	33.108	1.00118	.85	SS
ATOM	4667	N THR	39	253.083	107.694	29.825	1.00	74.54	SS19	ATOM	4720	N GLY	46	257.757	93.224	33.641	1.00118	.85	SS
ATOM	4668	CA THR	39	254.098	108.837	29.831	1.00	61.98	SS19	ATOM	4721	CA GLY	46	255.520	92.381	33.420	1.00118	.85	SS
ATOM	4669	CB THR	39	253.525	110.016	29.245	1.00	61.98	SS19	ATOM	4722	C GLY	46	255.989	92.346	33.839	1.00124	.67	SS
ATOM	4670	OG1 THR	39	253.346	108.417	29.070	1.00	61.98	SS19	ATOM	4723	O GLY	46	254.660	94.567	35.382	1.00124	.67	SS
ATOM	4671	CG2 THR	39	253.764	106.550	30.529	1.00	74.54	SS19	ATOM	4724	N HIS	47	254.554	95.977	35.947	1.00119	.99	SS
ATOM	4672	C THR	39	253.800	106.511	31.759	1.00	74.54	SS19	ATOM	4725	CA HIS	47	255.488	96.250	37.267	1.00119	.99	SS
ATOM	4673	O THR	39	254.317	105.622	29.757	1.00	97.77	SS19	ATOM	4726	CB HIS	47	256.391	97.240	37.267	1.00119	.99	SS
ATOM	4674	N ILE	40	255.031	104.511	30.358	1.00	97.77	SS19	ATOM	4727	CG HIS	47	255.515	95.482	38.223	1.00119	.99	SS
ATOM	4675	CA ILE	40	255.252	103.341	29.386	1.00	62.34	SS19	ATOM	4728	CD2 HIS	47	256.391	95.992	39.070	1.00119	.99	SS
ATOM	4676	CB ILE	40	256.153	102.308	30.043	1.00	62.34	SS19	ATOM	4729	ND1 HIS	47	256.936	97.060	38.515	1.00119	.99	SS
ATOM	4677	CG2 ILE	40	254.906	102.722	28.987	1.00	62.34	SS19	ATOM	4730	CE1 HIS	47	253.563	94.404	33.328	1.00124	.67	SS
ATOM	4678	CG1 ILE	40	254.009	101.326	28.374	1.00	62.34	SS19	ATOM	4731	NE2 HIS	47	253.212	95.374	33.665	1.00124	.67	SS
ATOM	4679	CD1 ILE	40	256.394	105.040	30.757	1.00	97.77	SS19	ATOM	4732	C HIS	47	253.078	93.188	34.167	1.00	87.83	SS
ATOM	4680	C ILE	40	257.080	105.678	29.955	1.00	97.77	SS19	ATOM	4733	O HIS	47	252.026	92.972	33.191	1.00	87.83	SS
ATOM	4681	O ILE	40	256.776	104.782	32.001	1.00	83.11	SS19	ATOM	4734	N THR	48						SS
ATOM	4682	N VAL	41						SS19	ATOM	4735	CA THR	48						SS

ATOM	4736	CB	THR	48	251.573	91.501	33.165	1.00117.95	SS19	ATOM	4789	CD	LYS	55	233.949	94.261	25.096	1.0079.12	SS
ATOM	4737	OG1	THR	48	252.719	90.646	33.064	1.00117.95	SS19	ATOM	4790	CE	LYS	55	233.107	93.016	25.163	1.0079.12	SS
ATOM	4738	CG2	THR	48	250.667	91.248	31.970	1.00117.95	SS19	ATOM	4791	NZ	LYS	55	232.985	92.416	23.808	1.0079.12	SS
ATOM	4739	C	THR	48	250.869	93.848	33.663	1.0087.83	SS19	ATOM	4792	C	LYS	55	235.937	95.641	28.617	1.0064.61	SS
ATOM	4740	O	THR	48	250.166	93.486	34.606	1.0087.83	SS19	ATOM	4793	O	LYS	55	235.280	95.056	29.471	1.0064.61	SS
ATOM	4741	N	ILE	49	250.692	95.007	33.027	1.00112.35	SS19	ATOM	4794	N	GLN	56	237.217	95.370	28.389	1.0088.51	SS
ATOM	4742	CA	ILE	49	249.621	95.933	33.398	1.00112.35	SS19	ATOM	4795	CA	GLN	56	237.931	94.355	29.167	1.0088.51	SS
ATOM	4743	CB	ILE	49	250.084	97.395	33.343	1.0072.33	SS19	ATOM	4796	CB	GLN	56	238.232	93.119	28.305	1.00119.64	SS
ATOM	4744	CG2	ILE	49	248.923	98.311	33.707	1.0072.33	SS19	ATOM	4797	CD	GLN	56	237.158	92.723	27.295	1.00119.64	SS
ATOM	4745	CG1	ILE	49	251.273	97.604	34.282	1.0072.33	SS19	ATOM	4798	CD	GLN	56	235.857	92.267	27.936	1.00119.64	SS
ATOM	4746	CD1	ILE	49	251.776	99.029	34.316	1.0072.33	SS19	ATOM	4799	OEI	GLN	56	234.974	91.731	27.261	1.00119.64	SS
ATOM	4747	C	ILE	49	248.400	95.812	32.494	1.00112.35	SS19	ATOM	4800	NE2	GLN	56	235.728	92.482	29.241	1.00105.35	SS
ATOM	4748	O	ILE	49	248.490	96.037	31.289	1.00112.35	SS19	ATOM	4801	C	GLN	56	239.257	94.935	29.658	1.0088.51	SS
ATOM	4749	N	ALA	50	247.269	95.471	33.092	1.0071.30	SS19	ATOM	4802	O	GLN	56	239.547	96.107	29.455	1.0088.51	SS
ATOM	4750	CA	ALA	50	246.027	95.315	32.346	1.0071.30	SS19	ATOM	4803	N	HIS	57	240.058	94.108	30.313	1.00105.35	SS
ATOM	4751	CB	ALA	50	245.079	94.372	33.078	1.0053.28	SS19	ATOM	4804	CA	HIS	57	241.370	94.534	30.785	1.00105.35	SS
ATOM	4752	C	ALA	50	245.365	96.665	32.149	1.0071.30	SS19	ATOM	4805	CB	HIS	57	241.477	94.357	32.305	1.0083.17	SS
ATOM	4753	O	ALA	50	244.903	97.296	33.102	1.0071.30	SS19	ATOM	4806	CG	HIS	57	240.831	95.459	33.090	1.0083.17	SS
ATOM	4754	N	VAL	51	245.332	97.101	30.897	1.0092.49	SS19	ATOM	4807	CD2	HIS	57	239.628	95.528	33.708	1.0083.17	SS
ATOM	4755	CA	VAL	51	244.728	98.371	30.537	1.0092.49	SS19	ATOM	4808	NDI	HIS	57	241.433	96.685	33.288	1.0083.17	SS
ATOM	4756	CB	VAL	51	245.539	99.054	29.433	1.0086.33	SS19	ATOM	4809	CE1	HIS	57	240.631	97.461	33.996	1.0083.17	SS
ATOM	4757	CG1	VAL	51	244.850	100.329	29.006	1.0086.33	SS19	ATOM	4810	NE2	HIS	57	239.529	96.783	34.263	1.0083.17	SS
ATOM	4758	CG2	VAL	51	246.949	99.336	29.927	1.0086.33	SS19	ATOM	4811	C	HIS	57	242.349	93.614	30.063	1.00105.35	SS
ATOM	4759	C	VAL	51	243.308	98.122	30.041	1.0092.49	SS19	ATOM	4812	O	HIS	57	242.184	92.392	30.089	1.00105.35	SS
ATOM	4760	O	VAL	51	243.080	97.261	29.187	1.0092.49	SS19	ATOM	4813	N	VAL	58	243.348	94.184	29.396	1.00131.05	SS
ATOM	4761	N	TYR	52	242.353	98.871	30.581	1.0087.76	SS19	ATOM	4814	CA	VAL	58	244.308	93.354	28.674	1.00131.05	SS
ATOM	4762	CA	TYR	52	240.964	98.697	30.186	1.0087.76	SS19	ATOM	4815	CB	VAL	58	244.388	93.729	27.178	1.0067.98	SS
ATOM	4763	CB	TYR	52	240.050	99.665	30.945	1.0070.91	SS19	ATOM	4816	CG1	VAL	58	243.283	93.018	26.418	1.0067.98	SS
ATOM	4764	CG	TYR	52	238.577	99.281	30.917	1.0070.91	SS19	ATOM	4817	CG2	VAL	58	244.265	95.232	27.007	1.0067.98	SS
ATOM	4765	CD1	TYR	52	238.174	97.974	31.213	1.0070.91	SS19	ATOM	4818	C	VAL	58	245.721	93.341	29.226	1.00131.05	SS
ATOM	4766	CE1	TYR	52	236.828	97.621	31.255	1.0070.91	SS19	ATOM	4819	O	VAL	58	246.333	94.388	29.444	1.00131.05	SS
ATOM	4767	CD2	TYR	52	237.586	100.230	30.656	1.0070.91	SS19	ATOM	4820	N	PRO	59	246.257	92.134	29.456	1.0093.39	SS
ATOM	4768	CE2	TYR	52	236.233	99.888	30.701	1.0070.91	SS19	ATOM	4821	CD	PRO	59	245.664	90.836	29.086	1.0088.53	SS
ATOM	4769	CG	TYR	52	235.864	98.580	31.002	1.0070.91	SS19	ATOM	4822	CA	PRO	59	247.611	91.956	29.980	1.0093.39	SS
ATOM	4770	OH	TYR	52	234.535	98.227	31.070	1.0070.91	SS19	ATOM	4823	CB	PRO	59	247.741	90.438	30.076	1.0088.53	SS
ATOM	4771	C	TYR	52	240.810	98.924	28.695	1.0087.76	SS19	ATOM	4824	CG	PRO	59	246.883	89.959	28.937	1.0093.39	SS
ATOM	4772	O	TYR	52	241.236	99.948	28.172	1.0087.76	SS19	ATOM	4825	C	PRO	59	248.590	92.562	28.984	1.0093.39	SS
ATOM	4773	N	ASN	53	240.201	97.953	28.023	1.0083.61	SS19	ATOM	4826	O	PRO	59	248.798	92.020	27.896	1.0093.39	SS
ATOM	4774	CA	ASN	53	239.960	98.010	26.591	1.0083.61	SS19	ATOM	4827	N	VAL	60	249.194	93.683	29.351	1.00105.55	SS
ATOM	4775	CB	ASN	53	239.586	96.617	26.088	1.00106.47	SS19	ATOM	4828	CA	VAL	60	250.117	94.339	28.447	1.00105.55	SS
ATOM	4776	CG	ASN	53	239.579	96.520	24.581	1.00106.47	SS19	ATOM	4829	CB	VAL	60	249.980	95.861	28.563	1.0098.60	SS
ATOM	4777	OD1	ASN	53	239.188	95.495	24.019	1.00106.47	SS19	ATOM	4830	CG1	VAL	60	248.558	96.262	28.212	1.0098.60	SS
ATOM	4778	ND2	ASN	53	240.020	97.582	23.912	1.00106.47	SS19	ATOM	4831	C	VAL	60	251.483	93.937	28.591	1.00105.55	SS
ATOM	4779	C	ASN	53	238.796	98.962	26.374	1.0083.61	SS19	ATOM	4832	O	VAL	60	252.192	93.491	27.617	1.00105.55	SS
ATOM	4780	O	ASN	53	238.563	99.444	25.270	1.0083.61	SS19	ATOM	4833	O	VAL	60	252.144	94.082	29.789	1.0082.10	SS
ATOM	4781	N	GLY	54	238.090	99.248	27.463	1.0065.74	SS19	ATOM	4834	N	TYR	61	253.552	93.740	30.039	1.0082.10	SS
ATOM	4782	CA	GLY	54	236.916	100.103	27.416	1.0065.74	SS19	ATOM	4835	CB	TYR	61	253.902	92.368	29.434	1.0098.57	SS
ATOM	4783	C	GLY	54	235.792	99.112	27.639	1.0065.74	SS19	ATOM	4836	CB	TYR	61	255.277	91.823	29.800	1.0098.57	SS
ATOM	4784	O	GLY	54	234.632	99.463	27.874	1.0065.74	SS19	ATOM	4837	CG	TYR	61	255.463	90.453	30.024	1.0098.57	SS
ATOM	4785	N	LYS	55	236.189	97.844	27.578	1.0064.61	SS19	ATOM	4838	CD1	TYR	61	256.717	89.935	30.373	1.0098.57	SS
ATOM	4786	CA	LYS	55	235.295	96.716	27.749	1.0064.61	SS19	ATOM	4839	CE1	TYR	61	256.389	92.664	29.929	1.0098.57	SS
ATOM	4787	CB	LYS	55	234.949	96.124	26.385	1.0079.12	SS19	ATOM	4840	CD2	TYR	61	257.649	92.154	30.274	1.0098.57	SS
ATOM	4788	CG	LYS	55	234.080	94.891	26.454	1.0079.12	SS19	ATOM	4841	CE2	TYR	61					SS

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ATOM	4842	C2	TYR	61	257.802	90.790	30.496	1.00	98.57	SS19	ATOM	4895	C	GLY	68	254.179	105.722	26.191	1.00112.88	SS	
ATOM	4843	OH	TYR	61	259.027	90.276	30.853	1.00	98.57	SS19	ATOM	4896	O	GLY	68	254.145	105.160	27.281	1.00112.88	SS	
ATOM	4844	C	TYR	61	254.441	94.816	29.429	1.00	82.10	SS19	ATOM	4897	N	HIS	69	253.092	106.231	25.612	1.00	95.92	SS
ATOM	4845	O	TYR	61	254.788	94.763	28.249	1.00	82.10	SS19	ATOM	4898	CA	HIS	69	251.775	106.152	26.258	1.00	95.92	SS
ATOM	4846	N	ILE	62	254.815	95.790	30.245	1.00	78.24	SS19	ATOM	4899	CB	HIS	69	250.771	107.041	25.528	1.00105.63	SS	
ATOM	4847	CA	ILE	62	255.649	96.882	29.781	1.00	78.24	SS19	ATOM	4900	CG	HIS	69	250.900	108.494	25.861	1.00105.63	SS	
ATOM	4848	CB	ILE	62	255.533	98.071	30.761	1.00	77.16	SS19	ATOM	4901	CD2	HIS	69	251.303	109.550	25.115	1.00105.63	SS	
ATOM	4849	CG2	ILE	62	255.535	97.571	32.188	1.00	77.16	SS19	ATOM	4902	ND1	HIS	69	250.580	109.003	27.101	1.00105.63	SS	
ATOM	4850	CG1	ILE	62	256.644	99.073	30.490	1.00	77.16	SS19	ATOM	4903	CE1	HIS	69	250.776	110.310	27.104	1.00105.63	SS	
ATOM	4851	CD1	ILE	62	256.770	99.439	29.026	1.00	77.16	SS19	ATOM	4904	NE2	HIS	69	251.215	110.668	25.911	1.00105.63	SS	
ATOM	4852	C	ILE	62	257.119	96.478	29.547	1.00	78.24	SS19	ATOM	4905	C	HIS	69	251.261	104.712	26.317	1.00	95.92	SS
ATOM	4853	O	ILE	62	257.836	96.132	30.483	1.00103.97	SS19	ATOM	4906	O	HIS	69	251.804	103.832	25.648	1.00	95.92	SS	
ATOM	4854	N	THR	63	257.554	96.540	28.286	1.00103.97	SS19	ATOM	4907	N	LYS	70	250.220	104.461	27.110	1.00	70.79	SS	
ATOM	4855	CA	THR	63	258.915	96.154	27.894	1.00103.97	SS19	ATOM	4908	CA	LYS	70	249.700	103.097	27.240	1.00	70.79	SS	
ATOM	4856	CB	THR	63	258.884	95.001	26.875	1.00	97.04	SS19	ATOM	4909	CB	LYS	70	249.097	102.889	28.631	1.00	80.82	SS
ATOM	4857	OG1	THR	63	258.376	93.820	27.504	1.00	97.04	SS19	ATOM	4910	CG	LYS	70	249.942	103.479	29.748	1.00	80.82	SS
ATOM	4858	CG2	THR	63	260.277	94.723	26.337	1.00	97.04	SS19	ATOM	4911	CD	LYS	70	249.631	102.841	31.077	1.00	80.82	SS
ATOM	4859	C	THR	63	259.791	97.250	27.290	1.00103.97	SS19	ATOM	4912	CE	LYS	70	250.050	101.377	31.069	1.00	80.82	SS	
ATOM	4860	O	THR	63	259.514	97.747	26.203	1.00102.41	SS19	ATOM	4913	NZ	LYS	70	249.920	100.789	32.435	1.00	80.82	SS	
ATOM	4861	N	GLU	64	260.872	97.576	27.993	1.00102.41	SS19	ATOM	4914	C	LYS	70	248.688	102.701	26.173	1.00	70.79	SS	
ATOM	4862	CA	GLU	64	261.853	98.589	27.588	1.00102.41	SS19	ATOM	4915	O	LYS	70	247.725	101.975	26.446	1.00	70.79	SS	
ATOM	4863	CB	GLU	64	263.236	97.945	27.466	1.00131.97	SS19	ATOM	4916	N	LEU	71	248.922	103.199	24.957	1.00	98.12	SS	
ATOM	4864	CG	GLU	64	264.109	98.134	28.690	1.00131.97	SS19	ATOM	4917	CA	LEU	71	248.089	102.901	23.794	1.00	98.12	SS	
ATOM	4865	CD	GLU	64	264.188	99.587	29.104	1.00131.97	SS19	ATOM	4918	CB	LEU	71	248.523	103.736	22.584	1.00	84.99	SS	
ATOM	4866	OE1	GLU	64	264.320	100.446	28.207	1.00131.97	SS19	ATOM	4919	CG	LEU	71	250.018	103.810	22.231	1.00	84.99	SS	
ATOM	4867	OE2	GLU	64	264.119	99.868	30.320	1.00131.97	SS19	ATOM	4920	CD1	LEU	71	250.210	104.150	20.761	1.00	84.99	SS	
ATOM	4868	C	GLU	64	261.599	99.423	26.333	1.00102.41	SS19	ATOM	4921	CD2	LEU	71	250.691	104.858	23.086	1.00	84.99	SS	
ATOM	4869	O	GLU	64	261.201	100.586	26.427	1.00102.41	SS19	ATOM	4922	C	LEU	71	248.345	101.440	23.499	1.00	98.12	SS	
ATOM	4870	N	ASN	65	261.857	98.830	25.168	1.00	94.22	SS19	ATOM	4923	O	LEU	71	247.693	100.849	22.648	1.00	98.12	SS
ATOM	4871	CA	ASN	65	261.684	99.504	23.879	1.00	94.22	SS19	ATOM	4924	N	GLY	72	249.322	100.893	24.223	1.00118.88	SS	
ATOM	4872	CB	ASN	65	261.749	98.477	22.747	1.00123.45	SS19	ATOM	4925	CA	GLY	72	249.721	99.503	24.096	1.00118.88	SS		
ATOM	4873	CG	ASN	65	260.973	97.219	23.065	1.00123.45	SS19	ATOM	4926	C	GLY	72	248.737	98.705	23.282	1.00118.88	SS		
ATOM	4874	OD1	ASN	65	261.344	96.464	23.962	1.00123.45	SS19	ATOM	4927	O	GLY	72	248.682	98.857	22.864	1.00118.88	SS		
ATOM	4875	ND2	ASN	65	259.886	96.989	22.339	1.00123.45	SS19	ATOM	4928	N	GLU	73	247.954	97.864	23.946	1.00114.67	SS		
ATOM	4876	C	ASN	65	260.400	100.324	23.754	1.00	94.22	SS19	ATOM	4929	CA	GLU	73	247.086	95.597	23.253	1.00114.67	SS	
ATOM	4877	O	ASN	65	260.287	101.185	22.881	1.00	94.22	SS19	ATOM	4930	CB	GLU	73	246.965	97.053	23.253	1.00114.67	SS	
ATOM	4878	N	MET	66	259.438	100.055	24.629	1.00	97.81	SS19	ATOM	4931	CG	GLU	73	247.720	92.712	23.475	1.00170.57	SS	
ATOM	4879	CA	MET	66	258.171	100.772	24.621	1.00	97.81	SS19	ATOM	4932	CD	GLU	73	248.621	93.546	23.718	1.00170.57	SS	
ATOM	4880	CB	MET	66	257.002	99.786	24.516	1.00	75.60	SS19	ATOM	4933	OE1	GLU	73	247.921	92.712	23.475	1.00170.57	SS	
ATOM	4881	CG	MET	66	256.913	98.801	25.672	1.00	75.60	SS19	ATOM	4934	OE2	GLU	73	249.691	93.249	24.295	1.00170.57	SS	
ATOM	4882	SD	MET	66	255.747	97.447	25.419	1.00	75.60	SS19	ATOM	4935	C	GLU	73	245.565	97.621	23.482	1.00114.67	SS	
ATOM	4883	CE	MET	66	254.664	97.675	26.808	1.00	75.60	SS19	ATOM	4936	O	GLU	73	245.076	97.677	24.607	1.00114.67	SS	
ATOM	4884	C	MET	66	258.029	101.599	25.890	1.00	97.81	SS19	ATOM	4937	N	PHE	74	244.928	98.052	22.398	1.00	70.91	SS
ATOM	4885	O	MET	66	257.588	101.101	26.918	1.00	97.81	SS19	ATOM	4938	CA	PHE	74	243.609	98.656	22.487	1.00	70.91	SS
ATOM	4886	N	VAL	67	258.421	102.862	25.820	1.00	65.61	SS19	ATOM	4939	CB	PHE	74	243.748	100.169	22.490	1.00	92.94	SS
ATOM	4887	CA	VAL	67	258.312	103.749	26.970	1.00	65.61	SS19	ATOM	4940	CG	PHE	74	243.387	100.800	23.782	1.00	92.94	SS
ATOM	4888	CB	VAL	67	259.732	104.095	27.536	1.00	84.23	SS19	ATOM	4941	CD1	PHE	74	243.242	100.181	23.875	1.00	92.94	SS
ATOM	4889	CG1	VAL	67	259.630	104.968	28.776	1.00	84.23	SS19	ATOM	4942	CD2	PHE	74	243.158	100.019	24.907	1.00	92.94	SS
ATOM	4890	CG2	VAL	67	260.460	102.811	27.909	1.00	84.23	SS19	ATOM	4943	CE1	PHE	74	242.869	102.772	25.062	1.00	92.94	SS
ATOM	4891	C	VAL	67	257.533	105.007	26.541	1.00	65.61	SS19	ATOM	4944	CE2	PHE	74	242.784	100.605	26.103	1.00	92.94	SS
ATOM	4892	O	VAL	67	257.966	106.143	26.747	1.00	65.61	SS19	ATOM	4945	CZ	PHE	74	242.636	101.983	26.183	1.00	92.94	SS
ATOM	4893	N	GLY	68	256.372	104.771	25.925	1.00112.88	SS19	ATOM	4946	C	PHE	74	242.674	98.276	21.362	1.00	70.91	SS	
ATOM	4894	CA	GLY	68	255.502	105.843	25.464	1.00112.88	SS19	ATOM	4947	O	PHE	74	241.617	97.679	21.583	1.00	70.91	SS	

ATOM	4948	N	ALA	75	243.064	98.684	20.162	1.00200.66	SS19	ATOM	5001	CD	ARG	81	234.409	94.697	5.003	1.0068.77	SS
ATOM	4949	CA	ALA	75	242.328	98.439	18.927	1.00200.66	SS19	ATOM	5002	NE	ARG	81	233.760	95.676	5.868	1.0068.77	SS
ATOM	4950	CB	ALA	75	243.056	97.356	18.108	1.0091.29	SS19	ATOM	5003	CZ	ARG	81	234.300	96.842	6.207	1.0068.77	SS
ATOM	4951	O	ALA	75	240.841	98.083	19.031	1.00200.66	SS19	ATOM	5004	NH1	ARG	81	235.499	97.175	5.751	1.0068.77	SS
ATOM	4952	O	ALA	75	240.417	97.083	18.446	1.00200.66	SS19	ATOM	5005	NH2	ARG	81	233.645	97.677	6.999	1.0068.77	SS
ATOM	4953	N	PRO	76	240.029	98.879	19.769	1.0078.99	SS19	ATOM	5006	C	ARG	81	234.878	91.358	5.147	1.00117.60	SS
ATOM	4954	CD	PRO	76	240.285	100.089	20.591	1.0061.38	SS19	ATOM	5007	O	ARG	81	234.748	90.155	4.828	1.00117.60	SS
ATOM	4955	CA	PRO	76	238.616	98.506	19.832	1.0078.99	SS19	ATOM	5008	OXT	ARG	81	235.789	92.097	4.711	1.0097.84	SS
ATOM	4956	CB	PRO	76	237.947	99.856	20.014	1.0061.38	SS19	ATOM	5009	CB	VAL	7	152.261	167.740	-25.564	1.0058.45	BS
ATOM	4957	CG	PRO	76	238.882	100.499	21.071	1.0061.38	SS19	ATOM	5010	CG1	VAL	7	152.971	167.438	-26.891	1.0058.45	BS
ATOM	4958	C	PRO	76	238.115	97.704	18.608	1.0078.99	SS19	ATOM	5011	CG2	VAL	7	153.305	167.917	-24.477	1.0058.45	BS
ATOM	4959	O	PRO	76	237.902	98.255	17.529	1.0078.99	SS19	ATOM	5012	C	VAL	7	150.942	169.162	-27.122	1.0080.73	BS
ATOM	4960	N	THR	77	237.971	96.389	18.832	1.00112.46	SS19	ATOM	5013	O	VAL	7	150.315	168.247	-27.668	1.0080.73	BS
ATOM	4961	CA	THR	77	237.533	95.344	17.882	1.00112.46	SS19	ATOM	5014	N	VAL	7	150.259	169.048	-24.725	1.0080.73	BS
ATOM	4962	CB	THR	77	236.319	94.556	18.438	1.0088.01	SS19	ATOM	5015	CA	VAL	7	151.403	169.036	-25.683	1.0080.73	BS
ATOM	4963	CG1	THR	77	236.677	93.924	19.674	1.0088.01	SS19	ATOM	5016	N	LYS	8	151.283	170.310	-27.710	1.00122.99	BS
ATOM	4964	CG2	THR	77	235.881	93.489	17.448	1.0088.01	SS19	ATOM	5017	CA	LYS	8	150.978	170.678	-29.092	1.00122.99	BS
ATOM	4965	C	THR	77	237.193	95.720	16.451	1.00112.46	SS19	ATOM	5018	CB	LYS	8	152.263	171.177	-29.776	1.0080.76	BS
ATOM	4966	O	THR	77	236.455	96.670	16.218	1.00112.46	SS19	ATOM	5019	CD	LYS	8	153.581	170.570	-29.240	1.0080.76	BS
ATOM	4967	N	ARG	78	237.691	94.930	15.459	1.0086.70	SS19	ATOM	5020	CD	LYS	8	154.287	171.425	-28.132	1.0080.76	BS
ATOM	4968	CA	ARG	78	237.443	95.207	14.093	1.0086.70	SS19	ATOM	5021	CE	LYS	8	153.793	171.127	-26.698	1.0080.76	BS
ATOM	4969	CB	ARG	78	237.753	96.669	13.843	1.00194.52	SS19	ATOM	5022	NZ	LYS	8	154.761	171.525	-25.618	1.0080.76	BS
ATOM	4970	CG	ARG	78	236.661	97.382	13.142	1.00194.52	SS19	ATOM	5023	C	LYS	8	150.847	169.164	-30.957	1.00122.99	BS
ATOM	4971	CD	ARG	78	235.295	97.058	13.712	1.00194.52	SS19	ATOM	5024	O	LYS	8	150.847	169.164	-30.957	1.00122.99	BS
ATOM	4972	NE	ARG	78	234.295	97.783	12.948	1.00194.52	SS19	ATOM	5025	N	GLU	9	149.134	169.171	-29.476	1.00126.61	BS
ATOM	4973	CZ	ARG	78	234.153	97.666	11.632	1.00194.52	SS19	ATOM	5026	CA	GLU	9	148.297	168.142	-30.094	1.00126.61	BS
ATOM	4974	NH1	ARG	78	234.936	96.840	10.946	1.00194.52	SS19	ATOM	5027	CB	GLU	9	147.030	166.786	-30.663	1.00199.40	BS
ATOM	4975	NH2	ARG	78	233.255	98.397	10.991	1.00194.52	SS19	ATOM	5028	CG	GLU	9	146.124	169.423	-29.622	1.00199.40	BS
ATOM	4976	C	ARG	78	238.233	94.352	13.039	1.0086.70	SS19	ATOM	5029	CD	GLU	9	144.924	170.126	-30.245	1.00199.40	BS
ATOM	4977	O	ARG	78	239.443	94.511	12.978	1.0086.70	SS19	ATOM	5030	OE1	GLU	9	144.167	169.459	-30.984	1.00199.40	BS
ATOM	4978	N	THR	79	237.545	93.471	12.369	1.0078.43	SS19	ATOM	5031	OE2	GLU	9	144.745	171.345	-29.993	1.00199.40	BS
ATOM	4979	CA	THR	79	238.191	92.595	11.384	1.0078.43	SS19	ATOM	5032	C	GLU	9	148.929	167.275	-31.174	1.00126.61	BS
ATOM	4980	CB	THR	79	238.054	91.115	11.777	1.0089.23	SS19	ATOM	5033	O	GLU	9	150.143	167.060	-31.203	1.00126.61	BS
ATOM	4981	OG1	THR	79	238.735	90.886	13.017	1.0089.23	SS19	ATOM	5034	N	LEU	10	148.074	166.760	-32.055	1.0093.88	BS
ATOM	4982	CG2	THR	79	238.663	90.219	10.707	1.0089.23	SS19	ATOM	5035	CA	LEU	10	148.516	165.926	-33.161	1.0093.88	BS
ATOM	4983	C	THR	79	237.638	92.783	9.966	1.0078.43	SS19	ATOM	5036	CB	LEU	10	147.337	165.612	-34.085	1.00130.58	BS
ATOM	4984	O	THR	79	238.160	92.221	9.000	1.0078.43	SS19	ATOM	5037	CG	LEU	10	146.006	165.229	-33.423	1.00130.58	BS
ATOM	4985	N	TYR	80	236.571	93.570	8.862	1.00138.98	SS19	ATOM	5038	CD1	LEU	10	144.965	164.955	-34.500	1.00130.58	BS
ATOM	4986	CA	TYR	80	235.924	93.919	8.590	1.00138.98	SS19	ATOM	5039	CD2	LEU	10	146.184	164.002	-32.544	1.00130.58	BS
ATOM	4987	CB	TYR	80	236.769	94.944	7.822	1.00102.67	SS19	ATOM	5040	C	LEU	10	149.554	166.761	-33.897	1.0093.88	BS
ATOM	4988	CG	TYR	80	237.768	95.669	8.681	1.00102.67	SS19	ATOM	5041	O	LEU	10	150.375	166.238	-34.650	1.0093.88	BS
ATOM	4989	CD1	TYR	80	239.039	95.945	8.203	1.00102.67	SS19	ATOM	5042	N	LEU	11	149.498	168.072	-33.659	1.00117.06	BS
ATOM	4990	CE1	TYR	80	239.997	96.515	9.017	1.00102.67	SS19	ATOM	5043	CA	LEU	11	150.420	169.037	-34.255	1.00117.06	BS
ATOM	4991	CD2	TYR	80	237.476	95.996	10.002	1.00102.67	SS19	ATOM	5044	CB	LEU	11	150.298	170.339	-33.567	1.00145.85	BS
ATOM	4992	CE2	TYR	80	238.422	96.559	10.819	1.00102.67	SS19	ATOM	5045	CG	LEU	11	149.020	171.224	-33.699	1.00145.85	BS
ATOM	4993	CZ	TYR	80	239.633	96.816	10.328	1.00102.67	SS19	ATOM	5046	CD1	LEU	11	149.075	172.388	-32.716	1.00145.85	BS
ATOM	4994	OH	TYR	80	240.640	97.353	11.157	1.00102.67	SS19	ATOM	5047	CD2	LEU	11	148.873	171.723	-35.133	1.00145.85	BS
ATOM	4995	C	TYR	80	235.583	92.786	7.639	1.00138.98	SS19	ATOM	5048	C	LEU	11	151.844	168.555	-34.078	1.00117.06	BS
ATOM	4996	O	TYR	80	236.363	91.863	7.427	1.00138.98	SS19	ATOM	5049	O	LEU	11	152.755	169.016	-34.767	1.00117.06	BS
ATOM	4997	N	ARG	81	233.358	92.909	7.056	1.00117.60	SS19	ATOM	5050	N	GLU	12	152.045	167.630	-33.147	1.0094.87	BS2
ATOM	4998	CA	ARG	81	233.838	91.970	6.091	1.00117.60	SS19	ATOM	5051	CB	GLU	12	153.386	167.156	-32.929	1.0094.87	BS2
ATOM	4999	CB	ARG	81	232.787	92.700	5.268	1.0068.77	SS19	ATOM	5052	CG	GLU	12	153.592	166.727	-31.487	1.00114.18	BS2
ATOM	5000	CG	ARG	81	233.409	93.733	4.333	1.0068.77	SS19	ATOM	5053	CG	GLU	12	155.071	166.722	-31.171	1.00114.18	BS2

Table 2 - 48/482

ATOM	5054	CD	GLU	12	155.802	167.889	-31.843	1.00114.18	BS2	ATOM	5107	NE2	HIS	19	163.988	157.279	-33.602	1.00168.73	BS
ATOM	5055	OE1	GLU	12	157.037	167.792	-32.011	1.00114.18	BS2	ATOM	5108	C	HIS	19	161.427	153.545	-36.768	1.00115.63	BS
ATOM	5056	OE2	GLU	12	155.145	168.899	-32.198	1.00114.18	BS2	ATOM	5109	O	HIS	19	160.516	152.839	-37.204	1.00115.63	BS
ATOM	5057	C	GLU	12	153.889	166.077	-33.868	1.0094.87	BS2	ATOM	5110	N	GLU	20	162.668	153.108	-36.554	1.0099.25	BS
ATOM	5058	O	GLU	12	154.563	165.129	-33.459	1.0094.87	BS2	ATOM	5111	CA	GLU	20	163.125	151.747	-36.826	1.0099.25	BS
ATOM	5059	N	ALA	13	153.547	166.227	-35.139	1.00112.18	BS2	ATOM	5112	CB	GLU	20	163.401	150.988	-35.524	1.0071.78	BS
ATOM	5060	CA	ALA	13	154.034	165.315	-36.149	1.00112.18	BS2	ATOM	5113	CD	GLU	20	162.838	151.603	-34.265	1.0071.78	BS
ATOM	5061	CB	ALA	13	153.087	165.255	-37.337	1.0051.15	BS2	ATOM	5114	CG	GLU	20	163.867	152.420	-33.506	1.0071.78	BS
ATOM	5062	C	ALA	13	155.316	166.030	-36.524	1.00112.18	BS2	ATOM	5115	OE1	GLU	20	165.057	152.053	-33.545	1.0071.78	BS
ATOM	5063	O	ALA	13	156.131	165.531	-37.296	1.00112.18	BS2	ATOM	5116	OE2	GLU	20	163.483	153.416	-32.856	1.0071.78	BS
ATOM	5064	N	GLY	14	155.472	167.224	-35.954	1.00110.22	BS2	ATOM	5117	C	GLU	20	162.238	150.890	-37.715	1.0099.25	BS
ATOM	5065	CA	GLY	14	156.652	168.030	-36.201	1.00110.22	BS2	ATOM	5118	N	ARG	21	161.129	150.517	-37.342	1.0099.25	BS
ATOM	5066	C	GLY	14	157.871	167.206	-35.867	1.00110.22	BS2	ATOM	5119	O	ARG	21	162.753	150.578	-38.896	1.00105.85	BS
ATOM	5067	O	GLY	14	158.998	167.569	-36.198	1.00110.22	BS2	ATOM	5120	CA	ARG	21	162.061	149.740	-39.867	1.00105.85	BS
ATOM	5068	N	VAL	15	157.624	166.088	-35.191	1.00138.78	BS2	ATOM	5121	CB	ARG	21	162.829	149.784	-41.187	1.00120.85	BS
ATOM	5069	CA	VAL	15	158.661	165.146	-33.507	1.00138.78	BS2	ATOM	5122	CG	ARG	21	164.338	149.930	-40.992	1.00120.85	BS
ATOM	5070	CB	VAL	15	159.399	165.598	-33.507	1.0087.79	BS2	ATOM	5123	CD	ARG	21	164.890	148.824	-40.104	1.00120.85	BS
ATOM	5071	CG1	VAL	15	160.724	164.857	-33.385	1.0087.79	BS2	ATOM	5124	NE	ARG	21	166.075	149.238	-39.363	1.00120.85	BS
ATOM	5072	CG2	VAL	15	159.611	167.101	-33.505	1.0087.79	BS2	ATOM	5125	C2	ARG	21	167.244	149.521	-39.923	1.00120.85	BS
ATOM	5073	C	VAL	15	157.947	163.830	-34.492	1.00138.78	BS2	ATOM	5126	NH1	ARG	21	167.392	149.433	-41.240	1.00120.85	BS
ATOM	5074	O	VAL	15	156.718	163.758	-34.560	1.00138.78	BS2	ATOM	5127	NH2	ARG	21	168.266	148.894	-39.166	1.00120.85	BS
ATOM	5075	N	HIS	16	158.723	162.798	-34.169	1.00119.45	BS2	ATOM	5128	C	ARG	21	162.006	148.301	-39.334	1.00105.85	BS
ATOM	5076	CA	HIS	16	158.193	161.485	-33.805	1.00119.45	BS2	ATOM	5129	O	ARG	21	162.838	147.922	-38.509	1.00105.85	BS
ATOM	5077	CB	HIS	16	157.029	161.636	-32.833	1.00141.63	BS2	ATOM	5130	N	LYS	22	161.039	147.516	-39.814	1.0071.72	BS
ATOM	5078	CG	HIS	16	157.401	162.307	-31.556	1.00141.63	BS2	ATOM	5131	CA	LYS	22	160.824	146.113	-39.413	1.0071.72	BS
ATOM	5079	CD2	HIS	16	156.716	163.156	-30.757	1.00141.63	BS2	ATOM	5132	CB	LYS	22	160.422	145.300	-40.653	1.00102.16	BS
ATOM	5080	ND1	HIS	16	158.608	162.078	-30.922	1.00141.63	BS2	ATOM	5133	CG	LYS	22	159.272	145.922	-41.476	1.00102.16	BS
ATOM	5081	CE1	HIS	16	158.642	162.753	-29.791	1.00141.63	BS2	ATOM	5134	CD	LYS	22	159.011	145.131	-42.762	1.00102.16	BS
ATOM	5082	NE2	HIS	16	157.505	163.417	-29.665	1.00141.63	BS2	ATOM	5135	CE	LYS	22	158.603	145.844	-43.723	1.00102.16	BS
ATOM	5083	C	HIS	16	157.764	160.548	-34.912	1.00119.45	BS2	ATOM	5136	N2	LYS	22	166.433	145.842	-43.275	1.00102.16	BS
ATOM	5084	O	HIS	16	158.250	160.622	-36.038	1.00119.45	BS2	ATOM	5137	C	LYS	22	161.970	145.396	-38.654	1.0071.72	BS
ATOM	5085	N	PHE	17	156.851	159.652	-34.543	1.0055.49	BS2	ATOM	5138	O	LYS	22	162.464	144.349	-39.069	1.0071.72	BS
ATOM	5086	CA	PHE	17	156.287	158.626	-35.420	1.0055.49	BS2	ATOM	5139	N	ARG	23	162.369	145.981	-37.529	1.0091.81	BS
ATOM	5087	CB	PHE	17	155.257	159.251	-36.381	1.0081.81	BS2	ATOM	5140	CA	ARG	23	163.417	145.463	-36.652	1.0091.81	BS
ATOM	5088	CG	PHE	17	155.847	160.179	-37.399	1.0081.81	BS2	ATOM	5141	CB	ARG	23	164.583	146.447	-36.601	1.00180.10	BS
ATOM	5089	CD1	PHE	17	156.793	159.724	-38.321	1.0081.81	BS2	ATOM	5142	CG	ARG	23	165.950	145.821	-36.790	1.00180.10	BS
ATOM	5090	CD2	PHE	17	155.472	161.511	-37.434	1.0081.81	BS2	ATOM	5143	CD	ARG	23	166.562	145.338	-35.483	1.00180.10	BS
ATOM	5091	CE1	PHE	17	157.361	160.587	-39.264	1.0081.81	BS2	ATOM	5144	NE	ARG	23	167.903	144.794	-35.702	1.00180.10	BS
ATOM	5092	CE2	PHE	17	156.029	162.379	-38.368	1.0081.81	BS2	ATOM	5145	C2	ARG	23	168.428	144.654	-33.460	1.00180.10	BS
ATOM	5093	C2	PHE	17	156.977	161.915	-39.284	1.0081.81	BS2	ATOM	5146	NH1	ARG	23	169.761	144.480	-34.735	1.00180.10	BS
ATOM	5094	C	PHE	17	157.280	157.745	-36.208	1.0055.49	BS2	ATOM	5147	NH2	ARG	23	162.662	145.480	-35.336	1.0091.81	BS
ATOM	5095	O	PHE	17	158.466	158.072	-36.379	1.0055.49	BS2	ATOM	5148	C	ARG	23	163.225	145.455	-34.244	1.0074.46	BS
ATOM	5096	N	GLY	18	156.776	156.605	-36.664	1.00124.29	BS2	ATOM	5149	O	ARG	23	160.335	145.538	-35.511	1.0074.46	BS
ATOM	5097	CA	GLY	18	157.591	155.688	-37.437	1.00124.29	BS2	ATOM	5150	N	TRP	24	161.349	145.538	-35.511	1.0074.46	BS
ATOM	5098	C	GLY	18	158.765	155.028	-36.740	1.00124.29	BS2	ATOM	5151	CA	TRP	24	160.986	145.863	-35.134	1.0074.46	BS
ATOM	5099	O	GLY	18	158.604	154.065	-35.993	1.00124.29	BS2	ATOM	5152	CB	TRP	24	156.367	144.610	-35.704	1.0059.76	BS
ATOM	5100	N	HIS	19	159.955	155.552	-37.001	1.00115.63	BS2	ATOM	5153	CG	TRP	24	156.974	144.317	-35.814	1.0059.76	BS
ATOM	5101	CA	HIS	19	161.191	155.020	-36.439	1.00115.63	BS2	ATOM	5154	CD2	TRP	24	156.861	143.021	-36.368	1.0059.76	BS
ATOM	5102	CB	HIS	19	161.238	155.234	-34.928	1.00168.73	BS2	ATOM	5155	CE2	TRP	24	155.809	143.019	-35.499	1.0059.76	BS
ATOM	5103	CG	HIS	19	162.292	156.205	-34.496	1.00168.73	BS2	ATOM	5156	CE3	TRP	24	159.026	143.513	-36.189	1.0059.76	BS
ATOM	5104	CD2	HIS	19	163.362	156.058	-33.678	1.00168.73	BS2	ATOM	5157	CD1	TRP	24	158.129	142.554	-36.585	1.0059.76	BS
ATOM	5105	ND1	HIS	19	162.300	157.524	-34.900	1.00168.73	BS2	ATOM	5158	NE1	TRP	24	155.626	142.413	-36.614	1.0059.76	BS
ATOM	5106	CE1	HIS	19	163.327	158.146	-34.349	1.00168.73	BS2	ATOM	5159	C22	TRP	24					BS

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ATOM	5160	CZ3 TRP	24	154.577	144.412	-35.744	1.00	59.76	BS2	ATOM	5213	C	ARG	30	148.950	149.314	-31.441	1.00	77.55	BS
ATOM	5161	CH2 TRP	24	154.498	143.122	-36.297	1.00	59.76	BS2	ATOM	5214	O	ARG	30	148.013	150.044	-31.149	1.00	77.55	BS
ATOM	5162	C TRP	24	160.182	144.341	-33.654	1.00	74.46	BS2	ATOM	5215	N	TYR	31	150.082	149.785	-31.936	1.00	91.02	BS
ATOM	5163	O TRP	24	160.892	143.357	-33.846	1.00	74.46	BS2	ATOM	5216	CA	TYR	31	150.238	151.206	-32.188	1.00	91.02	BS
ATOM	5164	N ASN	25	159.203	144.391	-32.758	1.00	60.51	BS2	ATOM	5217	CB	TYR	31	151.355	151.764	-31.327	1.00	57.86	BS
ATOM	5165	CA ASN	25	158.843	143.263	-31.922	1.00	60.51	BS2	ATOM	5218	CG	TYR	31	151.119	151.498	-29.862	1.00	57.86	BS
ATOM	5166	CB ASN	25	159.609	143.309	-30.581	1.00	65.57	BS2	ATOM	5219	CD1	TYR	31	151.873	150.555	-29.172	1.00	57.86	BS
ATOM	5167	CG ASN	25	158.727	143.539	-29.386	1.00	65.57	BS2	ATOM	5220	CE1	TYR	31	151.666	150.328	-27.811	1.00	57.86	BS
ATOM	5168	OD1 ASN	25	158.670	144.645	-28.866	1.00	65.57	BS2	ATOM	5221	CD2	TYR	31	150.145	152.204	-29.157	1.00	57.86	BS
ATOM	5169	ND2 ASN	25	158.043	142.496	-28.933	1.00	65.57	BS2	ATOM	5222	CE2	TYR	31	149.932	151.986	-27.802	1.00	57.86	BS
ATOM	5170	C ASN	25	157.316	143.350	-31.800	1.00	60.51	BS2	ATOM	5223	CZ	TYR	31	150.694	151.050	-27.138	1.00	57.86	BS
ATOM	5171	O ASN	25	156.771	144.141	-31.040	1.00	60.51	BS2	ATOM	5224	OH	TYR	31	150.477	150.835	-25.801	1.00	57.86	BS
ATOM	5172	N PRO	26	156.615	142.531	-32.598	1.00	63.59	BS2	ATOM	5225	C	TYR	31	150.532	151.394	-33.671	1.00	91.02	BS
ATOM	5173	CD PRO	26	157.288	141.301	-33.059	1.00	46.83	BS2	ATOM	5226	O	TYR	31	149.613	151.681	-34.441	1.00	91.02	BS
ATOM	5174	CA PRO	26	155.168	142.378	-32.740	1.00	63.59	BS2	ATOM	5227	N	ILE	32	151.795	151.210	-34.060	1.00	58.25	BS
ATOM	5175	CB PRO	26	155.005	140.873	-32.883	1.00	46.83	BS2	ATOM	5228	CA	ILE	32	152.245	151.329	-35.455	1.00	58.25	BS
ATOM	5176	CG PRO	26	156.171	140.531	-33.726	1.00	46.83	BS2	ATOM	5229	CB	ILE	32	153.028	150.059	-35.865	1.00	57.40	BS
ATOM	5177	C PRO	26	154.280	142.954	-31.653	1.00	63.59	BS2	ATOM	5230	CG2	ILE	32	153.487	150.150	-37.311	1.00	57.40	BS
ATOM	5178	O PRO	26	153.275	143.587	-31.954	1.00	63.59	BS2	ATOM	5231	CG1	ILE	32	154.244	149.892	-34.956	1.00	57.40	BS
ATOM	5179	N LYS	27	154.646	142.739	-30.394	1.00	49.90	BS2	ATOM	5232	CD1	ILE	32	154.859	148.528	-35.037	1.00	57.40	BS
ATOM	5180	CA LYS	27	153.841	143.223	-29.288	1.00	49.90	BS2	ATOM	5233	C	ILE	32	151.087	151.554	-36.435	1.00	58.25	BS
ATOM	5181	CB LYS	27	154.504	142.852	-27.962	1.00	67.82	BS2	ATOM	5234	O	ILE	32	150.323	150.630	-36.723	1.00	58.25	BS
ATOM	5182	CG LYS	27	154.437	141.364	-27.645	1.00	67.82	BS2	ATOM	5235	N	TYR	33	150.969	152.784	-36.942	1.00	86.59	BS
ATOM	5183	CD LYS	27	154.884	141.075	-26.225	1.00	67.82	BS2	ATOM	5236	CA	TYR	33	149.888	153.149	-37.852	1.00	86.59	BS
ATOM	5184	CE LYS	27	154.576	139.634	-25.846	1.00	67.82	BS2	ATOM	5237	CB	TYR	33	150.004	154.610	-38.303	1.00	132.88	BS
ATOM	5185	NZ LYS	27	154.849	139.324	-24.404	1.00	67.82	BS2	ATOM	5238	CG	TYR	33	148.841	155.099	-39.164	1.00	132.88	BS
ATOM	5186	C LYS	27	153.596	144.723	-29.362	1.00	49.90	BS2	ATOM	5239	CD1	TYR	33	148.215	154.253	-40.084	1.00	132.88	BS
ATOM	5187	O LYS	27	152.726	145.266	-28.677	1.00	49.90	BS2	ATOM	5240	CE1	TYR	33	147.170	154.697	-40.881	1.00	132.88	BS
ATOM	5188	N PHE	28	154.351	145.396	-30.212	1.00	50.26	BS2	ATOM	5241	CD2	TYR	33	148.384	156.414	-39.074	1.00	132.88	BS
ATOM	5189	CA PHE	28	154.194	146.824	-30.345	1.00	50.26	BS2	ATOM	5242	CE2	TYR	33	147.339	156.870	-39.874	1.00	132.88	BS
ATOM	5190	CB PHE	28	155.548	147.462	-30.606	1.00	61.80	BS2	ATOM	5243	CZ	TYR	33	146.737	156.004	-40.773	1.00	132.88	BS
ATOM	5191	CG PHE	28	155.497	148.946	-30.651	1.00	61.80	BS2	ATOM	5244	OH	TYR	33	145.701	156.435	-41.565	1.00	86.59	BS
ATOM	5192	CD1 PHE	28	155.223	149.672	-29.504	1.00	61.80	BS2	ATOM	5245	O	TYR	33	149.879	152.284	-39.081	1.00	86.59	BS
ATOM	5193	CE1 PHE	28	155.659	149.619	-31.853	1.00	61.80	BS2	ATOM	5246	C	TYR	34	148.930	151.540	-39.325	1.00	86.59	BS
ATOM	5194	CE1 PHE	28	155.109	151.043	-29.552	1.00	61.80	BS2	ATOM	5247	N	ALA	34	150.925	152.408	-39.881	1.00	81.34	BS
ATOM	5195	CE2 PHE	28	155.547	150.996	-31.911	1.00	61.80	BS2	ATOM	5248	CA	ALA	34	150.982	151.626	-41.095	1.00	81.34	BS
ATOM	5196	CZ PHE	28	153.271	151.710	-30.756	1.00	50.26	BS2	ATOM	5249	CB	ALA	34	150.128	152.293	-42.180	1.00	49.89	BS
ATOM	5197	C PHE	28	153.235	147.173	-31.481	1.00	50.26	BS2	ATOM	5250	O	ALA	34	152.402	151.401	-41.591	1.00	81.34	BS
ATOM	5198	O PHE	28	153.000	148.352	-31.783	1.00	50.26	BS2	ATOM	5251	C	ALA	34	153.381	151.749	-40.916	1.00	81.34	BS
ATOM	5199	N ALA	29	152.664	146.150	-32.103	1.00	61.30	BS2	ATOM	5252	N	GLU	35	152.482	150.804	-42.780	1.00	106.96	BS
ATOM	5200	CA ALA	29	151.769	146.377	-33.227	1.00	61.30	BS2	ATOM	5253	CA	GLU	35	153.727	150.457	-43.457	1.00	106.96	BS
ATOM	5201	CB ALA	29	151.299	145.041	-33.799	1.00	58.98	BS2	ATOM	5254	CB	GLU	35	153.425	150.088	-44.916	1.00	182.00	BS
ATOM	5202	C ALA	29	150.567	147.246	-32.890	1.00	61.30	BS2	ATOM	5255	CG	GLU	35	152.244	150.833	-45.543	1.00	182.00	BS
ATOM	5203	O ALA	29	150.137	148.065	-33.716	1.00	61.30	BS2	ATOM	5256	CD	GLU	35	152.312	152.342	-45.356	1.00	182.00	BS
ATOM	5204	N ARG	30	150.035	147.075	-31.253	1.00	77.55	BS2	ATOM	5257	OE1	GLU	35	153.368	152.943	-45.659	1.00	182.00	BS
ATOM	5205	CA ARG	30	148.853	147.811	-31.253	1.00	77.55	BS2	ATOM	5258	OE2	GLU	35	151.299	152.926	-44.915	1.00	182.00	BS
ATOM	5206	CB ARG	30	148.508	147.471	-29.801	1.00	93.12	BS2	ATOM	5259	C	GLU	35	154.876	151.459	-43.425	1.00	106.96	BS
ATOM	5207	CG ARG	30	148.899	148.507	-28.772	1.00	93.12	BS2	ATOM	5260	O	GLU	35	155.752	151.333	-44.415	1.00	106.96	BS
ATOM	5208	CD ARG	30	149.700	147.952	-27.371	1.00	93.12	BS2	ATOM	5261	N	ARG	36	156.924	152.184	-44.545	1.00	159.28	BS
ATOM	5209	NE ARG	30	149.310	146.631	-27.271	1.00	93.12	BS2	ATOM	5262	CA	ARG	36	156.536	153.542	-45.132	1.00	103.47	BS
ATOM	5210	C2 ARG	30	150.018	146.205	-26.230	1.00	93.12	BS2	ATOM	5263	CB	ARG	36	157.625	154.134	-45.998	1.00	103.47	BS
ATOM	5211	NH1 ARG	30	150.211	147.000	-25.183	1.00	93.12	BS2	ATOM	5264	CG	ARG	36	158.964	154.080	-45.290	1.00	103.47	BS
ATOM	5212	NH2 ARG	30	150.543	144.983	-26.246	1.00	93.12	BS2	ATOM	5265	CD	ARG	36						BS

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ATOM	5266	NE	ARG	36	159.946	153.297	-46.032	1.00103.47	BS2	ATOM	5319	CA	ASP	43	149.744	156.147	-32.916	1.00100.74	BS
ATOM	5267	CZ	ARG	36	160.433	153.646	-47.220	1.00103.47	BS2	ATOM	5320	CB	ASP	43	151.177	155.895	-33.285	1.00136.73	BS
ATOM	5268	NH1	ARG	36	160.025	154.769	-47.805	1.00103.47	BS2	ATOM	5321	CG	ASP	43	151.287	154.597	-34.161	1.00136.73	BS
ATOM	5269	NH2	ARG	36	161.338	152.881	-47.821	1.00103.47	BS2	ATOM	5322	OD1	ASP	43	150.641	154.588	-35.227	1.00136.73	BS
ATOM	5270	C	ARG	36	157.621	152.376	-43.197	1.00159.28	BS2	ATOM	5323	OD2	ASP	43	152.032	153.668	-33.785	1.00136.73	BS
ATOM	5271	O	ASN	36	157.490	153.420	-42.557	1.00159.28	BS2	ATOM	5324	C	ASP	43	149.770	157.516	-32.295	1.00100.74	BS
ATOM	5272	N	ASN	37	158.364	151.356	-42.778	1.0091.74	BS2	ATOM	5325	O	ASP	43	149.473	157.662	-31.127	1.00100.74	BS
ATOM	5273	CA	ASN	37	159.090	151.382	-41.515	1.0091.74	BS2	ATOM	5326	N	LEU	44	150.142	158.522	-33.084	1.0083.31	BS
ATOM	5274	CB	ASN	37	160.149	152.472	-41.560	1.00120.59	BS2	ATOM	5327	CA	LEU	44	150.194	159.893	-32.580	1.0083.31	BS
ATOM	5275	CG	ASN	37	160.962	152.399	-42.821	1.00120.59	BS2	ATOM	5328	CB	LEU	44	150.539	160.860	-33.710	1.0077.81	BS
ATOM	5276	OD1	ASN	37	161.388	151.317	-43.230	1.00120.59	BS2	ATOM	5329	CG	LEU	44	151.872	161.501	-34.370	1.0077.81	BS
ATOM	5277	ND2	ASN	37	161.177	153.541	-43.458	1.00120.59	BS2	ATOM	5330	CD1	LEU	44	152.083	161.342	-35.622	1.0077.81	BS
ATOM	5278	C	ASN	37	158.167	151.575	-40.324	1.0091.74	BS2	ATOM	5331	CD2	LEU	44	152.999	160.690	-33.367	1.0077.81	BS
ATOM	5279	O	ASN	37	158.612	151.922	-39.225	1.0082.19	BS2	ATOM	5332	C	LEU	44	148.832	160.212	-31.974	1.0083.31	BS
ATOM	5280	N	GLY	38	156.879	151.325	-40.556	1.0082.19	BS2	ATOM	5333	O	LEU	44	148.687	161.111	-31.145	1.0083.31	BS
ATOM	5281	CA	GLY	38	155.887	151.444	-39.507	1.0082.19	BS2	ATOM	5334	N	GLN	45	147.830	159.459	-32.402	1.0073.62	BS
ATOM	5282	C	GLY	38	155.877	152.847	-38.967	1.0082.19	BS2	ATOM	5335	CA	GLN	45	146.502	159.611	-31.860	1.0073.62	BS
ATOM	5283	O	GLY	38	156.847	153.305	-38.374	1.0082.19	BS2	ATOM	5336	CB	GLN	45	145.511	158.859	-32.737	1.00155.95	BS
ATOM	5284	N	ILE	39	154.774	153.543	-39.164	1.0079.87	BS2	ATOM	5337	CD	GLN	45	144.069	159.021	-32.342	1.00155.95	BS
ATOM	5285	CA	ILE	39	154.714	154.901	-38.687	1.0079.87	BS2	ATOM	5338	CG	GLN	45	143.135	156.922	-33.244	1.00155.95	BS
ATOM	5286	CB	ILE	39	154.377	155.851	-39.846	1.0089.38	BS2	ATOM	5339	OE1	GLN	45	142.283	158.919	-33.966	1.00155.95	BS
ATOM	5287	CG2	ILE	39	154.760	157.274	-39.479	1.0089.38	BS2	ATOM	5340	NE2	GLN	45	146.656	158.923	-30.502	1.0073.62	BS
ATOM	5288	CG1	ILE	39	155.179	155.441	-41.082	1.0089.38	BS2	ATOM	5341	C	GLN	45	147.474	159.529	-29.439	1.0073.62	BS
ATOM	5289	CD1	ILE	39	154.930	156.301	-42.313	1.0089.38	BS2	ATOM	5342	O	GLN	45	147.036	157.651	-30.565	1.0075.60	BS
ATOM	5290	C	ILE	39	153.711	155.051	-37.556	1.0079.87	BS2	ATOM	5343	N	LVS	46	147.259	156.823	-29.389	1.0075.60	BS
ATOM	5291	O	ILE	39	153.381	154.085	-36.872	1.0079.87	BS2	ATOM	5344	CA	LVS	46	147.623	155.397	-29.825	1.0068.29	BS
ATOM	5292	N	HIS	40	152.280	156.274	-37.363	1.00200.66	BS2	ATOM	5345	CB	LVS	46	146.494	154.673	-30.554	1.0068.29	BS
ATOM	5293	CA	HIS	40	153.016	157.527	-35.145	1.0071.25	BS2	ATOM	5346	CG	LVS	46	146.959	153.375	-31.198	1.0068.29	BS
ATOM	5294	CB	HIS	40	153.970	156.307	-34.439	1.0071.25	BS2	ATOM	5347	CD	LVS	46	145.823	152.709	-31.976	1.0068.29	BS
ATOM	5295	CG	HIS	40	154.323	156.222	-33.133	1.0071.25	BS2	ATOM	5348	CE	LVS	46	146.259	151.480	-32.720	1.0068.29	BS
ATOM	5296	CD2	HIS	40	154.714	155.353	-35.100	1.0071.25	BS2	ATOM	5349	NZ	LVS	46	148.371	157.399	-28.515	1.0075.60	BS
ATOM	5297	ND1	HIS	40	155.486	154.722	-34.231	1.0071.25	BS2	ATOM	5350	C	LVS	46	148.318	157.300	-27.297	1.0075.60	BS
ATOM	5298	CE1	HIS	40	155.269	155.230	-33.031	1.0071.25	BS2	ATOM	5351	O	LVS	46	149.379	157.991	-29.145	1.0053.82	BS
ATOM	5299	NE2	HIS	40	151.122	157.448	-36.811	1.00200.66	BS2	ATOM	5352	N	THR	47	150.508	158.587	-28.435	1.0053.82	BS
ATOM	5300	C	HIS	40	150.761	157.372	-37.985	1.00200.66	BS2	ATOM	5353	CA	THR	47	151.557	159.167	-29.409	1.0058.63	BS
ATOM	5301	O	ILE	41	149.561	158.274	-35.921	1.00185.76	BS2	ATOM	5354	CB	THR	47	151.959	158.159	-30.342	1.0058.63	BS
ATOM	5302	CA	ILE	41	149.412	159.164	-36.192	1.00185.76	BS2	ATOM	5355	CG1	THR	47	152.776	159.639	-28.648	1.0053.82	BS
ATOM	5303	CB	ILE	41	149.191	159.435	-37.711	1.0064.91	BS2	ATOM	5356	CG2	THR	47	149.964	159.725	-27.595	1.0053.82	BS
ATOM	5304	CB	ILE	41	147.983	160.360	-37.926	1.0064.91	BS2	ATOM	5357	C	THR	47	150.498	160.052	-26.534	1.0053.82	BS
ATOM	5305	CG2	ILE	41	150.441	160.099	-38.296	1.0064.91	BS2	ATOM	5358	O	THR	47	148.896	160.334	-28.097	1.0082.47	BS
ATOM	5306	CG1	ILE	41	150.589	159.903	-39.789	1.0064.91	BS2	ATOM	5359	N	MET	48	148.260	161.422	-27.391	1.0082.47	BS
ATOM	5307	CD1	ILE	41	148.198	158.458	-35.577	1.00185.76	BS2	ATOM	5360	CA	MET	48	147.460	162.289	-28.363	1.00146.27	BS
ATOM	5308	C	ILE	41	147.479	159.042	-34.765	1.00185.76	BS2	ATOM	5361	CB	MET	48	147.513	163.772	-28.020	1.00146.27	BS
ATOM	5309	O	ILE	41	147.965	157.205	-35.972	1.00141.84	BS2	ATOM	5362	CG	MET	48	147.362	160.736	-26.370	1.0082.47	BS
ATOM	5310	N	ILE	42	146.704	155.039	-36.023	1.00126.64	BS2	ATOM	5363	SD	MET	48	147.394	161.074	-25.183	1.0082.47	BS
ATOM	5311	CA	ILE	42	145.995	154.099	-35.055	1.00126.64	BS2	ATOM	5364	CE	MET	48	146.592	159.747	-26.828	1.0063.64	BS
ATOM	5312	CB	ILE	42	145.898	155.179	-37.317	1.00126.64	BS2	ATOM	5365	C	MET	48	145.713	158.989	-25.934	1.0063.64	BS
ATOM	5313	CG2	ILE	42	144.489	155.729	-37.114	1.00126.64	BS2	ATOM	5366	O	MET	49	145.070	157.822	-26.680	1.00135.99	BS
ATOM	5314	CG1	ILE	42	147.569	156.203	-34.028	1.00141.84	BS2	ATOM	5367	N	GLU	49	144.246	158.258	-27.879	1.00135.99	BS
ATOM	5315	CD1	ILE	42	148.896	156.276	-34.082	1.00100.74	BS2	ATOM	5368	CA	GLU	49	143.488	157.110	-28.521	1.00135.99	BS
ATOM	5316	C	ILE	42						ATOM	5369	CB	GLU	49					BS
ATOM	5317	O	ILE	42						ATOM	5370	CG	GLU	49					BS
ATOM	5318	N	ASP	43						ATOM	5371	CD	GLU	49					BS

ATOM	5372	OE1	GLU	49	142.641	156.499	-27.833	1.00135.99	BS2	ATOM	5425	CD2	PHE	55	152.587	165.000	-20.460	1.00 92.82	BS.
ATOM	5373	OE2	GLU	49	143.738	156.820	-29.713	1.00135.99	BS2	ATOM	5426	CE1	PHE	55	154.062	162.717	-21.029	1.00 92.82	BS.
ATOM	5374	C	GLU	49	146.528	158.464	-24.744	1.00 63.64	BS2	ATOM	5427	CE2	PHE	55	153.721	165.086	-21.258	1.00 92.82	BS.
ATOM	5375	O	GLU	49	146.120	158.572	-23.584	1.00 63.64	BS2	ATOM	5428	CZ	PHE	55	154.461	163.946	-21.545	1.00 92.82	BS.
ATOM	5376	N	GLU	50	147.694	157.906	-25.051	1.00 79.71	BS2	ATOM	5429	C	PHE	55	149.600	162.458	-17.372	1.00 95.74	BS.
ATOM	5377	CA	GLU	50	148.596	157.376	-24.045	1.00 97.60	BS2	ATOM	5430	O	PHE	55	148.582	162.537	-18.052	1.00 95.74	BS.
ATOM	5378	CB	GLU	50	149.714	156.583	-24.708	1.00 97.60	BS2	ATOM	5431	N	ARG	56	149.596	162.542	-16.044	1.00 75.35	BS.
ATOM	5379	CG	GLU	50	149.257	155.295	-25.361	1.00 97.60	BS2	ATOM	5432	CA	ARG	56	148.358	162.428	-15.270	1.00 75.35	BS.
ATOM	5380	CD	GLU	50	148.552	154.365	-24.391	1.00 97.60	BS2	ATOM	5433	CB	ARG	56	147.317	161.606	-16.035	1.00105.75	BS.
ATOM	5381	OE1	GLU	50	148.960	154.316	-23.208	1.00 97.60	BS2	ATOM	5434	CG	ARG	56	145.921	161.552	-15.451	1.00105.75	BS.
ATOM	5382	OE2	GLU	50	147.599	153.677	-24.822	1.00 97.60	BS2	ATOM	5435	CD	ARG	56	145.062	160.671	-16.351	1.00105.75	BS.
ATOM	5383	C	GLU	50	149.195	158.511	-23.233	1.00 79.71	BS2	ATOM	5436	NE	ARG	56	143.756	160.337	-15.787	1.00105.75	BS.
ATOM	5384	O	GLU	51	149.223	158.452	-22.005	1.00 79.71	BS2	ATOM	5437	CZ	ARG	56	142.993	159.332	-16.218	1.00105.75	BS.
ATOM	5385	N	LEU	51	149.692	159.534	-23.920	1.00 63.82	BS2	ATOM	5438	NH1	ARG	56	143.408	158.561	-17.219	1.00105.75	BS.
ATOM	5386	CA	LEU	51	150.268	160.688	-23.243	1.00 63.82	BS2	ATOM	5439	NH2	ARG	56	141.813	159.094	-15.653	1.00105.75	BS.
ATOM	5387	CB	LEU	51	150.489	161.824	-24.235	1.00 47.03	BS2	ATOM	5440	C	ARG	56	148.881	161.627	-14.107	1.00 75.35	BS.
ATOM	5388	CG	LEU	51	151.846	161.904	-24.921	1.00 47.03	BS2	ATOM	5441	O	ARG	56	148.643	161.941	-12.939	1.00 75.35	BS.
ATOM	5389	CD1	LEU	51	151.750	162.754	-26.172	1.00 47.03	BS2	ATOM	5442	N	PHE	57	149.613	160.580	-14.462	1.00 56.86	BS.
ATOM	5390	CD2	LEU	51	152.855	162.477	-23.952	1.00 47.03	BS2	ATOM	5443	CA	PHE	57	150.248	159.722	-13.490	1.00 56.86	BS.
ATOM	5391	C	LEU	51	149.301	161.161	-22.171	1.00 63.82	BS2	ATOM	5444	CB	PHE	57	150.865	158.493	-14.185	1.00 48.15	BS.
ATOM	5392	O	LEU	51	149.648	161.259	-20.991	1.00 63.82	BS2	ATOM	5445	CG	PHE	57	151.726	157.663	-13.282	1.00 48.15	BS.
ATOM	5393	N	GLU	52	148.075	161.439	-22.599	1.00 74.78	BS2	ATOM	5446	CD1	PHE	57	151.164	156.921	-12.253	1.00 48.15	BS.
ATOM	5394	CA	GLU	52	147.041	161.919	-21.704	1.00 74.78	BS2	ATOM	5447	CD2	PHE	57	153.109	157.723	-13.378	1.00 48.15	BS.
ATOM	5395	CB	GLU	52	145.678	161.831	-22.390	1.00158.46	BS2	ATOM	5448	CE1	PHE	57	151.965	156.264	-11.327	1.00 48.15	BS.
ATOM	5396	CG	GLU	52	144.575	162.587	-21.673	1.00158.46	BS2	ATOM	5449	CE2	PHE	57	153.915	157.066	-12.449	1.00 48.15	BS.
ATOM	5397	CD	GLU	52	143.235	162.479	-22.378	1.00158.46	BS2	ATOM	5450	CZ	PHE	57	153.324	160.627	-12.887	1.00 56.86	BS.
ATOM	5398	OE1	GLU	52	142.684	161.356	-22.436	1.00158.46	BS2	ATOM	5451	O	PHE	57	151.324	160.627	-12.887	1.00 56.86	BS.
ATOM	5399	OE2	GLU	52	142.739	163.517	-22.872	1.00158.46	BS2	ATOM	5452	C	PHE	57	151.495	160.660	-11.669	1.00 56.86	BS.
ATOM	5400	C	GLU	52	147.020	161.126	-20.400	1.00 74.78	BS2	ATOM	5453	N	ILE	58	152.018	161.379	-13.747	1.00 62.89	BS.
ATOM	5401	O	GLU	52	146.801	161.691	-19.331	1.00 74.78	BS2	ATOM	5454	CA	ILE	58	153.670	162.316	-13.314	1.00 62.89	BS.
ATOM	5402	N	ARG	53	147.257	159.821	-20.491	1.00 89.10	BS2	ATOM	5455	CB	ILE	58	153.611	163.176	-14.463	1.00111.76	BS.
ATOM	5403	CA	ARG	53	147.246	158.956	-19.316	1.00 89.10	BS2	ATOM	5456	CG	ILE	58	154.908	162.607	-14.999	1.00111.76	BS.
ATOM	5404	CB	ARG	53	146.933	157.525	-19.755	1.00 65.65	BS2	ATOM	5457	CG1	ILE	58	152.506	163.366	-15.501	1.00111.76	BS.
ATOM	5405	CG	ARG	53	146.718	156.540	-18.625	1.00 65.65	BS2	ATOM	5458	CD1	ILE	58	152.773	164.507	-16.461	1.00111.76	BS.
ATOM	5406	CD	ARG	53	146.312	155.174	-19.177	1.00 65.65	BS2	ATOM	5459	C	ILE	58	152.521	163.312	-12.312	1.00 62.89	BS.
ATOM	5407	NE	ARG	53	146.538	154.082	-18.262	1.00 65.65	BS2	ATOM	5460	O	ILE	58	152.960	163.355	-11.166	1.00 62.89	BS.
ATOM	5408	CZ	ARG	53	147.874	153.647	-18.024	1.00 65.65	BS2	ATOM	5461	N	GLU	59	151.584	164.142	-12.773	1.00 79.47	BS.
ATOM	5409	NH1	ARG	53	148.916	154.206	-18.631	1.00 65.65	BS2	ATOM	5462	CA	GLU	59	150.962	165.132	-11.907	1.00 79.47	BS.
ATOM	5410	NH2	ARG	53	148.071	152.649	-17.176	1.00 65.65	BS2	ATOM	5463	CB	GLU	59	149.615	165.592	-12.461	1.00110.56	BS.
ATOM	5411	C	ARG	53	148.559	159.013	-18.519	1.00 89.10	BS2	ATOM	5464	CG	GLU	59	148.299	167.287	-13.749	1.00110.56	BS.
ATOM	5412	O	ARG	53	148.547	159.218	-17.304	1.00 89.10	BS2	ATOM	5465	CD	GLU	59	147.357	166.530	-14.077	1.00110.56	BS.
ATOM	5413	N	THR	54	149.686	158.830	-19.202	1.00 66.04	BS2	ATOM	5466	OE1	GLU	59	148.161	168.523	-13.606	1.00110.56	BS.
ATOM	5414	CA	THR	54	150.992	158.881	-18.555	1.00 66.04	BS2	ATOM	5467	OE2	GLU	59	148.712	164.455	-10.580	1.00 79.47	BS.
ATOM	5415	CB	THR	54	152.109	158.785	-19.583	1.00 69.79	BS2	ATOM	5468	C	GLU	59	149.850	163.445	-10.615	1.00 63.10	BS.
ATOM	5416	OG1	THR	54	151.980	157.550	-20.298	1.00 69.79	BS2	ATOM	5469	O	GLU	59	151.283	164.833	-9.553	1.00 79.47	BS.
ATOM	5417	CG2	THR	54	153.466	158.844	-18.900	1.00 69.79	BS2	ATOM	5470	N	ASP	60	148.901	162.708	-9.416	1.00 63.10	BS.
ATOM	5418	C	THR	54	151.081	160.219	-17.862	1.00 66.04	BS2	ATOM	5471	CA	ASP	60	148.920	161.361	-9.780	1.00124.10	BS.
ATOM	5419	O	THR	54	151.300	160.297	-16.657	1.00 66.04	BS2	ATOM	5472	CB	ASP	60	148.645	160.495	-8.566	1.00124.10	BS.
ATOM	5420	N	PHE	55	150.942	161.283	-18.639	1.00 95.74	BS2	ATOM	5473	CG	ASP	60	147.994	160.991	-7.622	1.00124.10	BS.
ATOM	5421	CA	PHE	55	150.942	162.608	-18.055	1.00 95.74	BS2	ATOM	5474	OD1	ASP	60	149.092	159.325	-8.563	1.00124.10	BS.
ATOM	5422	CB	PHE	55	150.915	163.688	-19.134	1.00 92.82	BS2	ATOM	5475	OD2	ASP	60	150.783	162.497	-8.591	1.00 63.10	BS.
ATOM	5423	CG	PHE	55	152.176	163.779	-19.942	1.00 92.82	BS2	ATOM	5476	C	ASP	60	150.851	162.905	-7.431	1.00 63.10	BS.
ATOM	5424	CD1	PHE	55	152.924	162.639	-20.233	1.00 92.82	BS2	ATOM	5477	O	ASP	60					BS.

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ATOM	5478	N	LEU	61	151.789	161.883	-9.205	1.00	55.46	BS2	ATOM	5531	C	ILE	68	162.777	160.057	-11.038	1.00	61.88	BS2
ATOM	5479	CA	LEU	61	153.049	161.603	-8.524	1.00	55.46	BS2	ATOM	5532	O	ILE	68	163.434	161.056	-11.308	1.00	61.88	BS2
ATOM	5480	CB	LEU	61	153.989	160.819	-9.453	1.00	62.77	BS2	ATOM	5533	N	LEU	69	163.244	158.824	-11.186	1.00	60.47	BS2
ATOM	5481	CG	LEU	61	154.999	159.777	-8.943	1.00	62.77	BS2	ATOM	5534	CA	LEU	69	164.578	158.567	-11.722	1.00	60.47	BS2
ATOM	5482	CD1	LEU	61	156.400	160.220	-9.305	1.00	62.77	BS2	ATOM	5535	CB	LEU	69	165.010	157.157	-11.353	1.00	52.72	BS2
ATOM	5483	CD2	LEU	61	154.865	159.567	-7.454	1.00	62.77	BS2	ATOM	5536	CG	LEU	69	166.470	156.895	-11.008	1.00	52.72	BS2
ATOM	5484	C	LEU	61	153.719	162.892	-8.068	1.00	55.46	BS2	ATOM	5537	CD1	LEU	69	166.599	155.450	-10.513	1.00	52.72	BS2
ATOM	5485	O	LEU	61	153.969	163.065	-6.879	1.00	55.46	BS2	ATOM	5538	CD2	LEU	69	167.353	157.142	-12.228	1.00	52.72	BS2
ATOM	5486	N	ALA	62	154.000	163.793	-9.011	1.00	57.80	BS2	ATOM	5539	C	LEU	69	164.369	158.662	-13.226	1.00	60.47	BS2
ATOM	5487	CA	ALA	62	154.646	165.077	-8.710	1.00	57.80	BS2	ATOM	5540	O	LEU	69	163.389	158.129	-13.727	1.00	60.47	BS2
ATOM	5488	CB	ALA	62	154.554	165.996	-9.898	1.00	48.72	BS2	ATOM	5541	N	PHE	70	165.258	159.423	-13.963	1.00	75.15	BS2
ATOM	5489	C	ALA	62	154.032	165.752	-7.495	1.00	57.80	BS2	ATOM	5542	CA	PHE	70	165.016	159.423	-15.396	1.00	75.15	BS2
ATOM	5490	O	ALA	62	154.727	166.013	-6.515	1.00	57.80	BS2	ATOM	5543	CB	PHE	70	165.259	160.856	-15.861	1.00	50.00	BS2
ATOM	5491	N	MET	63	152.732	166.034	-7.570	1.00	70.06	BS2	ATOM	5544	CG	PHE	70	164.033	161.724	-15.738	1.00	50.00	BS2
ATOM	5492	CA	MET	63	152.011	166.661	-6.469	1.00	70.06	BS2	ATOM	5545	CD1	PHE	70	163.321	162.117	-16.870	1.00	50.00	BS2
ATOM	5493	CB	MET	63	150.508	166.530	-6.656	1.00	37.05	BS2	ATOM	5546	CD2	PHE	70	163.321	162.117	-16.870	1.00	50.00	BS2
ATOM	5494	CG	MET	63	149.890	167.453	-7.655	1.00	37.05	BS2	ATOM	5547	CE1	PHE	70	162.132	162.849	-16.759	1.00	50.00	BS2
ATOM	5495	SD	MET	63	148.109	167.379	-7.409	1.00	37.05	BS2	ATOM	5548	CE2	PHE	70	161.649	163.198	-15.508	1.00	50.00	BS2
ATOM	5496	CE	MET	63	147.774	165.674	-7.918	1.00	37.05	BS2	ATOM	5549	CZ	PHE	70	165.650	158.388	-16.332	1.00	75.15	BS2
ATOM	5497	C	MET	63	152.348	166.007	-5.143	1.00	70.06	BS2	ATOM	5550	O	PHE	70	164.950	157.850	-17.194	1.00	75.15	BS2
ATOM	5498	O	MET	63	152.931	166.627	-4.261	1.00	70.06	BS2	ATOM	5551	C	PHE	70	166.942	158.099	-16.200	1.00	51.79	BS2
ATOM	5499	N	ARG	64	151.959	164.748	-5.006	1.00	57.46	BS2	ATOM	5552	N	VAL	71	166.751	155.709	-17.799	1.00	61.58	BS2
ATOM	5500	CA	ARG	64	152.188	164.005	-3.779	1.00	57.46	BS2	ATOM	5553	CB	VAL	71	167.529	157.038	-17.043	1.00	51.79	BS2
ATOM	5501	CB	ARG	64	151.914	162.516	-4.013	1.00	48.96	BS2	ATOM	5554	CA	VAL	71	166.274	154.618	-17.702	1.00	61.58	BS2
ATOM	5502	CG	ARG	64	150.496	162.219	-4.471	1.00	48.96	BS2	ATOM	5555	CG1	VAL	71	167.274	154.618	-17.702	1.00	61.58	BS2
ATOM	5503	CD	ARG	64	150.257	160.729	-4.647	1.00	48.96	BS2	ATOM	5556	CG2	VAL	71	166.859	155.299	-15.332	1.00	61.58	BS2
ATOM	5504	NE	ARG	64	148.883	160.455	-5.063	1.00	48.96	BS2	ATOM	5557	O	VAL	71	167.588	157.277	-18.569	1.00	51.79	BS2
ATOM	5505	CZ	ARG	64	148.384	159.239	-5.273	1.00	48.96	BS2	ATOM	5558	C	VAL	71	166.648	156.942	-19.282	1.00	51.79	BS2
ATOM	5506	NH1	ARG	64	149.145	158.164	-5.106	1.00	48.96	BS2	ATOM	5559	N	GLY	72	168.703	157.819	-19.060	1.00	88.99	BS2
ATOM	5507	NH2	ARG	64	147.119	159.096	-5.654	1.00	48.96	BS2	ATOM	5560	CA	GLY	72	168.843	158.085	-20.486	1.00	88.99	BS2
ATOM	5508	C	ARG	64	153.589	164.190	-3.211	1.00	57.46	BS2	ATOM	5561	O	GLY	72	169.938	157.266	-21.160	1.00	88.99	BS2
ATOM	5509	O	ARG	64	153.851	163.772	-2.086	1.00	57.46	BS2	ATOM	5562	O	GLY	72	169.714	156.637	-22.198	1.00	88.99	BS2
ATOM	5510	N	GLY	65	154.476	164.822	-3.981	1.00	57.17	BS2	ATOM	5563	N	THR	73	171.129	157.293	-20.572	1.00	64.25	BS2
ATOM	5511	CA	GLY	65	155.848	165.033	-3.544	1.00	57.17	BS2	ATOM	5564	CA	THR	73	172.229	155.096	-20.578	1.00	66.65	BS2
ATOM	5512	C	GLY	65	156.735	164.030	-4.258	1.00	57.17	BS2	ATOM	5565	CB	THR	73	172.125	155.067	-19.151	1.00	66.65	BS2
ATOM	5513	O	GLY	65	157.823	163.686	-3.793	1.00	57.17	BS2	ATOM	5566	CG1	THR	73	173.471	154.340	-20.986	1.00	66.65	BS2
ATOM	5514	N	GLY	66	156.228	163.565	-5.397	1.00	76.04	BS2	ATOM	5567	CG2	THR	73	172.664	156.564	-22.541	1.00	64.25	BS2
ATOM	5515	CA	GLY	66	156.879	162.582	-6.250	1.00	76.04	BS2	ATOM	5568	C	THR	73	173.817	156.833	-22.882	1.00	64.25	BS2
ATOM	5516	C	GLY	66	158.249	161.989	-5.973	1.00	76.04	BS2	ATOM	5569	O	THR	73	173.817	156.833	-22.882	1.00	64.25	BS2
ATOM	5517	O	GLY	66	158.525	161.471	-4.891	1.00	76.04	BS2	ATOM	5570	N	LYS	74	171.730	156.277	-23.440	1.00	63.36	BS2
ATOM	5518	N	THR	67	159.079	162.055	-7.014	1.00	51.27	BS2	ATOM	5571	CA	LYS	74	172.095	156.288	-24.853	1.00	63.36	BS2
ATOM	5519	CA	THR	67	160.467	161.560	-7.095	1.00	51.27	BS2	ATOM	5572	CB	LYS	74	170.985	155.679	-25.709	1.00	55.18	BS2
ATOM	5520	CB	THR	67	160.928	160.749	-5.888	1.00	57.67	BS2	ATOM	5573	CG	LYS	74	169.763	156.536	-25.983	1.00	55.18	BS2
ATOM	5521	OG1	THR	67	160.930	161.570	-4.126	1.00	57.67	BS2	ATOM	5574	CE	LYS	74	168.849	155.748	-26.927	1.00	55.18	BS2
ATOM	5522	CG2	THR	67	162.332	160.257	-6.116	1.00	57.67	BS2	ATOM	5575	CD	LYS	74	167.653	156.534	-27.424	1.00	55.18	BS2
ATOM	5523	C	THR	67	160.501	160.623	-8.291	1.00	51.27	BS2	ATOM	5576	NZ	LYS	74	166.968	155.799	-28.529	1.00	55.18	BS2
ATOM	5524	O	THR	67	159.834	159.593	-8.295	1.00	51.27	BS2	ATOM	5577	C	LYS	74	172.452	157.676	-28.375	1.00	63.36	BS2
ATOM	5525	N	ILE	68	161.275	160.983	-9.305	1.00	61.88	BS2	ATOM	5578	N	LYS	75	171.778	158.657	-25.055	1.00	63.36	BS2
ATOM	5526	CA	ILE	68	161.360	160.182	-10.511	1.00	61.88	BS2	ATOM	5579	CA	LYS	75	173.518	157.748	-26.176	1.00	96.32	BS2
ATOM	5527	CB	ILE	68	160.508	160.800	-11.616	1.00	36.37	BS2	ATOM	5580	CA	LYS	75	173.989	159.009	-26.759	1.00	96.32	BS2
ATOM	5528	CG2	ILE	68	160.566	159.948	-12.864	1.00	36.37	BS2	ATOM	5581	CB	LYS	75	174.869	158.737	-27.983	1.00	129.34	BS2
ATOM	5529	CG1	ILE	68	159.071	160.928	-11.144	1.00	36.37	BS2	ATOM	5582	CG	LYS	75	176.337	158.528	-27.657	1.00	129.34	BS2
ATOM	5530	CD1	ILE	68	158.126	161.391	-12.243	1.00	36.37	BS2	ATOM	5583	CD	LYS	75	176.886	159.732	-26.905	1.00	129.34	BS2

ATOM	5584	CE	LYS	75	178.391	159.641	-26.705	1.00129.34	BS2	ATOM	5637	CG	ARG	82	172.509	167.172	-16.760	1.00113.63	BS
ATOM	5585	NZ	LYS	75	179.134	159.707	-28.000	1.00129.34	BS2	ATOM	5638	CD	ARG	82	174.003	167.328	-16.910	1.00113.63	BS
ATOM	5586	C	LYS	75	172.847	159.930	-27.154	1.0096.32	BS2	ATOM	5639	NE	ARG	82	174.689	166.056	-16.720	1.00113.63	BS
ATOM	5587	O	LYS	75	172.747	161.051	-26.658	1.0096.32	BS2	ATOM	5640	CZ	ARG	82	175.900	165.930	-16.188	1.00113.63	BS
ATOM	5588	N	GLN	76	171.999	159.469	-28.066	1.00108.97	BS2	ATOM	5641	NH1	ARG	82	176.566	167.004	-15.780	1.00113.63	BS
ATOM	5589	CA	GLN	76	170.849	160.261	-28.469	1.00108.97	BS2	ATOM	5642	NH2	ARG	82	176.448	164.727	-16.072	1.00113.63	BS
ATOM	5590	CB	GLN	76	169.953	159.450	-29.406	1.00119.66	BS2	ATOM	5643	C	ARG	82	169.710	167.193	-17.282	1.0071.95	BS
ATOM	5591	CD	GLN	76	170.490	159.337	-30.811	1.00119.66	BS2	ATOM	5644	O	ARG	82	169.211	167.500	-16.201	1.0071.95	BS
ATOM	5592	CG	GLN	76	170.232	160.532	-31.622	1.00119.66	BS2	ATOM	5645	N	MET	83	169.633	167.988	-18.337	1.0096.25	BS
ATOM	5593	OE1	GLN	76	170.295	161.709	-31.103	1.00119.66	BS2	ATOM	5646	CA	MET	83	168.949	169.256	-18.204	1.0096.25	BS
ATOM	5594	NE2	GLN	76	169.951	160.415	-32.908	1.00119.66	BS2	ATOM	5647	CB	MET	83	168.784	169.922	-19.566	1.00132.91	BS
ATOM	5595	C	GLN	76	170.104	160.572	-27.174	1.00108.97	BS2	ATOM	5648	CG	MET	83	170.101	170.254	-20.239	1.00132.91	BS
ATOM	5596	O	GLN	76	169.797	159.667	-26.396	1.00108.97	BS2	ATOM	5649	SD	MET	83	169.878	171.435	-21.573	1.00132.91	BS
ATOM	5597	N	ALA	77	169.841	161.847	-26.922	1.0079.47	BS2	ATOM	5650	CE	MET	83	168.608	170.607	-22.527	1.00132.91	BS
ATOM	5598	CA	ALA	77	169.130	162.235	-25.708	1.0079.47	BS2	ATOM	5651	C	MET	83	167.592	169.071	-17.533	1.0096.25	BS
ATOM	5599	CB	ALA	77	167.723	161.663	-25.729	1.0080.84	BS2	ATOM	5652	O	MET	83	167.444	169.345	-16.341	1.0096.25	BS
ATOM	5600	C	ALA	77	169.832	161.814	-24.415	1.0079.47	BS2	ATOM	5653	N	GLU	84	166.613	168.588	-18.291	1.0072.06	BS
ATOM	5601	O	ALA	77	169.188	161.353	-23.474	1.0079.47	BS2	ATOM	5654	CA	GLU	84	165.261	168.378	-17.777	1.0072.06	BS
ATOM	5602	N	GLN	78	171.148	161.971	-24.370	1.0071.56	BS2	ATOM	5655	CB	GLU	84	164.475	167.510	-18.755	1.0076.40	BS
ATOM	5603	CA	GLN	78	171.905	161.619	-23.173	1.0071.56	BS2	ATOM	5656	CG	GLU	84	164.646	167.889	-20.217	1.0076.40	BS
ATOM	5604	CG	GLN	78	173.291	161.101	-23.551	1.0092.24	BS2	ATOM	5657	OE1	GLU	84	164.034	169.236	-20.569	1.0076.40	BS
ATOM	5605	CD	GLN	78	174.073	160.544	-22.387	1.0092.24	BS2	ATOM	5658	OE1	GLU	84	162.844	169.455	-20.245	1.0076.40	BS
ATOM	5606	CD	GLN	78	175.530	160.300	-22.731	1.0092.24	BS2	ATOM	5659	OE2	GLU	84	164.743	170.071	-21.185	1.0076.40	BS
ATOM	5607	OE1	GLN	78	175.847	159.686	-23.753	1.0092.24	BS2	ATOM	5660	C	GLU	84	165.224	167.738	-16.380	1.0072.06	BS
ATOM	5608	NE2	GLN	78	176.429	160.776	-21.872	1.0092.24	BS2	ATOM	5661	O	GLU	84	164.462	168.166	-15.515	1.0072.06	BS
ATOM	5609	C	GLN	78	172.045	162.867	-22.340	1.0071.56	BS2	ATOM	5662	N	ALA	85	166.043	166.714	-16.163	1.0068.53	BS
ATOM	5610	O	GLN	78	172.055	162.846	-21.117	1.0071.56	BS2	ATOM	5663	CA	ALA	85	166.080	166.032	-14.870	1.0068.53	BS
ATOM	5611	N	ASP	79	172.151	164.020	-23.024	1.0085.13	BS2	ATOM	5664	CB	ALA	85	167.096	164.890	-14.900	1.0064.25	BS
ATOM	5612	CA	ASP	79	172.284	165.303	-22.351	1.0085.13	BS2	ATOM	5665	C	ALA	85	166.429	167.003	-13.749	1.0068.53	BS
ATOM	5613	CB	ASP	79	173.066	166.279	-23.223	1.00131.00	BS2	ATOM	5666	O	ALA	86	165.857	166.945	-12.656	1.0068.53	BS
ATOM	5614	CG	ASP	79	174.360	165.686	-23.736	1.00131.00	BS2	ATOM	5667	N	GLU	86	167.387	167.882	-14.027	1.0078.83	BS
ATOM	5615	OD1	ASP	79	175.217	165.314	-22.903	1.00131.00	BS2	ATOM	5668	CA	GLU	86	167.829	168.884	-13.067	1.0078.83	BS
ATOM	5616	OD2	ASP	79	174.517	165.588	-24.973	1.00131.00	BS2	ATOM	5669	CB	GLU	86	169.220	169.398	-13.432	1.00134.22	BS
ATOM	5617	C	ASP	79	170.889	165.839	-22.117	1.0085.13	BS2	ATOM	5670	CG	GLU	86	170.273	168.319	-13.545	1.00134.22	BS
ATOM	5618	O	ASP	79	170.605	166.422	-21.072	1.0083.96	BS2	ATOM	5671	CD	GLU	86	171.574	168.849	-14.111	1.00134.22	BS
ATOM	5619	N	ILE	80	170.018	165.622	-23.100	1.0083.96	BS2	ATOM	5672	OE1	GLU	86	171.543	169.438	-15.215	1.00134.22	BS
ATOM	5620	CA	ILE	80	168.637	166.078	-23.018	1.0083.96	BS2	ATOM	5673	OE2	GLU	86	172.625	168.676	-13.458	1.00134.22	BS
ATOM	5621	CB	ILE	80	167.813	165.591	-24.222	1.0071.34	BS2	ATOM	5674	C	GLU	86	166.839	170.031	-13.127	1.0078.83	BS
ATOM	5622	CG2	ILE	80	166.425	166.190	-24.176	1.0071.34	BS2	ATOM	5675	O	GLU	86	166.590	170.699	-12.128	1.0078.83	BS
ATOM	5623	CG1	ILE	80	168.496	166.019	-25.521	1.0071.34	BS2	ATOM	5676	N	ARG	87	166.275	170.264	-14.307	1.0077.21	BS
ATOM	5624	CD1	ILE	80	167.814	165.521	-26.784	1.0083.96	BS2	ATOM	5677	CA	ARG	87	165.310	171.337	-14.452	1.0077.21	BS
ATOM	5625	C	ILE	80	167.998	165.570	-21.734	1.0083.96	BS2	ATOM	5678	CG	ARG	87	164.796	171.414	-15.886	1.0069.47	BS
ATOM	5626	O	ILE	80	166.952	166.057	-21.315	1.0082.06	BS2	ATOM	5679	CB	ARG	87	164.390	172.812	-16.278	1.0069.47	BS
ATOM	5627	N	VAL	81	168.636	164.586	-21.110	1.0082.06	BS2	ATOM	5680	CD	ARG	87	162.920	172.916	-16.564	1.0069.47	BS
ATOM	5628	CA	VAL	81	168.140	164.039	-19.858	1.0082.06	BS2	ATOM	5681	NE	ARG	87	162.549	172.216	-17.789	1.0069.47	BS
ATOM	5629	CB	VAL	81	168.687	162.612	-19.607	1.0058.06	BS2	ATOM	5682	CZ	ARG	87	161.325	172.242	-18.313	1.0069.47	BS
ATOM	5630	CG1	VAL	81	168.492	162.215	-18.146	1.0058.06	BS2	ATOM	5683	NH1	ARG	87	160.363	172.936	-19.433	1.0069.47	BS
ATOM	5631	CG2	VAL	81	167.974	161.629	-20.513	1.0058.06	BS2	ATOM	5684	NH2	ARG	87	161.056	171.576	-19.433	1.0069.47	BS
ATOM	5632	C	VAL	81	168.588	164.965	-18.737	1.0082.06	BS2	ATOM	5685	C	ARG	87	164.180	171.020	-13.481	1.0077.21	BS
ATOM	5633	O	VAL	81	167.768	165.632	-18.111	1.0082.06	BS2	ATOM	5686	O	ARG	87	163.707	171.894	-12.752	1.0077.21	BS
ATOM	5634	N	ARG	82	169.896	165.016	-18.503	1.0071.95	BS2	ATOM	5687	N	ALA	88	163.748	169.762	-13.470	1.0099.36	BS
ATOM	5635	CA	ARG	82	170.453	165.863	-17.453	1.0071.95	BS2	ATOM	5688	CA	ALA	88	162.719	169.336	-12.533	1.0099.36	BS
ATOM	5636	CB	ARG	82	171.932	166.150	-17.719	1.00113.63	BS2	ATOM	5689	CB	ALA	88	162.142	167.999	-12.949	1.0055.20	BS

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ATOM	5690	C	ALA	88	163.526	169.193	-11.253	1.00	99.36	BS2	ATOM	5743	OE1	GLN	95	178.992	156.921	-19.781	1.00	100.49.36	BS
ATOM	5691	O	ALA	88	164.582	169.804	-11.123	1.00	99.36	BS2	ATOM	5744	ME2	GLN	95	180.804	156.790	-18.453	1.00	100.49.36	BS
ATOM	5692	N	GLY	89	163.072	168.391	-10.307	1.00	67.34	BS2	ATOM	5745	C	GLN	95	176.172	155.954	-18.409	1.00	76.79	BS
ATOM	5693	CA	GLY	89	163.872	168.271	-9.103	1.00	67.34	BS2	ATOM	5746	O	GLN	95	175.889	155.609	-19.564	1.00	76.79	BS
ATOM	5694	C	GLY	89	164.469	166.892	-8.909	1.00	67.34	BS2	ATOM	5747	N	ARG	96	176.250	155.093	-17.399	1.00	69.48	BS
ATOM	5695	O	GLY	89	165.104	166.620	-7.883	1.00	67.34	BS2	ATOM	5748	CA	ARG	96	175.965	153.678	-17.585	1.00	69.48	BS
ATOM	5696	N	MET	90	164.302	166.026	-9.906	1.00	74.63	BS2	ATOM	5749	CB	ARG	96	177.254	152.869	-17.711	1.00	31.52	BS
ATOM	5697	CA	MET	90	164.775	164.655	-9.778	1.00	74.63	BS2	ATOM	5750	CG	ARG	96	177.016	151.443	-18.182	1.00	31.52	BS
ATOM	5698	CB	MET	90	163.697	163.698	-10.280	1.00	71.85	BS2	ATOM	5751	CD	ARG	96	177.092	151.332	-19.709	1.00	31.52	BS
ATOM	5699	CD	MET	90	162.562	163.486	-9.298	1.00	71.85	BS2	ATOM	5752	CE	ARG	96	176.420	152.350	-20.424	1.00	31.52	BS
ATOM	5700	SD	MET	90	161.384	164.807	-9.402	1.00	71.85	BS2	ATOM	5753	CZ	ARG	96	176.420	152.350	-20.424	1.00	31.52	BS
ATOM	5701	CE	MET	90	161.643	165.325	-11.158	1.00	71.85	BS2	ATOM	5754	NH1	ARG	96	177.262	151.864	-22.470	1.00	31.52	BS
ATOM	5702	C	MET	90	166.110	164.192	-10.342	1.00	74.63	BS2	ATOM	5755	NH2	ARG	96	175.696	153.526	-22.309	1.00	31.52	BS
ATOM	5703	O	MET	90	166.738	164.873	-11.154	1.00	74.63	BS2	ATOM	5756	C	ARG	96	175.171	153.152	-16.395	1.00	69.48	BS
ATOM	5704	N	PRO	91	166.550	162.995	-9.892	1.00	68.98	BS2	ATOM	5757	O	ARG	96	175.609	153.265	-15.254	1.00	69.48	BS
ATOM	5705	CD	PRO	91	165.919	162.291	-8.761	1.00	57.75	BS2	ATOM	5758	N	TRP	97	174.006	152.573	-16.651	1.00	62.19	BS
ATOM	5706	CA	PRO	91	167.786	162.308	-10.264	1.00	68.98	BS2	ATOM	5759	CA	TRP	97	173.203	152.046	-15.562	1.00	62.19	BS
ATOM	5707	CB	PRO	91	167.880	161.175	-9.247	1.00	57.75	BS2	ATOM	5760	CB	TRP	97	171.898	151.461	-16.103	1.00	74.08	BS
ATOM	5708	CG	PRO	91	167.098	161.676	-8.086	1.00	57.75	BS2	ATOM	5761	CG	TRP	97	170.757	151.688	-15.180	1.00	74.08	BS
ATOM	5709	C	PRO	91	167.696	161.757	-11.670	1.00	68.98	BS2	ATOM	5762	CD2	TRP	97	170.255	150.773	-14.217	1.00	74.08	BS
ATOM	5710	O	PRO	91	166.680	161.904	-12.349	1.00	68.98	BS2	ATOM	5763	CE2	TRP	97	169.223	151.440	-13.501	1.00	74.08	BS
ATOM	5711	N	TYR	92	168.767	161.098	-12.088	1.00	62.32	BS2	ATOM	5764	CE3	TRP	97	170.575	149.454	-13.879	1.00	74.08	BS
ATOM	5712	CA	TYR	92	168.828	160.515	-13.416	1.00	62.32	BS2	ATOM	5765	CE1	TRP	97	170.032	152.846	-15.026	1.00	74.08	BS
ATOM	5713	CB	TYR	92	168.878	161.625	-14.463	1.00	78.66	BS2	ATOM	5766	NE1	TRP	97	169.109	152.702	-14.016	1.00	74.08	BS
ATOM	5714	CG	TYR	92	170.122	162.473	-14.341	1.00	78.66	BS2	ATOM	5767	CE2	TRP	97	168.518	150.833	-12.475	1.00	74.08	BS
ATOM	5715	CD1	TYR	92	171.240	162.221	-15.131	1.00	78.66	BS2	ATOM	5768	CZ3	TRP	97	169.877	148.849	-12.859	1.00	74.08	BS
ATOM	5716	CE1	TYR	92	172.417	162.956	-14.971	1.00	78.66	BS2	ATOM	5769	CH2	TRP	97	168.856	149.541	-12.165	1.00	74.08	BS
ATOM	5717	CE2	TYR	92	170.208	163.486	-13.387	1.00	78.66	BS2	ATOM	5770	C	TRP	97	174.003	150.955	-14.862	1.00	62.19	BS
ATOM	5718	CD2	TYR	92	171.377	164.223	-13.218	1.00	78.66	BS2	ATOM	5771	O	TRP	97	174.351	149.958	-15.488	1.00	62.19	BS
ATOM	5719	CZ	TYR	92	172.476	163.952	-14.014	1.00	78.66	BS2	ATOM	5772	N	LEU	98	174.312	151.148	-13.580	1.00	44.03	BS
ATOM	5720	OH	TYR	92	173.637	164.666	-13.852	1.00	78.66	BS2	ATOM	5773	CA	LEU	98	175.064	150.150	-12.810	1.00	44.03	BS
ATOM	5721	C	TYR	92	170.093	159.888	-13.511	1.00	62.32	BS2	ATOM	5774	CB	LEU	98	175.754	150.792	-11.622	1.00	38.12	BS
ATOM	5722	O	TYR	92	171.039	159.883	-12.735	1.00	62.32	BS2	ATOM	5775	CG	LEU	98	176.582	152.086	-11.746	1.00	38.12	BS
ATOM	5723	N	VAL	93	170.085	158.733	-14.432	1.00	61.61	BS2	ATOM	5776	CD1	LEU	98	177.455	152.238	-10.500	1.00	38.12	BS
ATOM	5724	CA	VAL	93	171.268	157.932	-14.683	1.00	61.61	BS2	ATOM	5777	CD2	LEU	98	174.459	152.056	-12.981	1.00	38.12	BS
ATOM	5725	CB	VAL	93	171.027	156.446	-14.499	1.00	62.84	BS2	ATOM	5778	C	LEU	98	174.127	149.088	-12.245	1.00	44.03	BS
ATOM	5726	CG1	VAL	93	172.192	155.669	-15.087	1.00	62.84	BS2	ATOM	5779	O	LEU	98	173.212	149.429	-11.509	1.00	44.03	BS
ATOM	5727	CG2	VAL	93	170.917	156.138	-13.016	1.00	62.84	BS2	ATOM	5780	N	GLY	99	174.349	147.816	-12.564	1.00	44.31	BS
ATOM	5728	C	VAL	93	171.556	158.269	-16.131	1.00	61.61	BS2	ATOM	5781	CA	GLY	99	173.489	146.760	-12.036	1.00	44.31	BS
ATOM	5729	O	VAL	93	170.704	158.100	-17.008	1.00	61.61	BS2	ATOM	5782	C	GLY	99	173.305	146.834	-10.525	1.00	44.31	BS
ATOM	5730	N	ASN	94	172.762	158.777	-16.360	1.00	69.34	BS2	ATOM	5783	O	GLY	99	174.237	146.619	-9.756	1.00	44.31	BS
ATOM	5731	CA	ASN	94	173.166	159.235	-17.675	1.00	69.34	BS2	ATOM	5784	N	GLY	100	172.088	147.121	-10.092	1.00	79.37	BS
ATOM	5732	CB	ASN	94	173.521	160.717	-17.571	1.00	79.51	BS2	ATOM	5785	CA	GLY	100	171.815	147.264	-8.675	1.00	79.37	BS
ATOM	5733	CG	ASN	94	173.254	161.453	-18.840	1.00	79.51	BS2	ATOM	5786	C	GLY	100	170.985	148.522	-8.659	1.00	79.37	BS
ATOM	5734	OD1	ASN	94	172.729	160.879	-19.797	1.00	79.51	BS2	ATOM	5787	O	GLY	100	169.840	148.485	-9.096	1.00	79.37	BS
ATOM	5735	ND2	ASN	94	173.602	162.732	-18.870	1.00	79.51	BS2	ATOM	5788	N	MET	101	171.545	149.635	-8.194	1.00	66.07	BS
ATOM	5736	C	ASN	94	174.316	158.482	-18.327	1.00	69.34	BS2	ATOM	5789	CA	MET	101	170.810	150.895	-8.200	1.00	66.07	BS
ATOM	5737	O	ASN	94	174.289	158.228	-19.523	1.00	69.34	BS2	ATOM	5790	CB	MET	101	171.162	151.720	-9.445	1.00	56.69	BS
ATOM	5738	N	GLN	95	175.329	158.136	-17.547	1.00	76.79	BS2	ATOM	5791	CG	MET	101	172.620	152.078	-9.691	1.00	56.69	BS
ATOM	5739	CA	GLN	95	176.478	157.426	-18.086	1.00	76.79	BS2	ATOM	5792	SD	MET	101	172.764	153.389	-10.984	1.00	56.69	BS
ATOM	5740	CB	GLN	95	177.649	157.526	-17.105	1.00	149.36	BS2	ATOM	5793	CE	MET	101	171.427	152.995	-11.997	1.00	56.69	BS
ATOM	5741	CG	GLN	95	178.920	158.127	-17.702	1.00	149.36	BS2	ATOM	5794	C	MET	101	169.319	150.610	-8.306	1.00	66.07	BS
ATOM	5742	CD	GLN	95	179.578	157.223	-18.738	1.00	149.36	BS2	ATOM	5795	O	MET	101	168.777	150.763	-9.395	1.00	66.07	BS

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ATOM	5796	N	LEU	102	168.663	150.181	-7.228	1.00	72.48	BS2	ATOM	5849	CG2	ILE	108	174.112	152.899	-6.392	1.00	55.73	BS
ATOM	5797	CA	LEU	102	167.222	149.876	-7.262	1.00	72.48	BS2	ATOM	5850	CG1	ILE	108	174.533	150.460	-6.688	1.00	55.73	BS
ATOM	5798	CB	LEU	102	166.640	149.973	-8.673	1.00	22.17	BS2	ATOM	5851	CD1	ILE	108	174.982	149.169	-6.030	1.00	55.73	BS
ATOM	5799	CG	LEU	102	165.668	151.109	-8.992	1.00	22.17	BS2	ATOM	5852	C	ILE	108	175.039	152.885	-3.875	1.00	53.19	BS
ATOM	5800	CD1	LEU	102	166.386	152.445	-8.856	1.00	22.17	BS2	ATOM	5853	C	ILE	108	175.736	153.780	-4.331	1.00	53.19	BS
ATOM	5801	CD2	LEU	102	165.114	150.933	-10.410	1.00	22.17	BS2	ATOM	5854	N	SER	109	174.253	153.035	-2.818	1.00	61.37	BS
ATOM	5802	C	LEU	102	166.940	148.467	-6.800	1.00	72.48	BS2	ATOM	5855	CA	SER	109	174.156	154.295	-2.097	1.00	61.37	BS
ATOM	5803	O	LEU	102	165.794	148.108	-6.511	1.00	72.48	BS2	ATOM	5856	CB	SER	109	173.056	154.211	-1.043	1.00	81.83	BS
ATOM	5804	N	THR	103	167.977	147.653	-6.762	1.00	35.56	BS2	ATOM	5857	OG	SER	109	173.394	153.265	-0.040	1.00	81.83	BS
ATOM	5805	CA	THR	103	167.798	146.276	-6.375	1.00	35.56	BS2	ATOM	5858	C	SER	109	175.479	154.580	-1.412	1.00	61.37	BS
ATOM	5806	CB	THR	103	167.925	145.350	-7.619	1.00	36.23	BS2	ATOM	5859	O	SER	109	175.960	155.711	-1.435	1.00	61.37	BS
ATOM	5807	OG1	THR	103	166.629	145.158	-8.214	1.00	36.23	BS2	ATOM	5860	N	GLN	110	176.057	153.545	-0.799	1.00	57.61	BS
ATOM	5808	CG2	THR	103	168.514	144.032	-7.254	1.00	36.23	BS2	ATOM	5861	CA	GLN	110	177.327	153.674	-0.093	1.00	57.61	BS
ATOM	5809	C	THR	103	168.857	145.998	-5.350	1.00	35.56	BS2	ATOM	5862	CB	GLN	110	177.854	152.303	0.309	1.00	79.98	BS
ATOM	5810	O	THR	103	168.719	145.096	-4.518	1.00	35.56	BS2	ATOM	5863	CG	GLN	110	176.866	151.511	1.136	1.00	79.98	BS
ATOM	5811	N	ASN	104	169.921	146.792	-5.410	1.00	64.27	BS2	ATOM	5864	CD	GLN	110	177.411	150.169	1.136	1.00	79.98	BS
ATOM	5812	CA	ASN	104	171.003	146.659	-4.452	1.00	64.27	BS2	ATOM	5865	OE1	GLN	110	178.009	149.437	0.766	1.00	79.98	BS
ATOM	5813	CB	ASN	104	172.234	146.058	-5.099	1.00	53.53	BS2	ATOM	5866	NE2	GLN	110	177.197	149.830	2.847	1.00	79.98	BS
ATOM	5814	CG	ASN	104	173.263	145.638	-4.076	1.00	53.53	BS2	ATOM	5867	C	GLN	110	178.306	154.369	-1.015	1.00	57.61	BS
ATOM	5815	OD1	ASN	104	172.995	145.665	-2.876	1.00	53.53	BS2	ATOM	5868	O	GLN	110	179.157	155.148	-0.568	1.00	57.61	BS
ATOM	5816	ND2	ASN	104	174.442	145.242	-4.539	1.00	53.53	BS2	ATOM	5869	N	ARG	111	178.178	154.085	-2.308	1.00	75.54	BS
ATOM	5817	C	ASN	104	171.300	148.075	-3.956	1.00	64.27	BS2	ATOM	5870	CA	ARG	111	179.024	154.717	-3.311	1.00	75.54	BS
ATOM	5818	O	ASN	104	172.385	148.367	-3.443	1.00	62.45	BS2	ATOM	5871	CB	ARG	111	179.634	154.293	-4.715	1.00	71.32	BS
ATOM	5819	N	PHE	105	170.288	148.927	-4.122	1.00	62.45	BS2	ATOM	5872	CG	ARG	111	179.329	152.953	-5.167	1.00	71.32	BS
ATOM	5820	CA	PHE	105	170.292	150.340	-3.738	1.00	62.45	BS2	ATOM	5873	CD	ARG	111	180.828	153.191	-5.206	1.00	71.32	BS
ATOM	5821	CB	PHE	105	168.846	150.829	-3.612	1.00	43.37	BS2	ATOM	5874	CZ	ARG	111	181.404	153.010	-3.881	1.00	71.32	BS
ATOM	5822	CG	PHE	105	168.717	152.504	-3.377	1.00	43.37	BS2	ATOM	5875	CE	ARG	111	182.672	153.265	-3.580	1.00	71.32	BS
ATOM	5823	CD1	PHE	105	168.783	153.202	-4.444	1.00	43.37	BS2	ATOM	5876	NH1	ARG	111	183.502	153.724	-4.510	1.00	71.32	BS
ATOM	5824	CD2	PHE	105	168.533	152.802	-2.093	1.00	43.37	BS2	ATOM	5877	NH2	ARG	111	183.119	153.031	-2.354	1.00	71.32	BS
ATOM	5825	CE1	PHE	105	168.666	154.579	-4.235	1.00	43.37	BS2	ATOM	5878	C	ARG	111	178.823	156.224	-3.210	1.00	75.54	BS
ATOM	5826	CE2	PHE	105	168.419	154.170	-1.873	1.00	43.37	BS2	ATOM	5879	O	ARG	111	179.789	156.991	-3.240	1.00	75.54	BS
ATOM	5827	C2	PHE	105	168.485	155.059	-2.948	1.00	43.37	BS2	ATOM	5880	N	VAL	112	177.560	156.637	-3.090	1.00	61.44	BS
ATOM	5828	C	PHE	105	171.044	150.671	-2.455	1.00	62.45	BS2	ATOM	5881	CA	VAL	112	177.212	158.051	-2.979	1.00	61.44	BS
ATOM	5829	O	PHE	105	171.954	151.489	-2.473	1.00	62.45	BS2	ATOM	5882	CB	VAL	112	175.678	158.286	-3.064	1.00	55.47	BS
ATOM	5830	N	LYS	106	170.673	150.049	-1.340	1.00	55.42	BS2	ATOM	5883	CG1	VAL	112	175.385	159.780	-3.019	1.00	55.47	BS
ATOM	5831	CA	LYS	106	171.346	150.355	-0.084	1.00	55.42	BS2	ATOM	5884	CG2	VAL	112	175.114	157.687	-4.355	1.00	55.47	BS
ATOM	5832	CB	LYS	106	170.888	149.438	1.048	1.00	100.20.24	BS2	ATOM	5885	C	VAL	112	177.734	158.640	-1.647	1.00	61.44	BS
ATOM	5833	CG	LYS	106	171.326	149.953	2.423	1.00	100.20.24	BS2	ATOM	5886	O	VAL	112	178.205	159.768	-1.647	1.00	61.44	BS
ATOM	5834	CD	LYS	106	171.068	148.949	3.540	1.00	100.20.24	BS2	ATOM	5887	N	HIS	113	177.661	157.887	-0.581	1.00	64.61	BS
ATOM	5835	CE	LYS	106	169.592	148.567	3.651	1.00	100.20.24	BS2	ATOM	5888	CA	HIS	113	178.173	158.404	1.796	1.00	100.08.32	BS
ATOM	5836	N2	LYS	106	169.365	147.541	4.718	1.00	100.20.24	BS2	ATOM	5889	CB	HIS	113	177.964	157.391	1.796	1.00	100.08.32	BS
ATOM	5837	C	LYS	106	172.851	150.253	-0.216	1.00	55.42	BS2	ATOM	5890	CG	HIS	113	176.528	157.026	1.998	1.00	100.08.32	BS
ATOM	5838	O	LYS	106	173.585	150.847	0.568	1.00	55.42	BS2	ATOM	5891	CD2	HIS	113	175.885	155.839	1.893	1.00	100.08.32	BS
ATOM	5839	N	THR	107	173.315	149.494	-1.202	1.00	70.33	BS2	ATOM	5892	ND1	HIS	113	175.561	157.963	2.292	1.00	100.08.32	BS
ATOM	5840	CA	THR	107	174.745	149.336	-1.423	1.00	70.33	BS2	ATOM	5893	CE1	HIS	113	174.382	157.369	2.356	1.00	100.08.32	BS
ATOM	5841	CB	THR	107	175.069	147.951	-2.017	1.00	49.07	BS2	ATOM	5894	NE2	HIS	113	174.551	156.081	2.118	1.00	100.08.32	BS
ATOM	5842	OG1	THR	107	175.141	146.987	-0.966	1.00	49.07	BS2	ATOM	5895	C	HIS	113	179.654	158.686	0.481	1.00	64.61	BS
ATOM	5843	CG2	THR	107	176.393	148.001	-2.754	1.00	49.07	BS2	ATOM	5896	O	HIS	113	180.148	159.757	0.847	1.00	64.61	BS
ATOM	5844	C	THR	107	175.261	150.418	-2.365	1.00	70.33	BS2	ATOM	5897	N	ARG	114	180.356	157.732	-0.124	1.00	75.40	BS
ATOM	5845	O	THR	107	176.205	151.139	-2.041	1.00	70.33	BS2	ATOM	5898	CA	ARG	114	181.781	157.885	-0.392	1.00	75.40	BS
ATOM	5846	N	ILE	108	174.641	150.525	-3.534	1.00	53.19	BS2	ATOM	5899	CB	ARG	114	182.297	156.679	-1.175	1.00	96.96	BS
ATOM	5847	CA	ILE	108	175.038	151.525	-4.507	1.00	53.19	BS2	ATOM	5900	CG	ARG	114	183.476	155.970	-0.533	1.00	96.96	BS
ATOM	5848	CB	ILE	108	174.092	151.535	-5.701	1.00	55.73	BS2	ATOM	5901	CD	ARG	114	184.779	156.737	-0.690	1.00	96.96	BS

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ATOM	5902	NE	ARG	114	185.895	155.978	-0.130	1.00	96.96	BS2	ATOM	5955	O	ALA	120	187.089	167.789	1.641	1.00107.20	BS	
ATOM	5903	CZ	ARG	114	187.174	156.302	-0.275	1.00	96.96	BS2	ATOM	5956	N	LEU	121	186.883	165.737	2.552	1.00119.16	BS	
ATOM	5904	NH1	ARG	114	187.514	157.379	-0.967	1.00	96.96	BS2	ATOM	5957	CA	LEU	121	188.289	165.615	2.917	1.00119.16	BS	
ATOM	5905	NH2	ARG	114	188.116	155.543	0.269	1.00	96.96	BS2	ATOM	5958	CB	LEU	121	188.675	164.143	3.073	1.00168.82	BS	
ATOM	5906	C	ARG	114	182.043	159.164	-1.189	1.00	75.40	BS2	ATOM	5959	CG	LEU	121	188.034	163.344	4.206	1.00168.82	BS	
ATOM	5907	O	ARG	114	182.983	159.903	-0.899	1.00	75.40	BS2	ATOM	5960	CD1	LEU	121	188.478	161.890	4.108	1.00168.82	BS	
ATOM	5908	N	LEU	115	181.212	159.420	-2.196	1.00	61.48	BS2	ATOM	5961	CD2	LEU	121	188.434	163.946	5.548	1.00168.82	BS	
ATOM	5909	CA	LEU	115	181.372	160.614	-3.010	1.00	61.48	BS2	ATOM	5962	C	LEU	121	189.177	166.233	1.858	1.00119.16	BS	
ATOM	5910	CB	LEU	115	180.171	160.794	-3.944	1.00	58.35	BS2	ATOM	5963	O	LEU	121	189.951	167.146	2.133	1.00119.16	BS	
ATOM	5911	CG	LEU	115	180.091	162.105	-4.737	1.00	58.35	BS2	ATOM	5964	N	PHE	122	189.047	165.729	0.639	1.00112.32	BS	
ATOM	5912	CD1	LEU	115	181.432	162.432	-5.355	1.00	58.35	BS2	ATOM	5965	CA	PHE	122	189.858	166.207	-0.466	1.00112.32	BS	
ATOM	5913	CD2	LEU	115	179.030	161.986	-5.816	1.00	58.35	BS2	ATOM	5966	CB	PHE	122	189.772	165.219	-1.632	1.00184.89	BS	
ATOM	5914	C	LEU	115	181.513	161.820	-2.099	1.00	61.48	BS2	ATOM	5967	CG	PHE	122	190.495	163.928	-1.368	1.00184.89	BS	
ATOM	5915	O	LEU	115	182.566	162.451	-2.045	1.00	61.48	BS2	ATOM	5968	CD1	PHE	122	190.034	163.042	-0.396	1.00184.89	BS	
ATOM	5916	N	GLU	116	180.448	162.129	-1.373	1.00	70.36	BS2	ATOM	5969	CD2	PHE	122	191.673	163.625	-2.041	1.00184.89	BS	
ATOM	5917	CA	GLU	116	180.443	163.250	-0.447	1.00	70.36	BS2	ATOM	5970	CE1	PHE	122	190.739	161.876	-0.096	1.00184.89	BS	
ATOM	5918	CB	GLU	116	179.185	163.174	-0.420	1.00107.40	BS2	ATOM	5971	CE2	PHE	122	192.385	162.463	-1.749	1.00184.89	BS		
ATOM	5919	CG	GLU	116	177.923	162.982	-0.405	1.00107.40	BS2	ATOM	5972	CZ	PHE	122	191.918	161.588	-0.773	1.00184.89	BS		
ATOM	5920	CD	GLU	116	176.748	162.460	0.400	1.00107.40	BS2	ATOM	5973	C	PHE	122	189.546	167.622	-0.919	1.00112.32	BS		
ATOM	5921	OE1	GLU	116	176.948	161.537	1.221	1.00107.40	BS2	ATOM	5974	O	PHE	122	190.367	168.265	-1.566	1.00112.32	BS		
ATOM	5922	OE2	GLU	116	175.621	162.960	0.196	1.00107.40	BS2	ATOM	5975	N	ALA	123	188.369	168.123	-0.578	1.00102.50	BS		
ATOM	5923	C	GLU	116	181.695	163.192	0.431	1.00	70.36	BS2	ATOM	5976	CA	ALA	123	188.036	169.485	-0.955	1.00102.50	BS	
ATOM	5924	O	GLU	116	182.552	164.079	0.375	1.00	70.36	BS2	ATOM	5977	CB	ALA	123	186.597	169.570	-1.424	1.00102.50	BS	
ATOM	5925	N	GLU	117	181.794	162.127	1.223	1.00	72.74	BS2	ATOM	5978	C	ALA	123	188.250	170.380	0.258	1.00102.50	BS	
ATOM	5926	CA	GLU	117	182.919	161.914	2.128	1.00	72.74	BS2	ATOM	5979	O	ALA	123	187.562	171.391	0.418	1.00102.50	BS	
ATOM	5927	CB	GLU	117	182.927	160.462	2.616	1.00148.93	BS2	ATOM	5980	N	SER	124	189.206	170.007	1.110	1.00127.74	BS		
ATOM	5928	CG	GLU	117	181.703	160.103	3.456	1.00148.93	BS2	ATOM	5981	CA	SER	124	189.482	170.795	2.305	1.00127.74	BS		
ATOM	5929	CD	GLU	117	181.623	158.625	3.799	1.00148.93	BS2	ATOM	5982	CB	SER	124	188.279	170.704	3.251	1.00	96.31	BS	
ATOM	5930	OE1	GLU	117	182.596	158.102	4.384	1.00148.93	BS2	ATOM	5983	OG	SER	124	188.577	171.266	4.518	1.00	96.31	BS	
ATOM	5931	OE2	GLU	117	180.587	157.991	3.489	1.00148.93	BS2	ATOM	5984	C	SER	124	190.797	170.566	2.929	1.00127.74	BS		
ATOM	5932	C	GLU	117	184.256	162.258	1.493	1.00	72.74	BS2	ATOM	5985	O	SER	124	191.738	171.344	3.088	1.00127.74	BS	
ATOM	5933	O	GLU	117	185.223	162.546	2.193	1.00	72.74	BS2	ATOM	5986	N	PRO	125	190.896	169.503	3.923	1.00139.06	BS	
ATOM	5934	N	LEU	118	184.314	162.221	0.167	1.00112.59	BS2	ATOM	5987	CD	PRO	125	189.870	168.658	4.567	1.00118.56	BS		
ATOM	5935	CA	LEU	118	185.545	162.555	-0.531	1.00112.59	BS2	ATOM	5988	CA	PRO	125	192.167	169.368	4.642	1.00139.06	BS		
ATOM	5936	CB	LEU	118	185.763	161.637	-1.735	1.00	97.79	BS2	ATOM	5989	CB	PRO	125	191.699	169.146	6.067	1.00118.56	BS	
ATOM	5937	CG	LEU	118	186.247	160.214	-1.448	1.00	97.79	BS2	ATOM	5990	CG	PRO	125	190.574	168.162	5.846	1.00118.56	BS	
ATOM	5938	CD1	LEU	118	186.696	159.563	-2.755	1.00	97.79	BS2	ATOM	5991	C	PRO	125	194.257	168.584	4.221	1.00139.06	BS	
ATOM	5939	CD2	LEU	118	187.397	160.248	-0.456	1.00	97.79	BS2	ATOM	5992	O	PRO	125	192.782	167.031	4.432	1.00153.73	BS	
ATOM	5940	C	LEU	118	185.509	164.003	-0.983	1.00112.59	BS2	ATOM	5993	N	GLU	126	193.631	165.878	4.139	1.00153.73	BS		
ATOM	5941	O	LEU	118	186.495	164.726	-0.834	1.00112.59	BS2	ATOM	5994	CA	GLU	126	193.010	164.625	4.767	1.00161.68	BS		
ATOM	5942	N	GLU	119	184.375	164.430	-1.534	1.00	77.97	BS2	ATOM	5995	CB	GLU	126	192.643	164.813	6.226	1.00161.68	BS	
ATOM	5943	CA	GLU	119	184.230	165.811	-1.982	1.00	77.97	BS2	ATOM	5996	CG	GLU	126	193.773	165.441	7.015	1.00161.68	BS	
ATOM	5944	CB	GLU	119	182.821	166.064	-2.521	1.00123.17	BS2	ATOM	5997	CD	GLU	126	194.802	164.765	7.228	1.00161.68	BS		
ATOM	5945	CG	GLU	119	182.511	165.398	-3.846	1.00123.17	BS2	ATOM	5998	OE1	GLU	126	193.634	166.618	7.407	1.00161.68	BS		
ATOM	5946	CD	GLU	119	181.096	165.689	-4.320	1.00123.17	BS2	ATOM	5999	OE2	GLU	126	193.972	165.595	2.676	1.00153.73	BS		
ATOM	5947	OE1	GLU	119	180.940	166.345	-5.374	1.00123.17	BS2	ATOM	6000	C	GLU	126	194.163	166.439	2.298	1.00150.75	BS		
ATOM	5948	OE2	GLU	119	180.474	166.703	-0.773	1.00	77.97	BS2	ATOM	6001	O	GLU	126	194.059	166.635	1.855	1.00150.75	BS	
ATOM	5949	C	GLU	119	184.474	167.925	-0.881	1.00	77.97	BS2	ATOM	6002	N	ILE	127	194.402	166.449	0.447	1.00150.75	BS	
ATOM	5950	O	GLU	119	184.670	166.073	0.381	1.00107.20	BS2	ATOM	6003	CA	ILE	127	193.716	167.767	-0.466	1.00	98.49	BS	
ATOM	5951	N	ALA	120	184.914	166.785	1.625	1.00107.20	BS2	ATOM	6004	CB	ILE	127	192.969	166.767	-1.584	1.00	98.49	BS	
ATOM	5952	CA	ALA	120	184.165	166.112	2.755	1.00	50.12	BS2	ATOM	6005	CG2	ILE	127	192.801	168.398	0.357	1.00	98.49	BS
ATOM	5953	CB	ALA	120	186.400	166.814	1.939	1.00107.20	BS2	ATOM	6006	CG1	ILE	127	193.539	169.404	1.210	1.00	98.49	BS	
ATOM	5954	C	ALA	120						BS2	ATOM	6007	CD1	ILE	127					BS2	

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ATOM	6008	C	ILE	127	195.302	166.621	0.294	1.00150.75	BS2	ATOM	6061	NZ	LVS	133	196.301	170.282	-5.897	1.00139.31	BS
ATOM	6009	O	ILE	127	196.623	165.693	-0.077	1.00150.75	BS2	ATOM	6062	C	LVS	133	196.435	163.121	-3.781	1.00164.64	BS
ATOM	6010	N	GLU	128	196.355	167.833	0.585	1.00168.56	BS2	ATOM	6063	O	LVS	133	195.738	162.929	-4.784	1.00164.64	BS
ATOM	6011	CA	GLU	128	197.763	168.171	0.509	1.00168.56	BS2	ATOM	6064	N	GLU	134	196.966	162.149	-3.042	1.00157.17	BS
ATOM	6012	CB	GLU	128	197.918	169.684	0.348	1.00118.87	BS2	ATOM	6065	CA	GLU	134	196.803	160.729	-3.315	1.00157.17	BS
ATOM	6013	CG	GLU	128	197.076	170.255	-0.784	1.00118.87	BS2	ATOM	6066	CB	GLU	134	196.595	159.984	-1.999	1.00131.17	BS
ATOM	6014	CD	GLU	128	196.247	171.445	-0.345	1.00118.87	BS2	ATOM	6067	CG	GLU	134	197.604	158.886	-1.738	1.00131.17	BS
ATOM	6015	OE1	GLU	128	195.568	171.348	0.697	1.00118.87	BS2	ATOM	6068	CD	GLU	134	197.158	157.952	-0.628	1.00131.17	BS
ATOM	6016	OE2	GLU	128	196.268	172.476	-1.044	1.00118.87	BS2	ATOM	6069	OE1	GLU	134	196.125	157.272	-0.807	1.00131.17	BS
ATOM	6017	C	GLU	128	198.412	167.693	1.804	1.00168.56	BS2	ATOM	6070	OE2	GLU	134	197.831	157.897	-0.423	1.00131.17	BS
ATOM	6018	N	GLU	128	199.368	168.291	2.296	1.00168.56	BS2	ATOM	6071	C	GLU	134	195.666	160.387	-4.274	1.00157.17	BS
ATOM	6019	N	GLU	129	197.868	166.611	2.355	1.00138.61	BS2	ATOM	6072	O	GLU	134	194.568	160.927	-4.154	1.00157.17	BS
ATOM	6020	CA	GLU	129	198.375	166.020	3.589	1.00138.61	BS2	ATOM	6073	N	GLN	135	195.952	159.491	-5.219	1.00157.65	BS
ATOM	6021	CB	GLU	129	197.302	166.056	4.679	1.00186.18	BS2	ATOM	6074	CA	GLN	135	194.989	159.008	-6.219	1.00157.65	BS
ATOM	6022	CG	GLU	129	196.766	167.445	4.959	1.00186.18	BS2	ATOM	6075	CB	GLN	135	194.869	157.485	-6.115	1.00117.57	BS
ATOM	6023	CD	GLU	129	197.872	168.442	5.230	1.00186.18	BS2	ATOM	6076	CG	GLN	135	194.535	156.999	-4.702	1.00117.57	BS
ATOM	6024	OE1	GLU	129	198.658	168.216	6.175	1.00186.18	BS2	ATOM	6077	CD	GLN	135	194.185	155.525	-4.642	1.00117.57	BS
ATOM	6025	OE2	GLU	129	197.956	169.450	4.495	1.00186.18	BS2	ATOM	6078	OE1	GLN	135	193.336	155.048	-5.394	1.00117.57	BS
ATOM	6026	C	GLU	129	198.769	164.578	3.311	1.00138.61	BS2	ATOM	6079	NE2	GLN	135	194.830	154.796	-3.735	1.00117.57	BS
ATOM	6027	O	GLU	129	199.563	163.984	4.039	1.00138.61	BS2	ATOM	6080	C	GLN	135	193.593	159.612	-6.094	1.00157.65	BS
ATOM	6028	N	ARG	130	198.198	164.025	2.246	1.00121.04	BS2	ATOM	6081	O	GLN	135	193.154	160.377	-6.954	1.00157.65	BS
ATOM	6029	CA	ARG	130	198.474	162.652	1.842	1.00121.04	BS2	ATOM	6082	N	VAL	136	192.912	159.227	-5.014	1.00107.45	BS
ATOM	6030	CB	ARG	130	197.223	162.022	1.215	1.00121.92	BS2	ATOM	6083	CA	VAL	136	191.565	159.667	-4.665	1.00107.45	BS
ATOM	6031	CD	ARG	130	195.944	162.202	2.020	1.00121.92	BS2	ATOM	6084	CB	VAL	136	191.370	159.639	-3.135	1.00119.77	BS
ATOM	6032	CG	ARG	130	196.062	161.609	3.414	1.00121.92	BS2	ATOM	6085	CG1	VAL	136	189.916	159.863	-2.794	1.00119.77	BS
ATOM	6033	NE	ARG	130	194.817	161.749	4.161	1.00121.92	BS2	ATOM	6086	CG2	VAL	136	191.857	158.324	-2.567	1.00119.77	BS
ATOM	6034	CZ	ARG	130	193.656	161.239	3.767	1.00121.92	BS2	ATOM	6087	O	VAL	136	191.220	161.067	-5.163	1.00107.45	BS
ATOM	6035	NH1	ARG	130	193.588	160.554	2.635	1.00121.92	BS2	ATOM	6088	C	VAL	136	191.229	162.032	-4.404	1.00107.45	BS
ATOM	6036	NH2	ARG	130	192.566	161.417	4.501	1.00121.92	BS2	ATOM	6089	N	ARG	137	190.914	161.144	-6.450	1.0078.89	BS
ATOM	6037	C	ARG	130	199.594	162.679	0.808	1.00121.04	BS2	ATOM	6090	CA	ARG	137	190.733	162.364	-7.160	1.0078.89	BS
ATOM	6038	O	ARG	130	200.138	161.504	0.453	1.00133.27	BS2	ATOM	6091	CB	ARG	137	191.731	163.298	-7.368	1.00129.52	BS
ATOM	6039	N	PRO	131	199.936	160.208	1.126	1.00114.93	BS2	ATOM	6092	CG	ARG	137	191.596	164.652	-6.673	1.00129.52	BS
ATOM	6040	CD	PRO	131	201.216	161.408	-0.536	1.00133.27	BS2	ATOM	6093	CD	ARG	137	191.744	164.512	-5.159	1.00129.52	BS
ATOM	6041	CA	PRO	131	201.440	159.903	-0.645	1.00114.93	BS2	ATOM	6094	NE	ARG	137	190.154	166.265	-4.472	1.00129.52	BS
ATOM	6042	CB	PRO	131	201.197	159.447	0.756	1.00114.93	BS2	ATOM	6095	CZ	ARG	137	189.205	165.719	-5.217	1.00129.52	BS
ATOM	6043	CG	PRO	131	200.862	162.048	-1.883	1.00133.27	BS2	ATOM	6096	NH1	ARG	137	189.888	167.358	-3.775	1.00129.52	BS
ATOM	6044	C	PRO	131	200.598	161.350	-2.869	1.00133.27	BS2	ATOM	6097	NH2	ARG	137	190.139	161.723	-8.473	1.0078.89	BS
ATOM	6045	O	PRO	132	200.857	163.380	-1.904	1.00167.13	BS2	ATOM	6098	C	ARG	137	189.338	162.244	-9.252	1.00145.32	BS
ATOM	6046	N	LVS	132	200.558	164.156	-3.105	1.00167.13	BS2	ATOM	6099	O	ARG	137	190.741	160.557	-8.678	1.00145.32	BS
ATOM	6047	CA	LVS	132	202.999	163.889	-3.779	1.00162.44	BS2	ATOM	6100	N	LEU	138	190.499	159.716	-9.831	1.00103.80	BS
ATOM	6048	CB	LVS	132	203.927	163.176	-4.744	1.00162.44	BS2	ATOM	6101	CA	LEU	138	192.194	158.833	-11.658	1.00103.80	BS
ATOM	6049	CG	LVS	132	205.339	163.119	-4.186	1.00162.44	BS2	ATOM	6102	CB	LEU	138	192.413	160.220	-12.258	1.00103.80	BS
ATOM	6050	CD	LVS	132	206.263	162.349	-5.063	1.00162.44	BS2	ATOM	6103	CG	LEU	138	193.472	158.011	-11.742	1.00103.80	BS
ATOM	6051	CE	LVS	132	199.130	163.950	-3.596	1.00167.13	BS2	ATOM	6104	CD1	LEU	138	189.434	158.776	-9.272	1.00145.32	BS
ATOM	6052	NZ	LVS	132	198.902	163.200	-4.548	1.00167.13	BS2	ATOM	6105	CD2	LEU	138	189.112	157.741	-9.852	1.00102.23	BS
ATOM	6053	C	LVS	133	198.180	164.628	-2.948	1.00164.64	BS2	ATOM	6106	C	LEU	138	188.912	159.164	-8.110	1.00102.23	BS
ATOM	6054	O	LVS	133	196.761	164.531	-3.301	1.00164.64	BS2	ATOM	6107	O	LEU	139	187.871	158.429	-7.402	1.00102.23	BS
ATOM	6055	N	LVS	133	196.415	165.547	-4.393	1.00139.31	BS2	ATOM	6108	N	LVS	139	188.341	158.092	-5.994	1.0066.84	BS
ATOM	6056	CA	LVS	133	196.670	166.991	-3.995	1.00139.31	BS2	ATOM	6109	CA	LVS	139	187.630	156.914	-5.347	1.0066.84	BS
ATOM	6057	CB	LVS	133	196.301	167.935	-5.123	1.00139.31	BS2	ATOM	6110	CB	LVS	139	188.261	156.611	-3.990	1.0066.84	BS
ATOM	6058	CG	LVS	133	196.622	169.372	-4.765	1.00139.31	BS2	ATOM	6111	CG	LVS	139	188.087	155.160	-3.610	1.0066.84	BS
ATOM	6059	CD	LVS	133						ATOM	6112	CD	LVS	139					BS
ATOM	6060	CE	LVS	133						ATOM	6113	CE	LVS	139					BS

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ATOM	6114	NZ	LYS	139	186.681	154.716	-3.842	1.00	66.84	BS2	ATOM	6167	CG	LEU	145	180.322	155.938	-14.039	1.00	54.51	BS
ATOM	6115	C	LYS	139	186.682	159.379	-7.340	1.00	102.23	BS2	ATOM	6168	CD1	LEU	145	181.272	155.782	-13.680	1.00	54.51	BS
ATOM	6116	O	LYS	139	185.528	158.957	-7.319	1.00	102.23	BS2	ATOM	6169	CD2	LEU	145	179.575	155.638	-15.330	1.00	54.51	BS
ATOM	6117	N	HIS	140	186.987	160.674	-7.299	1.00	77.96	BS2	ATOM	6170	C	LEU	145	177.558	157.824	-11.916	1.00	81.72	BS
ATOM	6118	CA	HIS	140	185.962	161.706	-7.292	1.00	77.96	BS2	ATOM	6171	O	LEU	145	176.574	157.084	-11.915	1.00	81.72	BS
ATOM	6119	CB	HIS	140	186.561	163.097	-7.107	1.00	164.05	BS2	ATOM	6172	N	GLN	146	177.690	158.832	-11.055	1.00	64.52	BS
ATOM	6120	CG	HIS	140	186.593	163.560	-5.687	1.00	164.05	BS2	ATOM	6173	CA	GLN	146	176.689	159.054	-10.017	1.00	64.52	BS
ATOM	6121	CD2	HIS	140	185.918	164.552	-5.060	1.00	164.05	BS2	ATOM	6174	CB	GLN	146	177.269	158.712	-8.654	1.00	76.05	BS
ATOM	6122	ND1	HIS	140	187.409	162.988	-4.737	1.00	164.05	BS2	ATOM	6175	CG	GLN	146	177.501	157.254	-8.436	1.00	76.05	BS
ATOM	6123	CE1	HIS	140	186.338	163.611	-3.583	1.00	164.05	BS2	ATOM	6176	CD	GLN	146	177.591	156.924	-6.960	1.00	76.05	BS
ATOM	6124	NE2	HIS	140	187.239	164.562	-3.752	1.00	164.05	BS2	ATOM	6177	OE1	GLN	146	178.471	156.418	-6.242	1.00	76.05	BS
ATOM	6125	C	HIS	140	185.355	161.634	-8.667	1.00	77.96	BS2	ATOM	6178	NE2	GLN	146	176.667	156.093	-6.489	1.00	76.05	BS
ATOM	6126	O	HIS	140	184.556	162.477	-9.054	1.00	77.96	BS2	ATOM	6179	C	GLN	146	176.014	160.423	-9.905	1.00	64.52	BS
ATOM	6127	N	GLU	141	185.270	160.633	-9.419	1.00	80.86	BS2	ATOM	6180	O	GLN	146	176.634	161.425	-9.567	1.00	64.52	BS
ATOM	6128	CA	GLU	141	185.780	160.421	-10.754	1.00	80.86	BS2	ATOM	6181	N	LYS	147	174.721	160.448	-10.197	1.00	125.77	BS
ATOM	6129	CB	GLU	141	186.404	159.892	-11.630	1.00	178.33	BS2	ATOM	6182	CA	LYS	147	173.921	161.654	-10.064	1.00	125.77	BS
ATOM	6130	CG	GLU	141	187.645	160.800	-11.493	1.00	178.33	BS2	ATOM	6183	CB	LYS	147	173.575	162.246	-11.422	1.00	87.51	BS
ATOM	6131	CD	GLU	141	188.780	160.480	-12.455	1.00	178.33	BS2	ATOM	6184	CG	LYS	147	174.821	162.746	-12.117	1.00	87.51	BS
ATOM	6132	OE1	GLU	141	189.237	159.317	-12.484	1.00	178.33	BS2	ATOM	6185	CD	LYS	147	175.692	163.493	-11.133	1.00	87.51	BS
ATOM	6133	OE2	GLU	141	189.228	161.403	-13.172	1.00	178.33	BS2	ATOM	6186	CE	LYS	147	177.054	163.782	-11.718	1.00	87.51	BS
ATOM	6134	C	GLU	141	184.101	159.445	-10.574	1.00	80.86	BS2	ATOM	6187	NZ	LYS	147	176.991	164.749	-12.852	1.00	87.51	BS
ATOM	6135	O	GLU	141	183.723	158.685	-11.472	1.00	80.86	BS2	ATOM	6188	C	LYS	147	172.713	161.156	-9.305	1.00	125.77	BS
ATOM	6136	N	LEU	142	183.562	159.495	-9.352	1.00	79.91	BS2	ATOM	6189	O	LYS	147	171.584	161.049	-9.802	1.00	125.77	BS
ATOM	6137	CA	LEU	142	182.394	158.739	-8.912	1.00	79.91	BS2	ATOM	6190	N	TYR	148	173.039	160.811	-8.068	1.00	67.89	BS
ATOM	6138	CB	LEU	142	182.321	158.702	-7.394	1.00	38.96	BS2	ATOM	6191	CA	TYR	148	172.133	160.283	-7.097	1.00	67.89	BS
ATOM	6139	CG	LEU	142	182.773	157.465	-6.635	1.00	38.96	BS2	ATOM	6192	CB	TYR	148	172.771	159.072	-6.443	1.00	65.96	BS
ATOM	6140	CD1	LEU	142	183.048	157.804	-5.171	1.00	38.96	BS2	ATOM	6193	CD	TYR	148	172.311	157.787	-7.065	1.00	65.96	BS
ATOM	6141	CD2	LEU	142	181.693	156.409	-6.750	1.00	38.96	BS2	ATOM	6194	CD1	TYR	148	171.317	156.608	-8.379	1.00	65.96	BS
ATOM	6142	C	LEU	142	181.296	159.649	-9.399	1.00	79.91	BS2	ATOM	6195	CE1	TYR	148	171.848	157.761	-8.909	1.00	65.96	BS
ATOM	6143	O	LEU	142	180.152	159.249	-9.576	1.00	79.91	BS2	ATOM	6196	CD2	TYR	148	172.245	156.611	-6.311	1.00	65.96	BS
ATOM	6144	N	GLU	143	181.681	160.904	-9.587	1.00	63.66	BS2	ATOM	6197	CE2	TYR	148	171.715	155.456	-6.837	1.00	65.96	BS
ATOM	6145	CA	GLU	143	180.786	161.935	-10.057	1.00	63.66	BS2	ATOM	6198	CZ	TYR	148	170.654	154.349	-8.126	1.00	65.96	BS
ATOM	6146	CB	GLU	143	181.479	163.300	-9.976	1.00	116.30	BS2	ATOM	6199	OH	TYR	148	171.792	161.312	-6.052	1.00	67.89	BS
ATOM	6147	CG	GLU	143	181.975	163.657	-8.576	1.00	116.30	BS2	ATOM	6200	C	TYR	148	172.630	161.708	-5.235	1.00	67.89	BS
ATOM	6148	CD	GLU	143	182.822	164.919	-8.543	1.00	116.30	BS2	ATOM	6201	O	TYR	149	170.540	161.742	-6.109	1.00	101.59	BS
ATOM	6149	OE1	GLU	143	183.993	164.842	-8.106	1.00	116.30	BS2	ATOM	6202	N	LEU	149	169.991	162.696	-5.175	1.00	101.59	BS
ATOM	6150	OE2	GLU	143	180.389	161.637	-11.495	1.00	63.66	BS2	ATOM	6203	CA	LEU	149	169.080	163.679	-5.904	1.00	74.10	BS
ATOM	6151	O	GLU	143	179.322	162.046	-11.949	1.00	63.66	BS2	ATOM	6204	CB	LEU	149	169.736	164.703	-6.830	1.00	74.10	BS
ATOM	6152	N	ARG	144	181.241	160.914	-12.214	1.00	79.72	BS2	ATOM	6205	CG	LEU	149	170.372	165.276	-5.995	1.00	74.10	BS
ATOM	6153	CA	ARG	144	180.942	160.600	-13.602	1.00	79.72	BS2	ATOM	6206	CD1	LEU	149	168.694	165.276	-7.784	1.00	74.10	BS
ATOM	6154	CB	ARG	144	182.187	160.065	-14.305	1.00	185.45	BS2	ATOM	6207	CD2	LEU	149	169.162	161.845	-4.238	1.00	101.59	BS
ATOM	6155	CD	ARG	144	183.213	161.139	-14.586	1.00	185.45	BS2	ATOM	6208	C	LEU	149	169.359	161.858	-3.028	1.00	101.59	BS
ATOM	6156	CG	ARG	144	184.412	160.587	-15.325	1.00	185.45	BS2	ATOM	6209	O	LEU	149	168.260	160.074	-4.834	1.00	74.02	BS
ATOM	6157	CD	ARG	144	185.323	161.652	-15.731	1.00	185.45	BS2	ATOM	6210	N	SER	150	167.342	160.203	-4.111	1.00	74.02	BS
ATOM	6158	NE	ARG	144	186.489	161.450	-16.335	1.00	185.45	BS2	ATOM	6211	CA	SER	150	166.964	158.996	-5.489	1.00	88.45	BS
ATOM	6159	CZ	ARG	144	186.892	160.216	-16.604	1.00	185.45	BS2	ATOM	6212	CB	SER	150	167.731	159.732	-2.698	1.00	74.02	BS
ATOM	6160	NH1	ARG	144	187.250	162.484	-16.671	1.00	185.45	BS2	ATOM	6213	CG	SER	150	167.847	160.533	-1.774	1.00	74.02	BS
ATOM	6161	NH2	ARG	144	179.797	159.614	-13.761	1.00	79.72	BS2	ATOM	6214	O	SER	150	167.922	158.435	-2.522	1.00	71.83	BS
ATOM	6162	C	ARG	144	178.985	159.736	-14.683	1.00	79.72	BS2	ATOM	6215	N	GLY	151	166.238	157.927	-1.198	1.00	71.83	BS
ATOM	6163	O	ARG	144	179.716	158.642	-12.861	1.00	81.72	BS2	ATOM	6216	CA	GLY	151	166.944	157.337	-0.674	1.00	71.83	BS
ATOM	6164	N	LEU	145	179.666	157.644	-12.966	1.00	81.72	BS2	ATOM	6217	C	GLY	151	166.707	157.236	0.527	1.00	71.83	BS
ATOM	6165	CA	LEU	145	179.300	156.233	-12.902	1.00	54.51	BS2	ATOM	6218	O	GLY	151						
ATOM	6166	CB	LEU	145						BS2	ATOM	6219	O	GLY	151						

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ATOM	6220	N	PHE	152	166.117	156.922	-1.626	1.00	49.26	BS2	ATOM	6273	CZ	ARG	157	159.053	160.535	-19.431	1.00	66.68	BS
ATOM	6221	CA	PHE	152	164.795	156.358	-1.382	1.00	49.26	BS2	ATOM	6274	NH1	ARG	157	160.226	161.039	-19.796	1.00	66.68	BS
ATOM	6222	CB	PHE	152	163.827	157.541	-1.188	1.00	76.33	BS2	ATOM	6275	NH2	ARG	157	157.918	161.112	-19.806	1.00	66.68	BS
ATOM	6223	CG	PHE	152	162.729	157.328	-0.177	1.00	76.33	BS2	ATOM	6276	C	ARG	157	161.665	156.352	-17.308	1.00	84.66	BS
ATOM	6224	CD1	PHE	152	163.006	156.850	-1.096	1.00	76.33	BS2	ATOM	6277	N	ARG	157	161.209	155.256	-17.601	1.00	84.66	BS
ATOM	6225	CD2	PHE	152	161.418	157.721	-0.469	1.00	76.33	BS2	ATOM	6278	N	LEU	158	162.661	156.945	-17.968	1.00	68.81	BS
ATOM	6226	CE1	PHE	152	161.988	156.774	2.062	1.00	76.33	BS2	ATOM	6279	CA	LEU	158	163.432	156.352	-19.082	1.00	68.81	BS
ATOM	6227	CE2	PHE	152	160.398	157.648	0.497	1.00	76.33	BS2	ATOM	6280	CB	LEU	158	163.877	154.925	-18.730	1.00	45.10	BS
ATOM	6228	CZ	PHE	152	160.684	157.176	1.757	1.00	76.33	BS2	ATOM	6281	CG	LEU	158	162.886	153.773	-18.903	1.00	45.10	BS
ATOM	6229	C	PHE	152	164.503	155.698	-2.734	1.00	49.26	BS2	ATOM	6282	CD1	LEU	158	162.719	153.387	-20.363	1.00	45.10	BS
ATOM	6230	O	PHE	152	164.626	156.367	-3.762	1.00	49.26	BS2	ATOM	6283	CD2	LEU	158	163.402	152.602	-18.114	1.00	45.10	BS
ATOM	6231	N	ARG	153	164.154	154.417	-2.778	1.00	44.35	BS2	ATOM	6284	C	LEU	158	162.916	156.319	-20.522	1.00	68.81	BS
ATOM	6232	CA	ARG	153	163.815	153.849	-4.088	1.00	44.35	BS2	ATOM	6285	C	LEU	158	161.747	156.040	-20.774	1.00	68.81	BS
ATOM	6233	CB	ARG	153	163.333	152.401	-3.939	1.00	89.20	BS2	ATOM	6286	N	PRO	159	163.811	156.614	-21.487	1.00	55.41	BS
ATOM	6234	CG	ARG	153	164.435	151.457	-3.503	1.00	89.20	BS2	ATOM	6287	CD	PRO	159	165.010	157.422	-21.193	1.00	53.94	BS
ATOM	6235	CD	ARG	153	163.914	150.077	-3.148	1.00	89.20	BS2	ATOM	6288	CA	PRO	159	163.547	156.626	-22.927	1.00	55.41	BS
ATOM	6236	NE	ARG	153	164.984	149.197	-2.662	1.00	89.20	BS2	ATOM	6289	CG	PRO	159	164.231	157.906	-23.387	1.00	53.94	BS
ATOM	6237	CZ	ARG	153	164.836	147.899	-2.378	1.00	89.20	BS2	ATOM	6290	CG	PRO	159	165.460	157.907	-22.571	1.00	53.94	BS
ATOM	6238	NH1	ARG	153	163.657	147.298	-2.524	1.00	89.20	BS2	ATOM	6291	C	PRO	159	164.206	155.370	-23.497	1.00	55.41	BS
ATOM	6239	NH2	ARG	153	165.875	147.187	-1.952	1.00	89.20	BS2	ATOM	6292	O	PRO	159	165.349	155.052	-23.159	1.00	55.41	BS
ATOM	6240	C	ARG	153	162.690	154.774	-4.598	1.00	44.35	BS2	ATOM	6293	N	ASP	160	163.480	154.661	-24.355	1.00	69.21	BS
ATOM	6241	O	ARG	153	161.792	155.125	-3.833	1.00	44.35	BS2	ATOM	6294	CA	ASP	160	163.961	153.412	-24.943	1.00	69.21	BS
ATOM	6242	N	LEU	154	162.722	155.167	-5.868	1.00	37.14	BS2	ATOM	6295	CB	ASP	160	165.422	153.519	-25.395	1.00	69.21	BS
ATOM	6243	CA	LEU	154	161.720	156.118	-6.373	1.00	37.14	BS2	ATOM	6296	CG	ASP	160	165.961	152.198	-25.925	1.00	69.21	BS
ATOM	6244	CB	LEU	154	162.459	157.158	-7.187	1.00	19.61	BS2	ATOM	6297	OD1	ASP	160	165.558	151.797	-27.041	1.00	14.74	BS
ATOM	6245	CG	LEU	154	163.759	156.504	-7.638	1.00	19.61	BS2	ATOM	6298	OD2	ASP	160	166.777	151.561	-25.218	1.00	14.74	BS
ATOM	6246	CD1	LEU	154	163.433	155.423	-8.680	1.00	19.61	BS2	ATOM	6299	C	ASP	160	163.835	152.285	-23.909	1.00	69.21	BS
ATOM	6247	CD2	LEU	154	164.728	157.575	-8.166	1.00	19.61	BS2	ATOM	6300	O	ASP	160	164.805	151.927	-23.223	1.00	69.21	BS
ATOM	6248	C	LEU	154	159.467	155.656	-7.145	1.00	37.14	BS2	ATOM	6301	N	ALA	161	162.627	151.736	-23.804	1.00	60.71	BS
ATOM	6249	O	LEU	154	159.568	155.054	-6.544	1.00	37.14	BS2	ATOM	6302	CA	ALA	161	162.363	150.658	-22.877	1.00	60.71	BS
ATOM	6250	N	LEU	155	160.411	155.991	-8.454	1.00	80.57	BS2	ATOM	6303	CB	ALA	161	160.978	150.130	-23.113	1.00	36.75	BS
ATOM	6251	CA	LEU	155	159.307	155.635	-9.389	1.00	80.57	BS2	ATOM	6304	C	ALA	161	163.395	149.529	-23.028	1.00	60.71	BS
ATOM	6252	CB	LEU	155	158.035	156.378	-9.027	1.00	42.63	BS2	ATOM	6305	O	ALA	161	163.620	148.762	-22.092	1.00	60.71	BS
ATOM	6253	CG	LEU	155	157.510	155.934	-7.683	1.00	42.63	BS2	ATOM	6306	N	ILE	162	164.016	149.416	-24.202	1.00	65.80	BS
ATOM	6254	CD1	LEU	155	157.624	157.099	-6.678	1.00	42.63	BS2	ATOM	6307	CA	ILE	162	165.019	148.379	-24.418	1.00	65.80	BS
ATOM	6255	CD2	LEU	155	156.086	155.422	-7.844	1.00	42.63	BS2	ATOM	6308	CB	ILE	162	165.313	148.167	-25.916	1.00	73.68	BS
ATOM	6256	C	LEU	155	159.536	155.817	-10.911	1.00	80.57	BS2	ATOM	6309	CG2	ILE	162	166.270	147.013	-26.093	1.00	73.68	BS
ATOM	6257	O	LEU	155	158.650	156.306	-11.605	1.00	80.57	BS2	ATOM	6310	CG1	ILE	162	164.024	147.821	-26.660	1.00	73.68	BS
ATOM	6258	N	LEU	156	160.716	155.405	-11.386	1.00	50.62	BS2	ATOM	6311	CD1	ILE	162	163.051	148.965	-26.757	1.00	73.68	BS
ATOM	6259	CA	LYS	156	161.210	155.404	-12.788	1.00	50.62	BS2	ATOM	6312	C	ILE	162	166.273	148.835	-23.683	1.00	65.80	BS
ATOM	6260	CB	LYS	156	161.653	154.002	-13.126	1.00	71.95	BS2	ATOM	6313	O	ILE	162	167.384	148.924	-24.223	1.00	65.80	BS
ATOM	6261	CG	LYS	156	163.116	153.778	-12.969	1.00	71.95	BS2	ATOM	6314	N	PHE	163	166.040	149.146	-22.419	1.00	107.44	BS
ATOM	6262	CD	LYS	156	163.435	152.437	-13.548	1.00	71.95	BS2	ATOM	6315	CA	PHE	163	167.044	149.600	-21.482	1.00	107.44	BS
ATOM	6263	CE	LYS	156	162.797	152.298	-14.925	1.00	71.95	BS2	ATOM	6316	CB	PHE	163	166.628	150.953	-20.935	1.00	76.64	BS
ATOM	6264	NZ	LYS	156	163.039	150.946	-15.510	1.00	71.95	BS2	ATOM	6317	CG	PHE	163	167.678	151.988	-21.026	1.00	76.64	BS
ATOM	6265	C	LYS	156	160.580	155.935	-14.080	1.00	50.62	BS2	ATOM	6318	CD1	PHE	163	167.557	153.027	-21.947	1.00	76.64	BS
ATOM	6266	O	LYS	156	159.422	155.695	-14.400	1.00	50.62	BS2	ATOM	6319	CD2	PHE	163	168.792	151.939	-22.198	1.00	76.64	BS
ATOM	6267	N	ARG	157	161.437	156.569	-14.874	1.00	84.66	BS2	ATOM	6320	CE1	PHE	163	169.772	152.907	-22.046	1.00	76.64	BS
ATOM	6268	CA	ARG	157	161.070	157.158	-16.156	1.00	84.66	BS2	ATOM	6321	CE2	PHE	163	169.640	153.946	-21.213	1.00	76.64	BS
ATOM	6269	CB	ARG	157	161.616	158.572	-16.238	1.00	66.68	BS2	ATOM	6322	CZ	PHE	163	166.894	148.566	-20.383	1.00	107.44	BS
ATOM	6270	CG	ARG	157	160.774	159.496	-17.066	1.00	66.68	BS2	ATOM	6323	O	PHE	163	167.720	148.456	-19.480	1.00	107.44	BS
ATOM	6271	CD	ARG	157	160.211	158.766	-18.234	1.00	66.68	BS2	ATOM	6324	C	PHE	163	165.802	147.816	-20.493	1.00	75.58	BS
ATOM	6272	NE	ARG	157	159.022	159.447	-18.687	1.00	66.68	BS2	ATOM	6325	N	VAL	164						BS

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ATOM	6326	CA	VAL	164	165.438	146.793	-19.533	1.00	75.58	BS2	ATOM	6379	N	ALA	171	163.291	148.454	-11.104	1.00	52.81	BS
ATOM	6327	CG	VAL	164	164.488	145.717	-20.182	1.00	116.62	BS2	ATOM	6380	CA	ALA	171	161.979	149.044	-11.330	1.00	52.81	BS
ATOM	6328	CGI	VAL	164	164.870	144.306	-19.749	1.00	116.62	BS2	ATOM	6381	CB	ALA	171	161.845	149.511	-12.774	1.00	31.03	BS
ATOM	6329	CG2	VAL	164	163.026	145.994	-19.760	1.00	116.62	BS2	ATOM	6382	C	ALA	171	160.897	148.028	-10.991	1.00	52.81	BS
ATOM	6330	C	VAL	164	166.595	146.146	-18.799	1.00	75.58	BS2	ATOM	6383	O	ALA	171	160.522	147.887	-9.828	1.00	52.81	BS
ATOM	6331	N	VAL	164	167.393	145.405	-19.348	1.00	75.58	BS2	ATOM	6384	N	ILE	172	160.398	147.315	-11.996	1.00	53.68	BS
ATOM	6332	N	VAL	165	166.641	146.510	-17.530	1.00	51.16	BS2	ATOM	6385	CA	ILE	172	159.383	146.299	-11.758	1.00	53.68	BS
ATOM	6333	CA	VAL	165	167.564	146.104	-16.479	1.00	51.16	BS2	ATOM	6386	CB	ILE	172	159.073	145.577	-13.080	1.00	51.70	BS
ATOM	6334	CB	VAL	165	169.030	146.484	-16.698	1.00	31.75	BS2	ATOM	6387	CG2	ILE	172	159.758	144.240	-13.107	1.00	51.70	BS
ATOM	6335	CG1	VAL	165	169.792	146.149	-15.437	1.00	31.75	BS2	ATOM	6388	CG1	ILE	172	157.555	145.465	-13.283	1.00	51.70	BS
ATOM	6336	CG2	VAL	165	169.642	145.718	-17.841	1.00	31.75	BS2	ATOM	6389	CD1	ILE	172	157.099	144.768	-14.577	1.00	51.70	BS
ATOM	6337	C	VAL	165	166.981	147.110	-15.499	1.00	51.16	BS2	ATOM	6390	C	ILE	172	160.045	145.367	-10.733	1.00	53.68	BS
ATOM	6338	O	VAL	165	166.637	146.780	-14.368	1.00	51.16	BS2	ATOM	6391	O	ILE	172	161.087	145.718	-10.182	1.00	53.68	BS
ATOM	6339	N	ASP	166	166.851	148.343	-15.990	1.00	40.54	BS2	ATOM	6392	N	ALA	173	159.480	144.208	-10.437	1.00	50.31	BS
ATOM	6340	CA	ASP	166	166.237	149.441	-15.268	1.00	40.54	BS2	ATOM	6393	CA	ALA	173	160.154	143.321	-9.480	1.00	50.31	BS
ATOM	6341	CB	ASP	166	166.148	150.616	-16.218	1.00	123.45	BS2	ATOM	6394	CB	ALA	173	161.555	142.958	-9.985	1.00	36.77	BS
ATOM	6342	CG	ASP	166	166.757	150.286	-17.569	1.00	123.45	BS2	ATOM	6395	C	ALA	173	160.277	143.941	-8.098	1.00	50.31	BS
ATOM	6343	OD1	ASP	166	165.991	150.076	-18.530	1.00	123.45	BS2	ATOM	6396	O	ALA	173	159.920	143.328	-7.096	1.00	50.31	BS
ATOM	6344	OD2	ASP	166	168.002	150.202	-17.659	1.00	123.45	BS2	ATOM	6397	N	VAL	174	160.818	145.149	-8.041	1.00	42.04	BS
ATOM	6345	C	ASP	166	164.863	148.847	-14.908	1.00	40.54	BS2	ATOM	6398	CA	VAL	174	160.964	145.842	-6.780	1.00	42.04	BS
ATOM	6346	O	ASP	166	164.450	148.913	-13.756	1.00	40.54	BS2	ATOM	6399	CB	VAL	174	162.378	146.575	-6.736	1.00	29.13	BS
ATOM	6347	N	PRO	167	164.110	148.310	-15.896	1.00	41.41	BS2	ATOM	6400	CG1	VAL	174	162.300	147.915	-7.400	1.00	29.13	BS
ATOM	6348	CD	PRO	167	164.027	148.696	-17.320	1.00	36.25	BS2	ATOM	6401	CG2	VAL	174	162.923	146.676	-5.314	1.00	29.13	BS
ATOM	6349	CA	PRO	167	162.836	147.724	-15.463	1.00	41.41	BS2	ATOM	6402	C	VAL	174	159.732	146.791	-6.718	1.00	42.04	BS
ATOM	6350	CB	PRO	167	162.066	147.552	-16.776	1.00	36.25	BS2	ATOM	6403	O	VAL	174	159.485	147.444	-5.702	1.00	42.04	BS
ATOM	6351	CG	PRO	167	162.524	148.726	-17.586	1.00	36.25	BS2	ATOM	6404	N	ARG	175	158.945	146.809	-7.804	1.00	62.61	BS
ATOM	6352	C	PRO	167	163.261	146.375	-14.851	1.00	41.41	BS2	ATOM	6405	CA	ARG	175	157.716	147.618	-7.933	1.00	62.61	BS
ATOM	6353	O	PRO	167	163.805	146.317	-13.750	1.00	41.41	BS2	ATOM	6406	CG	ARG	175	156.889	147.557	-6.654	1.00	70.61	BS
ATOM	6354	N	THR	168	163.059	145.292	-15.583	1.00	80.71	BS2	ATOM	6407	CG	ARG	175	156.720	146.183	-6.976	1.00	70.61	BS
ATOM	6355	CA	THR	168	163.449	143.961	-15.108	1.00	80.71	BS2	ATOM	6408	CD	ARG	175	155.877	145.336	-6.579	1.00	70.61	BS
ATOM	6356	CB	THR	168	164.806	143.570	-15.685	1.00	89.50	BS2	ATOM	6409	NE	ARG	175	155.959	143.942	-6.579	1.00	70.61	BS
ATOM	6357	OG1	THR	168	164.995	144.278	-16.914	1.00	89.50	BS2	ATOM	6410	C2	ARG	175	155.304	142.972	-7.194	1.00	70.61	BS
ATOM	6358	CG2	THR	168	164.884	142.055	-15.940	1.00	89.50	BS2	ATOM	6411	NH1	ARG	175	154.525	143.264	-8.224	1.00	70.61	BS
ATOM	6359	C	THR	168	163.548	143.841	-13.589	1.00	80.71	BS2	ATOM	6412	NH2	ARG	175	155.433	141.715	-6.790	1.00	70.61	BS
ATOM	6360	O	THR	168	162.691	144.334	-12.859	1.00	80.71	BS2	ATOM	6413	C	ARG	175	157.974	149.089	-8.237	1.00	62.61	BS
ATOM	6361	N	LYS	169	164.607	143.171	-13.132	1.00	200.66	BS2	ATOM	6414	O	ARG	175	158.651	149.758	-7.474	1.00	62.61	BS
ATOM	6362	CA	LYS	169	164.861	142.962	-11.705	1.00	200.66	BS2	ATOM	6415	N	GLU	176	157.421	149.614	-9.324	1.00	49.05	BS
ATOM	6363	CB	LYS	169	166.320	142.539	-11.461	1.00	74.39	BS2	ATOM	6416	CA	GLU	176	157.649	151.014	-9.647	1.00	49.05	BS
ATOM	6364	CG	LYS	169	167.142	142.332	-12.711	1.00	74.39	BS2	ATOM	6417	CB	GLU	176	158.980	151.178	-10.356	1.00	45.14	BS
ATOM	6365	CD	LYS	169	166.682	141.091	-13.477	1.00	74.39	BS2	ATOM	6418	CG	GLU	176	160.172	150.653	-9.595	1.00	45.14	BS
ATOM	6366	CE	LYS	169	167.652	140.748	-14.601	1.00	74.39	BS2	ATOM	6419	CD	GLU	176	160.401	151.353	-8.288	1.00	45.14	BS
ATOM	6367	NZ	LYS	169	169.030	140.584	-14.064	1.00	74.39	BS2	ATOM	6420	OE1	GLU	176	159.991	152.521	-8.202	1.00	45.14	BS
ATOM	6368	C	LYS	169	164.618	144.263	-10.968	1.00	200.66	BS2	ATOM	6421	OE2	GLU	176	160.994	150.744	-7.365	1.00	45.14	BS
ATOM	6369	O	LYS	169	164.060	144.295	-9.869	1.00	200.66	BS2	ATOM	6422	C	GLU	176	156.572	151.603	-10.534	1.00	49.05	BS
ATOM	6370	N	GLU	170	165.049	145.342	-11.603	1.00	56.93	BS2	ATOM	6423	O	GLU	176	156.518	152.247	-10.070	1.00	49.05	BS
ATOM	6371	CA	GLU	170	164.925	146.659	-11.031	1.00	56.93	BS2	ATOM	6424	N	ALA	177	156.757	151.415	-11.829	1.00	67.64	BS
ATOM	6372	CB	GLU	170	165.963	147.534	-11.699	1.00	47.61	BS2	ATOM	6425	CA	ALA	177	155.785	151.909	-12.772	1.00	67.64	BS
ATOM	6373	CG	GLU	170	167.261	146.778	-11.896	1.00	47.61	BS2	ATOM	6426	CB	ALA	177	155.319	153.306	-12.360	1.00	33.64	BS
ATOM	6374	CD	GLU	170	168.224	146.952	-10.756	1.00	47.61	BS2	ATOM	6427	C	ALA	177	156.374	151.926	-14.166	1.00	67.64	BS
ATOM	6375	OE1	GLU	170	167.765	147.153	-9.617	1.00	47.61	BS2	ATOM	6428	O	ALA	177	155.921	151.214	-15.070	1.00	67.64	BS
ATOM	6376	OE2	GLU	170	169.442	146.885	-11.011	1.00	47.61	BS2	ATOM	6429	N	ARG	178	157.404	152.734	-14.332	1.00	49.13	BS
ATOM	6377	C	GLU	170	163.517	147.159	-11.291	1.00	56.93	BS2	ATOM	6430	CA	ARG	178	158.062	152.855	-15.625	1.00	49.13	BS
ATOM	6378	O	GLU	170	162.659	146.381	-11.677	1.00	56.93	BS2	ATOM	6431	CB	ARG	178	158.351	151.488	-16.245	1.00	87.97	BS

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ATOM	6432	CG	ARG	178	159.020	150.495	-15.353	1.00	87.97	BS2	ATOM	6485	CB	VAL	184	159.176	149.708	-34.362	1.00111.26
ATOM	6433	CD	ARG	178	158.287	149.180	-15.531	1.00	87.97	BS2	ATOM	6486	CG1	VAL	184	158.126	149.023	-35.202	1.00111.26
ATOM	6434	NE	ARG	178	159.152	148.004	-15.445	1.00	87.97	BS2	ATOM	6487	CG2	VAL	184	159.380	151.129	-34.855	1.00111.26
ATOM	6435	CZ	ARG	178	158.787	146.781	-15.822	1.00	87.97	BS2	ATOM	6488	C	VAL	184	159.617	148.739	-32.087	1.0063.47
ATOM	6436	NH1	ARG	178	157.571	146.565	-16.311	1.00	87.97	BS2	ATOM	6489	O	VAL	184	159.187	147.628	-31.766	1.0063.47
ATOM	6437	NH2	ARG	178	159.644	145.775	-15.716	1.00	87.97	BS2	ATOM	6490	N	ILE	185	160.829	149.158	-31.750	1.0062.14
ATOM	6438	C	ARG	178	157.240	153.642	-16.630	1.00	49.13	BS2	ATOM	6491	CA	ILE	185	161.764	148.307	-31.023	1.00126.61
ATOM	6439	O	ARG	178	156.142	153.233	-17.015	1.00	49.13	BS2	ATOM	6492	CB	ILE	185	163.107	149.053	-30.794	1.00126.61
ATOM	6440	N	LYS	179	157.793	154.779	-17.034	1.00	58.09	BS2	ATOM	6493	CG2	ILE	185	163.999	148.262	-29.855	1.00126.61
ATOM	6441	CA	LYS	179	157.193	155.617	-18.056	1.00	58.09	BS2	ATOM	6494	CG1	ILE	185	163.811	149.274	-32.134	1.00126.61
ATOM	6442	CB	LYS	179	157.187	157.084	-17.627	1.00	91.28	BS2	ATOM	6495	CD1	ILE	185	165.283	149.646	-32.022	1.00126.61
ATOM	6443	CG	LYS	179	156.327	157.400	-16.439	1.00	91.28	BS2	ATOM	6496	C	ILE	185	161.320	147.728	-29.671	1.0062.14
ATOM	6444	CD	LYS	179	156.542	158.847	-16.035	1.00	91.28	BS2	ATOM	6497	O	ILE	185	161.695	146.617	-29.320	1.0062.14
ATOM	6445	CE	LYS	179	155.290	159.466	-15.402	1.00	91.28	BS2	ATOM	6498	N	ALA	186	160.521	148.459	-28.911	1.0058.22
ATOM	6446	NZ	LYS	179	154.531	160.417	-16.324	1.00	91.28	BS2	ATOM	6499	CA	ALA	186	160.146	147.983	-27.581	1.0058.22
ATOM	6447	C	LYS	179	158.214	155.419	-19.168	1.00	58.09	BS2	ATOM	6500	CB	ALA	186	159.962	149.192	-26.646	1.0083.54
ATOM	6448	O	LYS	179	159.344	155.037	-18.874	1.00	58.09	BS2	ATOM	6501	C	ALA	186	158.960	147.032	-27.410	1.0083.54
ATOM	6449	N	LEU	180	157.852	155.652	-20.426	1.00	63.95	BS2	ATOM	6502	O	ALA	186	158.092	146.924	-28.274	1.0058.22
ATOM	6450	CA	LEU	180	158.842	155.484	-21.481	1.00	63.95	BS2	ATOM	6503	N	LEU	187	158.953	146.355	-26.258	1.0052.17
ATOM	6451	CB	LEU	180	159.507	154.118	-21.339	1.00	151.26	BS2	ATOM	6504	CA	LEU	187	157.889	145.442	-25.865	1.0059.31
ATOM	6452	CG	LEU	180	158.526	152.982	-21.044	1.00	151.26	BS2	ATOM	6505	CB	LEU	187	158.431	144.354	-24.940	1.0059.31
ATOM	6453	CD1	LEU	180	157.527	152.840	-22.181	1.00	151.26	BS2	ATOM	6506	CG	LEU	187	157.485	143.566	-24.018	1.0059.31
ATOM	6454	CD2	LEU	180	159.300	151.693	-20.837	1.00	151.26	BS2	ATOM	6507	CD1	LEU	187	156.094	143.423	-24.622	1.0059.31
ATOM	6455	C	LEU	180	158.389	155.646	-22.922	1.00	63.95	BS2	ATOM	6508	CD2	LEU	187	158.108	142.193	-23.754	1.0059.31
ATOM	6456	O	LEU	180	157.194	155.695	-23.228	1.00	63.95	BS2	ATOM	6509	C	LEU	187	156.870	146.282	-25.115	1.0052.17
ATOM	6457	N	PHE	181	159.379	155.714	-23.808	1.00	84.11	BS2	ATOM	6510	O	LEU	187	157.067	146.623	-23.946	1.0052.17
ATOM	6458	CA	PHE	181	159.144	155.818	-25.237	1.00	84.11	BS2	ATOM	6511	N	ALA	188	155.788	146.628	-25.797	1.0050.52
ATOM	6459	CB	PHE	181	160.092	156.827	-25.858	1.00	146.39	BS2	ATOM	6512	CA	ALA	188	154.756	147.436	-25.192	1.0050.52
ATOM	6460	CG	PHE	181	159.958	158.187	-25.300	1.00	146.39	BS2	ATOM	6513	CB	ALA	188	153.555	147.459	-26.115	1.0062.09
ATOM	6461	CD1	PHE	181	160.018	158.393	-23.928	1.00	146.39	BS2	ATOM	6514	C	ALA	188	154.339	146.934	-23.794	1.0050.52
ATOM	6462	CD2	PHE	181	159.780	159.273	-26.142	1.00	146.39	BS2	ATOM	6515	O	ALA	188	154.269	147.710	-22.827	1.0050.52
ATOM	6463	CE1	PHE	181	159.902	159.673	-23.397	1.00	146.39	BS2	ATOM	6516	N	ASP	189	154.074	145.629	-23.701	1.0063.22
ATOM	6464	CE2	PHE	181	159.664	160.553	-25.630	1.00	146.39	BS2	ATOM	6517	CA	ASP	189	153.605	144.986	-22.471	1.0030.98
ATOM	6465	CZ	PHE	181	159.724	160.761	-24.252	1.00	146.39	BS2	ATOM	6518	CG	ASP	189	153.413	143.481	-22.694	1.0030.98
ATOM	6466	C	PHE	181	159.448	154.448	-25.811	1.00	84.11	BS2	ATOM	6519	CB	ASP	189	152.364	143.166	-23.740	1.0030.98
ATOM	6467	O	PHE	181	160.216	153.687	-25.227	1.00	84.11	BS2	ATOM	6520	OD1	ASP	189	152.576	142.208	-24.516	1.0030.98
ATOM	6468	N	ILE	182	158.852	154.122	-26.946	1.00	99.11	BS2	ATOM	6521	OD2	ASP	189	151.321	143.858	-23.776	1.0030.98
ATOM	6469	CA	ILE	182	159.122	152.835	-27.552	1.00	99.11	BS2	ATOM	6522	C	ASP	189	152.364	143.166	-23.740	1.0030.98
ATOM	6470	CB	ILE	182	157.877	152.309	-28.265	1.00	150.13	BS2	ATOM	6523	O	ASP	189	154.408	145.142	-21.192	1.0063.22
ATOM	6471	CG2	ILE	182	157.414	151.031	-27.587	1.00	150.13	BS2	ATOM	6524	N	THR	190	154.006	144.616	-20.160	1.0063.22
ATOM	6472	CG1	ILE	182	156.783	153.378	-28.258	1.00	150.13	BS2	ATOM	6525	CA	THR	190	155.511	145.871	-21.206	1.0034.16
ATOM	6473	CD1	ILE	182	156.150	153.597	-26.902	1.00	150.13	BS2	ATOM	6526	CB	THR	190	156.291	145.920	-19.979	1.0034.16
ATOM	6474	C	ILE	182	160.343	152.963	-28.481	1.00	99.11	BS2	ATOM	6527	CG1	THR	190	157.630	145.146	-20.216	1.0069.98
ATOM	6475	O	ILE	182	161.464	153.028	-27.984	1.00	99.11	BS2	ATOM	6528	CG2	THR	190	158.246	144.829	-18.964	1.0069.98
ATOM	6476	N	PRO	183	160.177	152.951	-29.820	1.00	83.58	BS2	ATOM	6529	C	THR	190	158.576	145.959	-21.090	1.0069.98
ATOM	6477	CD	PRO	183	161.272	153.599	-30.576	1.00	81.69	BS2	ATOM	6530	O	THR	190	156.523	147.295	-19.331	1.0034.16
ATOM	6478	CA	PRO	183	158.997	152.815	-30.673	1.00	83.58	BS2	ATOM	6531	N	ASP	191	157.449	147.482	-18.548	1.0034.16
ATOM	6479	CB	PRO	183	159.331	153.705	-31.866	1.00	81.69	BS2	ATOM	6532	CA	ASP	191	155.655	148.249	-19.642	1.0055.94
ATOM	6480	CG	PRO	183	160.796	153.518	-32.003	1.00	81.69	BS2	ATOM	6533	CB	ASP	191	155.745	149.581	-19.059	1.0055.94
ATOM	6481	C	PRO	183	158.861	151.346	-31.050	1.00	83.58	BS2	ATOM	6534	CG	ASP	191	156.250	150.570	-20.081	1.0083.16
ATOM	6482	O	PRO	183	158.771	150.480	-30.182	1.00	83.58	BS2	ATOM	6535	OD1	ASP	191	156.348	149.964	-21.437	1.0083.16
ATOM	6483	N	VAL	184	158.878	151.077	-32.349	1.00	63.47	BS2	ATOM	6536	OD2	ASP	191	157.223	149.097	-22.612	1.0083.16
ATOM	6484	CA	VAL	184	158.753	149.728	-32.879	1.00	63.47	BS2	ATOM	6537	C	ASP	191	155.542	150.332	-22.312	1.0083.16
																			5.0055.94

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ATOM	6538	O	ASP	191	153.441	150.037	-19.465	1.00	55.94	BS2	ATOM	6591	N	TYR	199	162.601	157.753	-30.358	1.00	81.47	BS
ATOM	6539	N	SER	192	154.163	150.200	-17.346	1.00	55.95	BS2	ATOM	6592	CA	TYR	199	163.675	158.216	-29.490	1.00	81.47	BS
ATOM	6540	CA	SER	192	152.862	150.570	-16.847	1.00	55.95	BS2	ATOM	6593	CB	TYR	199	164.023	157.127	-28.477	1.00	89.64	BS
ATOM	6541	CB	SER	192	152.942	150.859	-15.352	1.00	55.95	BS2	ATOM	6594	CG	TYR	199	164.179	155.761	-29.094	1.00	89.64	BS
ATOM	6542	OG	SER	192	153.717	152.014	-15.110	1.00	55.95	BS2	ATOM	6595	CD1	TYR	199	164.729	155.604	-30.371	1.00	89.64	BS
ATOM	6543	C	SER	192	152.348	151.791	-17.610	1.00	55.95	BS2	ATOM	6596	CE1	TYR	199	164.884	154.355	-30.940	1.00	89.64	BS
ATOM	6544	O	SER	192	151.296	151.731	-18.241	1.00	55.95	BS2	ATOM	6597	CD2	TYR	199	163.791	154.618	-28.402	1.00	89.64	BS
ATOM	6545	N	ASP	193	153.087	152.894	-17.573	1.00	65.05	BS2	ATOM	6598	CE2	TYR	199	163.949	153.352	-28.977	1.00	89.64	BS
ATOM	6546	CA	ASP	193	152.663	154.108	-18.274	1.00	65.05	BS2	ATOM	6599	CZ	TYR	199	164.490	153.235	-30.239	1.00	89.64	BS
ATOM	6547	CB	ASP	193	152.590	155.283	-17.279	1.00	61.44	BS2	ATOM	6600	OH	TYR	199	164.607	151.998	-30.810	1.00	89.64	BS
ATOM	6548	CG	ASP	193	151.661	155.006	-16.078	1.00	61.44	BS2	ATOM	6601	C	TYR	199	165.976	158.694	-30.167	1.00	81.47	BS
ATOM	6549	OD1	ASP	193	150.430	154.852	-16.276	1.00	61.44	BS2	ATOM	6602	O	TYR	199	165.852	157.893	-30.509	1.00	81.47	BS
ATOM	6550	OD2	ASP	193	152.162	154.952	-14.923	1.00	61.44	BS2	ATOM	6603	N	ILE	200	165.078	160.016	-30.323	1.00	10128.57	BS
ATOM	6551	C	ASP	193	153.631	154.447	-19.432	1.00	65.05	BS2	ATOM	6604	CA	ILE	200	166.231	160.721	-30.894	1.00	10128.57	BS
ATOM	6552	O	ASP	193	154.646	155.116	-19.228	1.00	65.05	BS2	ATOM	6605	CB	ILE	200	166.541	160.275	-32.333	1.00	10117.35	BS
ATOM	6553	N	PRO	194	153.339	153.973	-20.660	1.00	66.25	BS2	ATOM	6606	CG2	ILE	200	167.265	161.394	-33.077	1.00	10117.35	BS
ATOM	6554	CD	PRO	194	152.418	152.880	-21.022	1.00	70.11	BS2	ATOM	6607	CG1	ILE	200	167.404	159.006	-32.296	1.00	10117.35	BS
ATOM	6555	CA	PRO	194	154.235	154.274	-21.786	1.00	66.25	BS2	ATOM	6608	CD1	ILE	200	167.734	158.425	-33.654	1.00	10117.35	BS
ATOM	6556	CB	PRO	194	154.088	153.050	-22.688	1.00	70.11	BS2	ATOM	6609	C	ILE	200	165.980	162.234	-30.856	1.00	10128.57	BS
ATOM	6557	CG	PRO	194	152.653	152.735	-22.545	1.00	70.11	BS2	ATOM	6610	O	ILE	200	165.098	162.753	-31.536	1.00	10128.57	BS
ATOM	6558	C	PRO	194	153.921	155.550	-22.549	1.00	66.25	BS2	ATOM	6611	N	ILE	201	166.780	162.911	-30.037	1.00	80.57	BS
ATOM	6559	O	PRO	194	152.963	156.260	-22.259	1.00	66.25	BS2	ATOM	6612	CA	ILE	201	166.733	164.352	-29.785	1.00	80.57	BS
ATOM	6560	N	ASP	195	154.758	155.813	-23.542	1.00	52.58	BS2	ATOM	6613	CB	ILE	201	167.919	165.055	-30.466	1.00	69.82	BS
ATOM	6561	CA	ASP	195	154.621	156.963	-24.412	1.00	52.58	BS2	ATOM	6614	CG2	ILE	201	167.856	166.544	-30.220	1.00	69.82	BS
ATOM	6562	CB	ASP	195	155.601	158.073	-24.050	1.00	88.94	BS2	ATOM	6615	CG1	ILE	201	169.219	164.525	-29.862	1.00	69.82	BS
ATOM	6563	CG	ASP	195	155.049	159.018	-23.023	1.00	88.94	BS2	ATOM	6616	CD1	ILE	201	170.467	165.164	-30.409	1.00	69.82	BS
ATOM	6564	OD1	ASP	195	153.952	159.564	-23.258	1.00	88.94	BS2	ATOM	6617	C	ILE	201	165.428	165.126	-30.027	1.00	80.57	BS
ATOM	6565	OD2	ASP	195	155.715	159.219	-21.986	1.00	88.94	BS2	ATOM	6618	O	ILE	201	164.727	165.443	-29.067	1.00	80.57	BS
ATOM	6566	C	ASP	195	154.973	156.465	-25.775	1.00	52.58	BS2	ATOM	6619	N	PRO	202	165.087	165.470	-31.281	1.00	91.53	BS
ATOM	6567	O	ASP	195	156.146	156.310	-26.082	1.00	52.58	BS2	ATOM	6620	CD	PRO	202	165.756	165.381	-32.593	1.00	10145.89	BS
ATOM	6568	N	LEU	196	153.951	156.189	-26.574	1.00	68.19	BS2	ATOM	6621	CA	PRO	202	163.817	166.202	-31.389	1.00	91.53	BS
ATOM	6569	CA	LEU	196	154.126	155.737	-27.943	1.00	68.19	BS2	ATOM	6622	CB	PRO	202	163.618	166.326	-32.896	1.00	10145.89	BS
ATOM	6570	CB	LEU	196	152.803	155.897	-28.670	1.00	10172.07	BS2	ATOM	6623	CG	PRO	202	165.027	166.449	-33.399	1.00	10145.89	BS
ATOM	6571	CG	LEU	196	152.298	154.761	-29.544	1.00	10172.07	BS2	ATOM	6624	C	PRO	202	162.694	165.422	-30.704	1.00	91.53	BS
ATOM	6572	CD1	LEU	196	150.934	155.158	-30.078	1.00	10172.07	BS2	ATOM	6625	O	PRO	202	161.886	165.993	-29.967	1.00	91.53	BS
ATOM	6573	CD2	LEU	196	153.267	154.482	-30.677	1.00	10172.07	BS2	ATOM	6626	N	GLY	203	161.657	163.270	-30.317	1.00	75.98	BS
ATOM	6574	C	LEU	196	155.185	156.640	-28.589	1.00	68.19	BS2	ATOM	6627	CA	GLY	203	161.832	163.373	-28.812	1.00	75.98	BS
ATOM	6575	O	LEU	196	155.692	157.553	-27.944	1.00	68.19	BS2	ATOM	6628	C	GLY	203	160.896	163.724	-28.092	1.00	75.98	BS
ATOM	6576	N	VAL	197	155.525	156.401	-29.851	1.00	67.09	BS2	ATOM	6629	O	GLY	203	163.041	163.077	-28.335	1.00	86.60	BS
ATOM	6577	CA	VAL	197	156.520	157.239	-30.531	1.00	67.09	BS2	ATOM	6630	N	ASN	204	163.341	163.159	-26.909	1.00	86.60	BS
ATOM	6578	CB	VAL	197	156.238	158.738	-30.253	1.00	100199.05	BS2	ATOM	6631	CA	ASN	204	164.709	162.583	-26.596	1.00	83.93	BS
ATOM	6579	CG1	VAL	197	157.506	159.545	-30.364	1.00	100199.05	BS2	ATOM	6632	CB	ASN	204	164.963	161.310	-27.313	1.00	83.93	BS
ATOM	6580	CG2	VAL	197	155.196	159.255	-31.231	1.00	100199.05	BS2	ATOM	6633	CG	ASN	204	166.072	161.242	-28.031	1.00	83.93	BS
ATOM	6581	C	VAL	197	157.994	156.919	-30.228	1.00	67.09	BS2	ATOM	6634	OD1	ASN	204	163.366	164.606	-27.493	1.00	86.60	BS
ATOM	6582	O	VAL	197	158.307	156.231	-29.264	1.00	67.09	BS2	ATOM	6635	ND2	ASN	204	164.436	165.172	-26.254	1.00	86.60	BS
ATOM	6583	N	ASP	198	158.879	157.465	-31.064	1.00	80.85	BS2	ATOM	6636	C	ASN	204	162.203	165.229	-26.423	1.00	10107.80	BS
ATOM	6584	CA	ASP	198	160.337	157.252	-31.038	1.00	80.85	BS2	ATOM	6637	O	ASN	204	162.185	166.610	-26.005	1.00	10102.89	BS
ATOM	6585	CB	ASP	198	160.879	157.645	-32.393	1.00	100134.34	BS2	ATOM	6638	N	ASP	205	162.765	167.508	-27.085	1.00	10102.89	BS
ATOM	6586	CG	ASP	198	160.553	159.062	-32.746	1.00	100134.34	BS2	ATOM	6639	CA	ASP	205	162.975	168.917	-26.590	1.00	10102.89	BS
ATOM	6587	OD1	ASP	198	159.994	159.276	-33.840	1.00	100134.34	BS2	ATOM	6641	CG	ASP	205	163.738	169.082	-25.609	1.00	10102.89	BS
ATOM	6588	OD2	ASP	198	161.318	157.810	-30.000	1.00	80.85	BS2	ATOM	6642	OD1	ASP	205	162.372	169.848	-27.173	1.00	10102.89	BS
ATOM	6589	C	ASP	198	160.941	158.276	-28.935	1.00	80.85	BS2	ATOM	6643	OD2	ASP	205						BS

ATOM	6644	C	ASP	205	160.808	167.093	-25.619	1.00107	.80	BS2	ATOM	6697	OEL	GLN	212	160.849	167.659	-19.059	1.00142	.91	BS
ATOM	6645	O	ASP	205	160.449	167.050	-24.453	1.00107	.80	BS2	ATOM	6698	NE2	GLN	212	161.200	165.895	-17.711	1.00142	.91	BS
ATOM	6646	N	ASP	206	160.023	167.560	-26.574	1.00	93.23	BS2	ATOM	6699	C	GLN	212	158.554	170.045	-16.105	1.00113	.78	BS
ATOM	6647	CA	ASP	206	158.712	168.022	-26.181	1.00	93.23	BS2	ATOM	6700	O	GLN	212	158.487	170.734	-15.084	1.00113	.78	BS
ATOM	6648	CB	ASP	206	157.881	168.416	-27.401	1.00	84.86	BS2	ATOM	6701	N	LEU	213	157.846	170.281	-17.211	1.00	83.85	BS
ATOM	6649	CG	ASP	206	157.731	167.298	-28.380	1.00	84.86	BS2	ATOM	6702	CA	LEU	213	156.890	171.368	-17.301	1.00	83.85	BS
ATOM	6650	OD1	ASP	206	158.770	166.744	-28.801	1.00	84.86	BS2	ATOM	6703	CB	LEU	213	156.407	171.561	-18.750	1.00	78.74	BS
ATOM	6651	OD2	ASP	206	156.575	166.984	-28.727	1.00	84.86	BS2	ATOM	6704	CG	LEU	213	157.375	171.890	-19.908	1.00	78.74	BS
ATOM	6652	C	ASP	206	158.037	166.914	-25.378	1.00	93.23	BS2	ATOM	6705	CD1	LEU	213	156.564	172.021	-21.138	1.00	78.74	BS
ATOM	6653	O	ASP	206	157.313	167.191	-24.422	1.00	93.23	BS2	ATOM	6706	CD2	LEU	213	158.300	173.031	-19.563	1.00	78.74	BS
ATOM	6654	N	ALA	207	158.295	165.660	-25.740	1.00	79.54	BS2	ATOM	6707	C	LEU	213	155.720	170.976	-16.389	1.00	83.85	BS
ATOM	6655	CB	ALA	207	157.692	164.565	-24.999	1.00	79.54	BS2	ATOM	6708	O	LEU	213	155.348	171.739	-15.497	1.00	83.85	BS
ATOM	6656	CB	ALA	207	158.014	163.205	-25.656	1.00	16.81	BS2	ATOM	6709	N	LEU	214	155.145	169.788	-16.599	1.00	59.76	BS
ATOM	6657	C	ALA	207	158.244	164.657	-23.574	1.00	79.54	BS2	ATOM	6710	CA	ILE	214	154.038	169.330	-15.747	1.00	59.76	BS
ATOM	6658	O	ALA	207	157.516	164.455	-22.605	1.00	79.54	BS2	ATOM	6711	CB	ILE	214	153.372	168.029	-16.261	1.00	62.54	BS
ATOM	6659	N	ILE	208	159.523	164.983	-23.437	1.00	81.43	BS2	ATOM	6712	CG2	ILE	214	152.641	167.334	-15.132	1.00	62.54	BS
ATOM	6660	CA	ILE	208	160.096	165.136	-22.101	1.00	81.43	BS2	ATOM	6713	CG1	ILE	214	152.353	168.350	-17.344	1.00	62.54	BS
ATOM	6661	CB	ILE	208	161.608	164.840	-22.058	1.00	69.19	BS2	ATOM	6714	CD1	ILE	214	151.221	169.216	-16.860	1.00	62.54	BS
ATOM	6662	CG2	ILE	208	162.285	165.718	-21.005	1.00	69.19	BS2	ATOM	6715	C	ILE	214	154.608	169.039	-14.374	1.00	59.76	BS
ATOM	6663	CG1	ILE	208	161.843	163.366	-21.724	1.00	69.19	BS2	ATOM	6716	O	ILE	214	154.004	169.338	-13.349	1.00	59.76	BS
ATOM	6664	CD1	ILE	208	163.254	163.077	-21.201	1.00	69.19	BS2	ATOM	6717	N	LEU	215	155.782	168.443	-14.351	1.00	53.62	BS
ATOM	6665	C	ILE	208	159.885	166.562	-21.590	1.00	81.43	BS2	ATOM	6718	CA	LEU	215	156.399	168.132	-13.082	1.00	53.62	BS
ATOM	6666	O	ILE	208	159.116	166.769	-20.658	1.00	81.43	BS2	ATOM	6719	CB	LEU	215	157.788	167.550	-13.326	1.00	58.91	BS
ATOM	6667	N	ARG	209	160.583	167.527	-22.204	1.00	99.88	BS2	ATOM	6720	CG	LEU	215	158.100	166.292	-12.535	1.00	58.91	BS
ATOM	6668	CA	ARG	209	160.506	168.951	-21.851	1.00	99.88	BS2	ATOM	6721	CD1	LEU	215	158.974	165.356	-13.355	1.00	58.91	BS
ATOM	6669	CB	ARG	209	160.631	169.835	-23.096	1.00189	.45	BS2	ATOM	6722	CD2	LEU	215	158.759	166.703	-11.241	1.00	58.91	BS
ATOM	6670	CG	ARG	209	160.871	171.307	-22.774	1.00189	.45	BS2	ATOM	6723	C	LEU	215	156.488	169.433	-12.287	1.00	53.62	BS
ATOM	6671	CD	ARG	209	160.412	172.266	-23.879	1.00189	.45	BS2	ATOM	6724	O	LEU	215	156.254	169.447	-11.076	1.00	53.62	BS
ATOM	6672	CE	ARG	209	161.051	172.039	-25.175	1.00189	.45	BS2	ATOM	6725	N	SER	216	156.808	170.523	-12.994	1.00	87.85	BS
ATOM	6673	NH1	ARG	209	160.980	172.886	-26.201	1.00189	.45	BS2	ATOM	6726	CA	SER	216	156.948	171.887	-12.399	1.00	87.85	BS
ATOM	6674	NH1	ARG	209	160.304	174.023	-26.084	1.00189	.45	BS2	ATOM	6727	CB	SER	216	157.327	172.887	-13.456	1.00122	.89	BS
ATOM	6675	NH2	ARG	209	161.576	172.596	-27.351	1.00189	.45	BS2	ATOM	6728	OG	SER	216	156.159	173.382	-14.089	1.00122	.89	BS
ATOM	6676	C	ARG	209	159.162	169.210	-21.212	1.00	99.88	BS2	ATOM	6729	O	SER	216	155.642	172.287	-11.759	1.00	87.85	BS
ATOM	6677	O	ARG	209	159.060	169.785	-20.122	1.00	99.88	BS2	ATOM	6730	C	SER	216	155.642	172.287	-11.759	1.00	87.85	BS
ATOM	6678	N	SER	210	158.126	168.773	-21.919	1.00	96.31	BS2	ATOM	6731	N	ARG	217	154.531	171.961	-12.411	1.00	78.09	BS
ATOM	6679	CA	SER	210	156.760	168.909	-21.447	1.00	96.31	BS2	ATOM	6732	CA	ARG	217	153.224	172.282	-11.865	1.00	78.09	BS
ATOM	6680	CB	SER	210	155.794	168.863	-22.645	1.00	86.44	BS2	ATOM	6733	CB	ARG	217	152.132	172.030	-12.897	1.00123	.37	BS
ATOM	6681	OG	SER	210	155.955	169.977	-23.489	1.00	86.44	BS2	ATOM	6734	CB	ARG	217	152.125	172.978	-14.074	1.00123	.37	BS
ATOM	6682	C	SER	210	156.472	167.797	-20.446	1.00	96.31	BS2	ATOM	6735	CD	ARG	217	150.939	172.628	-14.947	1.00123	.37	BS
ATOM	6683	O	SER	210	155.606	166.963	-20.663	1.00	96.31	BS2	ATOM	6736	NE	ARG	217	149.876	173.331	-17.053	1.00123	.37	BS
ATOM	6684	N	ILE	211	157.230	167.798	-19.355	1.00	59.56	BS2	ATOM	6737	CZ	ARG	217	149.069	172.276	-17.012	1.00123	.37	BS
ATOM	6685	CA	ILE	211	157.085	166.804	-18.302	1.00	59.56	BS2	ATOM	6738	NH1	ARG	217	149.876	173.331	-17.053	1.00123	.37	BS
ATOM	6686	CB	ILE	211	157.719	165.466	-18.691	1.00134	.06	BS2	ATOM	6739	NH2	ARG	217	149.069	172.276	-17.012	1.00123	.37	BS
ATOM	6687	CG2	ILE	211	158.265	164.753	-17.460	1.00134	.06	BS2	ATOM	6740	C	ARG	217	152.988	171.385	-18.066	1.00	78.09	BS
ATOM	6688	CD1	ILE	211	156.678	164.604	-19.390	1.00134	.06	BS2	ATOM	6741	O	ARG	217	151.929	170.780	-10.488	1.00	78.09	BS
ATOM	6689	CD1	ILE	211	155.484	164.298	-18.516	1.00134	.06	BS2	ATOM	6742	N	ALA	218	154.008	171.274	-9.805	1.00124	.77	BS
ATOM	6690	C	ILE	211	157.771	167.347	-17.068	1.00	59.56	BS2	ATOM	6743	CA	ALA	218	153.927	170.494	-8.580	1.00124	.77	BS
ATOM	6691	O	ILE	211	157.423	166.989	-15.945	1.00	59.56	BS2	ATOM	6744	CB	ALA	218	155.211	169.713	-8.353	1.00	70.16	BS
ATOM	6692	N	GLN	212	158.781	168.180	-17.290	1.00113	.78	BS2	ATOM	6745	C	ALA	218	153.804	171.579	-7.538	1.00124	.77	BS
ATOM	6693	CA	GLN	212	159.464	168.836	-16.192	1.00113	.78	BS2	ATOM	6746	O	ALA	218	153.097	171.442	-6.542	1.00124	.77	BS
ATOM	6694	CB	GLN	212	160.878	169.257	-16.587	1.00142	.91	BS2	ATOM	6747	N	VAL	219	154.513	172.668	-7.810	1.00128	.61	BS
ATOM	6695	CG	GLN	212	161.795	168.098	-16.901	1.00142	.91	BS2	ATOM	6748	CA	VAL	219	154.546	173.842	-6.954	1.00128	.61	BS
ATOM	6696	CD	GLN	212	161.238	167.194	-17.985	1.00142	.91	BS2	ATOM	6749	CB	VAL	219	155.368	173.599	-5.658	1.00126	.27	BS

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ATOM	6750	CG1	VAL	219	155.700	174.937	-5.009	1.00126.27	BS2	ATOM	6803	CG	ARG	226	164.425	175.954	-18.338	1.00180.76	BS
ATOM	6751	CG2	VAL	219	154.586	172.728	-4.673	1.00126.27	BS2	ATOM	6804	CG	ARG	226	165.378	177.090	-18.008	1.00180.76	BS
ATOM	6752	C	VAL	219	155.203	175.004	-7.697	1.00128.61	BS2	ATOM	6805	NE	ARG	226	164.876	177.975	-16.960	1.00180.76	BS
ATOM	6753	O	VAL	219	156.403	174.969	-7.979	1.00128.61	BS2	ATOM	6806	CZ	ARG	226	165.559	179.010	-16.475	1.00180.76	BS
ATOM	6754	N	ASP	220	154.414	176.023	-8.020	1.00122.20	BS2	ATOM	6807	NH1	ARG	226	166.769	179.286	-16.947	1.00180.76	BS
ATOM	6755	CA	ASP	220	154.936	177.212	-8.689	1.00122.20	BS2	ATOM	6808	NH2	ARG	226	165.041	179.767	-15.516	1.00180.76	BS
ATOM	6756	CB	ASP	220	156.083	177.802	-7.852	1.00125.15	BS2	ATOM	6809	C	ARG	226	166.597	174.891	-21.295	1.0075.78	BS
ATOM	6757	CG	ASP	220	155.810	179.226	-7.388	1.00125.15	BS2	ATOM	6810	O	ARG	226	167.566	174.628	-20.582	1.0075.78	BS
ATOM	6758	OD1	ASP	220	154.749	179.472	-6.771	1.00125.15	BS2	ATOM	6811	N	GLY	227	166.576	174.646	-22.597	1.0082.96	BS
ATOM	6759	OD2	ASP	220	156.672	180.097	-7.637	1.00125.15	BS2	ATOM	6812	CA	GLY	227	167.703	174.009	-23.248	1.0082.96	BS
ATOM	6760	C	ASP	220	155.422	176.994	-10.122	1.00122.20	BS2	ATOM	6813	C	GLY	227	167.141	172.866	-24.058	1.0082.96	BS
ATOM	6761	O	ASP	220	156.546	176.531	-10.335	1.00122.20	BS2	ATOM	6814	O	GLY	227	167.837	172.228	-24.846	1.0082.96	BS
ATOM	6762	N	LEU	221	154.581	177.338	-11.098	1.00138.35	BS2	ATOM	6815	N	GLY	228	165.852	172.619	-23.849	1.00176.15	BS
ATOM	6763	CA	LEU	221	154.957	177.203	-12.503	1.00138.35	BS2	ATOM	6816	CA	GLY	228	165.166	171.559	-24.555	1.00176.15	BS
ATOM	6764	CB	LEU	221	153.909	177.862	-13.408	1.0098.55	BS2	ATOM	6817	C	GLY	228	164.980	171.860	-26.031	1.00176.15	BS
ATOM	6765	CG	LEU	221	153.119	176.962	-14.370	1.0098.55	BS2	ATOM	6818	O	GLY	228	164.013	171.417	-26.639	1.00176.15	BS
ATOM	6766	CD1	LEU	221	152.181	177.819	-15.211	1.0098.55	BS2	ATOM	6819	N	VAL	229	165.890	172.640	-26.604	1.00130.17	BS
ATOM	6767	CD2	LEU	221	154.079	176.192	-15.275	1.0098.55	BS2	ATOM	6820	CA	VAL	229	165.854	172.980	-28.028	1.00130.17	BS
ATOM	6768	C	LEU	221	156.309	177.900	-12.663	1.00138.35	BS2	ATOM	6821	CG1	VAL	229	164.839	174.096	-28.362	1.0082.12	BS
ATOM	6769	O	LEU	221	156.478	179.047	-12.240	1.00138.35	BS2	ATOM	6822	CG1	VAL	229	163.835	173.585	-29.384	1.0082.12	BS
ATOM	6770	N	LEU	222	157.267	177.206	-13.271	1.00149.07	BS2	ATOM	6823	CG2	VAL	229	164.136	174.576	-27.100	1.0082.12	BS
ATOM	6771	CA	LEU	222	158.608	177.754	-13.432	1.00149.07	BS2	ATOM	6824	C	VAL	229	167.246	173.478	-28.356	1.00130.17	BS
ATOM	6772	CB	LEU	222	159.556	177.123	-12.371	1.00109.09	BS2	ATOM	6825	O	VAL	229	167.695	173.438	-29.504	1.00130.17	BS
ATOM	6773	CG2	LEU	222	161.008	177.318	-12.759	1.00109.09	BS2	ATOM	6826	N	VAL	230	167.922	173.937	-27.310	1.00124.71	BS
ATOM	6774	CG1	LEU	222	159.262	177.730	-10.994	1.00109.09	BS2	ATOM	6827	CA	VAL	230	169.281	174.435	-27.410	1.00124.71	BS
ATOM	6775	CD1	LEU	222	160.156	177.215	-9.876	1.00109.09	BS2	ATOM	6828	CB	VAL	230	169.701	175.125	-26.099	1.00120.33	BS
ATOM	6776	C	LEU	222	159.232	177.620	-14.824	1.00149.07	BS2	ATOM	6829	CG1	VAL	230	171.087	175.737	-26.246	1.00120.33	BS
ATOM	6777	O	LEU	222	159.600	178.527	-15.258	1.00149.07	BS2	ATOM	6830	CG2	VAL	230	168.668	176.180	-25.721	1.00120.33	BS
ATOM	6778	N	LEU	223	159.352	178.755	-15.510	1.00141.30	BS2	ATOM	6831	C	VAL	230	170.165	173.217	-27.631	1.00124.71	BS
ATOM	6779	CA	LEU	223	159.947	178.824	-16.843	1.00141.30	BS2	ATOM	6832	O	VAL	230	171.384	173.324	-27.730	1.00124.71	BS
ATOM	6780	CB	LEU	223	161.471	178.498	-16.800	1.00107.55	BS2	ATOM	6833	N	GLU	231	169.526	172.053	-27.701	1.0092.97	BS
ATOM	6781	CG2	LEU	223	162.047	178.406	-18.221	1.00107.55	BS2	ATOM	6834	CB	GLU	231	170.228	170.797	-27.902	1.0092.97	BS
ATOM	6782	CG1	LEU	223	162.222	179.596	-16.045	1.00107.55	BS2	ATOM	6835	CG	GLU	231	169.792	169.782	-26.846	1.00117.97	BS
ATOM	6783	CD1	LEU	223	161.951	179.650	-14.560	1.00107.55	BS2	ATOM	6836	CG	GLU	231	170.105	170.204	-25.428	1.00117.97	BS
ATOM	6784	C	LEU	223	159.306	177.921	-17.886	1.00141.30	BS2	ATOM	6837	CD	GLU	231	171.592	170.348	-25.187	1.00117.97	BS
ATOM	6785	O	LEU	223	158.616	176.954	-17.566	1.00141.30	BS2	ATOM	6838	OE1	GLU	231	172.224	171.179	-25.868	1.00117.97	BS
ATOM	6786	N	GLN	224	159.547	178.274	-19.144	1.00109.91	BS2	ATOM	6839	OE1	GLU	231	170.130	169.633	-24.317	1.00117.97	BS
ATOM	6787	CA	GLN	224	159.067	177.532	-20.298	1.00109.91	BS2	ATOM	6840	C	GLU	231	170.969	169.821	-29.956	1.0092.97	BS
ATOM	6788	CB	GLN	224	157.940	178.302	-20.987	1.00174.10	BS2	ATOM	6841	O	GLU	231	170.969	169.821	-29.956	1.0092.97	BS
ATOM	6789	CG	GLN	224	156.800	178.657	-20.040	1.00174.10	BS2	ATOM	6842	N	PRO	232	168.744	170.135	-29.752	1.00156.04	BS
ATOM	6790	CD	GLN	224	155.682	179.429	-20.716	1.00174.10	BS2	ATOM	6843	CD	PRO	232	167.527	170.448	-28.983	1.0099.41	BS
ATOM	6791	OE1	GLN	224	155.911	180.479	-21.319	1.00174.10	BS2	ATOM	6844	CA	PRO	232	168.382	169.599	-31.067	1.00156.04	BS
ATOM	6792	NE2	GLN	224	154.461	178.914	-20.609	1.00174.10	BS2	ATOM	6845	CB	PRO	232	166.915	169.983	-31.188	1.0099.41	BS
ATOM	6793	C	GLN	224	160.295	177.437	-21.197	1.00109.91	BS2	ATOM	6846	CG	PRO	232	166.436	169.789	-29.804	1.0099.41	BS
ATOM	6794	O	GLN	224	160.862	178.461	-21.510	1.00149.44	BS2	ATOM	6847	C	PRO	232	169.722	170.116	-32.231	1.00156.04	BS
ATOM	6795	N	ALA	225	160.709	176.209	-21.510	1.00149.44	BS2	ATOM	6848	O	PRO	232	168.722	170.839	-33.093	1.00156.04	BS
ATOM	6796	CA	ALA	225	161.901	175.958	-22.321	1.00149.44	BS2	ATOM	6849	N	SER	233	170.495	169.717	-32.239	1.00152.81	BS
ATOM	6797	CB	ALA	225	161.934	176.888	-23.551	1.0079.18	BS2	ATOM	6850	CA	SER	233	171.491	170.084	-33.249	1.00152.81	BS
ATOM	6798	C	ALA	225	163.111	176.214	-20.617	1.00149.44	BS2	ATOM	6851	CB	SER	233	170.822	170.411	-34.597	1.00124.07	BS
ATOM	6799	O	ALA	225	163.094	177.142	-20.605	1.00149.44	BS2	ATOM	6852	OG	SER	233	171.753	170.343	-35.664	1.00124.07	BS
ATOM	6800	N	ARG	226	164.152	175.393	-21.546	1.0075.78	BS2	ATOM	6853	C	SER	233	172.358	171.259	-32.767	1.00152.81	BS
ATOM	6801	CA	ARG	226	165.346	175.550	-20.712	1.0075.78	BS2	ATOM	6854	O	SER	233	173.583	171.137	-32.704	1.00152.81	BS
ATOM	6802	CB	ARG	226	165.082	174.982	-19.312	1.00180.76	BS2	ATOM	6855	N	PRO	234	171.739	172.401	-32.406	1.00163.81	BS

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ATOM	6856	CD	PRO	23	170.332	172.809	-32.582	1.00122.01	BS2	ATOM	6909	CG	LVS	9	158.803	125.133	11.301	1.00	71.27	ES	
ATOM	6857	CA	PRO	234	172.538	173.540	-31.940	1.00163.81	BS2	ATOM	6910	CD	LVS	9	157.644	124.219	10.946	1.00	71.27	ES	
ATOM	6858	CB	PRO	234	171.536	174.693	-31.984	1.00122.01	BS2	ATOM	6911	CE	LVS	9	156.881	123.797	12.195	1.00	71.27	ES	
ATOM	6859	CG	PRO	234	170.233	174.012	-31.688	1.00122.01	BS2	ATOM	6912	NZ	LVS	9	155.882	122.733	11.898	1.00	71.27	ES	
ATOM	6860	C	PRO	234	173.182	173.386	-30.556	1.00163.81	BS2	ATOM	6913	C	LVS	9	162.041	125.887	9.471	1.00	62.40	ES	
ATOM	6861	O	PRO	234	172.814	174.097	-29.618	1.00163.81	BS2	ATOM	6914	O	LVS	9	162.119	126.406	8.347	1.00	62.40	ES	
ATOM	6862	N	SER	235	174.139	172.468	-30.431	1.00119.95	BS2	ATOM	6915	N	MET	10	162.911	124.994	9.933	1.00	53.98	ES	
ATOM	6863	CA	SER	235	174.837	172.256	-29.160	1.00119.95	BS2	ATOM	6916	CA	MET	10	164.051	124.500	9.167	1.00	53.98	ES	
ATOM	6864	CB	SER	235	173.868	171.743	-28.090	1.00132.49	BS2	ATOM	6917	CB	MET	10	165.141	124.034	10.126	1.00104.41	ES		
ATOM	6865	OG	SER	235	173.353	170.461	-28.415	1.00132.49	BS2	ATOM	6918	CG	MET	10	166.277	123.309	9.451	1.00104.41	ES		
ATOM	6866	C	SER	235	176.006	171.281	-29.286	1.00119.95	BS2	ATOM	6919	SD	MET	10	167.508	124.476	8.905	1.00104.41	ES		
ATOM	6867	O	SER	235	176.002	170.259	-28.563	1.00119.95	BS2	ATOM	6920	CE	MET	10	166.776	125.050	7.391	1.00104.41	ES		
ATOM	6868	OXT	SER	235	176.919	171.550	-30.098	1.00132.49	BS2	ATOM	6921	C	MET	10	163.625	123.314	8.303	1.00	53.98	ES	
ATOM	6869	CB	ASP	5	154.764	136.658	15.563	1.00130.37	ES5	ATOM	6922	O	MET	10	163.607	122.180	8.780	1.00	53.98	ES	
ATOM	6870	CG	ASP	5	153.517	136.256	14.782	1.00130.37	ES5	ATOM	6923	N	ILE	11	163.282	123.567	7.044	1.00	52.16	ES	
ATOM	6871	OD1	ASP	5	152.629	137.117	14.600	1.00130.37	ES5	ATOM	6924	CA	ILE	11	162.878	122.492	6.138	1.00	52.16	ES	
ATOM	6872	OD2	ASP	5	153.427	135.082	14.349	1.00130.37	ES5	ATOM	6925	CB	ILE	11	162.438	123.050	4.777	1.00	56.30	ES	
ATOM	6873	C	ASP	5	156.449	136.409	13.731	1.00120.25	ES5	ATOM	6926	CG2	ILE	11	162.359	121.929	3.746	1.00	56.30	ES	
ATOM	6874	O	ASP	5	157.667	136.240	13.750	1.00120.25	ES5	ATOM	6927	CG1	ILE	11	161.059	123.660	4.913	1.00	56.30	ES	
ATOM	6875	N	ASP	5	155.176	138.563	14.015	1.00120.25	ES5	ATOM	6928	CD1	ILE	11	160.098	122.674	5.465	1.00	56.30	ES	
ATOM	6876	CA	ASP	5	155.799	137.396	14.700	1.00120.25	ES5	ATOM	6929	C	ILE	11	163.995	121.464	5.917	1.00	52.16	ES	
ATOM	6877	N	PHE	6	155.644	135.763	12.888	1.00	62.95	ES5	ATOM	6930	O	ILE	11	163.771	120.257	6.015	1.00	52.16	ES
ATOM	6878	CA	PHE	6	156.156	134.784	11.929	1.00	62.95	ES5	ATOM	6931	N	LEU	12	165.191	121.940	5.601	1.00	42.24	ES
ATOM	6879	CB	PHE	6	157.139	135.436	10.944	1.00	63.71	ES5	ATOM	6932	CA	LEU	12	166.320	121.039	5.413	1.00	42.24	ES
ATOM	6880	CG	PHE	6	156.489	136.193	9.802	1.00	63.71	ES5	ATOM	6933	CB	LEU	12	166.047	120.040	4.278	1.00	46.87	ES
ATOM	6881	CD1	PHE	6	157.269	136.981	8.953	1.00	63.71	ES5	ATOM	6934	CG	LEU	12	166.231	120.453	2.810	1.00	46.87	ES
ATOM	6882	CD2	PHE	6	155.121	136.102	9.556	1.00	63.71	ES5	ATOM	6935	CD1	LEU	12	165.518	121.759	2.601	1.00	46.87	ES
ATOM	6883	CE1	PHE	6	156.700	137.663	7.879	1.00	63.71	ES5	ATOM	6936	CD2	LEU	12	167.696	120.585	2.438	1.00	46.87	ES
ATOM	6884	CE2	PHE	6	154.542	136.782	8.484	1.00	63.71	ES5	ATOM	6937	C	LEU	12	167.596	121.788	5.102	1.00	42.24	ES
ATOM	6885	CZ	PHE	6	155.333	137.563	7.644	1.00	63.71	ES5	ATOM	6938	O	LEU	12	167.574	122.829	4.447	1.00	42.24	ES
ATOM	6886	C	PHE	6	156.895	133.673	12.666	1.00	62.95	ES5	ATOM	6939	N	ILE	13	168.711	121.257	5.585	1.00	47.45	ES
ATOM	6887	O	PHE	6	157.857	133.937	13.382	1.00	62.95	ES5	ATOM	6940	CA	ILE	13	169.999	121.859	5.285	1.00	47.45	ES
ATOM	6888	N	GLU	7	156.442	132.433	12.519	1.00	55.62	ES5	ATOM	6941	CB	ILE	13	170.655	122.520	6.501	1.00	73.78	ES
ATOM	6889	CA	GLU	7	157.146	131.332	13.158	1.00	55.62	ES5	ATOM	6942	CG2	ILE	13	169.806	123.672	6.971	1.00	73.78	ES
ATOM	6890	CB	GLU	7	156.226	130.139	13.426	1.00120.74	ES5	ATOM	6943	CG1	ILE	13	170.862	121.496	7.607	1.00	73.78	ES	
ATOM	6891	CG	GLU	7	156.800	129.206	14.483	1.00120.74	ES5	ATOM	6944	CD1	ILE	13	171.652	122.039	8.762	1.00	47.45	ES	
ATOM	6892	CD	GLU	7	155.950	127.975	14.732	1.00120.74	ES5	ATOM	6945	C	ILE	13	170.924	120.782	4.772	1.00	47.45	ES	
ATOM	6893	OE1	GLU	7	155.886	127.104	13.841	1.00120.74	ES5	ATOM	6946	O	ILE	13	171.051	119.722	5.381	1.00	47.45	ES	
ATOM	6894	OE2	GLU	7	155.349	127.875	15.823	1.00120.74	ES5	ATOM	6947	N	ARG	14	171.545	121.055	3.630	1.00	46.46	ES	
ATOM	6895	C	GLU	7	158.203	130.979	12.121	1.00	55.62	ES5	ATOM	6948	CA	ARG	14	172.480	120.122	3.023	1.00	46.46	ES
ATOM	6896	O	GLU	7	158.151	131.477	10.995	1.00	55.62	ES5	ATOM	6949	CB	ARG	14	172.019	119.751	1.621	1.00	36.79	ES
ATOM	6897	N	GLU	8	159.153	130.126	12.472	1.00	75.27	ES5	ATOM	6950	CG	ARG	14	171.986	120.899	0.664	1.00	36.79	ES
ATOM	6898	CA	GLU	8	160.208	129.804	11.527	1.00	75.27	ES5	ATOM	6951	CD	ARG	14	171.353	120.415	-0.589	1.00	36.79	ES
ATOM	6899	CB	GLU	8	161.391	130.721	11.815	1.00103.64	ES5	ATOM	6952	NE	ARG	14	171.392	121.409	-1.646	1.00	36.79	ES	
ATOM	6900	CG	GLU	8	162.319	130.975	10.662	1.00103.64	ES5	ATOM	6953	CZ	ARG	14	170.858	121.215	-2.851	1.00	36.79	ES	
ATOM	6901	CD	GLU	8	163.150	132.224	10.891	1.00103.64	ES5	ATOM	6954	NH1	ARG	14	170.250	120.063	-3.120	1.00	36.79	ES	
ATOM	6902	OE1	GLU	8	163.717	132.364	11.995	1.00103.64	ES5	ATOM	6955	NH2	ARG	14	170.944	122.163	-3.787	1.00	36.79	ES	
ATOM	6903	OE2	GLU	8	163.238	133.065	9.972	1.00103.64	ES5	ATOM	6956	C	ARG	14	173.856	122.760	2.958	1.00	46.46	ES	
ATOM	6904	C	GLU	8	160.621	128.342	11.612	1.00	75.27	ES5	ATOM	6957	O	ARG	14	173.990	121.983	3.020	1.00	46.46	ES
ATOM	6905	O	GLU	8	160.997	127.855	12.680	1.00	75.27	ES5	ATOM	6958	N	ARG	15	174.877	119.926	2.817	1.00	50.67	ES
ATOM	6906	N	LVS	9	160.545	127.642	10.484	1.00	62.40	ES5	ATOM	6959	CA	ARG	15	176.246	120.411	2.762	1.00	50.67	ES
ATOM	6907	CA	LVS	9	160.914	126.235	10.441	1.00	62.40	ES5	ATOM	6960	CB	ARG	15	177.115	119.593	3.711	1.00	54.53	ES
ATOM	6908	CB	LVS	9	159.693	125.381	10.115	1.00	71.27	ES5	ATOM	6961	CG	ARG	15	178.385	120.276	4.107	1.00	54.53	ES

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ATOM	6962	CD	ARG	15	179.516	119.959	3.178	1.00	54.53	ESS	ATOM	7015	CA	GLY	22	193.999	121.606	-3.904	1.00	41.94	ESS
ATOM	6963	NE	ARG	15	180.603	119.312	3.907	1.00	54.53	ESS	ATOM	7016	C	GLY	22	193.139	121.431	-2.650	1.00	41.94	ESS
ATOM	6964	CZ	ARG	15	180.932	118.030	3.784	1.00	54.53	ESS	ATOM	7017	O	GLY	22	193.439	121.992	-1.603	1.00	41.94	ESS
ATOM	6965	NH1	ARG	15	180.256	117.245	2.949	1.00	54.53	ESS	ATOM	7018	N	GLY	23	192.065	120.647	-2.751	1.00	68.21	ESS
ATOM	6966	NH2	ARG	15	181.948	117.537	4.481	1.00	54.53	ESS	ATOM	7019	CA	GLY	23	191.186	120.437	-1.611	1.00	68.21	ESS
ATOM	6967	C	ARG	15	176.792	120.320	1.360	1.00	50.67	ESS	ATOM	7020	O	GLY	23	189.714	120.658	-1.937	1.00	68.21	ESS
ATOM	6968	O	ARG	15	177.565	119.424	1.034	1.00	50.67	ESS	ATOM	7021	C	GLY	23	189.364	121.310	-2.932	1.00	68.21	ESS
ATOM	6969	N	THR	16	176.385	121.252	0.520	1.00	44.02	ESS	ATOM	7022	N	ARG	24	188.846	120.109	-1.091	1.00	62.13	ESS
ATOM	6970	CA	THR	16	176.852	121.265	-0.855	1.00	44.02	ESS	ATOM	7023	CA	ARG	24	187.398	120.217	-1.268	1.00	62.13	ESS
ATOM	6971	CB	THR	16	176.233	122.458	-1.644	1.00	47.36	ESS	ATOM	7024	CB	ARG	24	186.741	118.913	-0.805	1.00	58.98	ESS
ATOM	6972	CG1	THR	16	177.143	122.860	-2.665	1.00	47.36	ESS	ATOM	7025	CG	ARG	24	185.794	118.282	-1.807	1.00	58.98	ESS
ATOM	6973	CG2	THR	16	175.943	123.666	-0.725	1.00	47.36	ESS	ATOM	7026	CD	ARG	24	185.232	116.959	-1.284	1.00	58.98	ESS
ATOM	6974	C	THR	16	178.384	121.323	-0.959	1.00	44.02	ESS	ATOM	7027	NE	ARG	24	186.206	115.876	-1.322	1.00	58.98	ESS
ATOM	6975	O	THR	16	179.003	122.333	-0.666	1.00	44.02	ESS	ATOM	7028	CZ	ARG	24	186.643	115.303	-2.439	1.00	58.98	ESS
ATOM	6976	N	ALA	17	178.995	120.226	-1.376	1.00	87.47	ESS	ATOM	7029	NH1	ARG	24	186.191	115.701	-3.615	1.00	58.98	ESS
ATOM	6977	CA	ALA	17	180.445	120.189	-1.536	1.00	87.47	ESS	ATOM	7030	NH2	ARG	24	187.546	114.338	-2.382	1.00	58.98	ESS
ATOM	6978	CB	ALA	17	180.994	118.853	-1.040	1.00	87.47	ESS	ATOM	7031	C	ARG	24	186.860	121.393	-0.447	1.00	62.13	ESS
ATOM	6979	C	ALA	17	180.795	120.391	-3.015	1.00	87.47	ESS	ATOM	7032	O	ARG	24	187.063	121.443	0.772	1.00	62.13	ESS
ATOM	6980	O	ALA	17	180.037	120.014	-3.903	1.00	87.47	ESS	ATOM	7033	N	ARG	25	186.183	122.336	-1.103	1.00	56.93	ESS
ATOM	6981	N	ARG	18	181.935	121.006	-3.277	1.00	45.94	ESS	ATOM	7034	CA	ARG	25	185.638	123.502	-0.395	1.00	56.93	ESS
ATOM	6982	CA	ARG	18	182.380	121.245	-4.647	1.00	45.94	ESS	ATOM	7035	CB	ARG	25	186.149	124.798	-1.029	1.00	90.45	ESS
ATOM	6983	CB	ARG	18	181.360	122.079	-5.435	1.00	200.66	ESS	ATOM	7036	CG	ARG	25	187.650	124.990	-0.843	1.00	90.45	ESS
ATOM	6984	CG	ARG	18	181.871	122.502	-6.819	1.00	200.66	ESS	ATOM	7037	CD	ARG	25	188.109	126.414	-1.142	1.00	90.45	ESS
ATOM	6985	CD	ARG	18	180.803	123.149	-7.684	1.00	200.66	ESS	ATOM	7038	NE	ARG	25	189.480	126.644	-0.675	1.00	90.45	ESS
ATOM	6986	NE	ARG	18	179.928	122.174	-8.332	1.00	200.66	ESS	ATOM	7039	CZ	ARG	25	190.143	127.794	-0.797	1.00	90.45	ESS
ATOM	6987	CZ	ARG	18	178.868	122.496	-9.071	1.00	200.66	ESS	ATOM	7040	NH1	ARG	25	189.569	128.840	-1.376	1.00	90.45	ESS
ATOM	6988	NH1	ARG	18	178.541	123.766	-9.259	1.00	200.66	ESS	ATOM	7041	NH2	ARG	25	191.385	127.902	-0.337	1.00	90.45	ESS
ATOM	6989	NH2	ARG	18	178.124	121.550	-9.622	1.00	200.66	ESS	ATOM	7042	C	ARG	25	184.109	123.500	-0.302	1.00	56.93	ESS
ATOM	6990	C	ARG	18	183.715	121.970	-4.616	1.00	45.94	ESS	ATOM	7043	O	ARG	25	183.409	123.713	-1.289	1.00	56.93	ESS
ATOM	6991	O	ARG	18	184.719	121.409	-4.159	1.00	45.94	ESS	ATOM	7044	N	PHE	26	183.609	123.267	0.913	1.00	45.14	ESS
ATOM	6992	N	MET	19	184.896	124.048	-5.109	1.00	91.27	ESS	ATOM	7045	CA	PHE	26	182.182	123.181	1.171	1.00	45.14	ESS
ATOM	6993	CA	MET	19	184.786	125.037	-3.962	1.00	91.27	ESS	ATOM	7046	CB	PHE	26	181.940	122.356	2.411	1.00	32.83	ESS
ATOM	6994	CB	MET	19	184.786	125.037	-3.962	1.00	91.27	ESS	ATOM	7047	CG	PHE	26	182.738	121.103	2.471	1.00	32.83	ESS
ATOM	6995	CG	MET	19	185.679	126.268	-4.008	1.00	91.12	ESS	ATOM	7048	CD1	PHE	26	183.825	121.005	3.314	1.00	32.83	ESS
ATOM	6996	SD	MET	19	185.309	127.356	-2.587	1.00	91.12	ESS	ATOM	7049	CD2	PHE	26	182.354	119.987	1.744	1.00	32.83	ESS
ATOM	6997	CE	MET	19	183.618	127.881	-2.992	1.00	91.12	ESS	ATOM	7050	CE1	PHE	26	184.504	119.811	3.439	1.00	32.83	ESS
ATOM	6998	C	MET	19	186.176	123.205	-5.013	1.00	91.27	ESS	ATOM	7051	CE2	PHE	26	183.033	118.788	1.862	1.00	32.83	ESS
ATOM	6999	O	MET	19	187.105	123.573	-4.279	1.00	91.27	ESS	ATOM	7052	CZ	PHE	26	184.103	118.698	2.711	1.00	32.83	ESS
ATOM	7000	N	GLN	20	186.220	122.078	-5.733	1.00	56.91	ESS	ATOM	7053	C	PHE	26	181.396	124.470	1.338	1.00	45.14	ESS
ATOM	7001	CA	GLN	20	187.372	121.190	-6.594	1.00	56.91	ESS	ATOM	7054	O	PHE	26	180.080	125.535	1.616	1.00	45.14	ESS
ATOM	7002	CB	GLN	20	187.199	120.114	-6.766	1.00	40.84	ESS	ATOM	7055	N	ARG	27	180.947	124.330	1.193	1.00	50.02	ESS
ATOM	7003	CG	GLN	20	186.526	118.817	-6.283	1.00	40.84	ESS	ATOM	7056	CA	ARG	27	179.119	125.414	1.323	1.00	50.02	ESS
ATOM	7004	CD	GLN	20	187.494	117.867	-5.554	1.00	40.84	ESS	ATOM	7057	CB	ARG	27	178.812	126.027	-0.041	1.00	98.79	ESS
ATOM	7005	OE1	GLN	20	187.456	116.638	-5.734	1.00	40.84	ESS	ATOM	7058	CG	ARG	27	177.812	127.154	0.023	1.00	98.79	ESS
ATOM	7006	NE2	GLN	20	188.356	118.435	-4.728	1.00	40.84	ESS	ATOM	7059	CD	ARG	27	177.815	127.950	-1.254	1.00	98.79	ESS
ATOM	7007	C	GLN	20	188.673	121.990	-5.893	1.00	56.91	ESS	ATOM	7060	NE	ARG	27	179.147	128.478	-1.521	1.00	98.79	ESS
ATOM	7008	O	GLN	20	188.641	123.211	-5.868	1.00	56.91	ESS	ATOM	7061	CZ	ARG	27	179.499	129.117	-2.637	1.00	98.79	ESS
ATOM	7009	N	ALA	21	189.809	121.310	-6.052	1.00	82.85	ESS	ATOM	7062	NH1	ARG	27	180.758	129.537	-2.798	1.00	98.79	ESS
ATOM	7010	CA	ALA	21	191.110	121.966	-6.285	1.00	82.85	ESS	ATOM	7063	NH2	ARG	27	180.758	129.537	-2.798	1.00	98.79	ESS
ATOM	7011	CB	ALA	21	190.920	123.349	-6.904	1.00	53.90	ESS	ATOM	7064	C	ARG	27	177.857	124.792	1.917	1.00	50.02	ESS
ATOM	7012	C	ALA	21	191.957	122.036	-5.043	1.00	82.85	ESS	ATOM	7065	O	ARG	27	177.670	123.574	1.850	1.00	50.02	ESS
ATOM	7013	O	ALA	21	191.543	122.731	-4.075	1.00	82.85	ESS	ATOM	7066	N	PHE	28	176.995	125.616	2.508	1.00	55.71	ESS
ATOM	7014	N	GLY	22	193.167	121.545	-5.083	1.00	41.94	ESS	ATOM	7067	CA	PHE	28	175.774	125.089	3.105	1.00	55.71	ESS

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ATOM	7068	CB	PHE	28	175.798	125.257	4.621	1.00	34.81	ES5	ATOM	7121	CB	ASP	36	151.606	134.793	10.584	1.00	67.63	ES
ATOM	7069	CG	PHE	28	176.850	124.426	5.299	1.00	34.81	ES5	ATOM	7122	CG	ASP	36	150.560	134.812	9.485	1.00	67.63	ES
ATOM	7070	CD1	PHE	28	178.196	124.767	5.199	1.00	34.81	ES5	ATOM	7123	OD1	ASP	36	150.107	133.724	9.062	1.00	67.63	ES
ATOM	7071	CD2	PHE	28	176.501	123.283	6.005	1.00	34.81	ES5	ATOM	7124	OD2	ASP	36	150.184	135.925	9.049	1.00	67.63	ES
ATOM	7072	CE1	PHE	28	179.165	123.974	5.794	1.00	34.81	ES5	ATOM	7125	C	ASP	36	151.021	132.465	11.204	1.00	72.96	ES
ATOM	7073	CE2	PHE	28	177.466	122.494	6.598	1.00	34.81	ES5	ATOM	7126	O	ASP	36	150.132	132.816	11.975	1.00	72.96	ES
ATOM	7074	C2	PHE	28	178.796	122.836	6.494	1.00	34.81	ES5	ATOM	7127	N	ARG	37	151.041	131.275	10.627	1.00	61.53	ES
ATOM	7075	C	PHE	28	174.502	125.680	2.566	1.00	55.71	ES5	ATOM	7128	CA	ARG	37	150.008	130.299	10.885	1.00	61.53	ES
ATOM	7076	O	PHE	28	174.422	126.870	2.287	1.00	55.71	ES5	ATOM	7129	CB	ARG	37	150.139	129.792	12.314	1.00	52.11	ES
ATOM	7077	N	GLY	29	173.505	124.814	2.431	1.00	48.90	ES5	ATOM	7130	CG	ARG	37	151.326	128.870	12.497	1.00	52.11	ES
ATOM	7078	CA	GLY	29	172.207	125.220	1.925	1.00	48.90	ES5	ATOM	7131	CD	ARG	37	151.562	128.578	13.952	1.00	52.11	ES
ATOM	7079	C	GLY	29	171.118	124.958	2.943	1.00	48.90	ES5	ATOM	7132	NE	ARG	37	152.616	127.593	14.166	1.00	52.11	ES
ATOM	7080	O	GLY	29	171.083	123.901	3.576	1.00	48.90	ES5	ATOM	7133	C2	ARG	37	152.561	126.333	13.748	1.00	52.11	ES
ATOM	7081	N	ALA	30	170.224	125.930	3.089	1.00	29.84	ES5	ATOM	7134	NH1	ARG	37	151.500	125.892	13.079	1.00	52.11	ES
ATOM	7082	CA	ALA	30	169.141	125.832	4.047	1.00	29.84	ES5	ATOM	7135	NH2	ARG	37	153.557	125.503	14.024	1.00	52.11	ES
ATOM	7083	CB	ALA	30	169.500	126.617	5.289	1.00	29.81	ES5	ATOM	7136	C	ARG	37	148.635	130.898	10.651	1.00	61.53	ES
ATOM	7084	C	ALA	30	167.832	126.345	3.468	1.00	29.84	ES5	ATOM	7137	O	ARG	37	147.648	130.461	11.240	1.00	61.53	ES
ATOM	7085	O	ALA	30	167.785	127.411	2.856	1.00	29.84	ES5	ATOM	7138	N	GLN	38	148.571	131.894	9.773	1.00	53.41	ES
ATOM	7086	N	LEU	31	166.778	125.554	3.653	1.00	58.43	ES5	ATOM	7139	CA	GLN	38	147.301	132.528	9.479	1.00	53.41	ES
ATOM	7087	CA	LEU	31	165.433	125.901	3.203	1.00	58.43	ES5	ATOM	7140	CB	GLN	38	147.054	133.653	10.467	1.00	85.01	ES
ATOM	7088	CB	LEU	31	164.706	124.696	2.618	1.00	27.12	ES5	ATOM	7141	CG	GLN	38	146.750	133.152	11.842	1.00	85.01	ES
ATOM	7089	CG	LEU	31	164.322	124.744	1.145	1.00	27.12	ES5	ATOM	7142	CD	GLN	38	146.819	134.244	12.856	1.00	85.01	ES
ATOM	7090	CD1	LEU	31	163.312	123.638	0.868	1.00	27.12	ES5	ATOM	7143	OE1	GLN	38	146.199	135.292	12.689	1.00	85.01	ES
ATOM	7091	CD2	LEU	31	163.724	126.107	0.822	1.00	27.12	ES5	ATOM	7144	NE2	GLN	38	147.580	134.015	13.924	1.00	85.01	ES
ATOM	7092	C	LEU	31	164.708	126.319	4.460	1.00	58.43	ES5	ATOM	7145	C	GLN	38	147.102	133.062	8.074	1.00	53.41	ES
ATOM	7093	O	LEU	31	164.667	125.574	5.440	1.00	58.43	ES5	ATOM	7146	O	GLN	38	146.516	134.125	7.914	1.00	53.41	ES
ATOM	7094	N	VAL	32	164.122	127.504	4.431	1.00	38.96	ES5	ATOM	7147	N	GLY	39	147.575	132.341	7.061	1.00	45.89	ES
ATOM	7095	CA	VAL	32	163.433	128.002	5.596	1.00	38.96	ES5	ATOM	7148	CA	GLY	39	147.379	132.787	5.689	1.00	45.89	ES
ATOM	7096	CB	VAL	32	164.204	129.186	6.158	1.00	35.41	ES5	ATOM	7149	C	GLY	39	148.575	133.486	5.082	1.00	45.89	ES
ATOM	7097	CG1	VAL	32	163.387	129.913	7.193	1.00	35.41	ES5	ATOM	7150	O	GLY	39	149.664	133.549	5.844	1.00	49.31	ES
ATOM	7098	CG2	VAL	32	165.499	128.678	6.762	1.00	35.41	ES5	ATOM	7151	N	ARG	40	150.895	134.184	5.395	1.00	49.31	ES
ATOM	7099	C	VAL	32	162.011	128.409	5.300	1.00	38.96	ES5	ATOM	7152	CA	ARG	40	151.193	135.392	6.276	1.00	85.86	ES
ATOM	7100	O	VAL	32	161.742	129.087	4.304	1.00	38.96	ES5	ATOM	7153	CB	ARG	40	150.150	136.486	6.185	1.00	85.86	ES
ATOM	7101	N	VAL	33	161.087	127.969	6.146	1.00	45.75	ES5	ATOM	7154	CG	ARG	40	150.550	137.522	5.165	1.00	85.86	ES
ATOM	7102	CA	VAL	33	159.690	128.351	5.969	1.00	45.75	ES5	ATOM	7155	CD	ARG	40	151.725	138.259	5.620	1.00	85.86	ES
ATOM	7103	CB	VAL	33	158.716	127.181	6.101	1.00	51.18	ES5	ATOM	7156	NE	ARG	40	152.495	139.010	4.836	1.00	85.86	ES
ATOM	7104	CG1	VAL	33	157.962	127.010	4.807	1.00	51.18	ES5	ATOM	7157	C2	ARG	40	152.216	139.128	3.538	1.00	85.86	ES
ATOM	7105	CG2	VAL	33	159.457	125.922	6.472	1.00	51.18	ES5	ATOM	7158	NH1	ARG	40	152.052	133.816	5.481	1.00	85.86	ES
ATOM	7106	C	VAL	33	159.378	129.337	7.065	1.00	45.75	ES5	ATOM	7159	NH2	ARG	40	153.548	139.643	5.349	1.00	85.86	ES
ATOM	7107	O	VAL	33	159.731	129.138	8.222	1.00	45.75	ES5	ATOM	7160	C	ARG	40	152.052	133.184	5.481	1.00	49.31	ES
ATOM	7108	N	VAL	34	158.720	130.413	6.689	1.00	47.00	ES5	ATOM	7161	O	ARG	40	152.477	132.816	6.579	1.00	49.31	ES
ATOM	7109	CA	VAL	34	158.389	131.430	7.649	1.00	47.00	ES5	ATOM	7162	N	VAL	41	152.551	132.731	4.331	1.00	44.85	ES
ATOM	7110	CB	VAL	34	159.245	132.638	7.403	1.00	58.48	ES5	ATOM	7163	CA	VAL	41	153.674	131.492	4.319	1.00	44.85	ES
ATOM	7111	CG1	VAL	34	158.859	133.784	8.351	1.00	58.48	ES5	ATOM	7164	CB	VAL	41	153.294	130.421	3.755	1.00	55.21	ES
ATOM	7112	CG2	VAL	34	160.700	132.330	7.585	1.00	58.48	ES5	ATOM	7165	CG1	VAL	41	154.121	129.355	4.425	1.00	55.21	ES
ATOM	7113	C	VAL	34	156.926	131.747	7.463	1.00	47.00	ES5	ATOM	7166	CG2	VAL	41	154.836	130.167	3.944	1.00	55.21	ES
ATOM	7114	O	VAL	34	156.510	132.112	6.362	1.00	47.00	ES5	ATOM	7167	C	VAL	41	154.818	132.934	3.463	1.00	44.85	ES
ATOM	7115	N	GLY	35	156.145	131.592	8.532	1.00	61.08	ES5	ATOM	7168	O	VAL	41	154.611	132.999	2.461	1.00	44.85	ES
ATOM	7116	CA	GLY	35	154.720	131.871	8.448	1.00	61.08	ES5	ATOM	7169	N	GLY	42	156.030	131.934	3.850	1.00	55.32	ES
ATOM	7117	C	GLY	35	154.112	132.381	9.739	1.00	61.08	ES5	ATOM	7170	CA	GLY	42	157.194	132.367	3.109	1.00	55.32	ES
ATOM	7118	O	GLY	35	154.754	132.324	10.783	1.00	72.96	ES5	ATOM	7171	C	GLY	42	158.221	131.269	2.974	1.00	55.32	ES
ATOM	7119	N	ASP	36	152.881	132.890	9.664	1.00	72.96	ES5	ATOM	7172	O	GLY	42	158.528	130.554	3.942	1.00	55.32	ES
ATOM	7120	CA	ASP	36	152.170	133.397	10.842	1.00	72.96	ES5	ATOM	7173	N	LEU	43	158.753	131.139	1.761	1.00	58.05	ES

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ATOM	7174	CA	LEU	43	159.764	130.132	1.473	1.00	58.05	ES5	ATOM	7227	OE2	GLU	50	181.467	126.938	8.932	1.00135.86	ES5
ATOM	7175	CB	LEU	43	159.317	129.235	0.322	1.00	28.87	ES5	ATOM	7228	C	GLU	50	177.048	128.341	7.607	1.00 59.04	ES5
ATOM	7176	CG	LEU	43	159.703	127.768	0.509	1.00	28.87	ES5	ATOM	7229	O	GLU	50	176.262	129.182	7.179	1.00 59.04	ES5
ATOM	7177	CD1	LEU	43	160.048	127.179	-0.847	1.00	28.87	ES5	ATOM	7230	N	VAL	51	176.656	127.199	8.165	1.00 39.87	ES5
ATOM	7178	CD2	LEU	43	160.870	127.653	1.503	1.00	28.87	ES5	ATOM	7231	CA	VAL	51	175.237	126.867	8.329	1.00 39.87	ES5
ATOM	7179	C	LEU	43	161.078	130.783	1.098	1.00	58.05	ES5	ATOM	7232	CB	VAL	51	175.034	125.739	9.354	1.00 41.60	ES5
ATOM	7180	O	LEU	43	161.123	131.671	0.252	1.00	58.05	ES5	ATOM	7233	CG1	VAL	51	173.585	125.682	9.767	1.00 41.60	ES5
ATOM	7181	N	GLY	44	162.152	130.321	1.715	1.00	36.59	ES5	ATOM	7234	CG2	VAL	51	175.445	124.412	8.760	1.00 41.60	ES5
ATOM	7182	CA	GLY	44	163.459	130.886	1.428	1.00	36.59	ES5	ATOM	7235	C	VAL	51	174.391	128.058	8.789	1.00 39.87	ES5
ATOM	7183	C	GLY	44	164.603	129.879	1.417	1.00	36.59	ES5	ATOM	7236	O	VAL	51	173.435	128.457	8.113	1.00 39.87	ES5
ATOM	7184	O	GLY	44	164.750	129.980	2.314	1.00	36.59	ES5	ATOM	7237	N	PRO	52	174.725	128.632	9.862	1.00 47.61	ES5
ATOM	7185	N	PHE	45	165.436	129.980	0.393	1.00	60.10	ES5	ATOM	7238	CD	PRO	52	173.995	129.773	10.502	1.00 47.61	ES5
ATOM	7186	CA	PHE	45	166.556	129.071	0.260	1.00	60.10	ES5	ATOM	7239	CA	PRO	52	174.869	130.207	11.657	1.00 47.15	ES5
ATOM	7187	CB	PHE	45	166.338	128.194	-0.957	1.00	52.64	ES5	ATOM	7240	CB	PRO	52	174.869	130.207	11.657	1.00 47.15	ES5
ATOM	7188	CG	PHE	45	167.329	127.100	-1.077	1.00	52.64	ES5	ATOM	7241	CG	PRO	52	175.407	128.912	12.149	1.00 47.15	ES5
ATOM	7189	CD1	PHE	45	167.443	126.149	-0.075	1.00	52.64	ES5	ATOM	7242	C	PRO	52	173.859	130.849	9.452	1.00 47.61	ES5
ATOM	7190	CD2	PHE	45	168.147	127.009	-2.188	1.00	52.64	ES5	ATOM	7243	O	PRO	52	172.756	131.229	9.092	1.00 47.61	ES5
ATOM	7191	CE1	PHE	45	168.359	125.120	-0.178	1.00	52.64	ES5	ATOM	7244	N	LEU	53	174.987	131.326	8.943	1.00 37.92	ES5
ATOM	7192	CE2	PHE	45	169.062	125.983	-2.297	1.00	52.64	ES5	ATOM	7245	CA	LEU	53	174.949	132.365	7.926	1.00 37.92	ES5
ATOM	7193	CZ	PHE	45	169.169	125.035	-1.289	1.00	52.64	ES5	ATOM	7246	CB	LEU	53	176.304	132.464	7.233	1.00 81.05	ES5
ATOM	7194	C	PHE	45	167.865	129.825	0.107	1.00	60.10	ES5	ATOM	7247	CG	LEU	53	177.450	132.807	8.183	1.00 81.05	ES5
ATOM	7195	O	PHE	45	168.179	130.287	-0.989	1.00	60.10	ES5	ATOM	7248	CD1	LEU	53	178.799	132.673	7.478	1.00 81.05	ES5
ATOM	7196	N	GLY	46	168.634	129.932	1.191	1.00	36.83	ES5	ATOM	7249	CD2	LEU	53	177.250	134.214	8.701	1.00 81.05	ES5
ATOM	7197	CA	GLY	46	169.895	130.656	1.137	1.00	36.83	ES5	ATOM	7250	C	LEU	53	173.859	132.031	6.916	1.00 37.92	ES5
ATOM	7198	C	GLY	46	171.131	129.844	1.469	1.00	36.83	ES5	ATOM	7251	O	LEU	53	173.099	132.912	6.491	1.00 46.51	ES5
ATOM	7199	O	GLY	46	171.102	128.975	2.346	1.00	36.83	ES5	ATOM	7252	N	ALA	54	173.775	130.747	6.565	1.00 46.51	ES5
ATOM	7200	N	LYS	47	172.230	130.127	0.771	1.00	51.69	ES5	ATOM	7253	CA	ALA	54	172.800	130.258	5.594	1.00 46.51	ES5
ATOM	7201	CA	LYS	47	173.473	129.402	1.005	1.00	47.60	ES5	ATOM	7254	CB	ALA	54	173.055	128.806	5.279	1.00 46.51	ES5
ATOM	7202	CB	LYS	47	173.968	128.731	-0.267	1.00	47.60	ES5	ATOM	7255	C	ALA	54	171.386	130.418	6.086	1.00 46.51	ES5
ATOM	7203	CG	LYS	47	172.926	127.982	-1.023	1.00	47.60	ES5	ATOM	7256	O	ALA	54	170.591	131.135	5.479	1.00 46.51	ES5
ATOM	7204	CD	LYS	47	172.032	128.949	-1.709	1.00	47.60	ES5	ATOM	7257	N	VAL	55	171.076	129.727	7.178	1.00 35.52	ES5
ATOM	7205	CE	LYS	47	171.224	128.271	-2.757	1.00	47.60	ES5	ATOM	7258	CA	VAL	55	169.745	129.782	7.781	1.00 35.52	ES5
ATOM	7206	NZ	LYS	47	170.622	129.305	-3.650	1.00	47.60	ES5	ATOM	7259	CB	VAL	55	169.743	129.107	9.143	1.00 44.80	ES5
ATOM	7207	C	LYS	47	174.565	130.320	1.507	1.00	51.69	ES5	ATOM	7260	CG1	VAL	55	168.326	128.987	9.646	1.00 44.80	ES5
ATOM	7208	O	LYS	47	174.521	131.532	1.296	1.00	51.69	ES5	ATOM	7261	CG2	VAL	55	170.406	127.741	9.031	1.00 44.80	ES5
ATOM	7209	N	ALA	48	175.558	129.727	2.159	1.00	40.93	ES5	ATOM	7262	C	VAL	55	168.132	131.222	7.956	1.00 35.52	ES5
ATOM	7210	CA	ALA	48	176.675	130.483	2.701	1.00	40.93	ES5	ATOM	7263	O	VAL	55	170.160	132.073	8.476	1.00 37.57	ES5
ATOM	7211	CB	ALA	48	176.187	131.432	3.789	1.00	55.55	ES5	ATOM	7264	N	GLN	56	169.863	133.484	8.681	1.00 37.57	ES5
ATOM	7212	C	ALA	48	177.682	129.503	3.271	1.00	40.93	ES5	ATOM	7265	CA	GLN	56	171.107	134.245	9.129	1.00119.80	ES5
ATOM	7213	O	ALA	48	177.362	128.326	3.472	1.00	40.93	ES5	ATOM	7266	CB	GLN	56	171.589	133.903	10.524	1.00119.80	ES5
ATOM	7214	N	PRO	49	178.924	129.964	3.498	1.00	48.82	ES5	ATOM	7267	CG	GLN	56	172.936	134.534	10.835	1.00119.80	ES5
ATOM	7215	CD	PRO	49	179.451	131.221	2.949	1.00	48.82	ES5	ATOM	7268	CD	GLN	56	173.136	135.732	10.617	1.00119.80	ES5
ATOM	7216	CA	PRO	49	180.015	129.150	4.047	1.00	36.64	ES5	ATOM	7269	OE1	GLN	56	173.866	133.732	11.348	1.00119.80	ES5
ATOM	7217	CB	PRO	49	181.184	130.129	4.140	1.00	48.82	ES5	ATOM	7270	NE2	GLN	56	173.866	133.732	11.348	1.00119.80	ES5
ATOM	7218	CG	PRO	49	180.565	131.498	3.896	1.00	48.82	ES5	ATOM	7271	C	GLN	56	169.423	134.009	7.342	1.00 37.57	ES5
ATOM	7219	C	PRO	49	179.695	128.484	5.373	1.00	36.64	ES5	ATOM	7272	O	GLN	56	168.298	134.464	7.175	1.00 37.57	ES5
ATOM	7220	O	PRO	49	180.132	127.368	5.623	1.00	36.64	ES5	ATOM	7273	N	LYS	57	170.317	133.917	6.370	1.00 49.58	ES5
ATOM	7221	N	GLU	50	178.923	129.153	6.222	1.00	59.04	ES5	ATOM	7274	CA	LYS	57	170.016	134.393	5.032	1.00 49.58	ES5
ATOM	7222	CA	GLU	50	178.549	128.567	7.504	1.00	59.04	ES5	ATOM	7275	CB	LYS	57	171.187	134.101	4.095	1.00 63.20	ES5
ATOM	7223	CB	GLU	50	179.020	129.456	8.654	1.00135.86	ES5	ATOM	7276	CG	LYS	57	171.027	134.726	2.722	1.00 63.20	ES5	
ATOM	7224	CG	GLU	50	180.357	129.036	9.197	1.00135.86	ES5	ATOM	7277	CD	LYS	57	172.207	134.410	1.821	1.00 63.20	ES5	
ATOM	7225	CD	GLU	50	180.444	127.523	9.347	1.00135.86	ES5	ATOM	7278	CE	LYS	57	173.514	134.920	2.412	1.00 63.20	ES5	
ATOM	7226	OE1	GLU	50	179.487	126.919	9.880	1.00135.86	ES5	ATOM	7279	NZ	LYS	57	174.690	134.448	1.634	1.00 63.20	ES5	

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ATOM	7280	C	LYS	57	168.747	133.744	4.498	1.00	49.58	ESS	ATOM	7333	CB	ARG	64	161.866	139.280	0.608	1.00126.41	ESS
ATOM	7281	O	LYS	57	167.934	134.398	3.861	1.00	49.58	ESS	ATOM	7334	CG	ARG	64	162.814	139.555	1.773	1.00126.41	ESS
ATOM	7282	N	ALA	58	168.571	132.459	4.768	1.00	38.26	ESS	ATOM	7335	CD	ARG	64	163.983	140.414	1.342	1.00126.41	ESS
ATOM	7283	CA	ALA	58	167.390	131.747	4.290	1.00	38.26	ESS	ATOM	7336	NE	ARG	64	163.802	141.811	1.725	1.00126.41	ESS
ATOM	7284	CB	ALA	58	167.458	130.283	4.722	1.00	78.27	ESS	ATOM	7337	CZ	ARG	64	164.484	142.822	1.198	1.00126.41	ESS
ATOM	7285	C	ALA	58	166.087	132.395	4.783	1.00	38.26	ESS	ATOM	7338	NH1	ARG	64	165.392	142.591	0.256	1.00126.41	ESS
ATOM	7286	O	ALA	58	165.199	132.715	3.980	1.00	38.26	ESS	ATOM	7339	NH2	ARG	64	164.266	144.062	1.619	1.00126.41	ESS
ATOM	7287	N	GLY	59	165.987	132.584	6.100	1.00	46.50	ESS	ATOM	7340	C	ARG	64	160.247	137.431	0.069	1.0079.93	ESS
ATOM	7288	CA	GLY	59	164.806	133.198	6.681	1.00	46.50	ESS	ATOM	7341	O	ARG	64	161.138	136.682	-0.337	1.0079.93	ESS
ATOM	7289	C	GLY	59	164.593	134.580	6.092	1.00	46.50	ESS	ATOM	7342	N	ASN	65	158.965	137.303	-0.271	1.0085.54	ESS
ATOM	7290	O	GLY	59	163.475	134.978	5.748	1.00	46.50	ESS	ATOM	7343	CA	ASN	65	158.456	136.242	-1.149	1.0085.54	ESS
ATOM	7291	N	TYR	60	165.682	135.323	5.978	1.00	36.84	ESS	ATOM	7344	CB	ASN	65	159.598	135.325	-1.633	1.0085.93	ESS
ATOM	7292	CA	TYR	60	165.623	136.651	5.407	1.00	36.84	ESS	ATOM	7345	CG	ASN	65	159.112	133.985	-2.152	1.0085.93	ESS
ATOM	7293	CB	TYR	60	167.040	137.201	5.204	1.00	65.33	ESS	ATOM	7346	OD1	ASN	65	159.216	132.966	-1.460	1.0085.93	ESS
ATOM	7294	CG	TYR	60	167.059	138.582	4.604	1.00	65.33	ESS	ATOM	7347	ND2	ASN	65	158.580	133.977	-3.374	1.0085.93	ESS
ATOM	7295	CD1	TYR	60	166.860	139.707	5.401	1.00	65.33	ESS	ATOM	7348	C	ASN	65	157.432	135.450	-0.338	1.0085.54	ESS
ATOM	7296	CE1	TYR	60	166.766	140.977	4.845	1.00	65.33	ESS	ATOM	7349	O	ASN	65	157.608	134.264	-0.051	1.0085.54	ESS
ATOM	7297	CD2	TYR	60	167.176	138.762	3.227	1.00	65.33	ESS	ATOM	7350	N	MET	66	155.365	136.139	0.050	1.0063.22	ESS
ATOM	7298	CE2	TYR	60	167.085	140.026	2.657	1.00	65.33	ESS	ATOM	7351	CA	MET	66	155.306	135.529	0.837	1.0063.22	ESS
ATOM	7299	CZ	TYR	60	166.874	141.130	3.472	1.00	65.33	ESS	ATOM	7352	CB	MET	66	154.849	136.462	1.952	1.0052.62	ESS
ATOM	7300	OH	TYR	60	166.736	142.383	2.922	1.00	65.33	ESS	ATOM	7353	CG	MET	66	155.940	137.034	2.805	1.0052.62	ESS
ATOM	7301	C	TYR	60	164.933	136.519	4.057	1.00	36.84	ESS	ATOM	7354	SD	MET	66	156.251	136.057	4.277	1.0052.62	ESS
ATOM	7302	O	TYR	60	163.991	137.248	3.752	1.00	36.84	ESS	ATOM	7355	CE	MET	66	154.122	135.283	-0.068	1.0052.62	ESS
ATOM	7303	N	TYR	61	165.424	135.570	3.259	1.00	52.27	ESS	ATOM	7356	C	MET	66	154.573	135.808	-0.068	1.0052.62	ESS
ATOM	7304	CA	TYR	61	164.911	135.311	1.919	1.00	52.27	ESS	ATOM	7357	O	MET	66	153.994	135.902	-1.128	1.0063.22	ESS
ATOM	7305	CB	TYR	61	165.711	134.176	1.266	1.00	91.75	ESS	ATOM	7358	N	VAL	67	153.253	134.380	0.370	1.0045.64	ESS
ATOM	7306	CG	TYR	61	166.989	134.634	0.589	1.00	91.75	ESS	ATOM	7359	CA	VAL	67	152.049	134.060	-0.368	1.0045.64	ESS
ATOM	7307	CD1	TYR	61	167.846	135.532	1.214	1.00	91.75	ESS	ATOM	7360	CB	VAL	67	152.067	132.614	-0.888	1.0061.48	ESS
ATOM	7308	CE1	TYR	61	169.003	135.984	0.589	1.00	91.75	ESS	ATOM	7361	CG1	VAL	67	150.789	132.319	-1.644	1.0061.48	ESS
ATOM	7309	CD2	TYR	61	167.328	134.188	-0.690	1.00	91.75	ESS	ATOM	7362	CG2	VAL	67	153.254	132.399	-1.783	1.0061.48	ESS
ATOM	7310	CE2	TYR	61	168.487	134.635	-1.326	1.00	91.75	ESS	ATOM	7363	C	VAL	67	150.915	134.197	0.629	1.0045.64	ESS
ATOM	7311	CZ	TYR	61	169.318	135.537	-0.675	1.00	91.75	ESS	ATOM	7364	O	VAL	67	151.095	133.908	1.824	1.0045.64	ESS
ATOM	7312	OH	TYR	61	170.453	136.013	-1.285	1.00	91.75	ESS	ATOM	7365	N	GLU	68	149.761	134.654	0.146	1.0048.89	ESS
ATOM	7313	C	TYR	61	163.428	134.979	1.923	1.00	52.27	ESS	ATOM	7366	CA	GLU	68	148.581	134.795	0.988	1.0048.89	ESS
ATOM	7314	O	TYR	61	162.691	135.393	1.027	1.00	52.27	ESS	ATOM	7367	CB	GLU	68	147.839	136.101	0.683	1.00147.37	ESS
ATOM	7315	N	ALA	62	162.992	134.238	2.937	1.00	52.97	ESS	ATOM	7368	CG	GLU	68	148.253	137.282	1.543	1.00147.37	ESS
ATOM	7316	CA	ALA	62	161.590	133.862	3.059	1.00	52.97	ESS	ATOM	7369	CD	GLU	68	149.688	137.697	1.312	1.00147.37	ESS
ATOM	7317	CB	ALA	62	161.411	132.914	4.229	1.00	49.83	ESS	ATOM	7370	OE1	GLU	68	150.020	138.066	0.166	1.00147.37	ESS
ATOM	7318	C	ALA	62	160.684	135.088	3.223	1.00	52.97	ESS	ATOM	7371	OE2	GLU	68	150.483	137.657	2.274	1.00147.37	ESS
ATOM	7319	O	ALA	62	159.766	135.281	2.417	1.00	52.97	ESS	ATOM	7372	C	GLU	68	147.653	133.612	0.726	1.0048.89	ESS
ATOM	7320	N	ARG	63	160.933	135.902	4.257	1.00	50.43	ESS	ATOM	7373	O	GLU	68	146.823	133.661	-0.181	1.0048.89	ESS
ATOM	7321	CA	ARG	63	160.138	137.113	4.500	1.00	50.43	ESS	ATOM	7374	N	VAL	69	147.796	132.542	1.505	1.0045.63	ESS
ATOM	7322	CB	ARG	63	160.867	138.085	5.414	1.00	74.29	ESS	ATOM	7375	CA	VAL	69	146.940	131.374	1.324	1.0045.63	ESS
ATOM	7323	CG	ARG	63	160.527	137.949	6.873	1.00	74.29	ESS	ATOM	7376	CB	VAL	69	147.342	130.197	2.241	1.0056.89	ESS
ATOM	7324	CD	ARG	63	161.391	136.919	7.534	1.00	74.29	ESS	ATOM	7377	CG1	VAL	69	146.409	129.016	1.984	1.0056.89	ESS
ATOM	7325	NE	ARG	63	161.085	136.814	8.953	1.00	74.29	ESS	ATOM	7378	CG2	VAL	69	148.797	129.797	1.999	1.0056.89	ESS
ATOM	7326	CZ	ARG	63	161.831	136.145	9.826	1.00	74.29	ESS	ATOM	7379	O	VAL	69	145.519	131.749	1.694	1.0045.63	ESS
ATOM	7327	NH1	ARG	63	162.933	135.522	9.418	1.00	74.29	ESS	ATOM	7380	C	VAL	69	145.278	132.240	2.790	1.0045.63	ESS
ATOM	7328	NH2	ARG	63	161.481	136.098	11.107	1.00	74.29	ESS	ATOM	7381	N	PRO	70	144.559	131.536	0.784	1.0042.76	ESS
ATOM	7329	C	ARG	63	159.813	137.843	3.206	1.00	50.43	ESS	ATOM	7382	CD	PRO	70	144.686	131.143	-0.628	1.0057.19	ESS
ATOM	7330	O	ARG	63	158.707	138.349	3.024	1.00	50.43	ESS	ATOM	7383	CA	PRO	70	143.174	131.873	1.095	1.0042.76	ESS
ATOM	7331	N	ARG	64	160.787	137.912	2.311	1.00	79.93	ESS	ATOM	7384	CB	PRO	70	142.540	132.003	-0.279	1.0057.19	ESS
ATOM	7332	CA	ARG	64	160.582	138.567	1.030	1.00	79.93	ESS	ATOM	7385	CG	PRO	70	143.227	130.934	-1.031	1.0057.19	ESS

ATOM	7386	C	PRO	70	142.526	130.768	1.916	1.00	42.76	ESS	ATOM	7439	N	HIS	78	140.023	124.598	-2.694	1.00	48.14	ES
ATOM	7387	O	PRO	70	141.617	130.091	1.438	1.00	42.76	ESS	ATOM	7440	CA	HIS	78	139.792	123.505	-3.639	1.00	48.14	ES
ATOM	7388	N	LEU	71	142.990	130.587	3.150	1.00	55.23	ESS	ATOM	7441	CB	HIS	78	139.339	124.073	-4.985	1.00	48.70	ES
ATOM	7389	CA	LEU	71	142.440	129.557	4.021	1.00	55.23	ESS	ATOM	7442	CG	HIS	78	140.351	124.966	-5.617	1.00	48.70	ES
ATOM	7390	CG	LEU	71	143.072	129.653	5.411	1.00	66.01	ESS	ATOM	7443	CD2	HIS	78	140.427	126.315	-5.687	1.00	48.70	ES
ATOM	7391	CB	LEU	71	144.529	129.171	6.473	1.00	66.01	ESS	ATOM	7444	ND1	HIS	78	141.517	124.485	-6.173	1.00	48.70	ES
ATOM	7392	CD1	LEU	71	145.147	129.538	6.814	1.00	66.01	ESS	ATOM	7445	CE1	HIS	78	142.272	125.502	-6.550	1.00	48.70	ES
ATOM	7393	CD2	LEU	71	144.590	127.663	5.255	1.00	66.01	ESS	ATOM	7446	NE2	HIS	78	141.635	126.624	-6.265	1.00	48.70	ES
ATOM	7394	C	LEU	71	140.916	129.635	4.117	1.00	55.23	ESS	ATOM	7447	C	HIS	78	141.071	122.700	-3.814	1.00	48.14	ES
ATOM	7395	O	LEU	71	140.324	130.708	4.029	1.00	55.23	ESS	ATOM	7448	N	HIS	79	142.043	122.924	-3.102	1.00	48.14	ES
ATOM	7396	N	GLN	72	140.289	128.476	4.266	1.00	50.25	ESS	ATOM	7449	CA	GLU	79	141.076	121.769	-4.762	1.00	51.94	ES
ATOM	7397	CA	GLN	72	138.840	128.367	4.370	1.00	50.25	ESS	ATOM	7450	CB	GLU	79	142.254	120.940	-5.002	1.00	51.94	ES
ATOM	7398	CB	GLN	72	138.231	127.793	3.097	1.00	62.88	ESS	ATOM	7451	CG	GLU	79	141.853	119.486	-5.276	1.00	77.88	ES
ATOM	7399	CG	GLN	72	137.908	128.789	2.029	1.00	62.88	ESS	ATOM	7452	CD	GLU	79	140.407	119.143	-4.951	1.00	77.88	ES
ATOM	7400	CD	GLN	72	136.847	128.246	1.090	1.00	62.88	ESS	ATOM	7453	OE1	GLU	79	139.409	119.790	-5.907	1.00	77.88	ES
ATOM	7401	OE1	GLN	72	136.219	127.225	1.389	1.00	62.88	ESS	ATOM	7454	OE2	GLU	79	139.452	119.481	-7.119	1.00	77.88	ES
ATOM	7402	NE2	GLN	72	136.626	128.928	-0.043	1.00	62.88	ESS	ATOM	7455	C	GLU	79	138.582	120.608	-5.443	1.00	77.88	ES
ATOM	7403	C	GLN	72	138.494	127.427	5.498	1.00	50.25	ESS	ATOM	7456	CA	GLU	79	143.062	121.444	-6.183	1.00	51.94	ES
ATOM	7404	O	GLN	72	138.320	126.232	5.286	1.00	50.25	ESS	ATOM	7457	O	GLU	79	142.494	121.889	-7.178	1.00	51.94	ES
ATOM	7405	N	ASN	73	138.406	127.959	6.704	1.00	65.89	ESS	ATOM	7458	N	ILE	80	144.386	121.778	-7.142	1.00	49.46	ES
ATOM	7406	CA	ASN	73	138.052	127.127	7.836	1.00	65.89	ESS	ATOM	7459	CA	ILE	80	145.284	121.398	-6.054	1.00	49.46	ES
ATOM	7407	CB	ASN	73	136.667	126.521	7.615	1.00	86.09	ESS	ATOM	7460	CB	ILE	80	146.072	123.101	-6.917	1.00	52.54	ES
ATOM	7408	CG	ASN	73	136.178	125.752	8.814	1.00	86.09	ESS	ATOM	7461	CG2	ILE	80	145.588	124.184	-7.854	1.00	52.54	ES
ATOM	7409	OD1	ASN	73	135.339	124.855	8.690	1.00	86.09	ESS	ATOM	7462	CG1	ILE	80	146.032	123.485	-5.453	1.00	52.54	ES
ATOM	7410	ND2	ASN	73	136.692	126.101	9.995	1.00	86.09	ESS	ATOM	7463	CD1	ILE	80	146.816	122.547	-4.619	1.00	52.54	ES
ATOM	7411	C	ASN	73	139.071	126.015	8.042	1.00	65.89	ESS	ATOM	7464	C	ILE	80	146.330	120.696	-7.198	1.00	49.46	ES
ATOM	7412	O	ASN	73	138.725	124.836	8.046	1.00	65.89	ESS	ATOM	7465	O	ILE	80	146.443	119.878	-6.280	1.00	49.46	ES
ATOM	7413	N	GLY	74	140.331	126.400	8.203	1.00	51.40	ESS	ATOM	7466	N	GLU	81	147.086	120.704	-8.290	1.00	45.01	ES
ATOM	7414	CA	GLY	74	141.384	125.424	8.431	1.00	51.40	ESS	ATOM	7467	CA	GLU	81	148.180	119.780	-8.514	1.00	45.01	ES
ATOM	7415	C	GLY	74	141.884	124.658	7.222	1.00	51.40	ESS	ATOM	7468	CB	GLU	81	147.761	118.630	-9.430	1.00	52.10	ES
ATOM	7416	O	GLY	74	142.943	124.043	7.286	1.00	51.40	ESS	ATOM	7469	CG	GLU	81	146.822	117.621	-8.790	1.00	52.10	ES
ATOM	7417	N	THR	75	141.136	124.689	6.123	1.00	40.25	ESS	ATOM	7470	CD	GLU	81	146.536	116.430	-9.695	1.00	52.10	ES
ATOM	7418	CA	THR	75	141.548	123.968	4.929	1.00	40.25	ESS	ATOM	7471	OE1	GLU	81	147.503	115.782	-10.151	1.00	52.10	ES
ATOM	7419	CB	THR	75	140.577	122.811	4.602	1.00	40.04	ESS	ATOM	7472	OE2	GLU	81	145.347	116.140	-9.945	1.00	52.10	ES
ATOM	7420	OG1	THR	75	141.250	121.826	3.803	1.00	40.04	ESS	ATOM	7473	C	GLU	81	149.167	120.665	-9.224	1.00	45.01	ES
ATOM	7421	CG2	THR	75	139.364	123.330	3.852	1.00	40.04	ESS	ATOM	7474	O	GLU	81	148.813	121.300	-10.204	1.00	45.01	ES
ATOM	7422	C	THR	75	141.667	124.881	3.721	1.00	40.25	ESS	ATOM	7475	N	VAL	82	150.392	120.742	-8.724	1.00	47.36	ES
ATOM	7423	O	THR	75	141.678	126.094	3.843	1.00	40.25	ESS	ATOM	7476	CA	VAL	82	151.394	121.576	-9.373	1.00	47.36	ES
ATOM	7424	N	ILE	76	141.736	124.280	2.549	1.00	53.84	ESS	ATOM	7477	CB	VAL	82	151.762	122.805	-8.527	1.00	44.79	ES
ATOM	7425	CA	ILE	76	141.911	125.023	1.326	1.00	53.84	ESS	ATOM	7478	CG1	VAL	82	153.140	123.305	-8.923	1.00	44.79	ES
ATOM	7426	CB	ILE	76	143.161	124.470	0.624	1.00	73.99	ESS	ATOM	7479	CG2	VAL	82	150.730	123.909	-8.734	1.00	44.79	ES
ATOM	7427	CG2	ILE	76	143.187	124.852	-0.827	1.00	73.99	ESS	ATOM	7480	C	VAL	82	152.662	120.812	-9.639	1.00	47.36	ES
ATOM	7428	CD1	ILE	76	144.389	124.966	1.384	1.00	73.99	ESS	ATOM	7481	O	VAL	82	153.139	120.068	-8.783	1.00	47.36	ES
ATOM	7429	CG1	ILE	76	145.689	124.729	0.690	1.00	73.99	ESS	ATOM	7482	N	GLU	83	153.207	121.010	-10.833	1.00	54.18	ES
ATOM	7430	C	ILE	76	140.692	125.035	0.401	1.00	53.84	ESS	ATOM	7483	CA	GLU	83	154.447	120.359	-11.238	1.00	54.18	ES
ATOM	7431	O	ILE	76	139.982	124.034	0.270	1.00	53.84	ESS	ATOM	7484	CB	GLU	83	154.288	119.698	-12.611	1.00	54.18	ES
ATOM	7432	N	PRO	77	140.440	126.179	-0.264	1.00	39.58	ESS	ATOM	7485	CG	GLU	83	153.445	118.438	-12.633	1.00	96.14	ES
ATOM	7433	CD	PRO	77	141.320	127.354	-0.289	1.00	36.06	ESS	ATOM	7486	CD1	GLU	83	153.403	117.782	-14.015	1.00	96.14	ES
ATOM	7434	CA	PRO	77	139.314	126.373	-1.183	1.00	39.58	ESS	ATOM	7487	OE1	GLU	83	154.484	117.533	-14.597	1.00	96.14	ES
ATOM	7435	CB	PRO	77	139.653	127.685	-1.892	1.00	36.06	ESS	ATOM	7488	OE2	GLU	83	152.295	121.501	-14.523	1.00	96.14	ES
ATOM	7436	CG	PRO	77	141.122	127.833	-1.696	1.00	36.06	ESS	ATOM	7489	C	GLU	83	155.555	121.402	-11.326	1.00	54.18	ES
ATOM	7437	C	PRO	77	139.000	125.251	-2.155	1.00	39.58	ESS	ATOM	7490	O	GLU	83	155.482	122.331	-12.127	1.00	54.18	ES
ATOM	7438	O	PRO	77	137.826	124.977	-2.417	1.00	39.58	ESS	ATOM	7491	N	PHE	84	156.570	121.265	-10.489	1.00	33.71	ES

ATOM	7492	CA	PHE	84	157.697	122.184	-10.525	1.00	33.71	ES5	ATOM	7545	CD1	LEU	91	148.611	122.685	-2.051	1.00	38.36	ES
ATOM	7493	CB	PHE	84	157.949	122.861	-9.182	1.00	42.64	ES5	ATOM	7546	CD2	LEU	91	149.267	120.453	-1.053	1.00	38.36	ES
ATOM	7494	CG	PHE	84	159.154	123.753	-9.185	1.00	42.64	ES5	ATOM	7547	C	LEU	91	145.256	119.093	-2.543	1.00	42.00	ES
ATOM	7495	CD1	PHE	84	159.044	125.098	-9.533	1.00	42.64	ES5	ATOM	7548	O	LEU	91	144.648	119.494	-3.537	1.00	42.00	ES
ATOM	7496	CD2	PHE	84	160.408	123.246	-8.885	1.00	42.64	ES5	ATOM	7549	N	LYS	92	144.674	118.459	-1.531	1.00	43.49	ES
ATOM	7497	CE1	PHE	84	160.170	125.930	-9.584	1.00	42.64	ES5	ATOM	7550	CA	LYS	92	143.252	118.171	-1.509	1.00	43.49	ES
ATOM	7498	CE2	PHE	84	161.537	124.069	-8.934	1.00	42.64	ES5	ATOM	7551	CB	LYS	92	143.049	116.667	-1.588	1.00	75.31	ES
ATOM	7499	CZ	PHE	84	161.412	125.416	-9.286	1.00	42.64	ES5	ATOM	7552	CG	LYS	92	141.688	116.247	-2.055	1.00	75.31	ES
ATOM	7500	C	PHE	84	158.854	121.274	-10.807	1.00	33.71	ES5	ATOM	7553	CD	LYS	92	141.689	114.759	-2.325	1.00	75.31	ES
ATOM	7501	O	PHE	84	159.182	120.425	-9.971	1.00	33.71	ES5	ATOM	7554	CE	LYS	92	140.410	114.322	-2.988	1.00	75.31	ES
ATOM	7502	N	GLY	85	159.482	121.448	-11.965	1.00	45.49	ES5	ATOM	7555	NZ	LYS	92	140.446	112.865	-3.237	1.00	75.31	ES
ATOM	7503	CA	GLY	85	160.584	120.582	-12.317	1.00	45.49	ES5	ATOM	7556	C	LYS	92	142.675	118.712	-0.203	1.00	43.49	ES
ATOM	7504	C	GLY	85	159.931	119.250	-12.595	1.00	45.49	ES5	ATOM	7557	O	LYS	92	143.206	118.444	0.889	1.00	43.49	ES
ATOM	7505	O	GLY	85	158.843	119.208	-13.169	1.00	45.49	ES5	ATOM	7558	N	PRO	93	141.583	119.491	-0.294	1.00	44.39	ES
ATOM	7506	N	ALA	86	160.568	118.159	-12.191	1.00	46.30	ES5	ATOM	7559	CD	PRO	93	140.824	119.855	-1.504	1.00	26.01	ES
ATOM	7507	CA	ALA	86	159.981	116.848	-12.419	1.00	46.30	ES5	ATOM	7560	CA	PRO	93	139.925	121.029	0.318	1.00	26.01	ES
ATOM	7508	CB	ALA	86	161.068	115.846	-12.724	1.00	46.30	ES5	ATOM	7561	CB	PRO	93	139.925	117.168	4.376	1.00	52.72	ES
ATOM	7509	C	ALA	86	159.199	116.425	-11.175	1.00	46.30	ES5	ATOM	7562	CG	PRO	93	139.509	120.359	-0.930	1.00	26.01	ES
ATOM	7510	O	ALA	86	158.789	115.265	-11.047	1.00	46.30	ES5	ATOM	7563	C	PRO	93	140.325	118.953	1.721	1.00	44.39	ES
ATOM	7511	N	SER	87	159.002	117.378	-10.265	1.00	38.85	ES5	ATOM	7564	O	PRO	93	139.910	117.937	1.172	1.00	44.39	ES
ATOM	7512	CA	SER	87	158.281	117.146	-9.023	1.00	38.85	ES5	ATOM	7565	N	ALA	94	140.258	119.144	3.032	1.00	52.72	ES
ATOM	7513	CB	SER	87	158.991	117.852	-7.882	1.00	49.83	ES5	ATOM	7566	CA	ALA	94	139.672	118.129	3.895	1.00	52.72	ES
ATOM	7514	OG	SER	87	160.369	117.524	-7.884	1.00	49.83	ES5	ATOM	7567	CB	ALA	94	140.753	117.168	4.376	1.00	20.97	ES
ATOM	7515	C	SER	87	156.853	117.660	-9.130	1.00	38.85	ES5	ATOM	7568	C	ALA	94	138.940	118.724	5.090	1.00	52.72	ES
ATOM	7516	O	SER	87	156.594	118.761	-9.631	1.00	38.85	ES5	ATOM	7569	O	ALA	94	139.233	119.846	5.531	1.00	52.72	ES
ATOM	7517	N	LYS	88	155.923	116.849	-8.651	1.00	37.71	ES5	ATOM	7570	N	ALA	95	137.996	117.948	5.618	1.00	50.12	ES
ATOM	7518	CA	LYS	88	154.516	117.191	-8.692	1.00	37.71	ES5	ATOM	7571	CA	ALA	95	137.201	118.375	6.758	1.00	38.74	ES
ATOM	7519	CB	LYS	88	153.783	116.144	-9.509	1.00	57.74	ES5	ATOM	7572	CB	ALA	95	135.945	117.543	6.839	1.00	50.12	ES
ATOM	7520	CG	LYS	88	152.402	116.513	-9.960	1.00	57.74	ES5	ATOM	7573	C	ALA	95	137.971	118.289	8.068	1.00	50.12	ES
ATOM	7521	CD	LYS	88	151.969	115.492	-11.008	1.00	57.74	ES5	ATOM	7574	O	ALA	95	138.980	117.593	8.159	1.00	50.12	ES
ATOM	7522	CE	LYS	88	150.480	115.539	-11.303	1.00	57.74	ES5	ATOM	7575	N	PRO	96	137.491	119.000	9.105	1.00	45.89	ES
ATOM	7523	NZ	LYS	88	150.014	114.203	-11.795	1.00	57.74	ES5	ATOM	7576	CD	PRO	96	136.273	119.823	9.041	1.00	41.40	ES
ATOM	7524	O	LYS	88	154.017	117.195	-7.257	1.00	37.71	ES5	ATOM	7577	CA	PRO	96	138.073	119.062	10.454	1.00	45.89	ES
ATOM	7525	C	LYS	88	154.524	116.464	-6.417	1.00	37.71	ES5	ATOM	7578	CB	PRO	96	137.017	119.813	11.246	1.00	41.40	ES
ATOM	7526	N	ILE	89	153.043	118.041	-6.955	1.00	43.08	ES5	ATOM	7579	CG	PRO	96	136.449	120.726	10.231	1.00	41.40	ES
ATOM	7527	CA	ILE	89	152.508	118.087	-5.600	1.00	43.08	ES5	ATOM	7580	C	PRO	96	138.346	117.695	11.058	1.00	45.89	ES
ATOM	7528	CB	ILE	89	153.081	119.320	-4.787	1.00	35.03	ES5	ATOM	7581	O	PRO	96	137.580	116.757	10.858	1.00	45.89	ES
ATOM	7529	CG1	ILE	89	152.158	120.507	-4.863	1.00	35.03	ES5	ATOM	7582	N	GLY	97	139.433	117.594	11.808	1.00	64.91	ES
ATOM	7530	CG2	ILE	89	153.337	118.926	-3.323	1.00	35.03	ES5	ATOM	7583	CA	GLY	97	139.771	116.329	12.422	1.00	64.91	ES
ATOM	7531	CD1	ILE	89	152.180	118.281	-2.635	1.00	35.03	ES5	ATOM	7584	C	GLY	97	140.760	115.528	11.594	1.00	64.91	ES
ATOM	7532	C	ILE	89	151.006	118.167	-5.741	1.00	43.08	ES5	ATOM	7585	O	GLY	97	141.482	114.673	12.131	1.00	64.91	ES
ATOM	7533	O	ILE	89	150.488	118.826	-6.637	1.00	43.08	ES5	ATOM	7586	N	THR	98	140.806	115.802	10.290	1.00	46.12	ES
ATOM	7534	N	VAL	90	150.305	117.457	-4.880	1.00	46.95	ES5	ATOM	7587	CA	THR	98	141.713	115.084	9.399	1.00	46.12	ES
ATOM	7535	CA	VAL	90	148.868	117.498	-4.943	1.00	46.95	ES5	ATOM	7588	CB	THR	98	141.516	115.495	7.930	1.00	40.73	ES
ATOM	7536	CB	VAL	90	148.284	116.166	-5.373	1.00	32.06	ES5	ATOM	7589	OG1	THR	98	140.151	115.291	7.540	1.00	40.73	ES
ATOM	7537	CG1	VAL	90	146.787	116.335	-5.594	1.00	32.06	ES5	ATOM	7590	CG2	THR	98	142.414	114.667	7.045	1.00	40.73	ES
ATOM	7538	CG2	VAL	90	148.971	115.677	-6.639	1.00	32.06	ES5	ATOM	7591	C	THR	98	143.174	114.329	9.762	1.00	46.12	ES
ATOM	7539	C	VAL	90	148.276	117.856	-3.597	1.00	46.95	ES5	ATOM	7592	N	THR	98	143.958	114.386	9.880	1.00	47.50	ES
ATOM	7540	O	VAL	90	148.604	117.243	-2.572	1.00	46.95	ES5	ATOM	7593	N	GLY	99	143.528	116.599	9.930	1.00	47.50	ES
ATOM	7541	N	LEU	91	147.404	118.858	-3.611	1.00	42.00	ES5	ATOM	7594	CA	GLY	99	144.896	116.962	10.256	1.00	47.50	ES
ATOM	7542	CA	LEU	91	146.749	119.304	-2.401	1.00	42.00	ES5	ATOM	7595	C	GLY	99	145.695	117.299	9.007	1.00	47.50	ES
ATOM	7543	CB	LEU	91	147.035	120.778	-2.156	1.00	38.36	ES5	ATOM	7596	O	GLY	99	145.153	117.309	7.888	1.00	47.50	ES
ATOM	7544	CG	LEU	91	148.514	121.168	-2.182	1.00	38.36	ES5	ATOM	7597	N	VAL	100	146.982	117.591	9.180	1.00	43.78	ES

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ATOM	7598	CA	VAL	100	147.813	117.891	8.020	1.00	43.78	ESS	ATOM	7651	N	ALA	108	155.424	121.384	6.746	1.00	41.61	ESS
ATOM	7599	CB	VAL	100	148.912	118.888	8.351	1.00	45.64	ESS	ATOM	7652	CA	ALA	108	155.940	122.589	7.373	1.00	41.61	ESS
ATOM	7600	CG1	VAL	100	149.521	119.408	7.072	1.00	45.64	ESS	ATOM	7653	CB	ALA	108	157.449	122.621	7.281	1.00	26.58	ESS
ATOM	7601	CG2	VAL	100	148.352	120.017	9.180	1.00	45.64	ESS	ATOM	7654	C	ALA	108	155.341	123.808	6.688	1.00	41.61	ESS
ATOM	7602	C	VAL	100	148.471	116.597	7.572	1.00	43.78	ESS	ATOM	7655	O	ALA	108	154.820	124.691	7.349	1.00	41.61	ESS
ATOM	7603	O	VAL	100	149.474	116.179	8.145	1.00	43.78	ESS	ATOM	7656	N	ILE	109	155.403	123.853	5.363	1.00	43.49	ESS
ATOM	7604	N	ILE	101	147.898	115.948	6.567	1.00	45.59	ESS	ATOM	7657	CA	ILE	109	154.838	124.973	4.630	1.00	43.49	ESS
ATOM	7605	CA	ILE	101	148.455	114.691	6.077	1.00	45.59	ESS	ATOM	7658	CB	ILE	109	154.992	124.766	3.113	1.00	33.01	ESS
ATOM	7606	CB	ILE	101	147.335	113.703	5.689	1.00	51.66	ESS	ATOM	7659	CG2	ILE	109	154.232	125.844	2.341	1.00	33.01	ESS
ATOM	7607	CG2	ILE	101	147.877	112.618	4.811	1.00	51.66	ESS	ATOM	7660	CG1	ILE	109	156.487	124.762	2.767	1.00	33.01	ESS
ATOM	7608	CG1	ILE	101	146.755	113.064	6.944	1.00	51.66	ESS	ATOM	7661	CD1	ILE	109	156.805	124.470	1.305	1.00	33.01	ESS
ATOM	7609	CD1	ILE	101	146.044	114.029	7.854	1.00	51.66	ESS	ATOM	7662	C	ILE	109	153.366	125.112	4.993	1.00	43.49	ESS
ATOM	7610	C	ILE	101	149.367	114.944	4.878	1.00	45.59	ESS	ATOM	7663	O	ILE	109	152.950	126.135	5.538	1.00	43.49	ESS
ATOM	7611	O	ILE	101	148.912	115.093	3.738	1.00	45.59	ESS	ATOM	7664	N	LEU	110	152.584	124.076	4.708	1.00	42.01	ESS
ATOM	7612	N	ALA	102	150.665	114.979	5.135	1.00	41.79	ESS	ATOM	7665	CA	LEU	110	151.150	124.074	5.018	1.00	42.01	ESS
ATOM	7613	CA	ALA	102	151.590	115.254	4.068	1.00	41.79	ESS	ATOM	7666	CB	LEU	110	150.560	122.690	4.733	1.00	27.23	ESS
ATOM	7614	CB	ALA	102	151.403	116.690	3.623	1.00	33.16	ESS	ATOM	7667	CG	LEU	110	149.459	122.365	3.249	1.00	27.23	ESS
ATOM	7615	C	ALA	102	153.017	115.048	4.538	1.00	41.79	ESS	ATOM	7668	CD1	LEU	110	149.899	120.983	3.099	1.00	27.23	ESS
ATOM	7616	O	ALA	102	153.280	115.003	5.747	1.00	41.79	ESS	ATOM	7669	CD2	LEU	110	149.571	123.354	2.551	1.00	27.23	ESS
ATOM	7617	N	GLY	103	153.934	114.940	3.575	1.00	47.89	ESS	ATOM	7670	C	LEU	110	150.825	124.491	6.467	1.00	42.01	ESS
ATOM	7618	CA	GLY	103	155.334	114.782	3.909	1.00	47.89	ESS	ATOM	7671	O	LEU	110	149.851	125.211	6.719	1.00	42.01	ESS
ATOM	7619	C	GLY	103	155.848	116.054	4.577	1.00	47.89	ESS	ATOM	7672	N	GLU	111	151.641	124.042	7.413	1.00	51.16	ESS
ATOM	7620	O	GLY	103	155.196	117.096	4.516	1.00	47.89	ESS	ATOM	7673	CA	GLU	111	151.420	124.387	8.805	1.00	51.16	ESS
ATOM	7621	N	ALA	104	157.024	115.971	5.196	1.00	34.99	ESS	ATOM	7674	CB	GLU	111	152.369	123.596	9.705	1.00	88.59	ESS
ATOM	7622	CA	ALA	104	157.632	117.089	5.896	1.00	34.99	ESS	ATOM	7675	CG	GLU	111	152.174	122.092	9.592	1.00	88.59	ESS
ATOM	7623	CB	ALA	104	159.009	116.727	6.309	1.00	32.58	ESS	ATOM	7676	CD	GLU	111	153.098	121.295	10.502	1.00	88.59	ESS
ATOM	7624	C	ALA	104	157.681	118.401	5.151	1.00	34.99	ESS	ATOM	7677	OE1	GLU	111	154.340	121.425	10.363	1.00	88.59	ESS
ATOM	7625	O	ALA	104	157.239	119.432	5.662	1.00	34.99	ESS	ATOM	7678	OE2	GLU	111	152.572	120.531	11.349	1.00	88.59	ESS
ATOM	7626	N	VAL	105	158.229	118.389	3.948	1.00	50.57	ESS	ATOM	7679	C	GLU	111	151.590	125.884	9.045	1.00	51.16	ESS
ATOM	7627	CA	VAL	105	158.342	119.634	3.205	1.00	50.57	ESS	ATOM	7680	O	GLU	111	150.672	126.548	9.542	1.00	51.16	ESS
ATOM	7628	CB	VAL	105	158.998	119.408	1.843	1.00	37.23	ESS	ATOM	7681	N	LEU	112	152.745	126.433	8.689	1.00	38.38	ESS
ATOM	7629	CG1	VAL	105	159.094	120.727	1.082	1.00	37.23	ESS	ATOM	7682	CA	LEU	112	152.953	127.854	8.907	1.00	38.38	ESS
ATOM	7630	CG2	VAL	105	160.373	118.809	2.048	1.00	37.23	ESS	ATOM	7683	CB	LEU	112	154.372	128.262	8.548	1.00	47.88	ESS
ATOM	7631	C	VAL	105	157.029	120.371	3.015	1.00	50.57	ESS	ATOM	7684	CG	LEU	112	155.490	127.610	9.349	1.00	47.88	ESS
ATOM	7632	O	VAL	105	156.844	121.451	3.556	1.00	50.57	ESS	ATOM	7685	CD1	LEU	112	156.574	128.653	9.532	1.00	47.88	ESS
ATOM	7633	N	PRO	106	156.090	119.792	2.267	1.00	44.81	ESS	ATOM	7686	CD2	LEU	112	155.006	127.133	10.703	1.00	47.88	ESS
ATOM	7634	CD	PRO	106	155.935	118.380	1.892	1.00	34.59	ESS	ATOM	7687	C	LEU	112	151.964	128.674	8.096	1.00	38.38	ESS
ATOM	7635	CA	PRO	106	154.833	120.509	2.081	1.00	44.81	ESS	ATOM	7688	O	LEU	112	151.828	129.879	8.297	1.00	38.38	ESS
ATOM	7636	CB	PRO	106	154.061	119.584	1.143	1.00	34.59	ESS	ATOM	7689	N	ALA	113	151.272	128.028	7.171	1.00	44.63	ESS
ATOM	7637	CG	PRO	106	154.426	118.252	1.699	1.00	34.59	ESS	ATOM	7690	CA	ALA	113	150.292	128.737	6.368	1.00	44.63	ESS
ATOM	7638	C	PRO	106	154.122	120.749	3.421	1.00	44.81	ESS	ATOM	7691	CB	ALA	113	150.021	127.970	5.093	1.00	69.05	ESS
ATOM	7639	O	PRO	106	153.367	121.721	3.573	1.00	44.81	ESS	ATOM	7692	C	ALA	113	149.011	128.849	7.171	1.00	44.63	ESS
ATOM	7640	N	ARG	107	154.371	119.871	4.391	1.00	51.65	ESS	ATOM	7693	O	ALA	113	148.082	129.560	6.792	1.00	44.63	ESS
ATOM	7641	CA	ARG	107	153.743	120.017	5.694	1.00	51.65	ESS	ATOM	7694	N	GLY	114	148.960	128.134	8.285	1.00	49.09	ESS
ATOM	7642	CB	ARG	107	154.109	118.871	6.631	1.00	68.59	ESS	ATOM	7695	CA	GLY	114	147.757	128.154	9.082	1.00	49.09	ESS
ATOM	7643	CG	ARG	107	153.888	119.228	8.087	1.00	68.59	ESS	ATOM	7696	C	GLY	114	146.798	127.088	8.584	1.00	49.09	ESS
ATOM	7644	CD	ARG	107	154.124	118.063	9.001	1.00	68.59	ESS	ATOM	7697	O	GLY	114	145.649	127.043	9.005	1.00	49.09	ESS
ATOM	7645	CE	ARG	107	152.934	117.230	9.106	1.00	68.59	ESS	ATOM	7698	N	VAL	115	147.256	126.242	7.667	1.00	52.88	ESS
ATOM	7646	CZ	ARG	107	152.967	115.900	9.197	1.00	68.59	ESS	ATOM	7699	CA	VAL	115	146.421	125.155	7.162	1.00	52.88	ESS
ATOM	7647	NH1	ARG	107	154.141	115.255	9.194	1.00	68.59	ESS	ATOM	7700	CB	VAL	115	147.071	124.421	5.983	1.00	33.18	ESS
ATOM	7648	NH2	ARG	107	151.828	115.211	9.287	1.00	68.59	ESS	ATOM	7701	CG1	VAL	115	146.307	123.151	5.707	1.00	33.18	ESS
ATOM	7649	C	ARG	107	154.166	121.320	6.328	1.00	51.65	ESS	ATOM	7702	CG2	VAL	115	147.098	125.315	4.748	1.00	33.18	ESS
ATOM	7650	O	ARG	107	153.367	122.251	6.441	1.00	51.65	ESS	ATOM	7703	C	VAL	115	146.304	124.163	8.303	1.00	52.88	ESS

ATOM	7704	O	VAL	115	147.254	123.964	9.051	1.00	52.88	ESS	ATOM	7757	OE1	GLU	122	157.875	114.707	-1.362	1.00	57.63	ES
ATOM	7705	N	THR	116	145.164	123.512	8.433	1.00	52.67	ESS	ATOM	7758	OE2	GLU	122	156.456	115.498	0.147	1.00	57.63	ES
ATOM	7706	CB	THR	116	145.015	122.597	9.542	1.00	52.67	ESS	ATOM	7759	C	GLU	122	154.198	112.899	-4.585	1.00	41.68	ES
ATOM	7707	CA	THR	116	144.149	123.248	10.606	1.00	45.51	ESS	ATOM	7760	O	GLU	122	154.203	111.682	-4.328	1.00	41.68	ES
ATOM	7708	OG1	THR	116	144.564	122.793	11.893	1.00	45.51	ESS	ATOM	7761	N	LEU	123	154.302	113.388	-5.812	1.00	45.53	ES
ATOM	7709	CG2	THR	116	142.688	122.898	10.385	1.00	45.51	ESS	ATOM	7762	CA	LEU	123	154.451	112.524	-6.971	1.00	45.53	ES
ATOM	7710	C	THR	116	144.441	121.224	9.181	1.00	52.67	ESS	ATOM	7763	CB	LEU	123	153.149	112.509	-7.759	1.00	43.83	ES
ATOM	7711	O	THR	116	144.573	120.269	9.948	1.00	52.67	ESS	ATOM	7764	CG	LEU	123	151.988	111.915	-6.964	1.00	43.83	ES
ATOM	7712	N	ASP	117	143.803	121.133	8.021	1.00	49.71	ESS	ATOM	7765	CD1	LEU	123	150.701	112.139	-7.724	1.00	43.83	ES
ATOM	7713	CA	ASP	117	143.228	119.885	7.562	1.00	49.71	ESS	ATOM	7766	CD2	LEU	123	152.229	110.433	-6.708	1.00	43.83	ES
ATOM	7714	CB	ASP	117	141.741	119.836	7.899	1.00	41.68	ESS	ATOM	7767	C	LEU	123	155.601	113.020	-7.843	1.00	45.53	ES
ATOM	7715	CG	ASP	117	141.484	119.552	9.361	1.00	41.68	ESS	ATOM	7768	O	LEU	123	155.884	114.208	-7.883	1.00	45.53	ES
ATOM	7716	OD1	ASP	117	141.486	118.364	9.749	1.00	41.68	ESS	ATOM	7769	N	GLY	124	156.275	112.113	-8.530	1.00	36.37	ES
ATOM	7717	OD2	ASP	117	141.287	120.519	10.124	1.00	41.68	ESS	ATOM	7770	CA	GLY	124	157.381	112.531	-9.370	1.00	36.37	ES
ATOM	7718	C	ASP	117	143.399	119.762	6.060	1.00	49.71	ESS	ATOM	7771	C	GLY	124	158.678	112.629	-8.591	1.00	36.37	ES
ATOM	7719	O	ASP	117	142.670	120.413	5.299	1.00	49.71	ESS	ATOM	7772	O	GLY	124	158.905	111.849	-7.665	1.00	36.37	ES
ATOM	7720	N	ILE	118	144.364	118.944	5.632	1.00	40.95	ESS	ATOM	7773	N	SER	125	159.545	113.567	-8.959	1.00	39.48	ES
ATOM	7721	CA	ILE	118	145.706	119.644	4.205	1.00	40.95	ESS	ATOM	7774	CA	SER	125	160.802	113.711	-8.240	1.00	39.48	ES
ATOM	7722	CB	ILE	118	146.003	119.257	2.193	1.00	68.42	ESS	ATOM	7775	CB	SER	125	161.674	114.804	-8.864	1.00	42.02	ES
ATOM	7723	CG2	ILE	118	145.133	121.938	3.518	1.00	68.42	ESS	ATOM	7776	OG	SER	125	162.838	115.021	-8.078	1.00	42.02	ES
ATOM	7724	CG1	ILE	118	146.133	121.938	2.620	1.00	68.42	ESS	ATOM	7777	C	SER	125	160.475	114.076	-6.800	1.00	39.48	ES
ATOM	7725	CD1	ILE	118	145.034	117.308	3.872	1.00	40.95	ESS	ATOM	7778	O	SER	125	160.196	115.235	-6.475	1.00	39.48	ES
ATOM	7726	C	ILE	118	145.613	116.599	4.702	1.00	40.95	ESS	ATOM	7779	N	ARG	126	160.487	113.080	-5.934	1.00	59.57	ES
ATOM	7727	O	ILE	118	144.727	116.914	2.638	1.00	37.98	ESS	ATOM	7780	CA	ARG	126	160.185	113.330	-4.548	1.00	59.57	ES
ATOM	7728	N	LEU	119	145.134	115.631	2.079	1.00	37.98	ESS	ATOM	7781	CB	ARG	126	159.906	112.002	-3.858	1.00	56.52	ES
ATOM	7729	CA	LEU	119	143.953	114.910	1.441	1.00	36.90	ESS	ATOM	7782	CG	ARG	126	158.125	112.081	-2.577	1.00	56.52	ES
ATOM	7730	CB	LEU	119	142.825	114.475	2.365	1.00	36.90	ESS	ATOM	7783	CD	ARG	126	158.271	110.841	-2.476	1.00	56.52	ES
ATOM	7731	CG	LEU	119	141.866	113.640	1.537	1.00	36.90	ESS	ATOM	7784	NE	ARG	126	157.490	110.733	-3.700	1.00	56.52	ES
ATOM	7732	CD1	LEU	119	143.353	113.670	3.546	1.00	36.90	ESS	ATOM	7785	CZ	ARG	126	156.608	109.773	-3.959	1.00	56.52	ES
ATOM	7733	CD2	LEU	119	146.169	115.981	0.995	1.00	37.98	ESS	ATOM	7786	NH1	ARG	126	156.376	108.812	-3.075	1.00	56.52	ES
ATOM	7734	C	LEU	119	145.858	116.666	0.010	1.00	37.98	ESS	ATOM	7787	NH2	ARG	126	155.961	109.775	-5.119	1.00	56.52	ES
ATOM	7735	O	LEU	119	147.394	115.510	1.197	1.00	46.10	ESS	ATOM	7788	C	ARG	126	161.406	114.022	-3.945	1.00	59.57	ES
ATOM	7736	N	THR	120	148.510	115.774	0.295	1.00	46.10	ESS	ATOM	7789	O	ARG	126	161.985	113.535	-2.977	1.00	59.57	ES
ATOM	7737	CA	THR	120	149.649	116.449	0.998	1.00	41.93	ESS	ATOM	7790	N	ASN	127	161.801	115.153	-4.523	1.00	33.45	ES
ATOM	7738	CB	THR	120	149.499	117.864	0.998	1.00	41.93	ESS	ATOM	7791	CA	ASN	127	162.961	115.907	-4.044	1.00	33.45	ES
ATOM	7739	OG1	THR	120	151.031	116.037	0.573	1.00	41.93	ESS	ATOM	7792	CB	ASN	127	163.907	116.182	-5.217	1.00	55.31	ES
ATOM	7740	CG2	THR	120	149.064	114.519	-0.359	1.00	46.10	ESS	ATOM	7793	CG	ASN	127	164.603	117.527	-5.109	1.00	55.31	ES
ATOM	7741	C	THR	120	148.718	113.403	0.024	1.00	46.10	ESS	ATOM	7794	OD1	ASN	127	164.083	118.536	-5.578	1.00	55.31	ES
ATOM	7742	O	THR	120	149.928	114.714	-1.351	1.00	50.56	ESS	ATOM	7795	ND2	ASN	127	162.776	117.549	-4.478	1.00	55.31	ES
ATOM	7743	N	LVS	121	150.585	113.601	-2.023	1.00	50.56	ESS	ATOM	7796	C	ASN	127	162.608	117.224	-3.945	1.00	33.45	ES
ATOM	7744	CA	LVS	121	149.584	112.774	-2.828	1.00	38.82	ESS	ATOM	7797	O	ASN	127	163.060	117.396	-2.097	1.00	45.94	ES
ATOM	7745	CB	LVS	121	150.244	111.645	-3.578	1.00	38.82	ESS	ATOM	7798	N	PRO	128	164.168	116.682	-1.441	1.00	36.65	ES
ATOM	7746	CG	LVS	121	151.060	110.783	-2.627	1.00	38.82	ESS	ATOM	7799	CD	PRO	128	162.744	118.640	-1.384	1.00	45.94	ES
ATOM	7747	CD	LVS	121	151.943	109.827	-3.402	1.00	38.82	ESS	ATOM	7800	PRO	PRO	128	163.483	118.476	-0.061	1.00	36.65	ES
ATOM	7748	CE	LVS	121	152.684	108.889	-2.525	1.00	38.82	ESS	ATOM	7801	CB	PRO	128	164.701	117.725	-0.469	1.00	36.65	ES
ATOM	7749	NZ	LVS	121	151.711	114.040	-2.945	1.00	50.56	ESS	ATOM	7802	CG	PRO	128	163.259	119.800	-2.199	1.00	45.94	ES
ATOM	7750	C	LVS	121	151.487	114.771	-3.911	1.00	50.56	ESS	ATOM	7803	C	PRO	128	162.641	120.955	-2.040	1.00	51.77	ES
ATOM	7751	O	LVS	121	152.927	113.605	-2.636	1.00	41.68	ESS	ATOM	7804	N	PRO	129	163.025	122.143	-2.795	1.00	51.77	ES
ATOM	7752	N	GLU	122	154.070	113.934	-3.480	1.00	41.68	ESS	ATOM	7805	CA	ILE	129	164.455	122.103	-4.252	1.00	32.47	ES
ATOM	7753	CB	GLU	122	155.359	113.942	-2.675	1.00	57.63	ESS	ATOM	7806	CA	ILE	129	164.679	123.304	-2.200	1.00	32.47	ES
ATOM	7754	CG	GLU	122	156.749	115.149	-1.021	1.00	57.63	ESS	ATOM	7807	CB	ILE	129	157.875	114.707	-1.362	1.00	57.63	ES
ATOM	7755	CG	GLU	122							ATOM	7808	CG2	ILE	129						
ATOM	7756	CD	GLU	122							ATOM	7809	CG1	ILE	129						

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ATOM	7810	CDI	ILE	129	166.904	122.369	-2.639	1.00	32.47	ESS	ATOM	7863	CE	MET	136	156.180	130.502	-0.371	1.00	55.32	ES
ATOM	7811	C	ILE	129	162.096	122.185	-3.967	1.00	51.77	ESS	ATOM	7864	C	MET	136	153.530	127.705	-4.052	1.00	40.82	ES
ATOM	7812	O	ILE	129	161.165	122.979	-3.985	1.00	51.77	ESS	ATOM	7865	O	MET	136	152.589	128.481	-4.018	1.00	40.82	ES
ATOM	7813	N	ASN	130	162.329	121.340	-4.958	1.00	41.18	ESS	ATOM	7866	N	GLU	137	153.960	127.164	-5.180	1.00	47.21	ES
ATOM	7814	CA	ASN	130	161.414	121.357	-6.079	1.00	41.18	ESS	ATOM	7867	CA	GLU	137	153.314	127.496	-6.434	1.00	47.21	ES
ATOM	7815	CB	ASN	130	161.850	120.384	-7.173	1.00	55.79	ESS	ATOM	7868	CB	GLU	137	153.940	126.723	-7.583	1.00	71.75	ES
ATOM	7816	CG	ASN	130	163.165	120.783	-7.802	1.00	55.79	ESS	ATOM	7869	CG	GLU	137	154.473	127.639	-8.645	1.00	71.75	ES
ATOM	7817	OD1	ASN	130	163.452	121.967	-7.965	1.00	55.79	ESS	ATOM	7870	CD	GLU	137	153.524	128.776	-8.924	1.00	71.75	ES
ATOM	7818	ND2	ASN	130	163.970	119.796	-8.167	1.00	55.79	ESS	ATOM	7871	OE1	GLU	137	152.361	128.490	-9.262	1.00	71.75	ES
ATOM	7819	C	ASN	130	160.019	121.014	-5.554	1.00	41.18	ESS	ATOM	7872	OE2	GLU	137	153.936	129.948	-8.799	1.00	71.75	ES
ATOM	7820	O	ASN	130	159.015	121.425	-6.139	1.00	41.18	ESS	ATOM	7873	C	GLU	137	151.832	127.156	-6.346	1.00	47.21	ES
ATOM	7821	N	ILE	131	159.949	120.270	-4.452	1.00	42.78	ESS	ATOM	7874	O	GLU	137	151.001	127.894	-6.826	1.00	47.21	ES
ATOM	7822	CA	ILE	131	158.648	119.953	-3.868	1.00	42.78	ESS	ATOM	7875	N	ALA	138	151.565	126.026	-5.716	1.00	44.48	ES
ATOM	7823	CB	ILE	131	158.737	118.806	-2.835	1.00	45.71	ESS	ATOM	7876	CA	ALA	138	150.200	125.573	-5.568	1.00	44.48	ES
ATOM	7824	CG2	ILE	131	157.532	118.829	-1.910	1.00	45.71	ESS	ATOM	7877	CB	ALA	138	150.187	124.227	-4.931	1.00	20.57	ES
ATOM	7825	CG1	ILE	131	158.793	117.460	-3.548	1.00	45.71	ESS	ATOM	7878	C	ALA	138	149.446	126.574	-4.715	1.00	44.48	ES
ATOM	7826	CD1	ILE	131	157.536	117.132	-4.295	1.00	45.71	ESS	ATOM	7879	O	ALA	138	148.478	127.186	-5.167	1.00	44.48	ES
ATOM	7827	C	ILE	131	158.181	121.227	-3.162	1.00	42.78	ESS	ATOM	7880	N	LEU	139	149.890	126.750	-3.478	1.00	45.22	ES
ATOM	7828	O	ILE	131	159.056	121.701	-3.378	1.00	42.78	ESS	ATOM	7881	CA	LEU	139	150.232	127.707	-2.613	1.00	45.22	ES
ATOM	7829	N	ALA	132	159.056	121.780	-1.605	1.00	45.67	ESS	ATOM	7882	CB	LEU	139	150.126	128.054	-1.430	1.00	37.83	ES
ATOM	7830	CA	ALA	132	158.748	123.007	-0.896	1.00	25.93	ESS	ATOM	7883	CG	LEU	139	150.345	126.882	-0.457	1.00	37.83	ES
ATOM	7831	CB	ALA	132	159.977	123.520	-0.896	1.00	25.93	ESS	ATOM	7884	CD1	LEU	139	151.326	127.302	0.610	1.00	37.83	ES
ATOM	7832	C	ALA	132	158.239	124.052	-2.589	1.00	45.67	ESS	ATOM	7885	CD2	LEU	139	149.031	126.454	0.194	1.00	37.83	ES
ATOM	7833	O	ALA	132	157.137	124.560	-2.432	1.00	45.67	ESS	ATOM	7886	C	LEU	139	148.881	128.957	-3.410	1.00	45.22	ES
ATOM	7834	N	TYR	133	159.031	124.361	-3.609	1.00	42.00	ESS	ATOM	7887	O	LEU	139	147.751	129.410	-3.362	1.00	45.22	ES
ATOM	7835	CA	TYR	133	158.633	125.354	-4.601	1.00	42.00	ESS	ATOM	7888	N	ARG	140	149.822	129.493	-4.180	1.00	49.05	ES
ATOM	7836	CB	TYR	133	159.661	125.437	-5.737	1.00	81.11	ESS	ATOM	7889	CA	ARG	140	149.553	130.692	-4.976	1.00	49.05	ES
ATOM	7837	CD1	TYR	133	160.995	126.071	-5.399	1.00	81.11	ESS	ATOM	7890	CB	ARG	140	150.747	131.089	-5.068	1.00	48.37	ES
ATOM	7838	CE1	TYR	133	162.125	125.769	-6.161	1.00	81.11	ESS	ATOM	7891	CG	ARG	140	151.872	131.689	-5.829	1.00	48.37	ES
ATOM	7839	CE2	TYR	133	163.370	126.332	-5.879	1.00	81.11	ESS	ATOM	7892	CD	ARG	140	152.687	132.618	-5.948	1.00	48.37	ES
ATOM	7840	CE2	TYR	133	161.138	126.969	-4.033	1.00	81.11	ESS	ATOM	7893	NE	ARG	140	153.973	132.833	-5.318	1.00	48.37	ES
ATOM	7841	CE2	TYR	133	162.382	127.544	-4.036	1.00	81.11	ESS	ATOM	7894	CZ	ARG	140	154.937	131.924	-5.309	1.00	48.37	ES
ATOM	7842	CZ	TYR	133	163.497	127.214	-4.820	1.00	81.11	ESS	ATOM	7895	NH1	ARG	140	154.755	130.755	-5.921	1.00	48.37	ES
ATOM	7843	OH	TYR	133	164.747	127.738	-4.562	1.00	81.11	ESS	ATOM	7896	NH2	ARG	140	156.059	132.161	-4.639	1.00	48.37	ES
ATOM	7844	C	TYR	133	157.270	125.030	-5.216	1.00	42.00	ESS	ATOM	7897	C	ARG	140	148.379	130.600	-5.918	1.00	49.05	ES
ATOM	7845	O	TYR	133	156.443	125.920	-5.445	1.00	42.00	ESS	ATOM	7898	O	ARG	140	147.600	131.537	-6.040	1.00	49.05	ES
ATOM	7846	N	ALA	134	157.040	123.759	-5.511	1.00	40.18	ESS	ATOM	7899	N	GLN	141	148.256	129.483	-6.611	1.00	42.07	ES
ATOM	7847	CA	ALA	134	155.777	123.381	-6.110	1.00	40.18	ESS	ATOM	7900	CA	GLN	141	147.176	129.345	-7.576	1.00	42.07	ES
ATOM	7848	CB	ALA	134	155.829	121.940	-6.565	1.00	41.34	ESS	ATOM	7901	CB	GLN	141	147.522	128.252	-8.580	1.00	49.61	ES
ATOM	7849	C	ALA	134	154.634	123.587	-5.126	1.00	40.18	ESS	ATOM	7902	CG	GLN	141	148.989	128.237	-8.920	1.00	49.61	ES
ATOM	7850	O	ALA	134	153.531	123.959	-5.522	1.00	40.18	ESS	ATOM	7903	CD	GLN	141	149.256	127.666	-10.281	1.00	49.61	ES
ATOM	7851	N	THR	135	154.881	123.332	-3.847	1.00	42.92	ESS	ATOM	7904	OE1	GLN	141	148.612	126.711	-10.709	1.00	49.61	ES
ATOM	7852	CA	THR	135	153.831	123.537	-2.864	1.00	42.92	ESS	ATOM	7905	NE2	GLN	141	150.222	128.243	-10.976	1.00	49.61	ES
ATOM	7853	CB	THR	135	154.305	123.175	-1.461	1.00	52.95	ESS	ATOM	7906	C	GLN	141	145.829	129.073	-6.919	1.00	42.07	ES
ATOM	7854	CG1	THR	135	154.574	121.773	-1.405	1.00	52.95	ESS	ATOM	7907	O	GLN	141	144.811	128.934	-7.602	1.00	42.07	ES
ATOM	7855	CG2	THR	135	153.243	123.502	-0.444	1.00	52.95	ESS	ATOM	7908	N	LEU	142	145.819	128.998	-5.596	1.00	39.36	ES
ATOM	7856	C	THR	135	153.462	125.020	-2.917	1.00	42.92	ESS	ATOM	7909	CA	LEU	142	144.564	128.778	-4.904	1.00	39.36	ES
ATOM	7857	O	THR	135	152.298	125.379	-3.132	1.00	40.82	ESS	ATOM	7910	CB	LEU	142	144.800	128.610	-3.404	1.00	38.86	ES
ATOM	7858	N	MET	136	154.466	125.875	-2.738	1.00	40.82	ESS	ATOM	7911	CG	LEU	142	145.341	127.233	-3.043	1.00	38.86	ES
ATOM	7859	CA	MET	136	154.270	127.317	-2.783	1.00	40.82	ESS	ATOM	7912	CD1	LEU	142	145.600	127.160	-1.563	1.00	38.86	ES
ATOM	7860	CB	MET	136	155.612	128.034	-2.756	1.00	55.32	ESS	ATOM	7913	CD2	LEU	142	144.339	126.181	-3.480	1.00	38.86	ES
ATOM	7861	CG	MET	136	156.329	127.935	-1.443	1.00	55.32	ESS	ATOM	7914	C	LEU	142	143.634	129.962	-5.152	1.00	39.36	ES
ATOM	7862	SD	MET	136	155.465	128.869	-0.163	1.00	55.32	ESS	ATOM	7915	O	LEU	142	144.071	131.114	-5.176	1.00	39.36	ES

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ATOM	7916	N	ARG	143	142.353	129.662	-5.339	1.00	44.09	ESS	ATOM	7969	OE2	GLU	149	129.588	135.113	-7.053	1.00148.82	ES	
ATOM	7917	CA	ARG	143	141.349	130.678	-5.594	1.00	44.09	ESS	ATOM	7970	C	GLU	149	133.928	136.666	-10.320	1.00	63.24	ES
ATOM	7918	CB	ARG	143	140.968	130.689	-7.070	1.00	43.80	ESS	ATOM	7971	O	GLU	149	133.550	137.003	-11.440	1.00	63.24	ES
ATOM	7919	CG	ARG	143	142.089	131.115	-7.982	1.00	43.80	ESS	ATOM	7972	N	ARG	150	134.780	137.382	-9.593	1.00	48.90	ES
ATOM	7920	CD	ARG	143	142.566	132.463	-7.570	1.00	43.80	ESS	ATOM	7973	CR	ARG	150	135.335	138.622	-10.112	1.00	48.90	ES
ATOM	7921	NE	ARG	143	144.014	132.487	-7.456	1.00	43.80	ESS	ATOM	7974	CB	ARG	150	136.433	139.174	-9.202	1.00148.84	ES	
ATOM	7922	CZ	ARG	143	144.840	132.739	-8.462	1.00	43.80	ESS	ATOM	7975	CG	ARG	150	135.955	139.804	-7.920	1.00148.84	ES	
ATOM	7923	NH1	ARG	143	144.362	132.991	-9.677	1.00	43.80	ESS	ATOM	7976	CD	ARG	150	136.912	140.909	-7.510	1.00148.84	ES	
ATOM	7924	NH2	ARG	143	146.146	132.755	-8.239	1.00	43.80	ESS	ATOM	7977	NE	ARG	150	136.910	141.124	-6.069	1.00148.84	ES	
ATOM	7925	C	ARG	143	140.097	130.448	-4.772	1.00	44.09	ESS	ATOM	7978	CZ	ARG	150	137.310	140.216	-5.182	1.00148.84	ES	
ATOM	7926	O	ARG	143	139.824	129.333	-4.317	1.00	44.09	ESS	ATOM	7979	NH1	ARG	150	137.745	139.031	-5.593	1.00148.84	ES	
ATOM	7927	N	THR	144	139.337	131.527	-4.609	1.00	44.41	ESS	ATOM	7980	NH2	ARG	150	137.278	140.492	-3.884	1.00148.84	ES	
ATOM	7928	CA	THR	144	138.094	131.537	-3.863	1.00	44.41	ESS	ATOM	7981	C	ARG	150	135.936	138.381	-11.489	1.00	48.90	ES
ATOM	7929	CB	THR	144	138.115	132.653	-2.853	1.00	73.33	ESS	ATOM	7982	O	ARG	150	135.840	139.227	-12.373	1.00	48.90	ES
ATOM	7930	OG1	THR	144	139.175	132.403	-1.931	1.00	73.33	ESS	ATOM	7983	N	LEU	151	136.560	137.224	-11.672	1.00	51.88	ES
ATOM	7931	CG2	THR	144	136.790	132.747	-2.113	1.00	73.33	ESS	ATOM	7984	CA	LEU	151	137.184	136.920	-12.942	1.00	51.88	ES
ATOM	7932	C	THR	144	136.963	131.789	-4.837	1.00	44.41	ESS	ATOM	7985	CB	LEU	151	138.103	135.713	-12.805	1.00	46.63	ES
ATOM	7933	O	THR	144	137.193	132.320	-5.920	1.00	44.41	ESS	ATOM	7986	CG	LEU	151	139.564	135.943	-12.442	1.00	46.63	ES
ATOM	7934	N	LVS	145	135.745	131.406	-4.461	1.00	53.86	ESS	ATOM	7987	CD1	LEU	151	140.264	134.609	-12.364	1.00	46.63	ES
ATOM	7935	CA	LVS	145	134.591	131.628	-5.325	1.00	53.86	ESS	ATOM	7988	CD2	LEU	151	140.219	136.800	-13.494	1.00	46.63	ES
ATOM	7936	CB	LVS	145	133.325	131.151	-4.620	1.00	82.89	ESS	ATOM	7989	C	LEU	151	136.199	136.669	-14.063	1.00	51.88	ES
ATOM	7937	CG	LVS	145	132.081	131.157	-5.483	1.00	82.89	ESS	ATOM	7990	O	LEU	151	136.539	136.875	-15.227	1.00	51.88	ES
ATOM	7938	CD	LVS	145	130.889	130.782	-4.625	1.00	82.89	ESS	ATOM	7991	N	ARG	152	134.987	136.225	-13.733	1.00	67.50	ES
ATOM	7939	CE	LVS	145	129.576	130.811	-5.384	1.00	82.89	ESS	ATOM	7992	CA	ARG	152	134.002	135.959	-14.776	1.00	67.50	ES
ATOM	7940	N2	LVS	145	128.449	130.475	-4.460	1.00	82.89	ESS	ATOM	7993	CB	ARG	152	133.524	134.524	-14.692	1.00	68.96	ES
ATOM	7941	C	LVS	145	134.514	133.133	-5.626	1.00	53.86	ESS	ATOM	7994	CG	ARG	152	134.599	133.497	-14.557	1.00	68.96	ES
ATOM	7942	O	LVS	145	134.181	133.555	-6.743	1.00	53.86	ESS	ATOM	7995	CD	ARG	152	133.957	132.139	-14.709	1.00	68.96	ES
ATOM	7943	N	ALA	146	134.850	133.934	-4.620	1.00	52.92	ESS	ATOM	7996	NE	ARG	152	134.506	131.150	-13.795	1.00	68.96	ES
ATOM	7944	CA	ALA	146	134.847	135.378	-4.763	1.00	52.92	ESS	ATOM	7997	C2	ARG	152	133.868	130.038	-13.448	1.00	68.96	ES
ATOM	7945	CB	ALA	146	135.363	136.016	-3.501	1.00	41.51	ESS	ATOM	7998	NH1	ARG	152	132.658	129.786	-13.943	1.00	68.96	ES
ATOM	7946	C	ALA	146	135.732	135.777	-5.932	1.00	52.92	ESS	ATOM	7999	NH2	ARG	152	134.439	129.179	-12.612	1.00	67.50	ES
ATOM	7947	O	ALA	146	135.382	136.666	-6.711	1.00	52.92	ESS	ATOM	8000	C	ARG	152	132.766	136.862	-14.811	1.00	67.50	ES
ATOM	7948	N	ASP	147	136.882	135.113	-6.045	1.00	43.73	ESS	ATOM	8001	O	ARG	152	131.792	136.528	-15.484	1.00	67.50	ES
ATOM	7949	CA	ASP	147	137.842	135.393	-7.104	1.00	43.73	ESS	ATOM	8002	N	LVS	153	132.786	137.987	-14.099	1.00	86.72	ES
ATOM	7950	CB	ASP	147	139.169	134.716	-6.814	1.00	55.23	ESS	ATOM	8003	CA	LVS	153	131.637	138.893	-14.099	1.00133.40	ES	
ATOM	7951	CG	ASP	147	139.707	135.063	-5.461	1.00	55.23	ESS	ATOM	8004	CB	LVS	153	131.809	139.993	-13.047	1.00133.40	ES	
ATOM	7952	OD1	ASP	147	139.770	136.270	-5.126	1.00	55.23	ESS	ATOM	8005	CG	LVS	153	131.794	139.505	-11.607	1.00133.40	ES	
ATOM	7953	OD2	ASP	147	140.076	134.119	-4.734	1.00	55.23	ESS	ATOM	8006	CD	LVS	153	130.491	138.783	-11.265	1.00133.40	ES	
ATOM	7954	C	ASP	147	137.379	134.933	-8.463	1.00	43.73	ESS	ATOM	8007	CE	LVS	153	129.517	138.221	-9.842	1.00133.40	ES	
ATOM	7955	O	ASP	147	137.460	135.672	-9.448	1.00	43.73	ESS	ATOM	8008	N2	LVS	153	131.451	139.535	-15.475	1.00	86.72	ES
ATOM	7956	N	VAL	148	136.931	133.690	-8.526	1.00	44.67	ESS	ATOM	8009	C	LVS	153	131.650	138.891	-16.509	1.00	86.72	ES
ATOM	7957	CA	VAL	148	136.474	133.135	-9.784	1.00	64.08	ESS	ATOM	8010	O	LVS	153	130.663	140.807	-15.480	1.00120.05	ES	
ATOM	7958	CB	VAL	148	135.926	131.718	-9.576	1.00	64.08	ESS	ATOM	8011	N	GLY	154	130.862	141.520	-16.729	1.00120.05	ES	
ATOM	7959	CG1	VAL	148	135.711	131.036	-10.919	1.00	64.08	ESS	ATOM	8012	CA	GLY	154	129.931	140.809	-17.693	1.00120.05	ES	
ATOM	7960	CG2	VAL	148	136.884	130.928	-8.700	1.00	64.08	ESS	ATOM	8013	C	GLY	154	129.416	139.726	-17.340	1.00120.05	ES	
ATOM	7961	C	VAL	148	135.370	134.043	-10.306	1.00	44.67	ESS	ATOM	8014	O	GLY	154	129.714	141.358	-18.806	1.00126.35	ES	
ATOM	7962	O	VAL	148	135.286	134.335	-11.515	1.00	44.67	ESS	ATOM	8015	OXT	GLY	154	245.588	178.450	-3.629	1.00172.23	IS	
ATOM	7963	N	GLU	149	134.538	134.500	-9.371	1.00	63.24	ESS	ATOM	8016	CB	GLU	1	246.854	179.279	-3.705	1.00172.23	IS	
ATOM	7964	CA	GLU	149	133.426	135.378	-9.702	1.00	63.24	ESS	ATOM	8017	CG	GLU	1	247.779	179.014	-2.523	1.00172.23	IS	
ATOM	7965	CB	GLU	149	132.605	135.685	-8.459	1.00148.82	ESS	ATOM	8018	CD	GLU	1	248.211	177.852	-2.350	1.00172.23	IS		
ATOM	7966	CG	GLU	149	131.660	134.573	-8.074	1.00148.82	ESS	ATOM	8019	OE1	GLU	1	248.077	179.963	-1.767	1.00172.23	IS		
ATOM	7967	CD	GLU	149	130.814	134.943	-6.880	1.00148.82	ESS	ATOM	8020	OE2	GLU	1	243.823	177.192	-4.814	1.00130.46	IS		
ATOM	7968	OE1	GLU	149	131.379	135.073	-5.772	1.00148.82	ESS	ATOM	8021	C	GLU	1							IS

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ATOM	8022	O	GLU	1	244.313	176.061	-4.869	1.00130.46	IS9	ATOM	8075	CB	ARG	8	232.430	159.169	-3.423	1.00 70.88	IS
ATOM	8023	N	GLU	1	243.958	179.702	-5.033	1.00130.46	IS9	ATOM	8076	CD	ARG	8	233.043	159.335	-2.036	1.00 70.88	IS
ATOM	8024	CA	GLU	1	244.721	178.426	-4.892	1.00130.46	IS9	ATOM	8077	CD	ARG	8	232.032	159.787	-0.990	1.00 70.88	IS
ATOM	8025	N	GLN	2	242.516	177.391	-4.692	1.00107.92	IS9	ATOM	8078	NE	ARG	8	231.445	161.083	-1.321	1.00 70.88	IS
ATOM	8026	CA	GLN	2	241.628	176.246	-4.565	1.00107.92	IS9	ATOM	8079	CZ	ARG	8	230.591	161.734	-0.543	1.00 70.88	IS
ATOM	8027	CB	GLN	2	241.189	176.110	-3.106	1.00118.36	IS9	ATOM	8080	NH1	ARG	8	230.230	161.207	0.616	1.00 70.88	IS
ATOM	8028	CG	GLN	2	242.339	176.024	-2.118	1.00118.36	IS9	ATOM	8081	NH2	ARG	8	230.085	162.900	-0.928	1.00 70.88	IS
ATOM	8029	CD	GLN	2	243.248	174.844	-2.388	1.00118.36	IS9	ATOM	8082	C	ARG	8	233.109	157.850	-5.439	1.00 77.18	IS
ATOM	8030	OEI	GLN	2	242.803	173.701	-2.409	1.00118.36	IS9	ATOM	8083	O	ARG	8	233.150	157.961	-6.198	1.00 77.18	IS
ATOM	8031	NE2	GLN	2	244.531	175.115	-2.594	1.00118.36	IS9	ATOM	8084	N	ARG	9	233.891	156.782	-5.407	1.00 52.59	IS
ATOM	8032	C	GLN	2	240.392	176.221	-5.452	1.00107.92	IS9	ATOM	8085	CA	ARG	9	233.638	155.646	-6.260	1.00 52.59	IS
ATOM	8033	O	GLN	2	239.762	177.428	-5.703	1.00107.92	IS9	ATOM	8086	CB	ARG	9	234.674	155.546	-7.375	1.00 75.30	IS
ATOM	8034	N	TYR	3	240.066	175.017	-5.916	1.00127.19	IS9	ATOM	8087	CG	ARG	9	234.503	154.297	-8.216	1.00 75.30	IS
ATOM	8035	CA	TYR	3	238.895	174.737	-6.746	1.00127.19	IS9	ATOM	8088	CD	ARG	9	233.195	154.358	-8.981	1.00 75.30	IS
ATOM	8036	CB	TYR	3	239.182	175.043	-8.219	1.00156.57	IS9	ATOM	8089	NE	ARG	9	232.685	153.037	-9.347	1.00 75.30	IS
ATOM	8037	CG	TYR	3	239.585	176.482	-8.417	1.00156.57	IS9	ATOM	8090	NE	ARG	9	233.265	152.204	-10.208	1.00 75.30	IS
ATOM	8038	CD1	TYR	3	240.926	176.856	-8.388	1.00156.57	IS9	ATOM	8091	NH1	ARG	9	234.396	152.537	-10.813	1.00 75.30	IS
ATOM	8039	CE1	TYR	3	241.303	178.194	-8.437	1.00156.57	IS9	ATOM	8092	NH2	ARG	9	232.706	151.032	-10.469	1.00 75.30	IS
ATOM	8040	CD2	TYR	3	238.624	177.488	-8.510	1.00156.57	IS9	ATOM	8093	C	ARG	9	233.673	154.353	-5.466	1.00 52.59	IS
ATOM	8041	CE2	TYR	3	238.986	178.831	-8.560	1.00156.57	IS9	ATOM	8094	O	ARG	9	234.675	154.018	-4.854	1.00 52.59	IS
ATOM	8042	CZ	TYR	3	240.329	179.178	-8.521	1.00156.57	IS9	ATOM	8095	N	LYS	10	232.555	153.645	-5.525	1.00 58.63	IS
ATOM	8043	OH	TYR	3	240.710	180.504	-8.551	1.00156.57	IS9	ATOM	8096	CA	LYS	10	232.470	152.347	-4.909	1.00 58.63	IS
ATOM	8044	C	TYR	3	238.611	173.255	-6.512	1.00127.19	IS9	ATOM	8097	CB	LYS	10	232.718	151.318	-6.029	1.00 54.40	IS
ATOM	8045	O	TYR	3	239.015	172.388	-7.285	1.00127.19	IS9	ATOM	8098	CD	LYS	10	233.303	149.969	-5.631	1.00 54.40	IS
ATOM	8046	N	TYR	4	237.922	173.003	-5.401	1.00 78.16	IS9	ATOM	8099	CD	LYS	10	233.819	149.219	-6.851	1.00 54.40	IS
ATOM	8047	CA	TYR	4	237.566	171.672	-4.920	1.00 78.16	IS9	ATOM	8100	CE	LYS	10	234.502	147.969	-6.410	1.00 54.40	IS
ATOM	8048	CB	TYR	4	237.092	171.788	-3.470	1.00 90.98	IS9	ATOM	8101	NZ	LYS	10	235.071	147.282	-7.582	1.00 54.40	IS
ATOM	8049	CG	TYR	4	237.063	170.483	-2.729	1.00 90.98	IS9	ATOM	8102	C	LYS	10	233.451	152.174	-3.750	1.00 58.63	IS
ATOM	8050	CD1	TYR	4	236.152	170.264	-1.705	1.00 90.98	IS9	ATOM	8103	O	LYS	11	234.385	151.385	-3.838	1.00 58.63	IS
ATOM	8051	CE1	TYR	4	236.127	169.060	-1.014	1.00 90.98	IS9	ATOM	8104	N	GLU	11	233.255	152.927	-2.674	1.00 43.10	IS
ATOM	8052	CD2	TYR	4	237.954	169.464	-3.047	1.00 90.98	IS9	ATOM	8105	CA	GLU	11	234.113	152.809	-1.480	1.00 43.10	IS
ATOM	8053	CE2	TYR	4	237.938	168.258	-2.365	1.00 90.98	IS9	ATOM	8106	CB	GLU	11	234.475	151.348	-1.224	1.00 73.49	IS
ATOM	8054	CZ	TYR	4	237.023	168.061	-1.352	1.00 90.98	IS9	ATOM	8107	CD	GLU	11	233.462	150.609	-0.432	1.00 73.49	IS
ATOM	8055	OH	TYR	4	237.006	166.859	-0.685	1.00 90.98	IS9	ATOM	8108	CD	GLU	11	233.325	151.193	0.932	1.00 73.49	IS
ATOM	8056	C	TYR	4	236.513	170.913	-5.734	1.00 78.16	IS9	ATOM	8109	OEI	GLU	11	234.377	151.461	1.537	1.00 73.49	IS
ATOM	8057	O	TYR	4	235.822	171.490	-6.578	1.00 78.16	IS9	ATOM	8110	OE2	GLU	11	232.183	151.382	1.402	1.00 73.49	IS
ATOM	8058	N	GLY	5	236.398	169.612	-5.451	1.00148.80	IS9	ATOM	8111	C	GLU	11	235.415	153.622	-0.430	1.00 43.10	IS
ATOM	8059	CA	GLY	5	235.447	168.759	-6.144	1.00148.80	IS9	ATOM	8112	O	GLU	11	236.295	153.355	-0.595	1.00 43.10	IS
ATOM	8060	C	GLY	5	234.831	167.616	-5.339	1.00148.80	IS9	ATOM	8113	N	ALA	12	235.542	154.601	-2.314	1.00 83.39	IS
ATOM	8061	O	GLY	5	233.606	167.558	-5.198	1.00148.80	IS9	ATOM	8114	CA	ALA	12	236.733	155.427	-2.343	1.00 83.39	IS
ATOM	8062	N	THR	6	235.665	166.714	-4.815	1.00 78.03	IS9	ATOM	8115	CB	ALA	12	237.543	155.125	-3.592	1.00 51.00	IS
ATOM	8063	CA	THR	6	235.213	165.540	-4.042	1.00 78.03	IS9	ATOM	8116	C	ALA	12	236.298	156.878	-2.344	1.00 83.39	IS
ATOM	8064	CB	THR	6	234.053	165.841	-3.064	1.00 71.74	IS9	ATOM	8117	O	ALA	12	235.290	157.226	-2.966	1.00 83.39	IS
ATOM	8065	OG1	THR	6	234.478	166.757	-2.051	1.00 71.74	IS9	ATOM	8118	N	VAL	13	237.041	157.718	-1.626	1.00 84.99	IS
ATOM	8066	CG2	THR	6	233.593	164.549	-2.399	1.00 78.03	IS9	ATOM	8119	CB	VAL	13	236.342	159.147	-0.185	1.00 84.99	IS
ATOM	8067	C	THR	6	234.709	164.410	-4.933	1.00 78.03	IS9	ATOM	8120	CB	VAL	13	235.807	161.043	-0.255	1.00 48.67	IS
ATOM	8068	O	THR	6	233.672	164.532	-5.590	1.00 78.03	IS9	ATOM	8121	CG1	VAL	13	235.284	158.716	0.436	1.00 48.67	IS
ATOM	8069	N	GLY	7	235.434	163.301	-4.936	1.00 69.91	IS9	ATOM	8122	CG2	VAL	13	237.981	159.908	-2.039	1.00 84.99	IS
ATOM	8070	CA	GLY	7	235.030	162.173	-5.748	1.00 69.91	IS9	ATOM	8123	C	VAL	13	239.085	159.658	-1.553	1.00 84.99	IS
ATOM	8071	C	GLY	7	234.819	160.932	-4.907	1.00 69.91	IS9	ATOM	8124	O	VAL	13	237.797	160.836	-2.973	1.00 74.35	IS
ATOM	8072	O	GLY	7	235.578	160.653	-3.968	1.00 69.91	IS9	ATOM	8125	N	ALA	14	238.914	161.609	-3.504	1.00 74.35	IS
ATOM	8073	N	ARG	8	233.767	160.187	-5.221	1.00 77.18	IS9	ATOM	8126	CA	ALA	14	239.184	161.192	-4.949	1.00 59.44	IS
ATOM	8074	CA	ARG	8	233.501	158.959	-4.453	1.00 77.18	IS9	ATOM	8127	CB	ALA	14					IS

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ATOM	8128	C	ALA	14	238.758	163.130	-3.432	1.00	74.35	IS9	ATOM	8181	CB	PRO	20	245.360	178.613	-11.851	1.00100.57	IS	
ATOM	8129	O	ALA	14	237.901	163.724	-4.101	1.00	74.35	IS9	ATOM	8182	CG	PRO	20	245.473	179.066	-10.423	1.00100.57	IS	
ATOM	8130	N	ARG	15	239.610	163.750	-2.617	1.00	82.02	IS9	ATOM	8183	C	PRO	20	247.332	177.006	-11.822	1.00103.59	IS	
ATOM	8131	CA	ARG	15	239.630	165.199	-2.456	1.00	82.02	IS9	ATOM	8184	O	PRO	20	248.024	177.294	-10.844	1.00103.59	IS	
ATOM	8132	CB	ARG	15	240.299	165.588	-1.138	1.00110.32	IS9	IS9	ATOM	8185	N	GLY	21	247.843	176.533	-12.952	1.00102.25	IS	
ATOM	8133	CG	ARG	15	239.632	165.091	0.122	1.00110.32	IS9	IS9	ATOM	8186	CA	GLY	21	249.276	176.355	-13.079	1.00102.25	IS	
ATOM	8134	CD	ARG	15	240.593	165.257	1.287	1.00110.32	IS9	IS9	ATOM	8187	C	GLY	21	249.621	175.143	-13.913	1.00102.25	IS	
ATOM	8135	NE	ARG	15	240.020	164.831	-2.560	1.00110.32	IS9	IS9	ATOM	8188	O	GLY	21	249.171	175.018	-15.052	1.00102.25	IS	
ATOM	8136	CZ	ARG	15	240.640	164.036	3.432	1.00110.32	IS9	IS9	ATOM	8189	N	ASN	22	250.417	174.242	-13.349	1.00179.70	IS	
ATOM	8137	NH1	ARG	15	241.855	163.572	3.167	1.00110.32	IS9	IS9	ATOM	8190	CA	ASN	22	250.806	173.043	-14.073	1.00179.70	IS	
ATOM	8138	NH2	ARG	15	240.049	163.711	4.578	1.00110.32	IS9	IS9	ATOM	8191	CB	ASN	22	252.321	172.969	-14.207	1.00116.68	IS	
ATOM	8139	C	ARG	15	240.472	165.747	-3.601	1.00	82.02	IS9	ATOM	8192	CG	ASN	22	252.812	173.660	-15.444	1.00116.68	IS	
ATOM	8140	O	ARG	15	241.689	165.545	-3.634	1.00	82.02	IS9	ATOM	8193	OD1	ASN	22	253.817	173.263	-16.032	1.00116.68	IS	
ATOM	8141	N	VAL	16	239.827	166.423	-4.545	1.00	78.74	IS9	ATOM	8194	ND2	ASN	22	252.103	174.707	-15.856	1.00116.68	IS	
ATOM	8142	CA	VAL	16	240.546	166.994	-5.673	1.00	78.74	IS9	ATOM	8195	C	ASN	22	250.307	171.734	-13.498	1.00179.70	IS	
ATOM	8143	CB	VAL	16	239.872	166.624	-7.021	1.00	81.26	IS9	ATOM	8196	O	ASN	22	250.741	171.310	-12.430	1.00179.70	IS	
ATOM	8144	CG1	VAL	16	240.649	167.221	-8.183	1.00	81.26	IS9	ATOM	8197	N	GLY	23	249.398	171.093	-14.226	1.00121.84	IS	
ATOM	8145	CG2	VAL	16	239.815	165.121	-7.173	1.00	81.26	IS9	ATOM	8198	CA	GLY	23	248.873	169.819	-13.784	1.00121.84	IS	
ATOM	8146	C	VAL	16	240.611	168.515	-5.535	1.00	78.74	IS9	ATOM	8199	C	GLY	23	250.591	168.886	-13.445	1.00121.84	IS	
ATOM	8147	O	VAL	16	239.597	169.207	-5.641	1.00	78.74	IS9	ATOM	8200	O	GLY	23	250.359	168.832	-12.163	1.00100.72	IS	
ATOM	8148	N	PHE	17	241.815	169.023	-5.282	1.00	89.82	IS9	ATOM	8201	N	LYS	24	250.359	168.832	-12.163	1.00100.72	IS	
ATOM	8149	CA	PHE	17	242.050	170.457	-5.131	1.00	89.82	IS9	ATOM	8202	CA	LYS	24	251.428	167.969	-11.692	1.00100.72	IS	
ATOM	8150	CB	PHE	17	242.894	170.722	-3.888	1.00	84.83	IS9	ATOM	8203	CB	LYS	24	252.357	168.733	-10.745	1.00128.44	IS	
ATOM	8151	CG	PHE	17	242.125	170.656	-2.604	1.00	84.83	IS9	ATOM	8204	CG	LYS	24	253.153	169.829	-11.435	1.00128.44	IS	
ATOM	8152	CD1	PHE	17	242.524	169.798	-1.585	1.00	84.83	IS9	ATOM	8205	CD	LYS	24	254.078	170.555	-10.472	1.00128.44	IS	
ATOM	8153	CD2	PHE	17	241.023	171.482	-2.396	1.00	84.83	IS9	ATOM	8206	CE	LYS	24	254.874	171.636	-11.195	1.00128.44	IS	
ATOM	8154	CE1	PHE	17	241.838	169.767	-0.373	1.00	84.83	IS9	ATOM	8207	NZ	LYS	24	255.789	172.368	-10.275	1.00128.44	IS	
ATOM	8155	CE2	PHE	17	240.328	171.461	-1.189	1.00	84.83	IS9	ATOM	8208	C	LYS	24	250.802	166.780	-10.978	1.00100.72	IS	
ATOM	8156	CZ	PHE	17	240.737	170.603	-0.175	1.00	84.83	IS9	ATOM	8209	O	LYS	24	251.297	165.658	-11.065	1.00100.72	IS	
ATOM	8157	C	PHE	17	242.767	171.016	-6.350	1.00	89.82	IS9	ATOM	8210	N	VAL	25	249.704	167.025	-10.276	1.00	92.09	IS
ATOM	8158	O	PHE	17	243.985	170.895	-6.481	1.00	89.82	IS9	ATOM	8211	CA	VAL	25	249.019	165.952	-9.573	1.00	92.09	IS
ATOM	8159	N	LEU	18	242.010	171.619	-7.253	1.00	96.65	IS9	ATOM	8212	CB	VAL	25	248.605	164.839	-10.550	1.00	61.92	IS
ATOM	8160	CA	LEU	18	242.613	172.187	-8.439	1.00	96.65	IS9	ATOM	8213	CG1	VAL	25	247.784	163.804	-9.823	1.00	61.92	IS
ATOM	8161	CB	LEU	18	241.570	172.387	-9.533	1.00	80.30	IS9	ATOM	8214	CG2	VAL	25	247.822	165.430	-11.710	1.00	61.92	IS
ATOM	8162	CG	LEU	18	241.073	171.087	-10.157	1.00	80.30	IS9	ATOM	8215	C	VAL	25	249.895	165.337	-8.489	1.00	92.09	IS
ATOM	8163	CD1	LEU	18	240.287	171.387	-11.432	1.00	80.30	IS9	ATOM	8216	O	VAL	25	250.967	164.797	-8.768	1.00	92.09	IS
ATOM	8164	CD2	LEU	18	242.269	170.200	-10.473	1.00	80.30	IS9	ATOM	8217	N	THR	26	249.429	165.409	-7.249	1.00111.47	IS	
ATOM	8165	C	LEU	18	243.279	173.514	-8.126	1.00	96.65	IS9	ATOM	8218	CA	THR	26	250.193	164.856	-6.146	1.00111.47	IS	
ATOM	8166	O	LEU	18	242.875	174.236	-7.211	1.00	96.65	IS9	ATOM	8219	CB	THR	26	250.894	165.975	-5.370	1.00	77.38	IS
ATOM	8167	N	ARG	19	244.314	173.827	-8.890	1.00110.58	IS9	IS9	ATOM	8220	CG1	THR	26	251.638	166.782	-6.290	1.00	77.38	IS
ATOM	8168	CA	ARG	19	245.044	175.066	-8.715	1.00110.58	IS9	IS9	ATOM	8221	CG2	THR	26	249.316	164.020	-5.222	1.00111.47	IS	
ATOM	8169	CB	ARG	19	246.239	174.838	-7.783	1.00122.80	IS9	IS9	ATOM	8222	C	THR	26	248.769	162.963	-5.808	1.00111.47	IS	
ATOM	8170	CG	ARG	19	245.862	174.358	-6.413	1.00122.80	IS9	IS9	ATOM	8223	O	THR	26	249.138	164.313	-4.035	1.00111.47	IS	
ATOM	8171	CD	ARG	19	247.064	174.285	-5.491	1.00122.80	IS9	IS9	ATOM	8224	N	VAL	27	248.769	162.963	-5.808	1.00111.47	IS	
ATOM	8172	NE	ARG	19	246.688	173.902	-4.133	1.00122.80	IS9	IS9	ATOM	8225	CA	VAL	27	247.912	162.008	-5.121	1.00	52.14	IS
ATOM	8173	CZ	ARG	19	246.888	173.902	-4.133	1.00122.80	IS9	IS9	ATOM	8226	CB	VAL	27	247.912	162.008	-5.121	1.00	52.14	IS
ATOM	8174	NH1	ARG	19	247.527	173.888	-3.101	1.00122.80	IS9	IS9	ATOM	8227	CG1	VAL	27	247.587	160.826	-6.060	1.00	76.18	IS
ATOM	8175	NH2	ARG	19	248.797	174.235	-3.268	1.00122.80	IS9	IS9	ATOM	8228	CG2	VAL	27	246.676	159.832	-5.361	1.00	76.18	IS
ATOM	8176	C	ARG	19	247.095	173.532	-1.898	1.00122.80	IS9	IS9	ATOM	8229	C	VAL	27	246.945	161.350	-7.339	1.00	76.18	IS
ATOM	8177	O	ARG	19	245.532	175.476	-10.085	1.00110.58	IS9	IS9	ATOM	8230	N	VAL	27	248.533	161.450	-3.833	1.00	52.14	IS
ATOM	8178	N	PRO	20	246.064	174.657	-10.830	1.00110.58	IS9	IS9	ATOM	8231	O	VAL	27	249.543	160.753	-3.872	1.00	52.14	IS
ATOM	8179	CD	PRO	20	245.344	176.748	-10.448	1.00103.59	IS9	IS9	ATOM	8232	CA	ASN	28	247.911	161.757	-2.700	1.00	69.78	IS
ATOM	8180	CA	PRO	20	244.869	177.905	-9.668	1.00100.57	IS9	IS9	ATOM	8233	CB	ASN	28	248.388	161.277	-1.412	1.00	69.78	IS
ATOM	8180	CA	PRO	20	245.815	177.161	-11.770	1.00103.59	IS9	IS9	ATOM	8233	CB	ASN	28	248.053	159.796	-1.247	1.00	87.89	IS

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ATOM	8234	CG	ASN	28	246.704	159.579	-0.609	1.00	87.89	IS9	ATOM	8287	O	GLU	34	253.121	155.105	-7.348	1.00	90.10	IS
ATOM	8235	OD1	ASN	28	245.716	160.200	-0.996	1.00	87.89	IS9	ATOM	8288	N	TYR	35	251.746	156.884	-7.246	1.00101	.56	IS
ATOM	8236	ND2	ASN	28	246.653	158.691	0.375	1.00	87.89	IS9	ATOM	8289	CA	TYR	35	250.731	156.182	-6.472	1.00101	.56	IS
ATOM	8237	C	ASN	28	249.874	161.490	-1.195	1.00	69.78	IS9	ATOM	8290	CB	TYR	35	249.663	157.171	-5.976	1.00	71.64	IS
ATOM	8238	O	ASN	28	250.596	160.570	-0.813	1.00	69.78	IS9	ATOM	8291	CG	TYR	35	248.714	156.582	-4.948	1.00	71.64	IS
ATOM	8239	N	GLY	29	250.324	162.715	-1.435	1.00105	.98	IS9	ATOM	8292	CD1	TYR	35	249.204	155.985	-3.793	1.00	71.64	IS
ATOM	8240	CA	GLY	29	251.723	163.030	-1.240	1.00105	.98	IS9	ATOM	8293	CE1	TYR	35	248.350	155.396	-2.868	1.00	71.64	IS
ATOM	8241	O	GLY	29	252.620	163.539	-2.352	1.00105	.98	IS9	ATOM	8294	CD2	TYR	35	247.337	156.585	-5.151	1.00	71.64	IS
ATOM	8242	C	GLY	29	253.668	163.130	-2.608	1.00105	.98	IS9	ATOM	8295	CE2	TYR	35	246.477	156.002	-4.234	1.00	71.64	IS
ATOM	8243	N	GLN	30	252.223	161.459	-3.016	1.00	82.51	IS9	ATOM	8296	CZ	TYR	35	246.989	155.403	-3.094	1.00	71.64	IS
ATOM	8244	CA	GLN	30	253.030	160.927	-4.103	1.00	82.51	IS9	ATOM	8297	OH	TYR	35	247.161	154.769	-2.188	1.00	71.64	IS
ATOM	8245	CB	GLN	30	252.960	159.410	-4.140	1.00	88.22	IS9	ATOM	8298	C	TYR	35	250.093	155.115	-7.360	1.00101	.56	IS
ATOM	8246	CG	GLN	30	253.467	158.783	-2.885	1.00	88.22	IS9	ATOM	8299	O	TYR	35	249.424	154.199	-6.878	1.00101	.56	IS
ATOM	8247	CD	GLN	30	253.752	157.324	-3.061	1.00	88.22	IS9	ATOM	8300	N	PHE	36	250.329	155.240	-8.662	1.00	82.04	IS
ATOM	8248	OE1	GLN	30	252.864	156.547	-3.407	1.00	88.22	IS9	ATOM	8301	CA	PHE	36	249.786	154.319	-9.651	1.00	82.04	IS
ATOM	8249	NE2	GLN	30	255.001	156.933	-2.829	1.00	88.22	IS9	ATOM	8302	CB	PHE	36	248.859	155.774	-9.837	1.00	63.77	IS
ATOM	8250	C	GLN	30	252.591	161.480	-5.434	1.00	82.51	IS9	ATOM	8303	CG	PHE	36	247.714	155.774	-9.837	1.00	63.77	IS
ATOM	8251	O	GLN	30	251.494	162.019	-5.571	1.00	82.51	IS9	ATOM	8304	CD1	PHE	36	247.198	157.000	-10.261	1.00	63.77	IS
ATOM	8252	N	ASP	31	253.460	161.345	-6.420	1.00	83.92	IS9	ATOM	8305	CD2	PHE	36	247.159	155.174	-8.698	1.00	63.77	IS
ATOM	8253	CA	ASP	31	253.149	161.846	-7.736	1.00	83.92	IS9	ATOM	8306	CE1	PHE	36	246.151	157.618	-9.556	1.00	63.77	IS
ATOM	8254	CB	ASP	31	254.421	161.943	-8.565	1.00112	.15	IS9	ATOM	8307	CE2	PHE	36	246.116	155.784	-7.992	1.00	63.77	IS
ATOM	8255	CG	ASP	31	254.300	162.944	-9.677	1.00112	.15	IS9	ATOM	8308	CZ	PHE	36	245.613	157.008	-8.422	1.00	63.77	IS
ATOM	8256	OD1	ASP	31	253.420	162.757	-10.546	1.00112	.15	IS9	ATOM	8309	C	PHE	36	250.887	153.589	-10.435	1.00	82.04	IS
ATOM	8257	OD2	ASP	31	255.079	163.922	-9.673	1.00112	.15	IS9	ATOM	8310	O	PHE	36	251.176	152.414	-10.176	1.00	82.04	IS
ATOM	8258	C	ASP	31	252.163	160.891	-8.387	1.00	83.92	IS9	ATOM	8311	N	GLN	37	251.504	154.275	-11.387	1.00128	.15	IS
ATOM	8259	O	ASP	31	252.251	159.680	-8.197	1.00	83.92	IS9	ATOM	8312	CA	GLN	37	252.584	153.677	-12.170	1.00128	.15	IS
ATOM	8260	N	PHE	32	251.218	161.439	-9.143	1.00104	.42	IS9	ATOM	8313	CB	GLN	37	253.722	153.232	-11.245	1.00114	.38	IS
ATOM	8261	CA	PHE	32	249.210	160.635	-9.827	1.00	88.24	IS9	ATOM	8314	CG	GLN	37	254.752	152.333	-11.920	1.00114	.38	IS
ATOM	8262	CB	PHE	32	248.412	160.808	-11.601	1.00	88.24	IS9	ATOM	8316	OE1	GLN	37	255.803	151.821	-9.840	1.00114	.38	IS
ATOM	8263	CG	PHE	32	248.412	160.808	-11.601	1.00	88.24	IS9	ATOM	8317	NE2	GLN	37	257.060	151.833	-11.384	1.00114	.38	IS
ATOM	8264	CD1	PHE	32	247.241	160.710	-10.859	1.00	88.24	IS9	ATOM	8318	C	GLN	37	252.164	152.493	-13.031	1.00128	.15	IS
ATOM	8265	CE1	PHE	32	248.417	160.354	-12.913	1.00	88.24	IS9	ATOM	8320	N	GLY	38	251.921	151.318	-12.411	1.00102	.84	IS
ATOM	8266	CE2	PHE	32	246.094	160.174	-11.414	1.00	88.24	IS9	ATOM	8321	CA	GLY	38	251.729	150.117	-13.138	1.00102	.84	IS
ATOM	8267	CE2	PHE	32	247.270	159.813	-13.481	1.00	88.24	IS9	ATOM	8322	C	GLY	38	250.338	150.118	-13.743	1.00102	.84	IS
ATOM	8268	CZ	PHE	32	246.104	159.723	-12.730	1.00	88.24	IS9	ATOM	8323	O	GLY	38	250.171	149.960	-14.952	1.00102	.84	IS
ATOM	8269	C	PHE	32	250.815	159.339	-10.344	1.00104	.42	IS9	ATOM	8324	N	LEU	39	249.336	150.301	-12.895	1.00	71.55	IS
ATOM	8271	N	ASN	33	251.844	159.482	-11.169	1.00	64.50	IS9	ATOM	8325	CA	LEU	39	247.948	150.299	-13.325	1.00	71.55	IS
ATOM	8272	CA	ASN	33	252.530	158.350	-11.765	1.00	64.50	IS9	ATOM	8326	CB	LEU	39	247.096	150.897	-12.211	1.00	66.72	IS
ATOM	8273	CG	ASN	33	253.390	158.836	-12.933	1.00100	.56	IS9	ATOM	8327	CG	LEU	39	247.534	150.361	-9.763	1.00	66.72	IS
ATOM	8274	CB	ASN	33	252.574	159.557	-13.996	1.00100	.56	IS9	ATOM	8328	CD1	LEU	39	246.623	150.910	-10.850	1.00	66.72	IS
ATOM	8275	OD1	ASN	33	251.765	160.433	-13.686	1.00100	.56	IS9	ATOM	8329	CD2	LEU	39	247.697	151.035	-14.640	1.00	71.55	IS
ATOM	8276	ND2	ASN	33	252.790	159.196	-15.256	1.00100	.56	IS9	ATOM	8330	C	LEU	39	247.690	152.258	-14.674	1.00	71.55	IS
ATOM	8277	C	ASN	33	253.382	157.607	-10.745	1.00	64.50	IS9	ATOM	8331	N	VAL	40	247.484	150.867	-17.032	1.00	66.27	IS
ATOM	8278	O	ASN	33	254.290	156.864	-11.105	1.00	64.50	IS9	ATOM	8332	N	VAL	40	247.229	150.867	-17.032	1.00	66.27	IS
ATOM	8279	N	GLU	34	253.094	157.806	-9.468	1.00	90.10	IS9	ATOM	8333	CA	VAL	40	246.921	149.793	-18.098	1.00	63.49	IS
ATOM	8280	CA	GLU	34	253.841	157.119	-8.432	1.00	90.10	IS9	ATOM	8334	CB	VAL	40	246.765	150.451	-19.455	1.00	63.49	IS
ATOM	8281	CG	GLU	34	254.553	158.119	-7.522	1.00147	.20	IS9	ATOM	8335	CG1	VAL	40	248.023	148.752	-18.143	1.00	63.49	IS
ATOM	8282	CD	GLU	34	255.491	157.468	-6.517	1.00147	.20	IS9	ATOM	8336	CG2	VAL	40	246.031	151.795	-16.973	1.00	66.27	IS
ATOM	8283	CD	GLU	34	256.697	156.813	-7.173	1.00147	.20	IS9	ATOM	8337	C	VAL	40	246.066	152.907	-17.493	1.00	66.27	IS
ATOM	8284	OE1	GLU	34	256.505	156.020	-8.120	1.00147	.20	IS9	ATOM	8338	O	VAL	40	244.966	151.321	-16.338	1.00	82.30	IS
ATOM	8285	OE2	GLU	34	257.834	157.088	-6.732	1.00147	.20	IS9	ATOM	8339	N	ARG	41						IS
ATOM	8286	C	GLU	34	252.868	156.279	-7.620	1.00	90.10	IS9											IS

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ATOM	8340	CA	ARG	41	243.729	152.080	-16.200	1.00	82.30	IS9	ATOM	8393	CG	PRO	48	238.512	164.183	-15.322	1.00	69.26	I
ATOM	8341	CB	ARG	41	242.797	151.343	-15.236	1.00	75.15	IS9	ATOM	8394	C	PRO	48	238.622	166.327	-17.728	1.00	80.57	I
ATOM	8342	CG	ARG	41	241.358	151.826	-15.220	1.00	75.15	IS9	ATOM	8395	O	PRO	48	238.057	167.312	-18.208	1.00	80.57	I
ATOM	8343	CD	ARG	41	240.568	151.050	-14.176	1.00	75.15	IS9	ATOM	8396	N	LEU	49	239.921	166.300	-17.440	1.00	65.78	I
ATOM	8344	NE	ARG	41	239.164	151.443	-14.146	1.00	75.15	IS9	ATOM	8397	CA	LEU	49	240.796	167.443	-17.703	1.00	65.78	I
ATOM	8345	CZ	ARG	41	238.709	152.602	-13.675	1.00	75.15	IS9	ATOM	8398	CB	LEU	49	242.153	167.270	-17.025	1.00	72.46	I
ATOM	8346	NH1	ARG	41	239.548	153.507	-13.180	1.00	75.15	IS9	ATOM	8399	CG	LEU	49	242.331	167.835	-15.623	1.00	72.46	I
ATOM	8347	NH2	ARG	41	237.405	152.857	-13.708	1.00	75.15	IS9	ATOM	8400	CD1	LEU	49	243.760	167.589	-15.174	1.00	72.46	I
ATOM	8348	C	ARG	41	233.993	153.494	-15.683	1.00	82.30	IS9	ATOM	8401	CD2	LEU	49	242.010	167.323	-15.624	1.00	72.46	I
ATOM	8349	O	ARG	41	243.323	154.453	-16.078	1.00	82.30	IS9	ATOM	8402	C	LEU	49	241.026	167.562	-19.198	1.00	65.78	I
ATOM	8350	N	ALA	42	244.985	153.605	-14.805	1.00	69.88	IS9	ATOM	8403	O	LEU	49	240.817	166.619	-19.778	1.00	65.78	I
ATOM	8351	CA	ALA	42	245.353	154.871	-14.184	1.00	69.88	IS9	ATOM	8404	N	ARG	50	241.470	166.468	-19.808	1.00	85.71	I
ATOM	8352	CB	ALA	42	246.789	154.809	-13.699	1.00	72.28	IS9	ATOM	8405	CA	ARG	50	241.724	166.429	-21.240	1.00	85.71	I
ATOM	8353	C	ALA	42	245.149	156.116	-15.033	1.00	69.88	IS9	ATOM	8406	CB	ARG	50	242.053	165.002	-21.679	1.00	143.32	I
ATOM	8354	O	ALA	42	244.500	157.063	-14.594	1.00	69.88	IS9	ATOM	8407	CG	ARG	50	243.279	164.409	-21.024	1.00	143.32	I
ATOM	8355	N	VAL	43	245.699	156.130	-16.240	1.00	62.91	IS9	ATOM	8408	CD	ARG	50	243.299	162.895	-21.192	1.00	143.32	I
ATOM	8356	CA	VAL	43	245.551	157.305	-17.097	1.00	62.91	IS9	ATOM	8409	NE	ARG	50	244.455	162.294	-20.533	1.00	143.32	I
ATOM	8357	CB	VAL	43	245.784	156.970	-18.583	1.00	104.62	IS9	ATOM	8410	CZ	ARG	50	245.654	162.159	-21.093	1.00	143.32	I
ATOM	8358	CG1	VAL	43	245.627	158.235	-19.422	1.00	104.62	IS9	ATOM	8411	NH1	ARG	50	245.862	162.575	-22.338	1.00	143.32	I
ATOM	8359	CG2	VAL	43	247.173	156.363	-18.774	1.00	104.62	IS9	ATOM	8412	NH2	ARG	50	246.650	161.614	-20.403	1.00	143.32	I
ATOM	8360	C	VAL	43	244.165	157.924	-16.959	1.00	62.91	IS9	ATOM	8413	C	ARG	50	240.495	166.905	-22.004	1.00	85.71	I
ATOM	8361	O	VAL	43	244.015	158.984	-16.355	1.00	62.91	IS9	ATOM	8414	O	ARG	50	240.609	167.487	-23.083	1.00	85.71	I
ATOM	8362	N	ALA	44	243.157	157.261	-17.515	1.00	85.16	IS9	ATOM	8415	N	ALA	51	239.319	166.652	-21.437	1.00	75.79	I
ATOM	8363	CA	ALA	44	241.793	157.766	-17.433	1.00	85.16	IS9	ATOM	8416	CA	ALA	51	238.064	167.037	-22.072	1.00	75.79	I
ATOM	8364	CB	ALA	44	240.821	156.742	-17.980	1.00	82.88	IS9	ATOM	8417	CB	ALA	51	236.896	166.554	-21.249	1.00	36.04	I
ATOM	8365	C	ALA	44	241.488	158.056	-15.974	1.00	85.16	IS9	ATOM	8418	C	ALA	51	237.958	168.532	-22.269	1.00	75.79	I
ATOM	8366	O	ALA	44	241.247	157.147	-15.185	1.00	85.16	IS9	ATOM	8419	O	ALA	51	237.370	168.994	-22.234	1.00	75.79	I
ATOM	8367	N	ALA	45	241.519	159.335	-15.633	1.00	96.59	IS9	ATOM	8420	N	VAL	52	238.531	169.284	-21.334	1.00	120.34	I
ATOM	8368	CA	ALA	45	241.282	159.816	-14.278	1.00	96.59	IS9	ATOM	8421	CA	VAL	52	238.487	170.737	-21.390	1.00	120.34	I
ATOM	8369	CB	ALA	45	242.320	159.246	-13.313	1.00	94.42	IS9	ATOM	8422	CB	VAL	52	237.470	171.280	-20.355	1.00	65.87	I
ATOM	8370	C	ALA	45	241.496	161.304	-14.429	1.00	96.59	IS9	ATOM	8423	CG1	VAL	52	236.689	172.435	-20.942	1.00	65.87	I
ATOM	8371	O	ALA	45	241.124	162.109	-13.571	1.00	96.59	IS9	ATOM	8424	CG2	VAL	52	236.522	170.181	-19.936	1.00	65.87	I
ATOM	8372	N	LEU	46	242.120	161.642	-15.551	1.00	61.20	IS9	ATOM	8425	C	VAL	52	239.866	171.376	-21.151	1.00	120.34	I
ATOM	8373	CA	LEU	46	242.438	163.010	-15.902	1.00	61.20	IS9	ATOM	8426	O	VAL	52	239.961	172.492	-20.641	1.00	120.34	I
ATOM	8374	CB	LEU	46	243.950	163.170	-16.047	1.00	50.36	IS9	ATOM	8427	N	ASP	53	240.926	170.654	-21.517	1.00	87.73	I
ATOM	8375	CG	LEU	46	244.739	162.707	-14.813	1.00	50.36	IS9	ATOM	8428	CA	ASP	53	242.321	171.121	-21.388	1.00	87.73	I
ATOM	8376	CD1	LEU	46	246.194	162.428	-15.198	1.00	50.36	IS9	ATOM	8429	CB	ASP	53	242.440	172.477	-22.077	1.00	136.92	I
ATOM	8377	CD2	LEU	46	244.630	163.756	-13.703	1.00	50.36	IS9	ATOM	8430	CG	ASP	53	242.051	172.402	-23.546	1.00	136.92	I
ATOM	8378	C	LEU	46	241.752	163.294	-17.218	1.00	61.20	IS9	ATOM	8431	OD1	ASP	53	242.820	172.889	-24.401	1.00	136.92	I
ATOM	8379	O	LEU	46	241.910	164.371	-17.785	1.00	61.20	IS9	ATOM	8432	OD2	ASP	53	242.975	171.915	-19.103	1.00	87.73	I
ATOM	8380	N	GLU	47	240.993	162.318	-17.713	1.00	75.38	IS9	ATOM	8433	C	ASP	53	242.597	171.915	-19.103	1.00	87.73	I
ATOM	8381	CA	GLU	47	240.277	162.523	-18.959	1.00	75.38	IS9	ATOM	8434	O	ASP	53	244.982	170.288	-18.826	1.00	112.03	I
ATOM	8382	CB	GLU	47	239.469	161.286	-19.355	1.00	158.92	IS9	ATOM	8435	N	ALA	54	244.710	170.128	-18.570	1.00	112.03	I
ATOM	8383	CG	GLU	47	238.739	161.474	-20.682	1.00	158.92	IS9	ATOM	8436	CA	ALA	54	244.855	168.640	-18.262	1.00	123.81	I
ATOM	8384	CD	GLU	47	237.978	160.241	-21.134	1.00	158.92	IS9	ATOM	8437	CB	ALA	54	246.090	170.755	-18.549	1.00	112.03	I
ATOM	8385	OE1	GLU	47	237.181	159.704	-22.336	1.00	158.92	IS9	ATOM	8438	C	ALA	54	246.685	170.860	-17.352	1.00	115.61	I
ATOM	8386	OE2	GLU	47	238.171	159.814	-22.294	1.00	75.38	IS9	ATOM	8439	O	ALA	54	247.999	171.476	-17.121	1.00	101.01	I
ATOM	8387	C	GLU	47	239.348	163.724	-18.791	1.00	75.38	IS9	ATOM	8440	N	LEU	55	249.113	170.675	-17.807	1.00	101.01	I
ATOM	8388	O	GLU	47	238.732	163.887	-17.602	1.00	80.57	IS9	ATOM	8441	CA	LEU	55	250.598	171.016	-17.556	1.00	101.01	I
ATOM	8389	N	PRO	48	238.832	163.130	-16.340	1.00	69.26	IS9	ATOM	8442	CB	LEU	55	250.797	172.520	-17.513	1.00	101.01	I
ATOM	8390	CD	PRO	48	237.848	165.043	-17.437	1.00	69.26	IS9	ATOM	8443	CG	LEU	55	251.082	170.382	-16.261	1.00	101.01	I
ATOM	8391	CB	PRO	48	237.393	164.928	-15.980	1.00	69.26	IS9	ATOM	8444	CD1	LEU	55						I
ATOM	8392	CB	PRO	48						IS9	ATOM	8445	CD2	LEU	55						I

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ATOM	8446	C	LEU	55	247.975	172.895	-17.673	1.00115.61	IS9	ATOM	8499	N	ILE	62	245.802	166.210	-4.665	1.00	81.51	IS	
ATOM	8447	O	LEU	55	248.018	173.865	-16.912	1.00115.61	IS9	ATOM	8500	CA	ILE	62	244.779	165.203	-4.419	1.00	81.51	IS	
ATOM	8448	N	GLY	56	247.929	172.998	-19.002	1.00122.86	IS9	ATOM	8501	CB	ILE	62	244.584	164.339	-5.694	1.00	100.91	IS	
ATOM	8449	CA	GLY	56	247.861	174.287	-19.668	1.00122.86	IS9	ATOM	8502	CG2	ILE	62	243.662	163.168	-5.410	1.00	100.91	IS	
ATOM	8450	C	GLY	56	246.523	174.868	-19.272	1.00122.86	IS9	ATOM	8503	CG1	ILE	62	244.017	165.202	-6.824	1.00	100.91	IS	
ATOM	8451	O	GLY	56	245.788	175.451	-20.072	1.00122.86	IS9	ATOM	8504	CD1	ILE	62	243.939	164.492	-8.159	1.00	100.91	IS	
ATOM	8452	N	ARG	57	246.239	174.663	-17.993	1.00152.01	IS9	ATOM	8505	C	ILE	62	245.014	164.269	-3.236	1.00	81.51	IS	
ATOM	8453	CA	ARG	57	245.043	175.072	-17.293	1.00152.01	IS9	ATOM	8506	O	ILE	62	246.157	163.946	-2.891	1.00	81.51	IS	
ATOM	8454	CB	ARG	57	243.781	174.843	-18.144	1.00113.73	IS9	ATOM	8507	N	THR	63	243.901	163.842	-2.635	1.00	88.77	IS	
ATOM	8455	CG	ARG	57	243.357	176.035	-19.011	1.00113.73	IS9	ATOM	8508	CA	THR	63	243.894	162.916	-1.503	1.00	88.77	IS	
ATOM	8456	CD	ARG	57	242.742	177.153	-18.184	1.00113.73	IS9	ATOM	8509	CB	THR	63	243.466	163.612	-0.197	1.00	100.91	IS	
ATOM	8457	NE	ARG	57	243.523	177.431	-16.983	1.00113.73	IS9	ATOM	8510	OG1	THR	63	244.437	164.600	0.164	1.00	100.91	IS	
ATOM	8458	CZ	ARG	57	243.296	178.448	-16.160	1.00113.73	IS9	ATOM	8511	CG2	THR	63	243.335	162.591	0.927	1.00	100.91	IS	
ATOM	8459	NH1	ARG	57	242.308	179.293	-16.411	1.00113.73	IS9	ATOM	8512	C	THR	63	242.887	161.793	-1.773	1.00	88.77	IS	
ATOM	8460	NH2	ARG	57	244.052	178.616	-15.082	1.00113.73	IS9	ATOM	8513	O	THR	63	241.810	162.047	-2.319	1.00	88.77	IS	
ATOM	8461	C	ARG	57	245.020	174.165	-16.064	1.00152.01	IS9	ATOM	8514	N	VAL	64	243.240	160.564	-1.389	1.00	60.09	IS	
ATOM	8462	O	ARG	57	244.713	172.974	-16.164	1.00152.01	IS9	ATOM	8515	CA	VAL	64	242.367	159.401	-1.568	1.00	60.09	IS	
ATOM	8463	N	PHE	58	245.380	174.730	-14.916	1.00	92.72	IS9	ATOM	8516	CB	VAL	64	242.753	158.555	-2.799	1.00	56.96	IS
ATOM	8464	CA	PHE	58	245.383	174.014	-13.641	1.00	92.72	IS9	ATOM	8517	CG1	VAL	64	242.353	159.269	-4.084	1.00	56.96	IS
ATOM	8465	CB	PHE	58	244.050	173.287	-13.398	1.00	81.67	IS9	ATOM	8518	CG2	VAL	64	244.241	158.266	-2.781	1.00	56.96	IS
ATOM	8466	CG	PHE	58	242.836	174.098	-13.722	1.00	81.67	IS9	ATOM	8519	C	VAL	64	242.418	158.470	-0.372	1.00	60.09	IS
ATOM	8467	CD1	PHE	58	242.369	174.184	-15.029	1.00	81.67	IS9	ATOM	8520	O	VAL	64	243.489	158.046	0.044	1.00	60.09	IS
ATOM	8468	CE1	PHE	58	242.153	174.775	-12.722	1.00	81.67	IS9	ATOM	8521	N	ARG	65	241.253	158.146	0.172	1.00	76.15	IS
ATOM	8469	CE2	PHE	58	241.019	175.529	-13.023	1.00	81.67	IS9	ATOM	8522	CA	ARG	65	241.157	157.246	2.578	1.00	100.38.65	IS
ATOM	8470	CZ	PHE	58	240.564	175.605	-14.341	1.00	81.67	IS9	ATOM	8523	CB	ARG	65	240.790	158.025	2.578	1.00	100.38.65	IS
ATOM	8471	C	PHE	58	246.480	172.991	-13.401	1.00	92.72	IS9	ATOM	8524	CG	ARG	65	241.787	159.079	3.010	1.00	100.38.65	IS
ATOM	8472	O	PHE	58	247.086	172.434	-14.317	1.00	92.72	IS9	ATOM	8525	CD	ARG	65	241.143	160.014	4.031	1.00	100.38.65	IS
ATOM	8473	C	PHE	58	246.679	172.757	-12.114	1.00	101.90	IS9	ATOM	8526	NE	ARG	65	241.957	160.204	5.229	1.00	100.38.65	IS
ATOM	8474	N	ASP	59	249.574	172.168	-8.605	1.00166.25	IS9	ATOM	8527	CZ	ARG	65	242.229	159.247	6.112	1.00	100.38.65	IS	
ATOM	8475	CA	ASP	59	247.614	171.802	-11.551	1.00101.90	IS9	ATOM	8528	NH1	ARG	65	241.753	158.019	5.937	1.00	100.38.65	IS	
ATOM	8476	CB	ASP	59	248.726	172.528	-10.798	1.00166.25	IS9	ATOM	8529	NH2	ARG	65	242.978	159.517	7.174	1.00	100.38.65	IS	
ATOM	8477	CG	ASP	59	249.363	171.666	-9.733	1.00166.25	IS9	ATOM	8530	C	ARG	65	240.060	156.217	1.041	1.00	76.15	IS	
ATOM	8478	OD1	ASP	59	249.655	170.486	-10.028	1.00166.25	IS9	ATOM	8531	O	ARG	65	238.951	156.579	0.612	1.00	76.15	IS	
ATOM	8479	OD2	ASP	59	249.574	172.168	-8.605	1.00166.25	IS9	ATOM	8532	N	GLY	66	240.368	154.942	1.268	1.00	62.13	IS	
ATOM	8480	C	ASP	59	246.661	171.131	-10.574	1.00101.90	IS9	ATOM	8533	CA	GLY	66	239.373	153.898	1.072	1.00	62.13	IS	
ATOM	8481	O	ASP	59	245.530	171.598	-10.424	1.00101.90	IS9	ATOM	8534	C	GLY	66	239.293	153.168	-0.261	1.00	62.13	IS	
ATOM	8482	N	ALA	60	247.065	170.064	-9.898	1.00	78.64	IS9	ATOM	8535	O	GLY	66	239.581	153.713	-1.323	1.00	62.13	IS
ATOM	8483	CA	ALA	60	246.111	169.447	-8.985	1.00	78.64	IS9	ATOM	8536	N	GLY	67	238.873	151.912	-0.190	1.00	62.15	IS
ATOM	8484	CB	ALA	60	245.163	168.532	-9.769	1.00	47.96	IS9	ATOM	8537	CA	GLY	67	238.741	151.105	-1.380	1.00	62.15	IS
ATOM	8485	C	ALA	60	246.684	168.698	-7.798	1.00	78.64	IS9	ATOM	8538	C	GLY	67	240.055	150.571	-1.904	1.00	62.15	IS
ATOM	8486	O	ALA	60	247.554	167.838	-7.933	1.00	78.64	IS9	ATOM	8539	O	GLY	67	240.843	149.972	-1.182	1.00	62.15	IS
ATOM	8487	N	TYR	61	246.600	168.391	-5.402	1.00	94.91	IS9	ATOM	8540	N	GLY	68	240.279	150.777	-3.190	1.00	62.65	IS
ATOM	8488	CA	TYR	61	246.600	168.391	-5.402	1.00	94.91	IS9	ATOM	8541	CA	GLY	68	241.498	150.314	-3.816	1.00	62.65	IS
ATOM	8489	CB	TYR	61	246.760	169.417	-4.285	1.00	55.80	IS9	ATOM	8542	C	GLY	68	241.767	151.237	-4.980	1.00	62.65	IS
ATOM	8490	CG	TYR	61	247.199	168.810	-2.980	1.00	55.80	IS9	ATOM	8543	O	GLY	68	240.863	151.931	-5.456	1.00	62.65	IS
ATOM	8491	CD1	TYR	61	248.381	168.083	-2.893	1.00	55.80	IS9	ATOM	8544	N	LYS	69	243.014	151.274	-5.426	1.00	68.84	IS
ATOM	8492	CE1	TYR	61	248.774	167.513	-1.689	1.00	55.80	IS9	ATOM	8545	CA	LYS	69	243.014	151.274	-5.426	1.00	68.84	IS
ATOM	8493	CD2	TYR	61	246.422	168.955	-1.830	1.00	55.80	IS9	ATOM	8546	CB	LYS	69	244.866	151.895	-6.837	1.00	66.81	IS
ATOM	8494	CE2	TYR	61	246.804	168.392	-0.625	1.00	55.80	IS9	ATOM	8547	CG	LYS	69	245.715	152.145	-5.588	1.00	66.81	IS
ATOM	8495	CZ	TYR	61	247.975	167.672	-0.559	1.00	55.80	IS9	ATOM	8548	CD	LYS	69	247.191	151.829	-5.770	1.00	66.81	IS
ATOM	8496	OH	TYR	61	248.327	167.089	0.632	1.00	55.80	IS9	ATOM	8549	CE	LYS	69	247.949	152.172	-4.490	1.00	66.81	IS
ATOM	8497	C	TYR	61	245.465	167.422	-5.103	1.00	94.91	IS9	ATOM	8550	N2	LYS	69	249.415	151.909	-4.552	1.00	66.81	IS
ATOM	8498	O	TYR	61	244.294	167.770	-5.273	1.00	94.91	IS9	ATOM	8551	C	LYS	69	242.475	151.646	-7.684	1.00	68.84	IS

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ATOM	8552	O	LYS	69	242.015	150.513	-7.663	1.00	68.84	IS9	ATOM	8605	CD	LYS	77	237.503	159.528	-14.931	1.00	94.75	IS
ATOM	8553	N	SER	70	242.201	152.512	-8.654	1.00	72.37	IS9	ATOM	8606	CE	LYS	77	236.133	158.868	-14.814	1.00	94.75	IS
ATOM	8554	CA	SER	70	241.290	152.190	-9.774	1.00	72.37	IS9	ATOM	8607	NZ	LYS	77	235.561	158.527	-16.150	1.00	94.75	IS
ATOM	8555	CB	SER	70	241.362	150.709	-10.199	1.00	60.95	IS9	ATOM	8608	O	LYS	77	236.559	162.577	-11.450	1.00	63.16	IS
ATOM	8556	CG	SER	70	240.279	149.954	-9.680	1.00	60.95	IS9	ATOM	8609	C	LYS	77	235.428	163.693	-11.967	1.00	63.16	IS
ATOM	8557	C	SER	70	239.889	152.524	-9.269	1.00	72.37	IS9	ATOM	8610	N	LEU	78	235.712	162.089	-10.548	1.00	92.21	IS
ATOM	8558	O	SER	70	239.046	153.037	-10.006	1.00	72.37	IS9	ATOM	8611	CA	LEU	78	234.563	162.861	-10.108	1.00	92.21	IS
ATOM	8559	N	GLY	71	239.642	152.210	-8.004	1.00	53.92	IS9	ATOM	8612	CB	LEU	78	233.779	162.111	-9.034	1.00	49.65	IS
ATOM	8560	CA	GLY	71	238.378	152.565	-7.420	1.00	53.92	IS9	ATOM	8613	CG	LEU	78	232.268	162.007	-9.289	1.00	49.65	IS
ATOM	8561	C	GLY	71	238.624	154.038	-7.158	1.00	53.92	IS9	ATOM	8614	CD	LEU	78	231.603	161.589	-7.982	1.00	49.65	IS
ATOM	8562	O	GLY	71	237.792	154.901	-7.454	1.00	53.92	IS9	ATOM	8615	CD2	LEU	78	231.688	163.329	-9.803	1.00	49.65	IS
ATOM	8563	N	GLN	72	239.809	154.319	-6.621	1.00	63.76	IS9	ATOM	8616	C	LEU	78	235.029	164.188	-9.554	1.00	92.21	IS
ATOM	8564	CA	GLN	72	240.221	155.680	-6.316	1.00	63.76	IS9	ATOM	8617	O	LEU	78	234.520	165.240	-9.942	1.00	92.21	IS
ATOM	8565	CB	GLN	72	241.532	155.658	-5.538	1.00	49.42	IS9	ATOM	8618	N	GLY	79	235.996	164.133	-8.641	1.00	71.96	IS
ATOM	8566	CG	GLN	72	241.464	154.750	-4.323	1.00	49.42	IS9	ATOM	8619	CA	GLY	79	236.520	165.355	-8.063	1.00	71.96	IS
ATOM	8567	CD	GLN	72	242.729	154.780	-3.487	1.00	49.42	IS9	ATOM	8620	C	GLY	79	236.937	166.307	-9.167	1.00	71.96	IS
ATOM	8568	OE1	GLN	72	243.833	154.760	-4.024	1.00	49.42	IS9	ATOM	8621	O	GLY	79	236.385	167.406	-9.298	1.00	71.96	IS
ATOM	8569	NE2	GLN	72	242.572	154.810	-2.163	1.00	49.42	IS9	ATOM	8622	N	ILE	80	237.905	165.873	-9.970	1.00	57.29	IS
ATOM	8570	C	GLN	72	240.384	156.486	-7.603	1.00	63.76	IS9	ATOM	8623	CA	ILE	80	238.402	166.673	-11.077	1.00	57.29	IS
ATOM	8571	O	GLN	72	240.086	157.684	-7.640	1.00	63.76	IS9	ATOM	8624	CB	ILE	80	239.315	165.827	-12.015	1.00	47.19	IS
ATOM	8572	N	ILE	73	240.860	155.830	-8.658	1.00	61.77	IS9	ATOM	8625	CG2	ILE	80	239.580	166.570	-13.332	1.00	47.19	IS
ATOM	8573	CA	ILE	73	241.024	156.496	-9.946	1.00	61.77	IS9	ATOM	8626	CG1	ILE	80	240.636	165.530	-11.298	1.00	47.19	IS
ATOM	8574	CB	ILE	73	241.367	155.503	-11.053	1.00	49.22	IS9	ATOM	8627	CD1	ILE	80	241.713	165.004	-12.185	1.00	47.19	IS
ATOM	8575	CG2	ILE	73	241.325	156.185	-12.399	1.00	49.22	IS9	ATOM	8628	C	ILE	80	237.230	167.248	-11.857	1.00	57.29	IS
ATOM	8576	CG1	ILE	73	242.745	154.911	-10.822	1.00	49.22	IS9	ATOM	8629	O	ILE	80	237.172	168.451	-12.113	1.00	57.29	IS
ATOM	8577	CD	ILE	73	243.107	153.884	-11.885	1.00	49.22	IS9	ATOM	8630	N	ALA	81	236.286	166.389	-12.219	1.00	66.43	IS
ATOM	8578	C	ILE	73	239.702	157.141	-10.336	1.00	61.77	IS9	ATOM	8631	CA	ALA	81	235.114	166.837	-12.958	1.00	66.43	IS
ATOM	8579	O	ILE	73	239.653	158.295	-10.771	1.00	61.77	IS9	ATOM	8632	CB	ALA	81	234.438	167.980	-12.206	1.00	66.43	IS
ATOM	8580	N	ASP	74	238.628	156.373	-10.179	1.00	78.67	IS9	ATOM	8633	C	ALA	81	234.354	169.103	-12.705	1.00	66.43	IS
ATOM	8581	CA	ASP	74	237.294	156.839	-10.523	1.00	78.67	IS9	ATOM	8634	N	ARG	82	233.963	167.688	-11.003	1.00	86.57	IS
ATOM	8582	CB	ASP	74	236.294	155.685	-10.432	1.00	78.67	IS9	ATOM	8635	CA	ARG	82	233.297	168.690	-10.184	1.00	86.57	IS
ATOM	8583	CG	ASP	74	236.456	154.680	-11.560	1.00	122.45	IS9	ATOM	8636	CB	ARG	82	232.965	168.095	-8.818	1.00	92.11	IS
ATOM	8584	OD1	ASP	74	236.255	155.063	-12.734	1.00	122.45	IS9	ATOM	8637	CB	ARG	82	231.826	167.091	-8.866	1.00	92.11	IS
ATOM	8585	OD2	ASP	74	236.784	153.509	-11.273	1.00	78.67	IS9	ATOM	8638	CG	ARG	82	231.705	166.333	-7.563	1.00	92.11	IS
ATOM	8586	C	ASP	74	236.823	158.012	-9.672	1.00	78.67	IS9	ATOM	8639	CD	ARG	82	230.389	165.719	-7.416	1.00	92.11	IS
ATOM	8587	O	ASP	74	236.251	158.969	-10.195	1.00	65.67	IS9	ATOM	8640	NE	ARG	82	229.977	165.096	-6.315	1.00	92.11	IS
ATOM	8588	N	ALA	75	237.050	157.944	-8.366	1.00	65.67	IS9	ATOM	8641	CZ	ARG	82	228.787	165.002	-5.266	1.00	92.11	IS
ATOM	8589	CA	ALA	75	236.640	159.040	-7.501	1.00	65.67	IS9	ATOM	8642	NH1	ARG	82	228.750	164.588	-6.253	1.00	92.11	IS
ATOM	8590	CB	ALA	75	236.970	158.725	-6.066	1.00	27.25	IS9	ATOM	8643	NH2	ARG	82	234.140	169.952	-10.023	1.00	86.57	IS
ATOM	8591	C	ALA	75	237.398	160.280	-7.952	1.00	65.67	IS9	ATOM	8644	C	ARG	82	233.664	171.066	-10.270	1.00	86.57	IS
ATOM	8592	O	ALA	75	236.810	161.352	-8.158	1.00	65.67	IS9	ATOM	8645	O	ARG	83	235.393	169.778	-9.614	1.00	75.30	IS
ATOM	8593	N	ILE	76	238.710	160.115	-8.109	1.00	55.90	IS9	ATOM	8646	N	ALA	83	236.291	170.916	-9.436	1.00	75.30	IS
ATOM	8594	CA	ILE	76	239.571	161.196	-8.551	1.00	55.90	IS9	ATOM	8647	CA	ALA	83	237.679	170.438	-9.057	1.00	75.30	IS
ATOM	8595	CB	ILE	76	240.976	160.678	-8.896	1.00	53.00	IS9	ATOM	8648	CB	ALA	83	236.362	171.779	-10.694	1.00	75.30	IS
ATOM	8596	CG2	ILE	76	241.807	161.801	-9.490	1.00	53.00	IS9	ATOM	8649	C	ALA	83	236.825	172.912	-10.647	1.00	75.30	IS
ATOM	8597	CG1	ILE	76	243.650	160.129	-7.638	1.00	53.00	IS9	ATOM	8650	O	ALA	84	235.929	171.243	-11.827	1.00	94.98	IS
ATOM	8598	CD1	ILE	76	243.061	159.627	-7.865	1.00	53.00	IS9	ATOM	8651	N	LEU	84	235.938	172.036	-13.041	1.00	94.98	IS
ATOM	8599	C	ILE	76	238.966	161.872	-9.779	1.00	55.90	IS9	ATOM	8652	CA	LEU	84	236.071	171.157	-14.282	1.00	102.41	IS
ATOM	8600	O	ILE	76	239.074	163.084	-9.935	1.00	55.90	IS9	ATOM	8653	CB	LEU	84	237.507	171.080	-14.811	1.00	102.41	IS
ATOM	8601	N	LYS	77	238.336	161.089	-10.652	1.00	63.16	IS9	ATOM	8654	CD	LEU	84	238.343	170.195	-13.907	1.00	102.41	IS
ATOM	8602	CA	LYS	77	237.708	161.655	-11.841	1.00	63.16	IS9	ATOM	8655	CD1	LEU	84	237.510	170.544	-16.231	1.00	102.41	IS
ATOM	8603	CB	LYS	77	237.127	160.566	-12.733	1.00	94.75	IS9	ATOM	8656	CD2	LEU	84	234.659	172.858	-13.099	1.00	94.98	IS
ATOM	8604	CG	LYS	77	238.113	159.815	-13.568	1.00	94.75	IS9	ATOM	8657	C	LEU	84						IS

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ATOM	8658	O	LEU	84	234.684	174.004	-13.540	1.00	94.98	IS9	ATOM	8711	CA	TYR	91	230.409	171.167	-17.419	1.00128.60	IS
ATOM	8659	N	VAL	85	233.546	172.274	-12.653	1.00114.05		IS9	ATOM	8712	CB	TYR	91	229.828	170.708	-16.080	1.00185.78	IS
ATOM	8660	CA	VAL	85	232.266	172.985	-12.621	1.00114.05		IS9	ATOM	8713	CG	TYR	91	228.421	171.174	-15.776	1.00185.78	IS
ATOM	8661	CB	VAL	85	231.137	172.098	-12.076	1.00107.46		IS9	ATOM	8714	CDI	TYR	91	227.327	170.680	-16.489	1.00185.78	IS
ATOM	8662	CGI	VAL	85	229.845	172.906	-11.961	1.00107.46		IS9	ATOM	8715	CE1	TYR	91	226.030	171.067	-16.175	1.00185.78	IS
ATOM	8663	C	VAL	85	230.946	170.908	-12.986	1.00107.46		IS9	ATOM	8716	CD2	TYR	91	228.178	172.075	-14.739	1.00185.78	IS
ATOM	8664	O	VAL	85	232.472	174.157	-11.669	1.00114.05		IS9	ATOM	8717	CE2	TYR	91	226.885	172.469	-14.415	1.00185.78	IS
ATOM	8665	O	VAL	85	231.991	175.272	-11.903	1.00114.05		IS9	ATOM	8718	CE2	TYR	91	225.818	171.961	-15.136	1.00185.78	IS
ATOM	8666	N	GLN	86	233.177	173.871	-10.575	1.00135.99		IS9	ATOM	8719	OH	TYR	91	224.539	172.348	-14.815	1.00185.78	IS
ATOM	8667	CA	GLN	86	233.537	174.886	-9.596	1.00135.99		IS9	ATOM	8720	C	TYR	91	229.466	170.804	-18.554	1.00128.60	IS
ATOM	8668	CB	GLN	86	234.254	174.251	-8.407	1.00113.91		IS9	ATOM	8721	O	TYR	91	229.417	169.649	-18.974	1.00128.60	IS
ATOM	8669	CG	GLN	86	233.426	174.114	-7.149	1.00113.91		IS9	ATOM	8722	N	ARG	92	228.718	171.786	-19.049	1.0079.14	IS
ATOM	8670	CD	GLN	86	233.571	175.308	-6.229	1.00113.91		IS9	ATOM	8723	CA	ARG	92	227.793	171.545	-20.153	1.0079.14	IS
ATOM	8671	OE1	GLN	86	233.173	176.424	-6.569	1.00113.91		IS9	ATOM	8724	CB	ARG	92	227.350	172.853	-20.800	1.00193.82	IS
ATOM	8672	NE2	GLN	86	234.152	175.079	-5.054	1.00113.91		IS9	ATOM	8725	CG	ARG	92	226.626	173.832	-19.911	1.00193.82	IS
ATOM	8673	C	GLN	86	234.542	175.660	-10.420	1.00135.99		IS9	ATOM	8726	CD	ARG	92	226.046	174.925	-20.794	1.00193.82	IS
ATOM	8674	O	GLN	86	235.032	175.138	-11.419	1.00135.99		IS9	ATOM	8727	NE	ARG	92	225.518	176.064	-20.054	1.00193.82	IS
ATOM	8675	N	TYR	87	235.825	177.650	-10.811	1.00140.29		IS9	ATOM	8728	CZ	ARG	92	224.933	177.111	-20.629	1.00193.82	IS
ATOM	8676	CA	TYR	87	237.998	177.434	-12.132	1.00111.46		IS9	ATOM	8729	NH1	ARG	92	224.486	178.116	-19.886	1.00193.82	IS
ATOM	8677	CB	TYR	87	237.053	176.788	-11.150	1.00111.46		IS9	ATOM	8730	NH2	ARG	92	224.802	177.155	-21.950	1.00193.82	IS
ATOM	8678	CG	TYR	87	237.998	177.434	-12.132	1.00111.46		IS9	ATOM	8731	C	ARG	92	227.848	170.073	-22.040	1.0079.14	IS
ATOM	8679	CD1	TYR	87	239.138	178.108	-11.693	1.00111.46		IS9	ATOM	8732	O	ARG	92	227.848	170.073	-22.040	1.0079.14	IS
ATOM	8680	CE1	TYR	87	239.977	178.758	-12.589	1.00111.46		IS9	ATOM	8733	N	ALA	93	229.822	170.756	-21.197	1.0093.59	IS
ATOM	8681	CE2	TYR	87	237.721	177.423	-13.501	1.00111.46		IS9	ATOM	8734	CA	ALA	93	230.631	170.022	-22.159	1.0093.59	IS
ATOM	8682	CE2	TYR	87	238.548	178.071	-14.406	1.00111.46		IS9	ATOM	8735	CB	ALA	93	231.929	170.779	-22.449	1.0058.44	IS
ATOM	8683	CZ	TYR	87	239.674	178.737	-13.946	1.00111.46		IS9	ATOM	8736	C	ALA	93	230.958	168.617	-21.691	1.0093.59	IS
ATOM	8684	OH	TYR	87	240.495	179.398	-14.839	1.00111.46		IS9	ATOM	8737	N	ALA	93	230.958	168.617	-21.691	1.0093.59	IS
ATOM	8685	O	TYR	87	235.145	178.096	-12.105	1.00140.29		IS9	ATOM	8738	N	LYS	94	231.248	168.455	-20.405	1.00111.20	IS
ATOM	8686	O	TYR	87	235.157	179.279	-12.446	1.00140.29		IS9	ATOM	8739	CA	LYS	94	231.590	167.134	-19.915	1.00111.20	IS
ATOM	8687	N	ASN	88	234.559	177.143	-12.824	1.00104.70		IS9	ATOM	8740	CB	LYS	94	232.929	167.175	-19.184	1.0094.03	IS
ATOM	8688	CA	ASN	88	233.886	177.449	-14.076	1.00104.70		IS9	ATOM	8741	CG	LYS	94	233.014	168.201	-18.086	1.0094.03	IS
ATOM	8689	CB	ASN	88	234.876	177.390	-15.239	1.0081.37		IS9	ATOM	8742	CD	LYS	94	234.413	168.064	-17.448	1.0094.03	IS
ATOM	8690	CG	ASN	88	234.229	177.749	-16.573	1.0081.37		IS9	ATOM	8743	CE	LYS	94	234.526	168.859	-16.160	1.0094.03	IS
ATOM	8691	OD1	ASN	88	233.040	177.503	-16.785	1.0081.37		IS9	ATOM	8744	NZ	LYS	94	235.757	168.479	-15.396	1.0094.03	IS
ATOM	8692	ND2	ASN	88	235.014	178.321	-17.484	1.0081.37		IS9	ATOM	8745	C	LYS	94	230.540	166.436	-19.058	1.00111.20	IS
ATOM	8693	C	ASN	88	232.729	176.515	-14.401	1.00104.70		IS9	ATOM	8746	O	LYS	94	230.849	165.471	-18.354	1.00111.20	IS
ATOM	8694	O	ASN	88	232.902	175.304	-14.471	1.00104.70		IS9	ATOM	8747	N	LEU	95	229.302	166.918	-19.115	1.0098.88	IS
ATOM	8695	N	PRO	89	231.524	177.066	-14.597	1.0091.39		IS9	ATOM	8748	CA	LEU	95	228.218	166.283	-18.375	1.0098.88	IS
ATOM	8696	CD	PRO	89	231.069	178.419	-14.232	1.0091.39		IS9	ATOM	8749	CB	LEU	95	227.349	167.301	-17.627	1.00130.94	IS
ATOM	8697	CA	PRO	89	230.386	176.208	-14.930	1.0091.39		IS9	ATOM	8750	CG	LEU	95	226.090	166.758	-16.911	1.00130.94	IS
ATOM	8698	CB	PRO	89	229.190	177.053	-14.505	1.0094.16		IS9	ATOM	8751	CD1	LEU	95	224.880	166.731	-17.845	1.00130.94	IS
ATOM	8699	CG	PRO	89	229.660	178.443	-14.780	1.0094.16		IS9	ATOM	8752	CD2	LEU	95	226.383	165.362	-16.353	1.00130.94	IS
ATOM	8700	C	PRO	89	230.410	175.911	-16.439	1.0091.39		IS9	ATOM	8753	C	LEU	95	227.367	165.566	-19.396	1.0098.88	IS
ATOM	8701	O	PRO	89	229.611	176.443	-17.214	1.0091.39		IS9	ATOM	8754	O	LEU	95	227.507	164.360	-19.572	1.0098.88	IS
ATOM	8702	N	ASP	90	231.356	175.071	-16.848	1.00113.77		IS9	ATOM	8755	N	LYS	96	226.507	166.325	-20.073	1.00157.54	IS
ATOM	8703	CA	ASP	90	231.510	174.696	-18.250	1.00113.77		IS9	ATOM	8756	CA	LYS	96	225.619	165.778	-21.093	1.00157.54	IS
ATOM	8704	CB	ASP	90	232.942	174.997	-18.725	1.00122.96		IS9	ATOM	8757	CB	LYS	96	225.338	166.820	-22.179	1.00141.65	IS
ATOM	8705	CG	ASP	90	234.001	174.135	-18.027	1.00122.96		IS9	ATOM	8758	CD	LYS	96	224.825	168.157	-21.670	1.00141.65	IS
ATOM	8706	OD1	ASP	90	233.905	173.944	-16.797	1.00122.96		IS9	ATOM	8759	CD	LYS	96	224.608	169.132	-22.823	1.00141.65	IS
ATOM	8707	OD2	ASP	90	233.940	173.666	-18.711	1.00122.96		IS9	ATOM	8760	CE	LYS	96	223.608	168.586	-23.835	1.00141.65	IS
ATOM	8708	C	ASP	90	231.207	173.216	-18.435	1.00113.77		IS9	ATOM	8761	NZ	LYS	96	223.413	169.517	-24.978	1.00157.54	IS
ATOM	8709	O	ASP	90	231.406	172.660	-19.515	1.00113.77		IS9	ATOM	8762	C	LYS	96	226.309	164.575	-21.711	1.00157.54	IS
ATOM	8710	N	TYR	91	230.716	172.585	-17.374	1.00128.60		IS9	ATOM	8763	O	LYS	96	225.707	163.515	-21.876	1.00157.54	IS

ATOM	8764	N	PRO	97	227.594	164.729	-22.067	1.00	92.15	IS9	ATOM	8817	NH2	ARG	103	230.499	155.468	-4.091	1.00	63.48	IS
ATOM	8765	CD	PRO	97	228.303	165.989	-22.360	1.00	92.15	IS9	ATOM	8818	C	ARG	103	227.941	157.593	-9.709	1.00	92.26	IS
ATOM	8766	CA	PRO	97	228.313	163.607	-22.659	1.00	92.15	IS9	ATOM	8819	O	ARG	103	226.885	157.367	-9.118	1.00	92.26	IS
ATOM	8767	CB	PRO	97	228.949	164.245	-23.876	1.00	92.15	IS9	ATOM	8820	N	ASP	104	228.511	156.703	-10.516	1.00	88.99	IS
ATOM	8768	CG	PRO	97	229.444	165.527	-23.286	1.00	92.15	IS9	ATOM	8821	CA	ASP	104	227.877	155.402	-10.687	1.00	88.99	IS
ATOM	8769	C	PRO	97	229.356	163.110	-21.665	1.00	92.15	IS9	ATOM	8822	CB	ASP	104	228.677	154.509	-11.631	1.00	96.85	IS
ATOM	8770	O	PRO	97	229.794	163.863	-20.796	1.00	92.15	IS9	ATOM	8823	CG	ASP	104	229.919	153.968	-10.993	1.00	96.85	IS
ATOM	8771	N	LEU	98	229.757	161.849	-21.803	1.00	92.15	IS9	ATOM	8824	OD1	ASP	104	230.705	154.780	-10.471	1.00	96.85	IS
ATOM	8772	CA	LEU	98	230.758	161.250	-20.928	1.00	92.15	IS9	ATOM	8825	OD2	ASP	104	230.111	152.736	-11.014	1.00	96.85	IS
ATOM	8773	CB	LEU	98	232.158	161.756	-21.319	1.00	92.15	IS9	ATOM	8826	C	ASP	104	228.829	154.694	-8.613	1.00	88.99	IS
ATOM	8774	CG	LEU	98	232.318	163.140	-21.976	1.00	92.15	IS9	ATOM	8827	O	ASP	104	226.618	154.408	-8.881	1.00	88.99	IS
ATOM	8775	CD1	LEU	98	233.772	163.549	-21.989	1.00	92.15	IS9	ATOM	8828	N	ALA	105	226.428	153.854	-7.551	1.00	69.25	IS
ATOM	8776	CD2	LEU	98	231.801	163.107	-23.400	1.00	92.15	IS9	ATOM	8829	CA	ALA	105	225.113	154.352	-6.984	1.00	95.78	IS
ATOM	8777	C	LEU	98	230.493	161.511	-19.442	1.00	92.15	IS9	ATOM	8830	CB	ALA	105	226.459	152.338	-7.505	1.00	69.25	IS
ATOM	8778	O	LEU	98	231.297	161.141	-18.592	1.00	92.15	IS9	ATOM	8831	C	ALA	105	225.802	151.737	-6.656	1.00	69.25	IS
ATOM	8779	N	GLY	99	229.355	162.137	-19.148	1.00	92.15	IS9	ATOM	8832	O	ALA	105	227.232	151.719	-8.390	1.00	85.66	IS
ATOM	8780	CA	GLY	99	228.962	162.464	-17.784	1.00	92.15	IS9	ATOM	8833	N	ARG	106	227.275	150.270	-8.419	1.00	85.66	IS
ATOM	8781	C	GLY	99	229.906	162.133	-16.642	1.00	92.15	IS9	ATOM	8834	CA	ARG	106	227.630	150.070	-10.861	1.00	67.27	IS
ATOM	8782	O	GLY	99	229.608	161.256	-15.828	1.00	92.15	IS9	ATOM	8835	CG	ARG	106	228.307	149.329	-11.968	1.00	67.27	IS
ATOM	8783	N	PHE	100	231.041	162.827	-16.572	1.00	92.15	IS9	ATOM	8836	CG	ARG	106	229.536	149.996	-12.362	1.00	67.27	IS
ATOM	8784	CA	PHE	100	232.003	162.589	-15.496	1.00	92.15	IS9	ATOM	8837	CD	ARG	106	230.527	149.403	-13.018	1.00	67.27	IS
ATOM	8785	CB	PHE	100	233.308	163.338	-15.750	1.00	92.15	IS9	ATOM	8838	NE	ARG	106	230.424	148.120	-13.358	1.00	67.27	IS
ATOM	8786	CG	PHE	100	234.073	162.837	-16.929	1.00	92.15	IS9	ATOM	8839	CZ	ARG	106	231.621	150.090	-13.338	1.00	67.27	IS
ATOM	8787	CD1	PHE	100	234.183	163.607	-18.079	1.00	92.15	IS9	ATOM	8840	NH1	ARG	106	227.485	149.600	-7.065	1.00	85.66	IS
ATOM	8788	CD2	PHE	100	234.702	161.601	-16.889	1.00	92.15	IS9	ATOM	8841	NH2	ARG	106	227.897	149.641	-4.187	1.00	38.28	IS
ATOM	8789	CE1	PHE	100	234.912	163.152	-19.168	1.00	92.15	IS9	ATOM	8842	C	ARG	106	228.700	149.537	-6.532	1.00	43.98	IS
ATOM	8790	CE2	PHE	100	235.433	161.140	-17.979	1.00	92.15	IS9	ATOM	8843	O	ARG	106	226.507	149.114	-6.498	1.00	85.66	IS
ATOM	8791	CZ	PHE	100	235.537	161.919	-19.119	1.00	92.15	IS9	ATOM	8844	N	VAL	107	228.700	148.946	-5.191	1.00	43.98	IS
ATOM	8792	C	PHE	100	231.388	163.094	-14.205	1.00	92.15	IS9	ATOM	8845	CA	VAL	107	227.897	149.641	-4.187	1.00	38.28	IS
ATOM	8793	O	PHE	100	231.842	162.774	-13.101	1.00	92.15	IS9	ATOM	8846	CB	VAL	107	227.897	149.641	-4.187	1.00	38.28	IS
ATOM	8794	N	LEU	101	230.337	163.884	-14.358	1.00	69.45	IS9	ATOM	8847	CG1	VAL	107	227.897	149.641	-4.187	1.00	38.28	IS
ATOM	8795	CA	LEU	101	229.659	164.447	-13.215	1.00	69.45	IS9	ATOM	8848	CG2	VAL	107	228.296	151.077	-4.005	1.00	38.28	IS
ATOM	8796	CB	LEU	101	228.909	165.703	-13.635	1.00	82.91	IS9	ATOM	8849	C	VAL	107	228.666	147.431	-4.992	1.00	43.98	IS
ATOM	8797	CG	LEU	101	229.866	166.771	-14.156	1.00	82.91	IS9	ATOM	8850	O	VAL	107	227.775	146.803	-5.563	1.00	43.98	IS
ATOM	8798	CD1	LEU	101	229.072	167.897	-14.780	1.00	82.91	IS9	ATOM	8851	N	VAL	108	229.489	146.873	-4.113	1.00	52.46	IS
ATOM	8799	CD2	LEU	101	230.758	167.258	-13.010	1.00	69.45	IS9	ATOM	8852	CA	VAL	108	229.464	145.454	-3.780	1.00	52.46	IS
ATOM	8800	C	LEU	101	228.714	163.451	-12.583	1.00	69.45	IS9	ATOM	8853	CB	VAL	108	230.601	145.110	-2.805	1.00	18.96	IS
ATOM	8801	O	LEU	101	227.975	163.790	-11.662	1.00	69.45	IS9	ATOM	8854	CG1	VAL	108	230.429	143.729	-2.253	1.00	18.96	IS
ATOM	8802	N	THR	102	228.734	162.219	-13.077	1.00	59.11	IS9	ATOM	8855	CG2	VAL	108	231.914	145.227	-3.507	1.00	18.96	IS
ATOM	8803	CA	THR	102	227.881	161.174	-12.520	1.00	59.11	IS9	ATOM	8856	C	VAL	108	228.165	144.997	-3.141	1.00	52.46	IS
ATOM	8804	CB	THR	102	227.350	160.226	-13.614	1.00	71.38	IS9	ATOM	8857	O	VAL	108	227.789	145.495	-2.074	1.00	52.46	IS
ATOM	8805	CG1	THR	102	226.533	160.958	-14.535	1.00	71.38	IS9	ATOM	8858	N	GLU	109	227.511	144.017	-3.773	1.00	58.69	IS
ATOM	8806	CG2	THR	102	226.526	159.112	-12.990	1.00	71.38	IS9	ATOM	8859	CA	GLU	109	226.252	143.468	-3.274	1.00	58.69	IS
ATOM	8807	C	THR	102	228.663	160.335	-11.521	1.00	59.11	IS9	ATOM	8860	CB	GLU	109	225.567	142.642	-4.358	1.00	58.87	IS
ATOM	8808	O	THR	102	229.880	160.186	-11.634	1.00	59.11	IS9	ATOM	8861	CG	GLU	109	224.236	142.086	-3.886	1.00	58.87	IS
ATOM	8809	N	ARG	103	227.967	159.801	-10.530	1.00	92.26	IS9	ATOM	8862	CD	GLU	109	223.372	141.538	-5.006	1.00	58.87	IS
ATOM	8810	CA	ARG	103	228.622	158.945	-9.557	1.00	92.26	IS9	ATOM	8863	OE1	GLU	109	223.180	142.247	-6.023	1.00	58.87	IS
ATOM	8811	CB	ARG	103	228.429	159.467	-8.124	1.00	63.48	IS9	ATOM	8864	OE2	GLU	109	222.875	140.403	-4.861	1.00	58.87	IS
ATOM	8812	CG	ARG	103	229.444	158.879	-7.153	1.00	63.48	IS9	ATOM	8865	C	GLU	109	226.390	142.624	-1.998	1.00	58.69	IS
ATOM	8813	CD	ARG	103	228.848	158.209	-5.920	1.00	63.48	IS9	ATOM	8866	O	GLU	109	227.288	141.798	-1.862	1.00	58.69	IS
ATOM	8814	CE	ARG	103	229.657	157.050	-5.534	1.00	63.48	IS9	ATOM	8867	N	ARG	110	225.477	142.843	-1.065	1.00	61.53	IS
ATOM	8815	NZ	ARG	103	229.740	156.537	-4.307	1.00	63.48	IS9	ATOM	8868	CA	ARG	110	225.476	142.132	0.205	1.00	61.53	IS
ATOM	8816	NH1	ARG	103	229.064	157.074	-3.296	1.00	63.48	IS9	ATOM	8869	CB	ARG	110	224.248	142.578	1.010	1.00	71.48	IS

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ATOM	8870	CG	ARG	110	224.270	142.252	2.492	1.00	71.48	IS9	ATOM	8923	CB	HIS	116	228.471	130.812	-2.066	1.00	48.47	I.
ATOM	8871	CD	ARG	110	224.026	140.794	2.726	1.00	71.48	IS9	ATOM	8924	CG	HIS	116	228.239	129.347	-1.900	1.00	48.47	I.
ATOM	8872	NE	ARG	110	222.983	140.564	3.714	1.00	71.48	IS9	ATOM	8925	CD2	HIS	116	227.771	128.415	-2.763	1.00	48.47	I.
ATOM	8873	CH	ARG	110	221.762	141.080	3.637	1.00	71.48	IS9	ATOM	8926	ND1	HIS	116	228.556	128.669	-0.741	1.00	48.47	I.
ATOM	8874	NH1	ARG	110	221.427	141.861	2.618	1.00	71.48	IS9	ATOM	8927	CE1	HIS	116	228.298	127.383	-0.899	1.00	48.47	I.
ATOM	8875	NH2	ARG	110	220.872	140.808	4.580	1.00	71.48	IS9	ATOM	8928	NE2	HIS	116	227.822	127.202	-2.118	1.00	48.47	I.
ATOM	8876	C	ARG	110	225.447	140.617	0.005	1.00	61.53	IS9	ATOM	8929	C	HIS	116	227.969	133.145	-1.455	1.00	54.71	I.
ATOM	8877	O	ARG	110	224.848	140.134	-0.949	1.00	61.53	IS9	ATOM	8930	O	HIS	116	227.743	134.038	-0.648	1.00	54.71	I.
ATOM	8878	N	LYS	111	226.103	139.863	0.883	1.00	49.59	IS9	ATOM	8931	N	LYS	117	228.460	133.331	-2.665	1.00	76.63	I.
ATOM	8879	CA	LYS	111	226.041	138.416	0.762	1.00	49.59	IS9	ATOM	8932	CA	LYS	117	228.784	134.750	-3.100	1.00	76.63	I.
ATOM	8880	CB	LYS	111	227.215	137.710	1.422	1.00	42.70	IS9	ATOM	8933	CB	LYS	117	229.558	134.727	-4.435	1.00	99.52	I.
ATOM	8881	CG	LYS	111	226.794	136.305	1.858	1.00	42.70	IS9	ATOM	8934	CG	LYS	117	231.038	134.359	-4.379	1.00	99.52	I.
ATOM	8882	CD	LYS	111	227.939	135.364	2.091	1.00	42.70	IS9	ATOM	8935	CD	LYS	117	231.239	132.874	-4.136	1.00	99.52	I.
ATOM	8883	CE	LYS	111	227.491	134.148	2.923	1.00	42.70	IS9	ATOM	8936	CE	LYS	117	232.717	132.476	-4.220	1.00	99.52	I.
ATOM	8884	NZ	LYS	111	226.246	133.427	2.466	1.00	42.70	IS9	ATOM	8937	NZ	LYS	117	232.944	131.022	-3.921	1.00	99.52	I.
ATOM	8885	C	LYS	111	224.781	137.924	1.452	1.00	49.59	IS9	ATOM	8938	C	LYS	117	227.612	135.735	-3.263	1.00	76.63	I.
ATOM	8886	O	LYS	111	224.584	138.160	2.641	1.00	49.59	IS9	ATOM	8939	O	LYS	117	227.637	136.538	-4.199	1.00	76.63	I.
ATOM	8887	N	LYS	112	223.946	137.209	0.715	1.00	39.24	IS9	ATOM	8940	N	ALA	118	226.601	135.706	-2.392	1.00	43.20	I.
ATOM	8888	CA	LYS	112	222.702	136.686	1.254	1.00	39.24	IS9	ATOM	8941	CA	ALA	118	225.488	136.656	-2.539	1.00	43.20	I.
ATOM	8889	CB	LYS	112	221.701	136.552	0.126	1.00	44.84	IS9	ATOM	8942	CB	ALA	118	225.998	138.052	-2.810	1.00	35.02	I.
ATOM	8890	CG	LYS	112	221.838	137.639	-0.886	1.00	44.84	IS9	ATOM	8943	C	ALA	118	224.550	136.278	-3.662	1.00	43.20	I.
ATOM	8891	CD	LYS	112	221.371	138.951	-0.332	1.00	44.84	IS9	ATOM	8944	O	ALA	118	223.383	136.694	-3.697	1.00	43.20	I.
ATOM	8892	CE	LYS	112	221.623	140.054	-1.350	1.00	44.84	IS9	ATOM	8945	N	ARG	119	225.080	135.529	-4.615	1.00	45.72	I.
ATOM	8893	NZ	LYS	112	221.280	139.612	-2.743	1.00	44.84	IS9	ATOM	8946	CA	ARG	119	224.280	135.054	-6.920	1.00	28.36	I.
ATOM	8894	C	LYS	112	222.941	135.324	1.882	1.00	39.24	IS9	ATOM	8947	CB	ARG	119	224.409	135.967	-6.920	1.00	28.36	I.
ATOM	8895	O	LYS	112	223.864	134.627	1.492	1.00	39.24	IS9	ATOM	8948	CG	ARG	119	223.712	137.281	-6.718	1.00	28.36	I.
ATOM	8896	N	TYR	113	222.114	134.946	2.855	1.00	63.97	IS9	ATOM	8949	CD	ARG	119	223.268	137.893	-8.034	1.00	28.36	I.
ATOM	8897	CA	TYR	113	222.279	133.642	3.496	1.00	63.97	IS9	ATOM	8950	NE	ARG	119	222.729	139.235	-7.839	1.00	28.36	I.
ATOM	8898	CB	TYR	113	221.591	133.584	4.876	1.00	63.54	IS9	ATOM	8951	CZ	ARG	119	222.212	139.986	-8.806	1.00	28.36	I.
ATOM	8899	CD1	TYR	113	220.106	133.885	4.916	1.00	63.54	IS9	ATOM	8952	NH1	ARG	119	222.151	139.540	-10.052	1.00	28.36	I.
ATOM	8900	CE1	TYR	113	219.169	132.954	4.475	1.00	63.54	IS9	ATOM	8953	NH2	ARG	119	221.753	141.198	-8.532	1.00	28.36	I.
ATOM	8901	CE2	TYR	113	217.800	133.210	4.566	1.00	63.54	IS9	ATOM	8954	C	ARG	119	224.670	133.637	-6.050	1.00	45.72	I.
ATOM	8902	CD2	TYR	113	219.638	135.086	5.446	1.00	63.54	IS9	ATOM	8955	O	ARG	119	223.802	132.809	-6.259	1.00	45.72	I.
ATOM	8903	CZ	TYR	113	218.275	135.350	5.543	1.00	63.54	IS9	ATOM	8956	N	ARG	120	225.958	133.325	-6.087	1.00	60.69	I.
ATOM	8904	CE	TYR	113	217.359	134.407	5.104	1.00	63.54	IS9	ATOM	8957	CA	ARG	120	226.282	131.952	-6.412	1.00	60.69	I.
ATOM	8905	OH	TYR	113	216.008	134.658	5.233	1.00	63.54	IS9	ATOM	8958	CB	ARG	120	227.752	131.588	-6.193	1.00	92.83	I.
ATOM	8906	C	TYR	113	221.747	132.574	2.564	1.00	63.97	IS9	ATOM	8959	CG	ARG	120	228.022	130.210	-6.371	1.00	92.83	I.
ATOM	8907	O	TYR	113	220.948	132.861	1.665	1.00	63.97	IS9	ATOM	8960	CD	ARG	120	229.327	129.588	-6.798	1.00	92.83	I.
ATOM	8908	N	GLY	114	222.207	131.347	2.763	1.00	30.09	IS9	ATOM	8961	NE	ARG	120	230.492	130.360	-6.927	1.00	92.83	I.
ATOM	8909	CA	GLY	114	221.786	130.287	1.877	1.00	30.09	IS9	ATOM	8962	CZ	ARG	120	231.719	129.853	-6.927	1.00	92.83	I.
ATOM	8910	C	GLY	114	222.448	130.376	0.508	1.00	30.09	IS9	ATOM	8963	NH1	ARG	120	231.942	128.567	-6.669	1.00	92.83	I.
ATOM	8911	O	GLY	114	222.285	129.481	-0.298	1.00	30.09	IS9	ATOM	8964	NH2	ARG	120	232.732	130.631	-7.300	1.00	92.83	I.
ATOM	8912	N	LYS	115	223.203	131.433	0.227	1.00	84.81	IS9	ATOM	8965	C	ARG	120	225.419	131.109	-5.503	1.00	60.69	I.
ATOM	8913	CA	LYS	115	223.846	131.541	-1.077	1.00	84.81	IS9	ATOM	8966	O	ARG	120	225.425	131.275	-4.282	1.00	60.69	I.
ATOM	8914	CB	LYS	115	222.977	132.364	-2.032	1.00	66.98	IS9	ATOM	8967	N	ALA	121	224.642	130.230	-6.120	1.00	40.41	I.
ATOM	8915	CG	LYS	115	221.575	131.838	-2.204	1.00	66.98	IS9	ATOM	8968	CA	ALA	121	223.752	129.354	-5.395	1.00	40.41	I.
ATOM	8916	CD	LYS	115	220.976	132.333	-3.506	1.00	66.98	IS9	ATOM	8969	CB	ALA	121	222.520	129.126	-6.221	1.00	29.63	I.
ATOM	8917	CE	LYS	115	219.566	132.906	-3.318	1.00	66.98	IS9	ATOM	8970	C	ALA	121	224.467	128.037	-5.131	1.00	40.41	I.
ATOM	8918	NZ	LYS	115	219.509	134.161	-2.463	1.00	66.98	IS9	ATOM	8971	O	ALA	121	225.198	127.537	-5.980	1.00	40.41	I.
ATOM	8919	C	LYS	115	225.246	132.140	-1.045	1.00	84.81	IS9	ATOM	8972	N	PRO	122	224.293	127.469	-3.936	1.00	37.08	I.
ATOM	8920	O	LYS	115	225.393	133.361	-0.992	1.00	84.81	IS9	ATOM	8973	CD	PRO	122	223.622	127.974	-2.729	1.00	18.78	I.
ATOM	8921	N	HIS	116	226.263	131.279	-1.110	1.00	54.71	IS9	ATOM	8974	CA	PRO	122	224.968	126.200	-3.672	1.00	37.08	I.
ATOM	8922	CA	HIS	116	227.681	131.680	-1.103	1.00	54.71	IS9	ATOM	8975	CB	PRO	122	224.363	125.753	-2.350	1.00	18.78	I.

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ATOM	8976	CG	PRO	122	224.175	127.046	-1.639	1.00	18.78	IS9	ATOM	9029	SD	MET	1	156.785	112.459	-82.167	1.00145.42	FS	
ATOM	8977	C	PRO	122	224.624	125.248	-4.784	1.00	37.08	IS9	ATOM	9030	CE	MET	1	157.072	110.959	-83.116	1.00145.42	FS	
ATOM	8978	O	PRO	122	223.591	125.392	-5.426	1.00	37.08	IS9	ATOM	9031	C	MET	1	158.748	114.578	-83.412	1.00141.76	FS	
ATOM	8979	N	GLN	123	225.495	124.278	-5.012	1.00	55.85	IS9	ATOM	9032	O	MET	1	159.837	114.000	-83.446	1.00141.76	FS	
ATOM	8980	CA	GLN	123	225.290	123.275	-6.049	1.00	55.85	IS9	ATOM	9033	N	MET	1	157.773	113.014	-85.187	1.00141.76	FS	
ATOM	8981	CB	GLN	123	226.652	122.737	-6.514	1.00	56.07	IS9	ATOM	9034	CA	MET	1	157.697	114.346	-84.510	1.00141.76	FS	
ATOM	8982	CG	GLN	123	226.599	121.480	-7.358	1.00	56.07	IS9	ATOM	9035	N	ARG	2	158.415	115.432	-82.444	1.00	83.79	FS
ATOM	8983	CD	GLN	123	227.967	121.055	-7.879	1.00	56.07	IS9	ATOM	9036	CA	ARG	2	159.332	115.762	-81.358	1.00	83.79	FS
ATOM	8984	OE1	GLN	123	228.623	121.803	-8.605	1.00	56.07	IS9	ATOM	9037	CB	ARG	2	159.576	114.518	-80.488	1.00102.96	FS	
ATOM	8985	NE2	GLN	123	228.398	119.847	-7.515	1.00	56.07	IS9	ATOM	9038	CG	ARG	2	160.317	114.795	-79.183	1.00102.96	FS	
ATOM	8986	C	GLN	123	224.464	122.145	-5.465	1.00	55.85	IS9	ATOM	9039	CD	ARG	2	160.530	113.532	-77.358	1.00102.96	FS	
ATOM	8987	O	GLN	123	224.504	121.916	-4.258	1.00	55.85	IS9	ATOM	9040	NE	ARG	2	159.363	113.157	-77.555	1.00102.96	FS	
ATOM	8988	N	TYR	124	223.692	121.459	-6.301	1.00	61.08	IS9	ATOM	9041	C2	ARG	2	159.308	112.086	-76.761	1.00102.96	FS	
ATOM	8989	CA	TYR	124	222.919	120.319	-5.818	1.00	61.08	IS9	ATOM	9042	NH1	ARG	2	160.352	111.273	-76.654	1.00102.96	FS	
ATOM	8990	CB	TYR	124	221.436	120.650	-5.747	1.00	62.59	IS9	ATOM	9043	NH2	ARG	2	158.208	111.820	-76.064	1.00102.96	FS	
ATOM	8991	CG	TYR	124	220.825	120.995	-7.063	1.00	62.59	IS9	ATOM	9044	C	ARG	2	160.648	116.287	-81.961	1.00	83.79	FS
ATOM	8992	CD1	TYR	124	220.618	120.023	-8.033	1.00	62.59	IS9	ATOM	9045	O	ARG	2	161.452	115.515	-82.484	1.00	83.79	FS
ATOM	8993	CE1	TYR	124	220.052	120.345	-9.255	1.00	62.59	IS9	ATOM	9046	N	ARG	3	160.848	117.604	-81.894	1.00	85.33	FS
ATOM	8994	CD2	TYR	124	220.453	122.305	-7.345	1.00	62.59	IS9	ATOM	9047	CA	ARG	3	162.040	118.270	-82.436	1.00	85.33	FS
ATOM	8995	CE2	TYR	124	219.886	122.646	-8.567	1.00	62.59	IS9	ATOM	9048	CB	ARG	3	161.912	119.787	-82.282	1.00116.44	FS	
ATOM	8996	C2	TYR	124	219.686	121.661	-9.518	1.00	62.59	IS9	ATOM	9049	CG	ARG	3	160.904	120.452	-83.185	1.00116.44	FS	
ATOM	8997	OH	TYR	124	219.115	121.992	-10.732	1.00	62.59	IS9	ATOM	9050	CD	ARG	3	160.853	121.940	-82.887	1.00116.44	FS	
ATOM	8998	C	TYR	124	223.158	119.103	-6.710	1.00	61.08	IS9	ATOM	9051	NE	ARG	3	159.937	122.659	-83.767	1.00116.44	FS	
ATOM	8999	O	TYR	124	223.285	119.215	-7.941	1.00	61.08	IS9	ATOM	9052	C2	ARG	3	159.634	123.949	-83.635	1.00116.44	FS	
ATOM	9000	N	SER	125	223.235	117.940	-6.073	1.00	80.04	IS9	ATOM	9053	NH1	ARG	3	160.176	124.660	-82.653	1.00116.44	FS	
ATOM	9001	CA	SER	125	223.486	116.686	-6.768	1.00	80.04	IS9	ATOM	9054	NH2	ARG	3	158.792	124.530	-84.483	1.00116.44	FS	
ATOM	9002	CB	SER	125	223.672	115.560	-5.767	1.00	80.04	IS9	ATOM	9055	O	ARG	3	163.395	117.856	-81.845	1.00	85.33	FS
ATOM	9003	CG	SER	125	222.413	115.109	-5.296	1.00	80.04	IS9	ATOM	9056	C	ARG	3	163.552	117.731	-80.626	1.00	85.33	FS
ATOM	9004	C	SER	125	222.359	116.287	-7.690	1.00	80.04	IS9	ATOM	9057	N	TYR	4	164.381	117.682	-82.724	1.00	83.87	FS
ATOM	9005	O	SER	125	221.661	117.128	-8.253	1.00	80.04	IS9	ATOM	9058	CA	TYR	4	165.733	117.313	-82.317	1.00	83.87	FS
ATOM	9006	N	LYS	126	222.189	114.975	-7.817	1.00	64.22	IS9	ATOM	9059	CB	TYR	4	166.015	115.851	-82.667	1.00	74.59	FS
ATOM	9007	CA	LYS	126	221.156	114.382	-8.653	1.00	64.22	IS9	ATOM	9060	CG	TYR	4	165.179	114.856	-81.895	1.00	74.59	FS
ATOM	9008	CB	LYS	126	221.295	112.854	-8.637	1.00	63.37	IS9	ATOM	9061	CD1	TYR	4	165.301	114.733	-80.512	1.00	74.59	FS
ATOM	9009	CG	LYS	126	222.459	112.272	-9.462	1.00	63.37	IS9	ATOM	9062	CE1	TYR	4	164.529	113.814	-79.800	1.00	74.59	FS
ATOM	9010	CD	LYS	126	223.822	112.807	-9.063	1.00	63.37	IS9	ATOM	9063	CD2	TYR	4	164.262	114.036	-82.548	1.00	74.59	FS
ATOM	9011	CE	LYS	126	224.934	112.090	-9.818	1.00	63.37	IS9	ATOM	9064	CE2	TYR	4	163.484	113.117	-81.845	1.00	74.59	FS
ATOM	9012	N2	LYS	126	225.085	110.670	-9.398	1.00	63.37	IS9	ATOM	9065	C2	TYR	4	163.622	113.012	-80.474	1.00	74.59	FS
ATOM	9013	C	LYS	126	219.766	114.788	-8.168	1.00	64.22	IS9	ATOM	9066	OH	TYR	4	162.850	112.102	-79.789	1.00	74.59	FS
ATOM	9014	O	LYS	126	219.087	114.030	-7.471	1.00	64.22	IS9	ATOM	9067	C	TYR	4	166.782	118.202	-82.989	1.00	83.87	FS
ATOM	9015	N	ARG	127	219.359	115.999	-8.540	1.00	64.22	IS9	ATOM	9068	O	TYR	4	166.472	118.982	-83.885	1.00	83.87	FS
ATOM	9016	CA	ARG	127	218.059	116.531	-8.162	1.00	64.22	IS9	ATOM	9069	N	GLU	5	168.021	118.087	-82.529	1.00	67.30	FS
ATOM	9017	CB	ARG	127	217.880	117.945	-8.728	1.00	64.22	IS9	ATOM	9070	CA	GLU	5	169.145	118.839	-83.076	1.00	67.30	FS
ATOM	9018	CG	ARG	127	217.007	118.860	-7.878	1.00	64.22	IS9	ATOM	9071	CB	GLU	5	169.489	120.023	-82.178	1.00	68.84	FS
ATOM	9019	CD	ARG	127	216.905	120.273	-8.473	1.00	64.22	IS9	ATOM	9072	CG	GLU	5	168.453	121.124	-82.237	1.00	68.84	FS
ATOM	9020	NE	ARG	127	216.923	121.312	-7.440	1.00	64.22	IS9	ATOM	9073	CD	GLU	5	168.830	122.335	-81.397	1.00	68.84	FS
ATOM	9021	C2	ARG	127	216.871	122.621	-7.681	1.00	64.22	IS9	ATOM	9074	OE1	GLU	5	169.995	122.788	-81.481	1.00	68.84	FS
ATOM	9022	NH1	ARG	127	216.795	123.070	-8.930	1.00	64.22	IS9	ATOM	9075	OE2	GLU	5	167.957	122.843	-80.659	1.00	68.84	FS
ATOM	9023	NH2	ARG	127	216.902	123.484	-6.670	1.00	64.22	IS9	ATOM	9076	C	GLU	5	170.291	117.842	-83.124	1.00	67.30	FS
ATOM	9024	C	ARG	127	216.994	115.612	-8.739	1.00	64.22	IS9	ATOM	9077	O	GLU	5	170.844	117.473	-82.089	1.00	67.30	FS
ATOM	9025	O	ARG	127	217.367	114.631	-9.424	1.00	64.22	IS9	ATOM	9078	N	VAL	6	170.639	117.414	-84.334	1.00	97.08	FS
ATOM	9026	OXT	ARG	127	215.801	115.888	-8.506	1.00	64.22	IS9	ATOM	9079	CA	VAL	6	171.665	116.404	-84.540	1.00	97.08	FS
ATOM	9027	CB	MET	1	156.294	114.558	-83.933	1.00	64.22	FS6	ATOM	9080	CB	VAL	6	171.538	115.825	-85.940	1.00	47.76	FS
ATOM	9028	CG	MET	1	155.678	113.323	-83.294	1.00	64.22	FS6	ATOM	9081	CG1	VAL	6	172.446	114.610	-86.099	1.00	47.76	FS

ATOM	9082	CG2	VAL	6	170.112	115.437	-86.181	1.00	47.76	FS6	ATOM	9135	OD1	ASN	13	192.254	115.842	-92.467	1.00	83.28	FS
ATOM	9083	C	VAL	6	173.145	116.634	-84.283	1.00	97.08	FS6	ATOM	9136	ND2	ASN	13	190.105	115.256	-92.805	1.00	83.28	FS
ATOM	9084	O	VAL	6	173.769	116.010	-83.471	1.00	97.08	FS6	ATOM	9137	C	ASN	13	189.243	116.329	-96.027	1.00	93.15	FS
ATOM	9085	N	ASN	7	173.725	117.674	-84.965	1.00	64.72	FS6	ATOM	9138	O	ASN	13	189.894	115.772	-96.908	1.00	93.15	FS
ATOM	9086	CA	ASN	7	175.152	117.955	-84.774	1.00	64.72	FS6	ATOM	9139	N	LEU	14	187.915	116.285	-95.972	1.00	89.16	FS
ATOM	9087	CB	ASN	7	175.493	118.163	-83.298	1.00	61.53	FS6	ATOM	9140	CA	LEU	14	187.138	115.588	-96.984	1.00	89.16	FS
ATOM	9088	CG	ASN	7	174.840	119.379	-82.715	1.00	61.53	FS6	ATOM	9141	CB	LEU	14	185.722	115.317	-96.480	1.00	71.35	FS
ATOM	9089	OD1	ASN	7	175.218	120.523	-83.019	1.00	61.53	FS6	ATOM	9142	CG	LEU	14	185.581	114.204	-95.449	1.00	71.35	FS
ATOM	9090	ND2	ASN	7	173.846	119.149	-81.864	1.00	61.53	FS6	ATOM	9143	CD1	LEU	14	184.119	114.003	-95.095	1.00	71.35	FS
ATOM	9091	C	ASN	7	176.010	116.791	-85.266	1.00	64.72	FS6	ATOM	9144	CD2	LEU	14	186.162	112.926	-96.020	1.00	71.35	FS
ATOM	9092	O	ASN	7	175.936	115.684	-84.725	1.00	64.72	FS6	ATOM	9145	C	LEU	14	187.065	116.447	-98.239	1.00	89.16	FS
ATOM	9093	N	ILE	8	176.817	117.034	-86.292	1.00	74.03	FS6	ATOM	9146	O	LEU	14	186.494	117.536	-98.213	1.00	89.16	FS
ATOM	9094	CA	ILE	8	177.704	116.000	-86.793	1.00	74.03	FS6	ATOM	9147	N	ASP	15	187.644	115.971	-99.338	1.00	81.34	FS
ATOM	9095	CB	ILE	8	177.162	115.337	-86.061	1.00	56.31	FS6	ATOM	9148	CA	ASP	15	187.601	116.737	-100.578	1.00	81.34	FS
ATOM	9096	CG2	ILE	8	178.072	114.194	-88.463	1.00	56.31	FS6	ATOM	9149	CB	ASP	15	188.422	116.054	-101.682	1.00	149.24	FS
ATOM	9097	CG1	ILE	8	175.760	114.786	-87.787	1.00	56.31	FS6	ATOM	9150	CG	ASP	15	187.797	114.760	-102.172	1.00	149.24	FS
ATOM	9098	CD1	ILE	8	175.167	113.943	-88.908	1.00	56.31	FS6	ATOM	9151	OD1	ASP	15	186.640	114.791	-102.643	1.00	149.24	FS
ATOM	9099	C	ILE	8	179.065	116.610	-87.073	1.00	74.03	FS6	ATOM	9152	OD2	ASP	15	188.473	113.712	-102.096	1.00	149.24	FS
ATOM	9100	O	ILE	8	179.178	117.810	-87.332	1.00	74.03	FS6	ATOM	9153	C	ASP	15	186.151	116.892	-101.026	1.00	81.34	FS
ATOM	9101	N	VAL	9	180.104	115.786	-86.992	1.00	108.70	FS6	ATOM	9154	O	ASP	15	185.309	116.032	-100.755	1.00	81.34	FS
ATOM	9102	CA	VAL	9	181.458	116.259	-87.228	1.00	108.70	FS6	ATOM	9155	N	GLN	16	185.878	117.994	-101.716	1.00	103.20	FS
ATOM	9103	CG1	VAL	9	182.162	116.561	-85.891	1.00	66.42	FS6	ATOM	9156	CA	GLN	16	184.542	118.322	-102.205	1.00	103.20	FS
ATOM	9104	CB	VAL	9	183.518	117.207	-86.154	1.00	66.42	FS6	ATOM	9157	CB	GLN	16	184.656	119.189	-103.459	1.00	140.32	FS
ATOM	9105	CG2	VAL	9	181.293	117.465	-85.041	1.00	66.42	FS6	ATOM	9158	CG	GLN	16	183.367	119.883	-103.800	1.00	140.32	FS
ATOM	9106	C	VAL	9	182.265	115.212	-87.995	1.00	108.70	FS6	ATOM	9159	CD	GLN	16	182.805	120.611	-102.602	1.00	140.32	FS
ATOM	9107	O	VAL	9	182.266	114.029	-87.631	1.00	108.70	FS6	ATOM	9160	OE1	GLN	16	183.434	121.525	-102.067	1.00	140.32	FS
ATOM	9108	N	LEU	10	182.949	115.637	-89.056	1.00	73.64	FS6	ATOM	9161	NE2	GLN	16	181.621	120.198	-102.160	1.00	103.20	FS
ATOM	9109	CA	LEU	10	183.742	114.686	-89.832	1.00	73.64	FS6	ATOM	9162	C	GLN	16	183.631	117.127	-102.495	1.00	103.20	FS
ATOM	9110	CB	LEU	10	182.922	114.170	-91.023	1.00	65.91	FS6	ATOM	9163	O	GLN	16	182.465	117.113	-102.099	1.00	93.38	FS
ATOM	9111	CG1	LEU	10	181.728	115.022	-91.470	1.00	65.91	FS6	ATOM	9164	N	SER	17	184.167	116.132	-103.192	1.00	93.38	FS
ATOM	9112	CD2	LEU	10	182.216	116.260	-92.221	1.00	65.91	FS6	ATOM	9165	CA	SER	17	183.400	114.943	-103.537	1.00	93.38	FS
ATOM	9113	C	LEU	10	180.814	114.186	-92.344	1.00	65.91	FS6	ATOM	9166	CB	SER	17	184.213	114.052	-104.476	1.00	112.78	FS
ATOM	9114	O	LEU	10	185.095	115.215	-90.302	1.00	73.64	FS6	ATOM	9167	OG	SER	17	184.731	114.797	-105.564	1.00	112.78	FS
ATOM	9115	N	LEU	10	185.436	116.380	-90.055	1.00	73.64	FS6	ATOM	9168	C	SER	17	183.052	114.165	-102.276	1.00	93.38	FS
ATOM	9116	N	ASN	11	185.867	114.340	-90.956	1.00	72.04	FS6	ATOM	9169	O	SER	17	181.892	113.834	-102.034	1.00	93.38	FS
ATOM	9117	CA	ASN	11	187.194	114.630	-91.473	1.00	72.04	FS6	ATOM	9170	N	GLN	18	184.078	113.874	-101.483	1.00	105.12	FS
ATOM	9118	CB	ASN	11	187.630	113.639	-92.548	1.00	100.75	FS6	ATOM	9171	CA	GLN	18	183.934	113.134	-100.235	1.00	105.12	FS
ATOM	9119	CG	ASN	11	187.977	112.350	-91.984	1.00	100.75	FS6	ATOM	9172	CB	GLN	18	185.301	113.005	-99.562	1.00	121.32	FS
ATOM	9120	OD1	ASN	11	188.953	112.214	-91.252	1.00	100.75	FS6	ATOM	9173	CG	GLN	18	186.280	112.111	-100.306	1.00	121.32	FS
ATOM	9121	C	ASN	11	187.178	111.339	-92.313	1.00	100.75	FS6	ATOM	9174	CD	GLN	18	187.700	112.251	-99.792	1.00	121.32	FS
ATOM	9122	O	ASN	11	187.175	116.077	-92.076	1.00	72.04	FS6	ATOM	9175	OE1	GLN	18	188.554	111.399	-100.043	1.00	121.32	FS
ATOM	9123	O	ASN	11	186.522	116.307	-93.088	1.00	72.04	FS6	ATOM	9176	NE2	GLN	18	187.964	113.338	-99.076	1.00	121.32	FS
ATOM	9124	N	PRO	12	187.888	117.026	-91.463	1.00	78.10	FS6	ATOM	9177	C	GLN	18	182.955	113.798	-99.273	1.00	105.12	FS
ATOM	9125	CD	PRO	12	188.764	116.929	-90.284	1.00	52.30	FS6	ATOM	9178	O	GLN	18	182.043	113.148	-98.755	1.00	105.12	FS
ATOM	9126	CA	PRO	12	187.895	118.382	-92.013	1.00	78.10	FS6	ATOM	9179	N	LEU	19	183.162	115.090	-99.035	1.00	88.16	FS
ATOM	9127	CB	PRO	12	188.548	119.196	-90.898	1.00	52.30	FS6	ATOM	9180	CA	LEU	19	182.308	115.862	-98.142	1.00	88.16	FS
ATOM	9128	CG	PRO	12	189.543	118.237	-90.344	1.00	52.30	FS6	ATOM	9181	CB	LEU	19	182.759	117.325	-98.112	1.00	87.18	FS
ATOM	9129	C	PRO	12	188.694	118.415	-93.307	1.00	78.10	FS6	ATOM	9182	CG	LEU	19	181.963	118.310	-97.267	1.00	87.18	FS
ATOM	9130	O	PRO	12	188.886	119.470	-93.915	1.00	78.10	FS6	ATOM	9183	CD1	LEU	19	182.772	119.610	-97.161	1.00	87.18	FS
ATOM	9131	N	ASN	13	189.145	117.243	-93.726	1.00	93.15	FS6	ATOM	9184	CD2	LEU	19	180.594	118.621	-97.881	1.00	87.18	FS
ATOM	9132	CA	ASN	13	189.941	117.116	-94.927	1.00	93.15	FS6	ATOM	9185	C	LEU	19	180.854	115.786	-98.584	1.00	88.16	FS
ATOM	9133	CB	ASN	13	191.274	116.473	-94.563	1.00	83.28	FS6	ATOM	9186	O	LEU	19	179.957	115.602	-97.761	1.00	88.16	FS
ATOM	9134	CG	ASN	13	191.250	115.829	-93.183	1.00	83.28	FS6	ATOM	9187	N	ALA	20	180.623	115.943	-99.882	1.00	89.28	FS

ATOM	9188	CA	ALA	20	179.273	115.890-100.425	1.00	89.28	FS6	ATOM	9241	C	ILE	26	171.899	111.461	-94.277	1.00	85.33	FS	
ATOM	9189	CB	ALA	20	179.277	116.400-101.863	1.00	82.99	FS6	ATOM	9242	O	ILE	26	171.004	110.926	-93.621	1.00	85.33	FS	
ATOM	9190	C	ALA	20	178.714	114.464-100.366	1.00	89.28	FS6	ATOM	9243	N	GLN	27	171.667	112.258	-95.319	1.00	88.45	FS	
ATOM	9191	O	ALA	20	177.504	114.261-100.259	1.00	89.28	FS6	ATOM	9244	CA	GLN	27	170.318	112.558	-95.792	1.00	88.45	FS	
ATOM	9192	N	LEU	21	179.606	113.483-100.442	1.00	92.92	FS6	ATOM	9245	CB	GLN	27	170.381	113.284	-97.133	1.00	101.25.26	FS	
ATOM	9193	CA	LEU	21	179.218	112.079-100.379	1.00	92.92	FS6	ATOM	9246	CG	GLN	27	170.883	114.704	-97.019	1.00	101.25.26	FS	
ATOM	9194	CB	LEU	21	180.439	111.179-100.584	1.00	67.09	FS6	ATOM	9247	CD	GLN	27	169.947	115.580	-96.210	1.00	101.25.26	FS	
ATOM	9195	CG	LEU	21	180.357	109.752-100.025	1.00	67.09	FS6	ATOM	9248	OE1	GLN	27	170.255	116.739	-95.929	1.00	101.25.26	FS	
ATOM	9196	CD1	LEU	21	179.191	109.010-100.652	1.00	67.09	FS6	ATOM	9249	NE2	GLN	27	168.792	115.031	-95.837	1.00	101.25.26	FS	
ATOM	9197	CD2	LEU	21	181.663	109.017-100.299	1.00	67.09	FS6	ATOM	9250	C	GLN	27	169.476	111.299	-95.931	1.00	88.45	FS	
ATOM	9198	C	LEU	21	178.607	111.763	-99.023	1.00	92.92	FS6	ATOM	9251	O	GLN	27	168.318	111.271	-95.506	1.00	88.45	FS
ATOM	9199	O	LEU	21	177.499	111.227	-98.932	1.00	92.92	FS6	ATOM	9252	N	ARG	28	170.049	110.263	-96.540	1.00	92.62	FS
ATOM	9200	N	GLU	22	179.353	112.087	-97.971	1.00	101.06.65	FS6	ATOM	9253	CA	ARG	28	169.333	109.006	-96.694	1.00	92.62	FS
ATOM	9201	CA	GLU	22	178.913	111.838	-96.605	1.00	101.06.65	FS6	ATOM	9254	CB	ARG	28	170.141	108.003	-97.518	1.00	101.29.10	FS
ATOM	9202	CB	GLU	22	179.965	112.363	-95.627	1.00	98.38	FS6	ATOM	9255	CG	ARG	28	169.939	108.079	-99.024	1.00	101.29.10	FS
ATOM	9203	CG	GLU	22	181.266	111.603	-95.733	1.00	98.38	FS6	ATOM	9256	CD	ARG	28	170.545	106.838	-99.672	1.00	101.29.10	FS
ATOM	9204	CD	GLU	22	181.052	110.114	-95.527	1.00	98.38	FS6	ATOM	9257	NE	ARG	28	170.267	106.725-101.102	1.00	101.29.10	FS	
ATOM	9205	OE1	GLU	22	181.914	109.314	-95.949	1.00	98.38	FS6	ATOM	9258	CZ	ARG	28	170.863	107.445-102.050	1.00	101.29.10	FS	
ATOM	9206	OE2	GLU	22	180.016	109.746	-94.932	1.00	98.38	FS6	ATOM	9259	NH1	ARG	28	171.786	108.344-101.728	1.00	101.29.10	FS	
ATOM	9207	C	GLU	22	177.550	112.445	-96.296	1.00	101.06.65	FS6	ATOM	9260	NH2	ARG	28	170.536	107.262-103.326	1.00	101.29.10	FS	
ATOM	9208	O	GLU	22	176.707	111.807	-95.660	1.00	101.06.65	FS6	ATOM	9261	C	ARG	28	169.099	108.441	-95.301	1.00	92.62	FS
ATOM	9209	N	LYS	23	177.335	113.671	-96.759	1.00	74.71	FS6	ATOM	9262	O	ARG	28	168.011	107.961	-94.987	1.00	92.62	FS
ATOM	9210	CA	LYS	23	176.077	114.362	-96.525	1.00	74.71	FS6	ATOM	9263	N	ALA	29	170.129	108.511	-94.464	1.00	101.02.20	FS
ATOM	9211	CB	LYS	23	176.169	115.806	-97.010	1.00	64.82	FS6	ATOM	9264	CA	ALA	29	170.041	108.008	-93.097	1.00	101.02.20	FS
ATOM	9212	CG	LYS	23	177.297	116.586	-96.381	1.00	64.82	FS6	ATOM	9265	CB	ALA	29	171.324	108.306	-92.345	1.00	72.28	FS
ATOM	9213	CD	LYS	23	177.303	118.023	-96.867	1.00	64.82	FS6	ATOM	9266	C	ALA	29	168.868	108.670	-92.403	1.00	101.02.20	FS
ATOM	9214	CE	LYS	23	176.003	118.735	-96.502	1.00	64.82	FS6	ATOM	9267	O	ALA	29	167.924	107.996	-91.984	1.00	101.02.20	FS
ATOM	9215	NZ	LYS	23	176.005	120.151	-96.971	1.00	64.82	FS6	ATOM	9268	N	LEU	30	167.859	110.733	-91.650	1.00	68.11	FS
ATOM	9216	C	LYS	23	174.913	113.664	-97.213	1.00	74.71	FS6	ATOM	9269	CA	LEU	30	167.953	112.222	-91.981	1.00	60.96	FS
ATOM	9217	O	LYS	23	173.753	113.953	-98.924	1.00	74.71	FS6	ATOM	9270	CB	LEU	30	169.120	112.978	-91.354	1.00	60.96	FS
ATOM	9218	N	GLU	24	175.222	112.754	-98.129	1.00	89.19	FS6	ATOM	9271	CG	LEU	30	166.034	114.447	-91.710	1.00	60.96	FS
ATOM	9219	CA	GLU	24	174.183	112.022	-98.838	1.00	89.19	FS6	ATOM	9272	CD1	LEU	30	169.075	112.811	-89.841	1.00	60.96	FS
ATOM	9220	CB	GLU	24	174.654	111.649-100.240	1.00	159.40	FS6	ATOM	9273	CD2	LEU	30	166.558	110.173	-92.191	1.00	68.11	FS	
ATOM	9221	CG	GLU	24	173.667	110.785-100.993	1.00	159.40	FS6	ATOM	9274	C	LEU	30	165.844	109.458	-91.491	1.00	84.07	FS	
ATOM	9222	CD	GLU	24	174.012	110.658-102.459	1.00	159.40	FS6	ATOM	9275	O	LEU	31	166.272	110.480	-93.450	1.00	84.07	FS	
ATOM	9223	OE1	GLU	24	175.171	110.306-102.771	1.00	159.40	FS6	ATOM	9276	N	GLU	31	165.058	110.007	-94.095	1.00	84.07	FS	
ATOM	9224	OE2	GLU	24	173.120	110.905-103.297	1.00	159.40	FS6	ATOM	9277	CA	GLU	31	165.190	110.138	-95.617	1.00	101.74.76	FS	
ATOM	9225	C	GLU	24	173.808	110.766	-98.063	1.00	89.19	FS6	ATOM	9278	CB	GLU	31	165.175	111.575	-96.128	1.00	101.74.76	FS
ATOM	9226	O	GLU	24	172.636	110.394	-98.001	1.00	89.19	FS6	ATOM	9279	CG	GLU	31	163.789	111.128	-96.081	1.00	101.74.76	FS
ATOM	9227	N	ILE	25	174.808	110.112	-97.477	1.00	85.17	FS6	ATOM	9280	CD	GLU	31	162.907	111.748	-96.846	1.00	101.74.76	FS
ATOM	9228	CA	ILE	25	174.569	108.911	-96.685	1.00	85.17	FS6	ATOM	9281	OE1	GLU	31	162.907	111.748	-96.846	1.00	101.74.76	FS
ATOM	9229	CB	ILE	25	175.888	108.221	-96.310	1.00	93.60	FS6	ATOM	9282	OE2	GLU	31	163.578	113.133	-95.280	1.00	101.74.76	FS
ATOM	9230	CG2	ILE	25	175.623	106.779	-95.919	1.00	93.60	FS6	ATOM	9283	C	GLU	31	163.624	108.240	-93.327	1.00	84.07	FS
ATOM	9231	CG1	ILE	25	176.839	108.244	-97.506	1.00	93.60	FS6	ATOM	9284	O	GLU	31	164.745	108.559	-93.725	1.00	84.07	FS
ATOM	9232	CD1	ILE	25	178.171	107.574	-97.241	1.00	93.60	FS6	ATOM	9285	N	ASN	32	163.624	108.240	-93.327	1.00	84.07	FS
ATOM	9233	C	ILE	25	173.845	109.355	-95.408	1.00	85.17	FS6	ATOM	9286	CA	ASN	32	165.743	107.690	-93.846	1.00	75.39	FS
ATOM	9234	O	ILE	25	173.167	108.565	-94.749	1.00	85.17	FS6	ATOM	9287	CB	ASN	32	165.571	106.277	-93.540	1.00	75.39	FS
ATOM	9235	N	ILE	26	174.011	110.635	-95.078	1.00	85.33	FS6	ATOM	9288	CG	ASN	32	166.923	105.562	-93.547	1.00	101.38.11	FS
ATOM	9236	CA	ILE	26	173.369	111.244	-93.922	1.00	85.33	FS6	ATOM	9289	OD1	ASN	32	167.269	104.988	-94.902	1.00	101.38.11	FS
ATOM	9237	CB	ILE	26	173.987	112.624	-93.595	1.00	60.30	FS6	ATOM	9290	ND2	ASN	32	168.328	104.382	-95.079	1.00	101.38.11	FS
ATOM	9238	CG2	ILE	26	172.975	113.478	-92.834	1.00	60.30	FS6	ATOM	9291	C	ASN	32	166.374	105.168	-95.868	1.00	101.38.11	FS
ATOM	9239	CG1	ILE	26	175.287	112.459	-92.795	1.00	60.30	FS6	ATOM	9292	O	ASN	32	164.874	105.990	-92.218	1.00	75.39	FS
ATOM	9240	CD1	ILE	26	175.960	113.781	-92.429	1.00	60.30	FS6	ATOM	9293	N	TYR	33	165.022	106.888	-91.247	1.00	91.23	FS

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ATOM	9294	CA	TYR	33	164.406	106.683	-89.942	1.00	91.23	FS6	ATOM	9347	NZ	LYS	39	166.387	128.364	-87.638	1.00103.20	FS
ATOM	9295	CB	TYR	33	165.431	106.920	-88.831	1.00	68.69	FS6	ATOM	9348	C	LYS	39	167.447	122.953	-91.083	1.00 72.92	FS
ATOM	9296	CG	TYR	33	166.489	105.844	-88.803	1.00	68.69	FS6	ATOM	9349	O	LYS	39	167.630	122.120	-90.200	1.00 72.92	FS
ATOM	9297	CD1	TYR	33	167.639	105.949	-89.581	1.00	68.69	FS6	ATOM	9350	N	VAL	40	168.447	123.530	-91.739	1.00 76.50	FS
ATOM	9298	CE1	TYR	33	168.559	104.905	-89.649	1.00	68.69	FS6	ATOM	9351	CA	VAL	40	169.816	123.149	-91.441	1.00 76.50	FS
ATOM	9299	CD2	TYR	33	166.287	104.669	-88.081	1.00	68.69	FS6	ATOM	9352	CB	VAL	40	170.283	122.030	-92.405	1.00 86.92	FS
ATOM	9300	CE2	TYR	33	167.195	103.622	-88.141	1.00	68.69	FS6	ATOM	9353	CG1	VAL	40	170.177	122.515	-93.830	1.00 86.92	FS
ATOM	9301	CZ	TYR	33	168.326	103.745	-88.928	1.00	68.69	FS6	ATOM	9354	CG2	VAL	40	171.712	121.606	-92.087	1.00 86.92	FS
ATOM	9302	OH	TYR	33	169.206	102.694	-89.015	1.00	68.69	FS6	ATOM	9355	C	VAL	40	170.810	124.289	-91.505	1.00 76.50	FS
ATOM	9303	C	TYR	33	163.166	107.513	-89.689	1.00	91.23	FS6	ATOM	9356	O	VAL	40	170.606	125.272	-92.209	1.00 76.50	FS
ATOM	9304	O	TYR	33	162.402	107.226	-88.771	1.00	91.23	FS6	ATOM	9357	N	GLU	41	171.879	124.145	-90.733	1.00 84.28	FS
ATOM	9305	N	GLY	34	162.955	108.533	-90.509	1.00	70.33	FS6	ATOM	9358	CA	GLU	41	172.958	125.113	-90.695	1.00 84.28	FS
ATOM	9306	CA	GLY	34	161.785	109.368	-90.334	1.00	70.33	FS6	ATOM	9359	CB	GLU	41	173.075	125.759	-89.322	1.00102.22	FS
ATOM	9307	C	GLY	34	162.196	110.784	-90.003	1.00	70.33	FS6	ATOM	9360	CG	GLU	41	171.983	126.757	-89.032	1.00102.22	FS
ATOM	9308	O	GLY	34	161.354	111.657	-89.781	1.00	70.33	FS6	ATOM	9361	CD	GLU	41	172.202	127.480	-87.723	1.00102.22	FS
ATOM	9309	N	ALA	35	163.502	111.014	-89.966	1.00111.68	FS6	ATOM	9362	OE1	GLU	41	173.312	128.023	-87.529	1.00102.22	FS	
ATOM	9310	CA	ALA	35	164.018	112.338	-89.665	1.00111.68	FS6	ATOM	9363	OE2	GLU	41	171.263	127.512	-86.896	1.00102.22	FS	
ATOM	9311	CB	ALA	35	165.525	112.285	-89.501	1.00 90.32	FS6	ATOM	9364	C	GLU	41	174.207	124.320	-90.991	1.00 84.28	FS	
ATOM	9312	C	ALA	35	163.647	113.305	-90.779	1.00111.68	FS6	ATOM	9365	O	GLU	41	174.179	123.089	-90.997	1.00 84.28	FS	
ATOM	9313	O	ALA	35	164.156	113.213	-91.896	1.00111.68	FS6	ATOM	9366	N	GLU	42	175.303	125.016	-91.238	1.00117.33	FS	
ATOM	9314	N	ARG	36	162.750	114.230	-90.471	1.00 60.21	FS6	ATOM	9367	CA	GLU	42	176.545	124.339	-91.545	1.00117.33	FS	
ATOM	9315	CA	ARG	36	162.315	115.220	-91.440	1.00 60.21	FS6	ATOM	9368	CB	GLU	42	176.489	123.790	-92.968	1.00122.55	FS	
ATOM	9316	CB	ARG	36	160.800	115.387	-91.336	1.00103.56	FS6	ATOM	9369	CG	GLU	42	177.730	123.048	-93.418	1.00122.55	FS	
ATOM	9317	CG	ARG	36	160.260	116.684	-91.887	1.00103.56	FS6	ATOM	9370	CD	GLU	42	177.477	122.231	-94.675	1.00122.55	FS	
ATOM	9318	CD	ARG	36	158.790	116.829	-91.548	1.00103.56	FS6	ATOM	9371	OE1	GLU	42	178.448	121.689	-95.248	1.00122.55	FS	
ATOM	9319	NE	ARG	36	158.313	118.180	-91.810	1.00103.56	FS6	ATOM	9372	OE2	GLU	42	176.301	122.126	-95.087	1.00122.55	FS	
ATOM	9320	CZ	ARG	36	158.792	119.264	-91.209	1.00103.56	FS6	ATOM	9373	C	GLU	42	177.692	125.313	-91.399	1.00117.33	FS	
ATOM	9321	NH1	ARG	36	159.762	119.148	-90.311	1.00103.56	FS6	ATOM	9374	O	GLU	42	178.018	126.041	-92.335	1.00117.33	FS	
ATOM	9322	NH2	ARG	36	158.306	120.464	-91.508	1.00103.56	FS6	ATOM	9375	N	LEU	43	178.284	125.344	-90.211	1.00 82.78	FS	
ATOM	9323	C	ARG	36	163.029	116.546	-91.152	1.00 60.21	FS6	ATOM	9376	CA	LEU	43	179.404	126.233	-89.965	1.00 82.78	FS	
ATOM	9324	O	ARG	36	162.688	117.237	-90.191	1.00 60.21	FS6	ATOM	9377	CB	LEU	43	179.696	126.337	-88.466	1.00 82.20	FS	
ATOM	9325	N	VAL	37	164.006	116.907	-91.985	1.00 58.30	FS6	ATOM	9378	CG	LEU	43	178.600	126.889	-87.548	1.00 82.20	FS	
ATOM	9326	CA	VAL	37	164.770	118.147	-91.783	1.00 58.30	FS6	ATOM	9379	CD1	LEU	43	178.170	128.265	-88.023	1.00 82.20	FS	
ATOM	9327	CB	VAL	37	165.883	118.300	-92.847	1.00 63.61	FS6	ATOM	9380	CD2	LEU	43	177.418	125.936	-87.529	1.00 82.20	FS	
ATOM	9328	CG1	VAL	37	166.674	119.577	-92.584	1.00 63.61	FS6	ATOM	9381	C	LEU	43	180.593	125.626	-90.690	1.00 82.78	FS	
ATOM	9329	CG2	VAL	37	166.804	117.079	-92.835	1.00 63.61	FS6	ATOM	9382	O	LEU	43	181.454	126.345	-91.209	1.00 82.78	FS	
ATOM	9330	C	VAL	37	163.959	119.446	-91.791	1.00 58.30	FS6	ATOM	9383	N	GLY	44	180.616	124.295	-90.727	1.00 90.31	FS	
ATOM	9330	C	VAL	37	163.959	119.446	-91.791	1.00 58.30	FS6	ATOM	9383	N	GLY	44	180.616	124.295	-90.727	1.00 90.31	FS	
ATOM	9331	O	VAL	37	163.557	119.914	-92.855	1.00 58.30	FS6	ATOM	9384	CA	GLY	44	181.682	123.570	-91.395	1.00 90.31	FS	
ATOM	9332	N	GLU	38	163.742	120.032	-90.610	1.00 81.50	FS6	ATOM	9385	C	GLY	44	181.682	123.570	-91.395	1.00 90.31	FS	
ATOM	9333	CA	GLU	38	162.996	121.295	-90.479	1.00 81.50	FS6	ATOM	9386	O	GLY	44	183.087	124.074	-91.119	1.00 90.31	FS	
ATOM	9334	CB	GLU	38	162.616	121.569	-89.022	1.00 99.03	FS6	ATOM	9387	N	LEU	45	183.492	125.121	-91.630	1.00 90.31	FS	
ATOM	9335	CG	GLU	38	161.429	120.783	-88.506	1.00 99.03	FS6	ATOM	9388	CA	LEU	45	183.832	123.317	-90.319	1.00106.43	FS	
ATOM	9336	CD	GLU	38	160.788	121.452	-87.304	1.00 99.03	FS6	ATOM	9389	CB	LEU	45	185.207	123.658	-89.960	1.00106.43	FS	
ATOM	9337	OE1	GLU	38	159.824	120.890	-86.744	1.00 99.03	FS6	ATOM	9390	CG	LEU	45	185.984	124.165	-91.177	1.00 64.12	FS	
ATOM	9338	OE2	GLU	38	161.247	122.550	-86.925	1.00 99.03	FS6	ATOM	9391	CD1	LEU	45	186.369	123.104	-92.205	1.00 64.12	FS	
ATOM	9339	C	GLU	38	163.801	122.486	-90.994	1.00 81.50	FS6	ATOM	9392	CD2	LEU	45	186.029	123.610	-93.609	1.00 64.12	FS	
ATOM	9340	O	GLU	38	163.242	123.519	-91.360	1.00 81.50	FS6	ATOM	9393	C	LEU	45	187.854	122.761	-92.069	1.00 64.12	FS	
ATOM	9341	N	GLU	39	165.119	122.337	-90.984	1.00 72.92	FS6	ATOM	9394	O	LEU	45	185.335	124.681	-88.849	1.00106.43	FS	
ATOM	9342	CA	LYS	39	166.036	123.357	-91.472	1.00 72.92	FS6	ATOM	9395	N	ARG	46	184.852	125.807	-88.958	1.00106.43	FS	
ATOM	9343	CB	LYS	39	165.695	124.745	-90.916	1.00103.20	FS6	ATOM	9396	CA	ARG	46	185.996	124.266	-87.775	1.00 89.07	FS	
ATOM	9344	CG	LYS	39	166.143	125.029	-89.509	1.00103.20	FS6	ATOM	9397	CB	ARG	46	186.252	125.125	-86.632	1.00 89.07	FS	
ATOM	9345	CD	LYS	39	166.035	126.523	-89.267	1.00103.20	FS6	ATOM	9398	CG	ARG	46	185.092	125.106	-85.641	1.00140.30	FS	
ATOM	9346	CE	LYS	39	166.371	126.890	-87.841	1.00103.20	FS6	ATOM	9399	CD	ARG	46	183.990	126.094	-85.959	1.00140.30	FS	

ATOM	9400	NE	ARG	46	182.018	127.213	-84.985	1.00140.30	FS6	ATOM	9453	CG1	ILE	52	187.764	116.034	-81.435	1.00	71.12	FS6	
ATOM	9401	C2	ARG	46	181.123	127.559	-84.065	1.00140.30	FS6	ATOM	9454	CD1	ILE	52	186.352	116.585	-81.544	1.00	71.12	FS6	
ATOM	9402	NH1	ARG	46	181.216	127.076	-82.834	1.00140.30	FS6	ATOM	9455	C	ILE	52	189.981	113.712	-83.573	1.00	73.99	FS6	
ATOM	9403	NH2	ARG	46	180.131	128.383	-84.374	1.00140.30	FS6	ATOM	9456	O	ILE	52	190.026	114.182	-84.713	1.00	73.99	FS6	
ATOM	9404	C	ARG	46	187.503	124.598	-85.972	1.00	89.07	FS6	ATOM	9457	N	ALA	53	190.281	112.447	-83.297	1.00	95.97	FS6
ATOM	9405	O	ARG	46	187.909	123.463	-86.223	1.00	89.07	FS6	ATOM	9458	CA	ALA	53	190.709	111.529	-84.338	1.00	95.97	FS6
ATOM	9406	N	ARG	47	188.108	125.422	-85.133	1.00	80.97	FS6	ATOM	9459	CB	ALA	53	189.656	111.447	-85.436	1.00	60.53	FS6
ATOM	9407	CA	ARG	47	189.333	125.045	-84.444	1.00	80.97	FS6	ATOM	9460	C	ALA	53	192.024	112.084	-84.893	1.00	95.97	FS6
ATOM	9408	CB	ARG	47	189.699	126.118	-83.411	1.00164.00	FS6	ATOM	9461	O	ALA	53	192.164	112.300	-86.100	1.00	95.97	FS6	
ATOM	9409	CG	ARG	47	189.994	127.485	-84.015	1.00164.00	FS6	ATOM	9462	N	LYS	54	192.974	112.329	-83.989	1.00	79.84	FS6	
ATOM	9410	CD	ARG	47	191.136	127.409	-85.027	1.00164.00	FS6	ATOM	9463	CA	LYS	54	194.294	112.867	-84.332	1.00	79.84	FS6	
ATOM	9411	NE	ARG	47	191.373	128.681	-85.710	1.00164.00	FS6	ATOM	9464	CB	LYS	54	195.024	111.927	-85.291	1.00103.08	FS6		
ATOM	9412	C2	ARG	47	192.228	128.844	-86.718	1.00164.00	FS6	ATOM	9465	CG	LYS	54	194.814	110.449	-85.007	1.00103.08	FS6		
ATOM	9413	NH1	ARG	47	192.937	127.815	-87.167	1.00164.00	FS6	ATOM	9466	CD	LYS	54	195.185	110.090	-83.583	1.00103.08	FS6		
ATOM	9414	NH2	ARG	47	192.375	130.037	-87.281	1.00164.00	FS6	ATOM	9467	CE	LYS	54	194.953	108.610	-83.314	1.00103.08	FS6		
ATOM	9415	C	ARG	47	189.323	123.674	-83.764	1.00	80.97	FS6	ATOM	9468	NZ	LYS	54	195.232	108.268	-81.891	1.00103.08	FS6	
ATOM	9416	O	ARG	47	190.041	122.762	-84.180	1.00	80.97	FS6	ATOM	9469	C	LYS	54	194.193	114.248	-84.972	1.00	79.84	FS6
ATOM	9417	N	LEU	48	188.492	123.546	-82.732	1.00	63.01	FS6	ATOM	9470	O	LYS	54	195.074	115.089	-84.806	1.00	79.84	FS6
ATOM	9418	CA	LEU	48	188.370	122.348	-81.891	1.00	63.01	FS6	ATOM	9471	N	ASP	55	193.106	114.476	-85.699	1.00	65.84	FS6
ATOM	9419	CB	LEU	48	188.841	121.057	-82.565	1.00	48.91	FS6	ATOM	9472	CA	ASP	55	192.873	115.738	-86.390	1.00	65.84	FS6
ATOM	9420	CG	LEU	48	187.886	120.331	-83.519	1.00	48.91	FS6	ATOM	9473	CB	ASP	55	191.622	115.610	-87.254	1.00103.26	FS6	
ATOM	9421	CD1	LEU	48	186.130	118.809	-83.446	1.00	48.91	FS6	ATOM	9474	CG	ASP	55	191.693	116.453	-88.439	1.00103.26	FS6	
ATOM	9422	CD2	LEU	48	186.442	120.634	-83.144	1.00	48.91	FS6	ATOM	9475	OD1	ASP	55	191.810	117.691	-88.373	1.00103.26	FS6	
ATOM	9423	C	LEU	48	189.231	122.591	-80.664	1.00	63.01	FS6	ATOM	9476	OD2	ASP	55	191.638	115.868	-89.602	1.00103.26	FS6	
ATOM	9424	O	LEU	48	190.401	122.980	-80.770	1.00	63.01	FS6	ATOM	9477	C	ASP	55	192.722	116.942	-85.452	1.00	65.84	FS6
ATOM	9425	N	ALA	49	188.627	122.382	-79.501	1.00	59.69	FS6	ATOM	9478	O	ASP	55	192.068	116.850	-84.413	1.00	65.84	FS6
ATOM	9426	CA	ALA	49	189.292	122.589	-78.226	1.00	59.69	FS6	ATOM	9479	N	PRO	56	193.333	118.086	-85.812	1.00	66.37	FS6
ATOM	9427	CB	ALA	49	188.291	122.412	-77.101	1.00	72.13	FS6	ATOM	9480	CD	PRO	56	194.368	118.191	-86.856	1.00101.45	FS6	
ATOM	9428	C	ALA	49	190.433	121.610	-78.054	1.00	59.69	FS6	ATOM	9481	CA	PRO	56	193.286	119.328	-85.034	1.00	66.37	FS6
ATOM	9429	O	ALA	49	191.373	121.843	-77.295	1.00	59.69	FS6	ATOM	9482	CB	PRO	56	194.631	119.958	-86.733	1.00101.45	FS6	
ATOM	9430	N	TYR	50	190.355	120.518	-78.788	1.00	42.26	FS6	ATOM	9483	CG	PRO	56	194.774	119.662	-86.773	1.00101.45	FS6	
ATOM	9431	CA	TYR	50	191.358	119.488	-78.669	1.00	42.26	FS6	ATOM	9484	C	PRO	56	192.129	120.234	-85.465	1.00	66.37	FS6
ATOM	9432	CB	TYR	50	191.120	118.696	-77.380	1.00	47.43	FS6	ATOM	9485	O	PRO	56	192.131	121.434	-85.167	1.00	66.37	FS6
ATOM	9433	CG	TYR	50	189.711	118.126	-77.273	1.00	47.43	FS6	ATOM	9486	N	GLN	57	191.155	119.651	-86.167	1.00	59.84	FS6
ATOM	9434	CD1	TYR	50	188.658	118.891	-76.756	1.00	47.43	FS6	ATOM	9487	CA	GLN	57	189.978	120.377	-86.659	1.00	59.84	FS6
ATOM	9435	CE1	TYR	50	187.367	118.375	-76.672	1.00	47.43	FS6	ATOM	9488	CB	GLN	57	190.321	121.138	-87.944	1.00129.48	FS6	
ATOM	9436	CD2	TYR	50	189.431	116.831	-77.706	1.00	47.43	FS6	ATOM	9489	CG	GLN	57	191.280	122.299	-87.765	1.00129.48	FS6	
ATOM	9437	CE2	TYR	50	188.140	116.301	-77.629	1.00	47.43	FS6	ATOM	9490	CD	GLN	57	191.737	122.876	-89.087	1.00129.48	FS6	
ATOM	9438	CZ	TYR	50	187.113	117.077	-77.110	1.00	47.43	FS6	ATOM	9491	OE1	GLN	57	192.448	123.879	-89.127	1.00129.48	FS6	
ATOM	9439	OH	TYR	50	185.839	116.547	-77.026	1.00	47.43	FS6	ATOM	9492	NE2	GLN	57	191.337	122.239	-90.179	1.00129.48	FS6	
ATOM	9440	C	TYR	50	191.273	118.538	-79.849	1.00	42.26	FS6	ATOM	9493	C	GLN	57	188.799	119.445	-86.951	1.00	59.84	FS6
ATOM	9441	O	TYR	50	190.203	118.345	-80.435	1.00	42.26	FS6	ATOM	9494	O	GLN	57	188.930	118.216	-86.935	1.00	59.84	FS6
ATOM	9442	N	PRO	51	192.396	117.900	-80.190	1.00	48.96	FS6	ATOM	9495	N	GLY	58	187.647	120.042	-87.231	1.00	68.89	FS6
ATOM	9443	CD	PRO	51	193.594	117.646	-79.375	1.00	86.71	FS6	ATOM	9496	CA	GLY	58	186.467	119.254	-87.532	1.00	68.89	FS6
ATOM	9444	CA	PRO	51	192.343	116.981	-81.319	1.00	48.96	FS6	ATOM	9497	C	GLY	58	185.521	120.000	-88.452	1.00	68.89	FS6
ATOM	9445	CB	PRO	51	193.669	116.236	-81.214	1.00	86.71	FS6	ATOM	9498	O	GLY	58	185.548	121.228	-88.512	1.00	68.89	FS6
ATOM	9446	C	PRO	51	193.913	116.218	-79.741	1.00	86.71	FS6	ATOM	9499	N	TYR	59	184.689	119.260	-89.174	1.00	88.63	FS6
ATOM	9447	C	PRO	51	191.154	116.049	-81.181	1.00	48.96	FS6	ATOM	9500	CA	TYR	59	183.730	119.868	-90.082	1.00	88.63	FS6
ATOM	9448	O	PRO	51	190.664	115.830	-80.074	1.00	48.96	FS6	ATOM	9501	CB	TYR	59	183.837	119.237	-91.462	1.00	77.10	FS6
ATOM	9449	N	ILE	52	190.687	115.541	-82.318	1.00	73.99	FS6	ATOM	9502	CG	TYR	59	183.102	120.010	-92.526	1.00	77.10	FS6
ATOM	9450	CA	ILE	52	189.592	114.582	-82.390	1.00	73.99	FS6	ATOM	9503	CD1	TYR	59	183.558	121.257	-92.937	1.00	77.10	FS6
ATOM	9451	CB	ILE	52	188.220	115.248	-82.664	1.00	71.12	FS6	ATOM	9504	CE1	TYR	59	182.889	121.976	-93.903	1.00	77.10	FS6
ATOM	9452	CG2	ILE	52	187.180	114.180	-82.990	1.00	71.12	FS6	ATOM	9505	CD2	TYR	59	181.944	119.500	-93.115	1.00	77.10	FS6

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ATOM	9506	CE2	TYR	59	181.264	120.217	-94.088	1.00	77.10	FS6	ATOM	9559	CG	GLN	64	165.199	121.699	-85.860	1.00	81.60	FS
ATOM	9507	CZ	TYR	59	181.746	121.455	-94.478	1.00	77.10	FS6	ATOM	9560	CD	GLN	64	164.764	123.078	-85.450	1.00	81.60	FS
ATOM	9508	OH	TYR	59	181.102	122.173	-95.460	1.00	77.10	FS6	ATOM	9561	OE1	GLN	64	165.481	123.779	-84.726	1.00	81.60	FS
ATOM	9509	C	TYR	59	182.341	119.625	-89.518	1.00	88.63	FS6	ATOM	9562	NE2	GLN	64	163.584	123.487	-85.910	1.00	81.60	FS
ATOM	9510	O	TYR	59	181.805	118.519	-89.621	1.00	88.63	FS6	ATOM	9563	C	GLN	64	165.954	119.446	-87.486	1.00	84.01	FS
ATOM	9511	N	PHE	60	181.760	120.668	-88.933	1.00	76.12	FS6	ATOM	9564	O	GLN	64	165.423	119.774	-88.539	1.00	84.01	FS
ATOM	9512	CA	PHE	60	180.445	120.575	-88.309	1.00	76.12	FS6	ATOM	9565	N	VAL	65	165.609	118.340	-86.838	1.00	78.72	FS
ATOM	9513	CB	PHE	60	180.313	121.625	-87.208	1.00	90.60	FS6	ATOM	9566	CA	VAL	65	164.605	117.450	-87.409	1.00	78.72	FS
ATOM	9514	CG	PHE	60	181.313	121.477	-86.103	1.00	90.60	FS6	ATOM	9567	CB	VAL	65	165.221	116.077	-87.761	1.00	80.28	FS
ATOM	9515	CD1	PHE	60	182.536	121.990	-86.235	1.00	90.60	FS6	ATOM	9568	CG1	VAL	65	166.436	116.265	-88.643	1.00	80.28	FS
ATOM	9516	CD2	PHE	60	180.970	120.825	-84.926	1.00	90.60	FS6	ATOM	9569	CG2	VAL	65	165.588	115.330	-86.493	1.00	80.28	FS
ATOM	9517	CE1	PHE	60	183.526	121.859	-85.209	1.00	90.60	FS6	ATOM	9570	C	VAL	65	163.369	117.174	-86.568	1.00	78.72	FS
ATOM	9518	CE2	PHE	60	181.887	120.686	-83.895	1.00	90.60	FS6	ATOM	9571	O	VAL	65	163.122	117.813	-85.551	1.00	78.72	FS
ATOM	9519	CZ	PHE	60	183.170	121.205	-84.036	1.00	90.60	FS6	ATOM	9572	N	GLU	66	162.595	116.208	-87.050	1.00	78.26	FS
ATOM	9520	C	PHE	60	179.236	120.688	-89.226	1.00	76.12	FS6	ATOM	9573	CA	GLU	66	161.381	115.719	-86.418	1.00	78.26	FS
ATOM	9521	O	PHE	60	179.324	121.150	-90.355	1.00	76.12	FS6	ATOM	9574	CB	GLU	66	160.146	116.428	-86.959	1.00	78.26	FS
ATOM	9522	N	LEU	61	178.039	120.261	-88.695	1.00	111.17	FS6	ATOM	9575	CG	GLU	66	160.006	117.856	-86.490	1.00	139.23	FS
ATOM	9523	CA	LEU	61	176.823	120.288	-89.390	1.00	111.17	FS6	ATOM	9576	CG	GLU	66	158.565	118.332	-86.527	1.00	139.23	FS
ATOM	9524	CB	LEU	61	176.594	118.958	-90.110	1.00	93.58	FS6	ATOM	9577	OE1	GLU	66	157.959	118.318	-87.621	1.00	139.23	FS
ATOM	9525	CG	LEU	61	177.407	118.710	-91.384	1.00	93.58	FS6	ATOM	9578	OE2	GLU	66	161.625	113.938	-87.986	1.00	78.26	FS
ATOM	9526	CD1	LEU	61	177.259	117.259	-91.821	1.00	93.58	FS6	ATOM	9579	C	GLU	66	161.035	111.936	-86.195	1.00	59.54	FS
ATOM	9527	CD2	LEU	61	176.930	119.659	-92.480	1.00	93.58	FS6	ATOM	9580	O	GLU	66	162.467	111.467	-86.429	1.00	79.78	FS
ATOM	9528	C	LEU	61	175.759	120.494	-88.316	1.00	111.17	FS6	ATOM	9581	N	MET	67	163.359	111.759	-85.231	1.00	79.78	FS
ATOM	9529	O	LEU	61	174.531	120.811	-88.715	1.00	113.06	FS6	ATOM	9582	CA	MET	67	165.087	109.593	-85.306	1.00	79.78	FS
ATOM	9530	N	TRP	62	173.473	121.023	-87.735	1.00	113.06	FS6	ATOM	9583	CB	MET	67	160.447	111.145	-85.038	1.00	59.54	FS
ATOM	9531	CA	TRP	62	172.974	122.461	-87.803	1.00	119.37	FS6	ATOM	9584	CG	MET	67	160.122	111.702	-83.997	1.00	59.54	FS
ATOM	9532	CB	TRP	62	172.051	122.801	-86.690	1.00	119.37	FS6	ATOM	9585	SD	MET	67	160.295	109.832	-85.206	1.00	84.58	FS
ATOM	9533	CG	TRP	62	170.844	123.559	-86.783	1.00	119.37	FS6	ATOM	9586	CE	MET	67	160.280	109.044	-86.448	1.00	86.27	FS
ATOM	9534	CD2	TRP	62	170.313	123.658	-85.481	1.00	119.37	FS6	ATOM	9587	C	MET	67	159.740	109.068	-84.087	1.00	84.58	FS
ATOM	9535	CE2	TRP	62	170.159	124.166	-87.843	1.00	119.37	FS6	ATOM	9588	O	MET	67	159.479	107.698	-84.703	1.00	86.27	FS
ATOM	9536	CE3	TRP	62	172.201	122.477	-85.373	1.00	119.37	FS6	ATOM	9589	N	PRO	68	159.209	108.031	-86.155	1.00	86.27	FS
ATOM	9537	CD1	TRP	62	171.161	122.988	-84.639	1.00	119.37	FS6	ATOM	9590	CD	PRO	68	160.786	109.014	-82.964	1.00	84.58	FS
ATOM	9538	NE1	TRP	62	169.127	124.341	-85.208	1.00	119.37	FS6	ATOM	9591	CA	PRO	68	161.952	108.697	-83.208	1.00	84.58	FS
ATOM	9539	CZ2	TRP	62	168.981	124.846	-87.572	1.00	119.37	FS6	ATOM	9592	CB	PRO	68	160.378	109.337	-81.743	1.00	68.34	FS
ATOM	9540	CZ3	TRP	62	168.477	124.927	-86.263	1.00	119.37	FS6	ATOM	9593	CG	PRO	68	161.296	109.318	-80.612	1.00	68.34	FS
ATOM	9541	CH2	TRP	62	172.310	120.049	-87.897	1.00	113.06	FS6	ATOM	9594	C	PRO	68	160.556	110.595	-79.564	1.00	113.66	FS
ATOM	9542	C	TRP	62	172.317	118.978	-87.290	1.00	113.06	FS6	ATOM	9595	O	PRO	68	158.121	109.823	-79.953	1.00	113.66	FS
ATOM	9543	O	TRP	62	170.581	118.101	-89.201	1.00	100.91	FS6	ATOM	9596	N	GLU	69	157.067	110.047	-79.323	1.00	113.66	FS
ATOM	9544	N	TYR	63	170.154	119.548	-88.941	1.00	79.72	FS6	ATOM	9597	CA	GLU	69	161.909	107.928	-80.479	1.00	68.34	FS
ATOM	9545	CA	TYR	63	170.581	118.101	-89.201	1.00	100.91	FS6	ATOM	9598	CB	GLU	69	163.091	107.786	-80.157	1.00	68.34	FS
ATOM	9546	CB	TYR	63	171.518	117.845	-90.349	1.00	100.91	FS6	ATOM	9599	CG	GLU	69	161.099	106.905	-80.720	1.00	67.14	FS
ATOM	9547	CG	TYR	63	172.697	118.570	-90.500	1.00	100.91	FS6	ATOM	9600	CD	GLU	69	161.552	105.522	-80.748	1.00	67.14	FS
ATOM	9548	CD1	TYR	63	173.628	118.238	-91.485	1.00	100.91	FS6	ATOM	9601	OE1	GLU	69	160.352	104.588	-80.620	1.00	111.12	FS
ATOM	9549	CE1	TYR	63	171.284	116.785	-91.218	1.00	100.91	FS6	ATOM	9602	OE2	GLU	69	159.566	104.815	-82.012	1.00	111.12	FS
ATOM	9550	CD2	TYR	63	172.201	116.444	-92.200	1.00	100.91	FS6	ATOM	9603	C	GLU	69	159.240	105.988	-82.304	1.00	111.12	FS
ATOM	9551	CE2	TYR	63	173.376	117.170	-92.330	1.00	100.91	FS6	ATOM	9604	O	GLU	69	159.271	103.825	-82.715	1.00	111.12	FS
ATOM	9552	CZ	TYR	63	174.304	116.812	-93.289	1.00	100.91	FS6	ATOM	9605	N	ASP	70	162.566	105.174	-81.721	1.00	67.14	FS
ATOM	9553	OH	TYR	63	169.114	119.475	-87.823	1.00	79.72	FS6	ATOM	9606	CA	ASP	70						
ATOM	9554	C	TYR	63	169.207	118.613	-86.946	1.00	79.72	FS6	ATOM	9607	CB	ASP	70						
ATOM	9555	O	TYR	63	168.122	120.357	-87.857	1.00	84.01	FS6	ATOM	9608	CG	ASP	70						
ATOM	9556	N	GLN	64	167.042	120.324	-86.874	1.00	84.01	FS6	ATOM	9609	OD1	ASP	70						
ATOM	9557	CA	GLN	64	166.485	121.719	-86.635	1.00	81.60	FS6	ATOM	9610	OD2	ASP	70						
ATOM	9558	CB	GLN	64						FS6	ATOM	9611	C	ASP	70						

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ATOM	9612	O	ASP	70	162.832	103.997	-81.984	1.00	67.14	FS6	ATOM	9665	NE	ARG	77	171.838	101.191	-82.017	1.00145.59	FS
ATOM	9613	N	ARG	71	163.137	106.196	-82.350	1.00	72.04	FS6	ATOM	9666	CZ	ARG	77	172.753	101.177	-81.050	1.00145.59	FS
ATOM	9614	CA	ARG	71	164.095	105.980	-83.426	1.00	72.04	FS6	ATOM	9667	NH1	ARG	77	174.024	100.923	-81.339	1.00145.59	FS
ATOM	9615	CB	ARG	71	163.455	106.356	-84.765	1.00127.59		FS6	ATOM	9668	NH2	ARG	77	172.400	101.427	-79.794	1.00145.59	FS
ATOM	9616	CG	ARG	71	162.090	105.727	-84.989	1.00127.59		FS6	ATOM	9669	C	ARG	77	174.049	104.237	-85.469	1.00145.59	FS
ATOM	9617	CD	ARG	71	162.179	104.530	-85.674	1.00127.59		FS6	ATOM	9670	O	ARG	77	175.143	103.703	-85.618	1.0074.13	FS
ATOM	9618	NE	ARG	71	162.271	104.338	-87.123	1.00127.59		FS6	ATOM	9671	N	GLU	78	173.281	104.634	-86.480	1.0089.07	FS
ATOM	9619	CZ	ARG	71	162.263	103.518	-87.983	1.00127.59		FS6	ATOM	9672	CA	GLU	78	173.665	104.453	-87.877	1.0089.07	FS
ATOM	9620	NH1	ARG	71	162.170	102.270	-87.542	1.00127.59		FS6	ATOM	9673	CB	GLU	78	172.409	104.521	-88.761	1.00100.75	FS
ATOM	9621	NH2	ARG	71	165.340	103.756	-89.287	1.00127.59		FS6	ATOM	9674	CG	GLU	78	172.634	104.363	-90.271	1.00100.75	FS
ATOM	9622	C	ARG	71	165.356	106.801	-83.225	1.0072.04		FS6	ATOM	9675	CD	GLU	78	173.688	102.498	-90.749	1.00100.75	FS
ATOM	9623	O	ARG	71	166.427	106.421	-83.687	1.0072.04		FS6	ATOM	9676	OE1	GLU	78	173.731	102.498	-91.300	1.00100.75	FS
ATOM	9624	N	VAL	72	165.219	107.926	-82.533	1.0069.88		FS6	ATOM	9677	OE2	GLU	78	171.687	102.175	-90.589	1.00100.75	FS
ATOM	9625	CA	VAL	72	166.340	108.817	-82.282	1.0069.88		FS6	ATOM	9678	C	GLU	78	174.692	105.501	-88.324	1.0089.07	FS
ATOM	9626	CB	VAL	72	166.062	109.721	-81.082	1.0067.92		FS6	ATOM	9679	O	GLU	78	175.616	105.191	-89.073	1.0089.07	FS
ATOM	9627	CG1	VAL	72	166.899	110.980	-81.175	1.0067.92		FS6	ATOM	9680	N	LEU	79	174.540	106.735	-87.854	1.0063.64	FS
ATOM	9628	CG2	VAL	72	164.601	110.064	-81.033	1.0067.92		FS6	ATOM	9681	CA	LEU	79	175.460	107.806	-88.235	1.0063.64	FS
ATOM	9629	C	VAL	72	167.634	108.052	-82.035	1.0069.88		FS6	ATOM	9682	CB	LEU	79	175.007	109.152	-87.672	1.0051.23	FS
ATOM	9630	O	VAL	72	168.630	108.278	-82.718	1.0069.88		FS6	ATOM	9683	CG	LEU	79	173.548	109.552	-87.831	1.0051.23	FS
ATOM	9631	N	ASN	73	167.635	107.145	-81.064	1.0070.06		FS6	ATOM	9684	CD1	LEU	79	173.418	111.079	-87.676	1.0051.23	FS
ATOM	9632	CA	ASN	73	168.844	106.374	-80.792	1.0070.06		FS6	ATOM	9685	CD2	LEU	79	173.051	109.096	-89.201	1.0051.23	FS
ATOM	9633	CB	ASN	73	168.586	105.353	-79.679	1.0070.75		FS6	ATOM	9686	C	LEU	79	176.896	107.582	-87.781	1.0063.64	FS
ATOM	9634	CG	ASN	73	168.837	105.932	-78.287	1.0070.75		FS6	ATOM	9687	O	LEU	79	177.840	107.887	-88.510	1.0063.64	FS
ATOM	9635	CD	ASN	73	169.966	105.918	-77.791	1.0070.75		FS6	ATOM	9688	N	ARG	80	177.068	107.068	-86.571	1.0097.44	FS
ATOM	9636	ND2	ASN	73	167.787	106.462	-77.664	1.0070.75		FS6	ATOM	9689	CA	ARG	80	178.407	106.854	-86.044	1.0055.29	FS
ATOM	9637	C	ASN	73	169.333	105.691	-82.070	1.0070.06		FS6	ATOM	9690	CB	ARG	80	177.518	107.308	-83.647	1.0055.29	FS
ATOM	9638	O	ASN	73	170.360	106.090	-82.621	1.0069.10		FS6	ATOM	9691	CG	ARG	80	177.319	106.633	-82.267	1.0055.29	FS
ATOM	9639	N	ASP	74	168.596	104.688	-82.550	1.0069.10		FS6	ATOM	9692	CD	ARG	80	176.237	107.223	-81.477	1.0055.29	FS
ATOM	9640	CA	ASP	74	168.960	103.975	-83.781	1.0069.10		FS6	ATOM	9693	NE	ARG	80	176.210	108.485	-81.059	1.0055.29	FS
ATOM	9641	CB	ASP	74	167.754	103.223	-84.334	1.00137.97		FS6	ATOM	9694	CZ	ARG	80	177.220	109.302	-81.349	1.0055.29	FS
ATOM	9642	CG	ASP	74	167.389	102.026	-83.498	1.00137.97		FS6	ATOM	9695	NH1	ARG	80	179.205	105.854	-86.892	1.0097.44	FS
ATOM	9643	OD1	ASP	74	167.238	102.192	-82.268	1.00137.97		FS6	ATOM	9696	NH2	ARG	80	179.205	105.854	-86.892	1.0097.44	FS
ATOM	9644	OD2	ASP	74	167.251	100.923	-84.070	1.00137.97		FS6	ATOM	9697	C	ARG	80	180.435	105.775	-86.778	1.0097.44	FS
ATOM	9645	C	ASP	74	169.501	104.898	-84.871	1.0069.10		FS6	ATOM	9698	O	ARG	80	178.504	105.114	-87.754	1.0080.75	FS
ATOM	9646	O	ASP	74	170.469	104.563	-85.548	1.0053.46		FS6	ATOM	9699	N	ILE	81	178.071	103.383	-89.465	1.0067.75	FS
ATOM	9647	N	LEU	75	168.875	106.056	-85.050	1.0053.46		FS6	ATOM	9700	CA	ILE	81	178.722	102.294	-90.288	1.0067.75	FS
ATOM	9648	CA	LEU	75	168.542	108.304	-85.989	1.0073.52		FS6	ATOM	9701	CB	ILE	81	177.031	102.763	-88.544	1.0067.75	FS
ATOM	9649	CB	LEU	75	168.932	109.493	-86.879	1.0073.52		FS6	ATOM	9702	CG2	ILE	81	175.902	102.113	-89.277	1.0067.75	FS
ATOM	9650	CG	LEU	75	169.057	110.272	-86.242	1.0073.52		FS6	ATOM	9703	CG1	ILE	81	180.166	104.691	-89.604	1.0080.75	FS
ATOM	9651	CD1	LEU	75	170.820	107.254	-85.876	1.0053.46		FS6	ATOM	9704	CD1	ILE	81	181.255	104.130	-89.784	1.0080.75	FS
ATOM	9652	CD2	LEU	75	171.630	106.995	-86.737	1.0053.46		FS6	ATOM	9705	C	ILE	81	179.812	105.801	-90.243	1.00109.80	FS
ATOM	9653	C	LEU	75	171.184	107.852	-84.746	1.0079.57		FS6	ATOM	9706	O	ILE	81	180.704	106.458	-91.186	1.00109.80	FS
ATOM	9654	O	LEU	76	172.589	108.150	-84.476	1.0079.57		FS6	ATOM	9707	N	ARG	82	180.083	107.777	-91.660	1.00121.49	FS
ATOM	9655	N	ALA	76	172.736	108.845	-83.125	1.0054.49		FS6	ATOM	9708	CA	ARG	82	179.121	107.256	-93.930	1.00121.49	FS
ATOM	9656	CA	ALA	76	173.418	106.871	-84.503	1.0079.57		FS6	ATOM	9709	CB	ARG	82	180.556	105.620	-95.087	1.00121.49	FS
ATOM	9657	CB	ALA	76	172.813	105.770	-84.085	1.0074.13		FS6	ATOM	9710	CG	ARG	82	180.669	106.430	-96.134	1.00121.49	FS
ATOM	9658	C	ALA	76	173.501	104.492	-84.082	1.0074.13		FS6	ATOM	9711	CD	ARG	82	181.169	104.445	-95.093	1.00121.49	FS
ATOM	9659	O	ALA	77	172.539	103.371	-83.704	1.00145.59		FS6	ATOM	9712	CZ	ARG	82	182.047	106.726	-90.513	1.00109.80	FS
ATOM	9660	N	ARG	77	173.082	101.983	-83.965	1.00145.59		FS6	ATOM	9713	NE	ARG	82	182.107	107.374	-89.468	1.00109.80	FS
ATOM	9661	CA	ARG	77						FS6	ATOM	9714	NH1	ARG	82					FS
ATOM	9662	CB	ARG	77						FS6	ATOM	9715	NH2	ARG	82					FS
ATOM	9663	CG	ARG	77						FS6	ATOM	9716	C	ARG	82					FS
ATOM	9664	CD	ARG	77						FS6	ATOM	9717	O	ARG	82					FS

ATOM	9718	N	ASP	83	183.120	106.217	-91.114	1.00	63.20	FS6	ATOM	9771	CA	MET	89	175.060	114.295	-80.780	1.00	65.82	FS
ATOM	9719	CA	ASP	83	184.467	106.394	-90.582	1.00	63.20	FS6	ATOM	9772	CB	MET	89	175.854	115.341	-79.990	1.00	73.30	FS
ATOM	9720	CB	ASP	83	185.464	105.535	-91.361	1.00	64.90	FS6	ATOM	9773	CG	MET	89	175.361	115.518	-78.558	1.00	73.30	FS
ATOM	9721	CG	ASP	83	185.016	104.093	-91.484	1.00	64.90	FS6	ATOM	9774	SD	MET	89	176.260	116.781	-77.617	1.00	73.30	FS
ATOM	9722	OD1	ASP	83	184.587	103.520	-90.459	1.00	64.90	FS6	ATOM	9775	CE	MET	89	175.209	118.220	-77.913	1.00	73.30	FS
ATOM	9723	OD2	ASP	83	185.094	103.531	-92.600	1.00	64.90	FS6	ATOM	9776	C	MET	89	173.628	114.784	-80.984	1.00	65.82	FS
ATOM	9724	C	ASP	83	184.902	107.851	-90.642	1.00	63.20	FS6	ATOM	9777	O	MET	89	173.387	115.985	-81.029	1.00	65.82	FS
ATOM	9725	O	ASP	83	185.854	108.251	-89.974	1.00	63.20	FS6	ATOM	9778	N	VAL	90	172.681	113.849	-81.095	1.00	88.48	FS
ATOM	9726	N	ASN	84	184.212	108.644	-91.447	1.00	82.88	FS6	ATOM	9779	CA	VAL	90	171.266	114.190	-81.194	1.00	88.48	FS
ATOM	9727	CA	ASN	84	184.549	110.050	-92.562	1.00	82.88	FS6	ATOM	9780	CB	VAL	90	170.423	112.939	-81.546	1.00	75.68	FS
ATOM	9728	CB	ASN	84	184.214	110.547	-92.957	1.00	104.43	FS6	ATOM	9781	CG1	VAL	90	169.000	113.353	-81.855	1.00	75.68	FS
ATOM	9729	CG	ASN	84	184.963	109.787	-94.016	1.00	104.43	FS6	ATOM	9782	CG2	VAL	90	171.042	112.192	-82.722	1.00	75.68	FS
ATOM	9730	OD1	ASN	84	186.188	109.857	-94.089	1.00	104.43	FS6	ATOM	9783	C	VAL	90	170.750	114.791	-79.874	1.00	88.48	FS
ATOM	9731	ND2	ASN	84	184.237	109.033	-94.832	1.00	104.43	FS6	ATOM	9784	O	VAL	90	170.898	114.198	-78.802	1.00	88.48	FS
ATOM	9732	C	ASN	84	183.775	110.816	-90.512	1.00	82.88	FS6	ATOM	9785	N	VAL	91	170.124	115.956	-79.955	1.00	69.27	FS
ATOM	9733	O	ASN	84	184.215	111.868	-90.043	1.00	82.88	FS6	ATOM	9786	CA	VAL	91	169.655	116.632	-78.757	1.00	69.27	FS
ATOM	9734	N	VAL	85	182.614	110.278	-90.150	1.00	82.06	FS6	ATOM	9787	CB	VAL	91	170.626	117.783	-78.432	1.00	51.76	FS
ATOM	9735	CA	VAL	85	181.785	110.882	-89.115	1.00	82.06	FS6	ATOM	9788	CG1	VAL	91	169.987	118.803	-77.512	1.00	51.76	FS
ATOM	9736	CB	VAL	85	180.369	110.274	-89.090	1.00	65.37	FS6	ATOM	9789	CG2	VAL	91	171.879	117.205	-77.805	1.00	51.76	FS
ATOM	9737	CG1	VAL	85	179.740	110.487	-87.731	1.00	65.37	FS6	ATOM	9790	C	VAL	91	168.237	117.171	-78.869	1.00	69.27	FS
ATOM	9738	CG2	VAL	85	179.507	110.919	-90.159	1.00	65.37	FS6	ATOM	9791	O	VAL	91	167.918	117.872	-79.825	1.00	69.27	FS
ATOM	9739	C	VAL	85	182.481	110.564	-87.800	1.00	82.06	FS6	ATOM	9792	N	LVS	92	167.388	116.854	-77.890	1.00	63.78	FS
ATOM	9740	O	VAL	85	182.647	109.395	-87.437	1.00	82.06	FS6	ATOM	9793	CA	LVS	92	166.009	117.340	-77.911	1.00	63.78	FS
ATOM	9741	N	ARG	86	182.898	111.599	-87.089	1.00	70.95	FS6	ATOM	9794	CB	LVS	92	165.214	116.823	-76.713	1.00	102.37	FS
ATOM	9742	CA	ARG	86	183.583	111.375	-85.834	1.00	70.95	FS6	ATOM	9795	CG	LVS	92	164.861	115.351	-76.804	1.00	102.37	FS
ATOM	9743	CB	ARG	86	184.999	111.952	-85.924	1.00	94.63	FS6	ATOM	9796	CD	LVS	92	163.834	114.939	-75.754	1.00	102.37	FS
ATOM	9744	CD	ARG	86	185.109	113.173	-86.823	1.00	94.63	FS6	ATOM	9797	CE	LVS	92	164.379	115.032	-74.328	1.00	102.37	FS
ATOM	9745	NE	ARG	86	187.568	113.564	-87.081	1.00	94.63	FS6	ATOM	9798	NZ	LVS	92	164.747	116.422	-73.914	1.00	102.37	FS
ATOM	9746	NE	ARG	86	187.330	112.482	-87.699	1.00	94.63	FS6	ATOM	9799	C	LVS	92	166.001	118.857	-77.906	1.00	63.78	FS
ATOM	9747	CZ	ARG	86	188.491	112.649	-88.324	1.00	94.63	FS6	ATOM	9800	O	LVS	92	166.696	119.494	-77.114	1.00	63.78	FS
ATOM	9748	NH1	ARG	86	189.035	113.857	-88.422	1.00	94.63	FS6	ATOM	9801	N	SER	93	165.218	119.434	-78.806	1.00	60.79	FS
ATOM	9749	NH2	ARG	86	189.112	111.604	-88.851	1.00	94.63	FS6	ATOM	9802	CA	SER	93	165.136	120.879	-78.903	1.00	60.79	FS
ATOM	9750	C	ARG	86	182.845	111.921	-84.616	1.00	70.95	FS6	ATOM	9803	CB	SER	93	164.188	121.259	-80.037	1.00	113.48	FS
ATOM	9751	O	ARG	86	183.407	111.981	-83.522	1.00	70.95	FS6	ATOM	9804	OG	SER	93	164.631	121.478	-77.596	1.00	60.79	FS
ATOM	9752	N	ARG	87	181.581	112.293	-84.804	1.00	110.13	FS6	ATOM	9805	C	SER	93	164.941	120.809	-76.828	1.00	60.79	FS
ATOM	9753	CA	ARG	87	180.764	112.830	-83.719	1.00	110.13	FS6	ATOM	9806	O	SER	94	164.975	122.739	-77.349	1.00	54.35	FS
ATOM	9754	CB	ARG	87	181.295	114.186	-83.278	1.00	51.99	FS6	ATOM	9807	N	GLN	94	164.529	123.438	-76.149	1.00	54.35	FS
ATOM	9755	CG	ARG	87	182.424	114.121	-82.269	1.00	51.99	FS6	ATOM	9808	CA	GLN	94	165.474	123.170	-74.984	1.00	139.52	FS
ATOM	9756	CD	ARG	87	181.976	113.657	-80.880	1.00	51.99	FS6	ATOM	9809	CB	GLN	94	165.420	121.761	-74.456	1.00	139.52	FS
ATOM	9757	CE	ARG	87	182.989	114.054	-79.910	1.00	51.99	FS6	ATOM	9810	CG	GLN	94	166.376	121.543	-73.302	1.00	139.52	FS
ATOM	9758	NZ	ARG	87	184.154	113.447	-79.733	1.00	51.99	FS6	ATOM	9811	CD	GLN	94	167.108	122.591	-72.928	1.00	139.52	FS
ATOM	9759	NH1	ARG	87	184.456	112.365	-80.442	1.00	51.99	FS6	ATOM	9812	OE1	GLN	94	165.458	120.443	-73.750	1.00	139.52	FS
ATOM	9760	NH2	ARG	87	185.047	113.957	-78.893	1.00	51.99	FS6	ATOM	9813	NE2	GLN	94	167.108	122.591	-72.928	1.00	54.35	FS
ATOM	9761	C	ARG	87	179.311	112.997	-84.108	1.00	110.13	FS6	ATOM	9814	C	GLN	94	164.443	124.940	-76.364	1.00	54.35	FS
ATOM	9762	O	ARG	87	179.002	113.631	-85.114	1.00	110.13	FS6	ATOM	9815	O	GLN	94	165.207	125.510	-77.137	1.00	54.35	FS
ATOM	9763	N	VAL	88	178.424	112.438	-83.293	1.00	81.51	FS6	ATOM	9816	N	GLU	95	163.504	125.581	-75.679	1.00	67.41	FS
ATOM	9764	CA	VAL	88	176.988	112.528	-83.532	1.00	81.51	FS6	ATOM	9817	CA	GLU	95	163.355	127.024	-75.780	1.00	67.41	FS
ATOM	9765	CB	VAL	88	176.423	111.225	-84.096	1.00	74.71	FS6	ATOM	9818	CB	GLU	95	162.175	127.500	-74.935	1.00	164.13	FS
ATOM	9766	CG1	VAL	88	174.942	111.395	-84.399	1.00	74.71	FS6	ATOM	9819	CG	GLU	95	160.957	126.601	-74.966	1.00	164.13	FS
ATOM	9767	CG2	VAL	88	177.200	110.817	-85.327	1.00	74.71	FS6	ATOM	9820	CD	GLU	95	160.297	126.545	-76.327	1.00	164.13	FS
ATOM	9768	C	VAL	88	176.291	112.774	-82.209	1.00	81.51	FS6	ATOM	9821	OE1	GLU	95	160.053	127.624	-76.908	1.00	164.13	FS
ATOM	9769	O	VAL	88	176.242	111.879	-81.363	1.00	81.51	FS6	ATOM	9822	OE2	GLU	95	160.018	125.426	-76.809	1.00	164.13	FS
ATOM	9770	N	MET	89	175.748	113.974	-82.027	1.00	65.82	FS6	ATOM	9823	C	GLU	95	164.641	127.613	-75.201	1.00	67.41	FS

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ATOM	9824	O	GLU	95	165.094	127.206	-74.127	1.00	67.41	FS6	ATOM	9877	CB	ASP	4	138.320	114.910	-31.519	1.00	65.78	H:
ATOM	9825	N	PRO	96	165.253	128.573	-75.902	1.00	56.66	FS6	ATOM	9878	CG	ASP	4	137.421	115.402	-30.410	1.00	65.78	H:
ATOM	9826	CD	PRO	96	164.781	129.312	-77.080	1.00	66.89	FS6	ATOM	9879	OD1	ASP	4	137.804	115.275	-29.228	1.00	65.78	H:
ATOM	9827	CA	PRO	96	166.486	129.168	-75.378	1.00	56.66	FS6	ATOM	9880	OD2	ASP	4	136.322	115.915	-30.728	1.00	65.78	H:
ATOM	9828	CB	PRO	96	166.832	130.208	-76.436	1.00	66.89	FS6	ATOM	9881	C	ASP	4	137.791	116.950	-32.792	1.00	44.47	H:
ATOM	9829	CG	PRO	96	165.488	130.640	-76.913	1.00	66.89	FS6	ATOM	9882	O	ASP	4	138.625	117.610	-32.168	1.00	44.47	H:
ATOM	9830	C	PRO	96	166.248	129.793	-73.997	1.00	56.66	FS6	ATOM	9883	N	PRO	5	136.750	117.518	-33.405	1.00	52.55	H:
ATOM	9831	O	PRO	96	165.104	129.983	-73.593	1.00	56.66	FS6	ATOM	9884	CD	PRO	5	135.806	116.758	-34.228	1.00	29.13	H:
ATOM	9832	N	PHE	97	167.318	130.105	-73.274	1.00	81.01	FS6	ATOM	9885	CA	PRO	5	136.445	118.945	-33.477	1.00	52.55	H:
ATOM	9833	CA	PHE	97	167.178	130.708	-71.955	1.00	81.01	FS6	ATOM	9886	CB	PRO	5	135.203	118.975	-34.346	1.00	29.13	H:
ATOM	9834	CB	PHE	97	167.850	129.846	-70.892	1.00	66.82	FS6	ATOM	9887	CG	PRO	5	135.382	117.785	-35.219	1.00	29.13	H:
ATOM	9835	CG	PHE	97	167.300	130.060	-69.515	1.00	66.82	FS6	ATOM	9888	C	PRO	5	136.226	119.624	-32.136	1.00	52.55	H:
ATOM	9836	CD1	PHE	97	166.133	129.406	-69.111	1.00	66.82	FS6	ATOM	9889	O	PRO	5	136.572	120.789	-31.968	1.00	52.55	H:
ATOM	9837	CD2	PHE	97	167.915	130.953	-68.636	1.00	66.82	FS6	ATOM	9890	N	ILE	6	135.634	118.915	-31.186	1.00	50.16	H:
ATOM	9838	CE1	PHE	97	165.578	129.638	-67.850	1.00	66.82	FS6	ATOM	9891	CA	ILE	6	135.415	119.516	-29.882	1.00	50.16	H:
ATOM	9839	CE2	PHE	97	167.373	131.198	-67.374	1.00	66.82	FS6	ATOM	9892	CB	ILE	6	134.547	118.612	-28.982	1.00	26.49	H:
ATOM	9840	C2	PHE	97	166.197	130.537	-66.978	1.00	66.82	FS6	ATOM	9893	CG2	ILE	6	134.365	119.262	-27.607	1.00	26.49	H:
ATOM	9841	C	PHE	97	167.802	132.097	-71.945	1.00	81.01	FS6	ATOM	9894	CG1	ILE	6	133.198	118.374	-29.660	1.00	26.49	H:
ATOM	9842	O	PHE	97	168.740	132.365	-72.630	1.00	81.01	FS6	ATOM	9895	CD1	ILE	6	132.480	119.638	-30.024	1.00	26.49	H:
ATOM	9843	N	LEU	98	167.288	132.968	-71.082	1.00	125.27	FS6	ATOM	9896	C	ILE	6	136.772	119.739	-29.231	1.00	50.16	H:
ATOM	9844	CA	LEU	98	167.759	134.348	-70.973	1.00	125.27	FS6	ATOM	9897	O	ILE	6	137.062	120.814	-28.694	1.00	50.16	H:
ATOM	9845	CB	LEU	98	169.235	134.400	-70.555	1.00	58.92	FS6	ATOM	9898	N	ALA	7	137.606	118.711	-29.285	1.00	51.57	H:
ATOM	9846	CG	LEU	98	169.747	135.798	-70.178	1.00	58.92	FS6	ATOM	9899	CA	ALA	7	138.928	118.818	-28.717	1.00	51.57	H:
ATOM	9847	CD1	LEU	98	169.856	135.921	-68.669	1.00	58.92	FS6	ATOM	9900	CB	ALA	7	139.650	117.519	-28.879	1.00	19.81	H:
ATOM	9848	CD2	LEU	98	171.105	136.044	-70.803	1.00	58.92	FS6	ATOM	9901	C	ALA	7	139.645	119.926	-29.477	1.00	51.57	H:
ATOM	9849	O	LEU	98	167.579	135.048	-72.322	1.00	125.27	FS6	ATOM	9902	N	ALA	7	140.287	120.795	-28.887	1.00	51.57	H:
ATOM	9850	C	LEU	98	166.451	135.508	-72.595	1.00	125.27	FS6	ATOM	9903	O	ALA	8	139.520	119.910	-30.797	1.00	50.93	H:
ATOM	9851	OX1	LEU	98	168.549	135.112	-73.107	1.00	88.16	FS6	ATOM	9904	CA	ASP	8	140.168	120.936	-31.586	1.00	50.93	H:
ATOM	9852	CB	MET	1	139.898	114.642	-41.771	1.00	88.16	FS6	ATOM	9905	CB	ASP	8	139.762	120.846	-33.039	1.00	55.17	H:
ATOM	9853	CG	MET	1	138.453	114.864	-41.344	1.00	88.16	FS6	ATOM	9906	OD1	ASP	8	140.520	121.818	-33.883	1.00	55.17	H:
ATOM	9854	SD	MET	1	137.631	113.313	-40.829	1.00	88.16	FS6	ATOM	9907	OD1	ASP	8	141.756	121.665	-33.987	1.00	55.17	H:
ATOM	9855	CE	MET	1	137.302	112.485	-42.454	1.00	88.16	FS6	ATOM	9908	OD2	ASP	8	139.824	122.744	-34.425	1.00	55.17	H:
ATOM	9856	C	MET	1	140.873	115.749	-39.758	1.00	103.75	FS6	ATOM	9909	C	ASP	8	139.828	122.326	-31.077	1.00	50.93	H:
ATOM	9857	O	MET	1	141.721	115.136	-39.105	1.00	103.75	FS6	ATOM	9910	O	ASP	8	140.719	123.115	-30.774	1.00	50.93	H:
ATOM	9858	N	MET	1	142.279	115.328	-41.689	1.00	103.75	FS6	ATOM	9911	N	MET	9	138.535	122.620	-30.990	1.00	58.00	H:
ATOM	9859	CA	MET	1	140.891	115.697	-41.275	1.00	103.75	FS6	ATOM	9912	CA	MET	9	138.075	123.911	-30.511	1.00	47.09	H:
ATOM	9860	N	LEU	2	139.922	116.481	-39.190	1.00	50.04	FS6	ATOM	9913	CB	MET	9	136.557	123.930	-30.429	1.00	47.09	H:
ATOM	9861	CA	LEU	2	139.845	116.570	-37.738	1.00	50.04	FS6	ATOM	9914	CG	MET	9	136.021	125.119	-29.648	1.00	47.09	H:
ATOM	9862	CB	LEU	2	139.020	117.785	-37.316	1.00	49.54	FS6	ATOM	9915	SD	MET	9	134.226	125.195	-29.562	1.00	47.09	H:
ATOM	9863	CG	LEU	2	139.575	119.164	-37.662	1.00	49.54	FS6	ATOM	9916	CE	MET	9	133.900	124.029	-28.207	1.00	47.09	H:
ATOM	9864	CD1	LEU	2	138.737	120.247	-36.958	1.00	49.54	FS6	ATOM	9917	C	MET	9	138.646	124.255	-29.140	1.00	58.00	H:
ATOM	9865	CD2	LEU	2	141.026	119.246	-37.232	1.00	49.54	FS6	ATOM	9918	O	MET	9	139.257	125.304	-28.951	1.00	58.00	H:
ATOM	9866	C	LEU	2	139.262	115.297	-37.114	1.00	50.04	FS6	ATOM	9919	N	LEU	10	138.450	123.372	-28.176	1.00	40.47	H:
ATOM	9867	O	LEU	2	138.134	114.900	-37.390	1.00	50.04	FS6	ATOM	9920	CA	LEU	10	138.943	123.638	-26.837	1.00	40.47	H:
ATOM	9868	N	THR	3	140.049	114.645	-36.276	1.00	58.27	FS6	ATOM	9921	CB	LEU	10	138.738	122.414	-25.951	1.00	40.65	H:
ATOM	9869	CA	THR	3	139.580	113.437	-35.642	1.00	43.06	FS6	ATOM	9922	CG	LEU	10	137.305	121.926	-25.806	1.00	40.65	H:
ATOM	9870	CB	THR	3	140.781	112.613	-35.108	1.00	43.06	FS6	ATOM	9923	CD1	LEU	10	137.320	120.535	-25.245	1.00	40.65	H:
ATOM	9871	OG1	THR	3	141.365	113.257	-33.975	1.00	43.06	FS6	ATOM	9924	CD2	LEU	10	136.515	122.873	-24.912	1.00	40.65	H:
ATOM	9872	CG2	THR	3	141.847	112.523	-36.171	1.00	43.06	FS6	ATOM	9925	C	LEU	10	140.419	123.990	-26.866	1.00	40.47	H:
ATOM	9873	C	THR	3	138.593	113.806	-34.524	1.00	58.27	FS6	ATOM	9926	O	LEU	10	140.913	124.727	-26.006	1.00	40.47	H:
ATOM	9874	N	THR	3	137.675	113.041	-34.215	1.00	58.27	FS6	ATOM	9927	N	THR	11	141.127	123.456	-27.854	1.00	45.04	H:
ATOM	9875	O	ASP	4	138.768	114.985	-33.933	1.00	44.47	FS6	ATOM	9928	CA	THR	11	142.557	123.698	-27.953	1.00	45.04	H:
ATOM	9876	CA	ASP	4	137.880	115.434	-32.872	1.00	44.47	FS6	ATOM	9929	CB	THR	11	143.241	122.551	-28.712	1.00	47.19	H:

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ATOM	9930	OG1	THR	11	143.167	121.361	-27.910	1.00	47.19	HS8	ATOM	9983	O	THR	17	146.077	133.578	-23.284	1.00	40.78	HS
ATOM	9931	CG2	THR	11	144.706	122.880	-28.981	1.00	47.19	HS8	ATOM	9984	N	ARG	18	146.513	131.587	-24.230	1.00	49.64	HS
ATOM	9932	C	THR	11	142.861	125.048	-28.578	1.00	45.04	HS8	ATOM	9985	CA	ARG	18	147.848	131.550	-23.668	1.00	49.64	HS
ATOM	9933	O	THR	11	143.778	125.752	-28.140	1.00	45.04	HS8	ATOM	9986	CB	ARG	18	148.465	130.165	-23.847	1.00	74.44	HS
ATOM	9934	N	ARG	12	142.091	125.408	-29.600	1.00	40.14	HS8	ATOM	9987	CG	ARG	18	148.230	129.277	-22.641	1.00	74.44	HS
ATOM	9935	CA	ARG	12	142.246	126.706	-30.228	1.00	40.14	HS8	ATOM	9988	CD	ARG	18	146.779	129.360	-22.214	1.00	74.44	HS
ATOM	9936	CB	ARG	12	141.184	126.898	-31.301	1.00	42.60	HS8	ATOM	9989	NE	ARG	18	146.561	128.985	-20.819	1.00	74.44	HS
ATOM	9937	CG	ARG	12	141.484	126.151	-32.583	1.00	42.60	HS8	ATOM	9990	CZ	ARG	18	145.394	129.130	-20.188	1.00	74.44	HS
ATOM	9938	CD	ARG	12	140.210	125.735	-33.307	1.00	42.60	HS8	ATOM	9991	NH1	ARG	18	144.348	129.641	-20.834	1.00	74.44	HS
ATOM	9939	CE	ARG	12	140.444	125.263	-34.678	1.00	42.60	HS8	ATOM	9992	NH2	ARG	18	145.270	128.777	-18.910	1.00	74.44	HS
ATOM	9940	CZ	ARG	12	140.768	126.061	-35.690	1.00	42.60	HS8	ATOM	9993	C	ARG	18	148.727	132.638	-24.242	1.00	49.64	HS
ATOM	9941	NH1	ARG	12	140.891	127.365	-35.474	1.00	42.60	HS8	ATOM	9994	O	ARG	18	149.759	132.959	-23.668	1.00	49.64	HS
ATOM	9942	NH2	ARG	12	140.974	125.566	-36.906	1.00	42.60	HS8	ATOM	9995	N	VAL	19	148.317	133.211	-25.373	1.00	56.06	HS
ATOM	9943	C	ARG	12	142.063	127.706	-29.084	1.00	40.14	HS8	ATOM	9996	CA	VAL	19	149.065	134.302	-25.983	1.00	56.06	HS
ATOM	9944	N	ILE	13	140.912	128.579	-28.884	1.00	40.14	HS8	ATOM	9997	CB	VAL	19	149.391	134.045	-27.452	1.00	33.47	HS
ATOM	9945	N	ILE	13	140.979	127.556	-28.313	1.00	34.96	HS8	ATOM	9998	CG1	VAL	19	150.592	133.161	-27.560	1.00	33.47	HS
ATOM	9946	CA	ILE	13	140.742	128.451	-27.183	1.00	34.96	HS8	ATOM	9999	CG2	VAL	19	148.227	133.425	-28.136	1.00	33.47	HS
ATOM	9947	CB	ILE	13	139.464	128.086	-26.378	1.00	22.05	HS8	ATOM	10000	C	VAL	19	148.259	135.591	-25.886	1.00	56.06	HS
ATOM	9948	CG2	ILE	13	139.402	128.873	-25.079	1.00	22.05	HS8	ATOM	10001	O	VAL	19	148.733	136.662	-26.267	1.00	56.06	HS
ATOM	9949	CG1	ILE	13	138.218	128.427	-27.186	1.00	22.05	HS8	ATOM	10002	N	TYR	20	147.028	135.473	-25.394	1.00	42.33	HS
ATOM	9950	CD1	ILE	13	137.483	127.222	-27.738	1.00	22.05	HS8	ATOM	10003	CA	TYR	20	146.161	136.623	-25.187	1.00	42.33	HS
ATOM	9951	C	ILE	13	141.945	128.388	-26.254	1.00	34.96	HS8	ATOM	10004	CB	TYR	20	146.945	137.684	-24.445	1.00	33.55	HS
ATOM	9952	O	ILE	13	142.541	129.415	-25.919	1.00	40.63	HS8	ATOM	10005	CG	TYR	20	147.424	137.197	-23.116	1.00	33.55	HS
ATOM	9953	N	ARG	14	142.331	127.190	-25.847	1.00	40.63	HS8	ATOM	10006	CD1	TYR	20	146.667	137.408	-21.967	1.00	33.55	HS
ATOM	9954	CA	ARG	14	143.473	127.099	-24.949	1.00	40.63	HS8	ATOM	10007	CE1	TYR	20	147.101	136.968	-20.740	1.00	33.55	HS
ATOM	9955	CB	ARG	14	143.869	125.648	-24.686	1.00	27.50	HS8	ATOM	10008	CD2	TYR	20	148.632	136.524	-23.003	1.00	33.55	HS
ATOM	9956	CG	ARG	14	144.789	125.540	-23.504	1.00	27.50	HS8	ATOM	10009	CE2	TYR	20	149.086	136.075	-21.779	1.00	33.55	HS
ATOM	9957	CD	ARG	14	145.318	124.129	-23.284	1.00	27.50	HS8	ATOM	10010	CZ	TYR	20	148.312	136.303	-19.423	1.00	33.55	HS
ATOM	9958	NE	ARG	14	144.280	123.120	-23.253	1.00	27.50	HS8	ATOM	10011	OH	TYR	20	148.753	135.868	-19.423	1.00	33.55	HS
ATOM	9959	CZ	ARG	14	143.933	122.384	-24.308	1.00	27.50	HS8	ATOM	10012	C	TYR	20	145.456	137.263	-26.367	1.00	42.33	HS
ATOM	9960	NH1	ARG	14	144.547	122.546	-25.474	1.00	27.50	HS8	ATOM	10013	O	TYR	21	145.275	138.477	-26.832	1.00	42.33	HS
ATOM	9961	NH2	ARG	14	142.965	121.473	-24.205	1.00	27.50	HS8	ATOM	10014	N	LYS	21	145.056	136.464	-27.349	1.00	35.23	HS
ATOM	9962	C	ARG	14	144.688	127.856	-25.492	1.00	40.63	HS8	ATOM	10015	CA	LYS	21	144.329	136.991	-28.498	1.00	35.23	HS
ATOM	9963	O	ARG	14	145.267	128.682	-24.784	1.00	40.63	HS8	ATOM	10016	CB	LYS	21	143.877	135.846	-29.402	1.00	53.29	HS
ATOM	9964	N	ASN	15	145.069	127.589	-26.743	1.00	50.88	HS8	ATOM	10017	CG	LYS	21	144.987	134.965	-29.903	1.00	53.29	HS
ATOM	9965	CA	ASN	15	146.234	128.249	-27.334	1.00	50.88	HS8	ATOM	10018	CD	LYS	21	145.815	135.711	-30.916	1.00	53.29	HS
ATOM	9966	CB	ASN	15	146.525	127.697	-28.733	1.00	48.16	HS8	ATOM	10019	CE	LYS	21	147.063	134.948	-31.289	1.00	53.29	HS
ATOM	9967	CG	ASN	15	146.982	126.245	-28.715	1.00	48.16	HS8	ATOM	10020	NZ	LYS	21	147.834	135.705	-32.302	1.00	53.29	HS
ATOM	9968	OD1	ASN	15	147.667	125.809	-27.794	1.00	48.16	HS8	ATOM	10021	C	LYS	21	143.087	137.678	-27.940	1.00	35.23	HS
ATOM	9969	ND2	ASN	15	146.620	125.497	-29.753	1.00	48.16	HS8	ATOM	10022	O	LYS	21	142.686	137.402	-26.818	1.00	35.23	HS
ATOM	9970	C	ASN	15	146.119	129.770	-27.427	1.00	50.88	HS8	ATOM	10023	N	GLU	22	142.473	138.576	-28.698	1.00	60.26	HS
ATOM	9971	O	ASN	15	146.994	130.502	-26.956	1.00	50.88	HS8	ATOM	10024	CA	GLU	22	141.254	139.207	-28.218	1.00	60.26	HS
ATOM	9972	N	ALA	16	145.042	130.239	-28.049	1.00	32.97	HS8	ATOM	10025	CB	GLU	22	141.085	140.608	-28.794	1.00	116.34	HS
ATOM	9973	CA	ALA	16	144.802	131.668	-28.222	1.00	32.97	HS8	ATOM	10026	CG	GLU	22	141.488	141.696	-27.820	1.00	116.34	HS
ATOM	9974	CB	ALA	16	143.442	131.895	-28.915	1.00	16.89	HS8	ATOM	10027	CD	GLU	22	140.766	143.006	-28.078	1.00	116.34	HS
ATOM	9975	C	ALA	16	144.856	132.424	-26.904	1.00	32.97	HS8	ATOM	10028	OE1	GLU	22	139.515	143.001	-28.115	1.00	116.34	HS
ATOM	9976	O	ALA	16	145.405	133.514	-26.846	1.00	32.97	HS8	ATOM	10029	OE2	GLU	22	141.447	144.042	-28.234	1.00	116.34	HS
ATOM	9977	N	THR	17	144.290	131.868	-25.841	1.00	40.78	HS8	ATOM	10030	C	GLU	22	140.083	138.321	-28.637	1.00	60.26	HS
ATOM	9978	CA	THR	17	144.335	132.588	-24.582	1.00	40.78	HS8	ATOM	10031	O	GLU	22	139.046	138.283	-27.973	1.00	60.26	HS
ATOM	9979	CB	THR	17	143.410	131.994	-23.529	1.00	42.27	HS8	ATOM	10032	N	SER	23	140.253	137.596	-29.736	1.00	40.52	HS
ATOM	9980	OG1	THR	17	143.700	130.601	-23.355	1.00	42.27	HS8	ATOM	10033	CA	SER	23	139.214	136.705	-30.227	1.00	40.52	HS
ATOM	9981	CG2	THR	17	141.984	132.188	-23.935	1.00	42.27	HS8	ATOM	10034	CB	SER	23	138.309	137.443	-31.201	1.00	65.68	HS
ATOM	9982	C	THR	17	145.723	132.624	-23.979	1.00	40.78	HS8	ATOM	10035	OG	SER	23	139.019	137.785	-32.379	1.00	65.68	HS

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ATOM	10036	C	SER	23	139.882	135.545	-30.948	1.00	40.52	HS8	ATOM	10089	N	PHE	31	126.793	121.660	-32.536	1.00	35.10	HS
ATOM	10037	O	SER	23	141.102	135.479	-31.006	1.00	40.52	HS8	ATOM	10090	CA	PHE	31	127.304	121.160	-31.270	1.00	35.10	HS
ATOM	10038	N	THR	24	139.093	134.638	-31.506	1.00	60.08	HS8	ATOM	10091	CB	PHE	31	127.900	119.767	-31.493	1.00	39.87	HS
ATOM	10039	CA	THR	24	139.664	133.511	-32.227	1.00	60.08	HS8	ATOM	10092	CG	PHE	31	128.354	119.088	-30.245	1.00	39.87	HS
ATOM	10040	CB	THR	24	140.395	132.578	-31.285	1.00	48.62	HS8	ATOM	10093	CD1	PHE	31	127.682	119.272	-29.047	1.00	39.87	HS
ATOM	10041	CG1	THR	24	140.571	131.304	-31.918	1.00	48.62	HS8	ATOM	10094	CD2	PHE	31	129.447	118.255	-30.270	1.00	39.87	HS
ATOM	10042	CG2	THR	24	139.610	132.419	-30.016	1.00	48.62	HS8	ATOM	10095	CE1	PHE	31	128.100	118.634	-27.883	1.00	39.87	HS
ATOM	10043	C	THR	24	138.625	132.704	-32.991	1.00	60.08	HS8	ATOM	10096	CE2	PHE	31	129.870	117.616	-29.122	1.00	39.87	HS
ATOM	10044	O	THR	24	137.513	132.492	-32.509	1.00	60.08	HS8	ATOM	10097	CZ	PHE	31	129.194	117.807	-27.924	1.00	39.87	HS
ATOM	10045	N	ASP	25	139.001	132.242	-34.180	1.00	44.73	HS8	ATOM	10098	C	PHE	31	128.344	122.110	-30.680	1.00	35.10	HS
ATOM	10046	CA	ASP	25	138.096	131.487	-35.024	1.00	44.73	HS8	ATOM	10099	O	PHE	31	129.297	122.540	-31.505	1.00	32.99	HS
ATOM	10047	CB	ASP	25	138.318	131.873	-36.474	1.00	65.34	HS8	ATOM	10100	N	LYS	32	129.283	122.456	-29.487	1.00	35.10	HS
ATOM	10048	CG	ASP	25	138.016	133.330	-36.719	1.00	65.34	HS8	ATOM	10101	CA	LYS	32	130.316	123.462	-31.009	1.00	32.99	HS
ATOM	10049	OD1	ASP	25	137.677	134.015	-35.736	1.00	65.34	HS8	ATOM	10102	CB	LYS	32	131.264	123.895	-32.133	1.00	47.63	HS
ATOM	10050	OD2	ASP	25	138.113	133.764	-37.884	1.00	65.34	HS8	ATOM	10103	CG	LYS	32	132.438	122.954	-32.376	1.00	47.63	HS
ATOM	10051	C	ASP	25	138.199	129.984	-34.881	1.00	44.73	HS8	ATOM	10104	CE	LYS	32	133.085	123.249	-33.727	1.00	47.63	HS
ATOM	10052	O	ASP	25	139.285	129.429	-34.723	1.00	44.73	HS8	ATOM	10105	CE	LYS	32	134.131	122.196	-34.100	1.00	47.63	HS
ATOM	10053	N	VAL	26	137.043	129.333	-34.941	1.00	49.03	HS8	ATOM	10106	NZ	LYS	32	134.514	122.208	-35.549	1.00	47.63	HS
ATOM	10054	CA	VAL	26	136.955	127.887	-34.833	1.00	49.03	HS8	ATOM	10107	C	LYS	32	129.615	124.678	-30.416	1.00	32.99	HS
ATOM	10055	CB	VAL	26	136.616	127.440	-33.378	1.00	41.51	HS8	ATOM	10108	O	LYS	32	129.861	125.053	-29.259	1.00	32.99	HS
ATOM	10056	CG1	VAL	26	135.501	128.272	-32.811	1.00	41.51	HS8	ATOM	10109	N	GLU	33	127.970	126.447	-30.796	1.00	51.46	HS
ATOM	10057	CG2	VAL	26	136.192	125.993	-33.369	1.00	41.51	HS8	ATOM	10110	CA	GLU	33	126.959	126.816	-31.792	1.00	58.99	HS
ATOM	10058	C	VAL	26	135.865	127.419	-35.784	1.00	49.03	HS8	ATOM	10111	CB	GLU	33	126.413	128.228	-31.881	1.00	58.99	HS
ATOM	10059	O	VAL	26	134.742	127.917	-35.740	1.00	49.03	HS8	ATOM	10112	CG	GLU	33	125.603	128.621	-33.035	1.00	58.99	HS
ATOM	10060	N	PRO	27	136.195	126.473	-36.678	1.00	53.20	HS8	ATOM	10113	CD	GLU	33	124.971	127.760	-33.683	1.00	58.99	HS
ATOM	10061	CD	PRO	27	137.490	125.781	-36.805	1.00	51.48	HS8	ATOM	10114	OE1	GLU	33	127.276	126.199	-29.452	1.00	51.46	HS
ATOM	10062	CA	PRO	27	135.238	125.937	-37.644	1.00	53.20	HS8	ATOM	10115	OE2	GLU	33	125.585	129.859	-33.350	1.00	58.99	HS
ATOM	10063	CB	PRO	27	135.912	124.657	-38.105	1.00	51.48	HS8	ATOM	10116	O	GLU	33	127.264	127.080	-28.586	1.00	51.46	HS
ATOM	10064	CG	PRO	27	137.331	125.048	-38.124	1.00	51.48	HS8	ATOM	10117	C	GLU	34	126.723	124.998	-29.266	1.00	37.81	HS
ATOM	10065	C	PRO	27	133.904	125.684	-36.960	1.00	53.20	HS8	ATOM	10118	N	GLU	34	126.052	124.647	-28.009	1.00	37.81	HS
ATOM	10066	O	PRO	27	133.830	124.956	-35.962	1.00	55.88	HS8	ATOM	10119	CA	GLU	34	125.513	123.215	-28.055	1.00	85.66	HS
ATOM	10067	N	ALA	28	132.859	126.294	-37.517	1.00	55.88	HS8	ATOM	10120	CB	GLU	34	124.440	122.987	-29.103	1.00	85.66	HS
ATOM	10068	CA	ALA	28	131.497	126.217	-36.996	1.00	55.88	HS8	ATOM	10121	CG	GLU	34	123.178	123.804	-28.860	1.00	85.66	HS
ATOM	10069	CB	ALA	28	130.677	127.316	-37.633	1.00	55.32	HS8	ATOM	10122	CD	GLU	34	123.035	124.400	-27.767	1.00	85.66	HS
ATOM	10070	C	ALA	28	130.765	124.875	-37.133	1.00	55.88	HS8	ATOM	10123	OE1	GLU	34	127.024	124.780	-26.843	1.00	37.81	HS
ATOM	10071	O	ALA	28	130.848	124.208	-38.159	1.00	55.88	HS8	ATOM	10124	OE2	GLU	34	126.731	125.451	-25.864	1.00	42.59	HS
ATOM	10072	N	SER	29	130.051	124.502	-36.075	1.00	41.37	HS8	ATOM	10125	C	GLU	34	128.184	124.142	-26.961	1.00	42.59	HS
ATOM	10073	CA	SER	29	129.265	123.272	-36.021	1.00	41.37	HS8	ATOM	10126	O	GLU	34	129.210	124.199	-25.921	1.00	42.59	HS
ATOM	10074	CB	SER	29	130.146	122.076	-35.678	1.00	55.99	HS8	ATOM	10127	N	LLE	35	130.475	123.406	-26.374	1.00	38.02	HS
ATOM	10075	CG	SER	29	128.259	123.493	-34.890	1.00	41.37	HS8	ATOM	10128	CA	LLE	35	131.511	123.343	-25.263	1.00	38.02	HS
ATOM	10076	C	SER	29	128.635	124.015	-33.824	1.00	41.37	HS8	ATOM	10129	CB	LLE	35	130.066	121.975	-26.724	1.00	38.02	HS
ATOM	10077	O	SER	29	126.996	123.111	-35.116	1.00	42.22	HS8	ATOM	10130	CG2	LLE	35	129.557	126.664	-25.626	1.00	42.59	HS
ATOM	10078	N	ARG	30	125.939	123.291	-34.111	1.00	42.22	HS8	ATOM	10131	CG1	LLE	35	129.888	126.412	-26.674	1.00	38.81	HS
ATOM	10079	CA	ARG	30	124.722	122.424	-34.444	1.00	121.29	HS8	ATOM	10132	CD1	LLE	35	130.340	127.831	-26.520	1.00	38.81	HS
ATOM	10080	CB	ARG	30	123.866	122.913	-35.613	1.00	121.29	HS8	ATOM	10133	C	LLE	35	131.526	127.973	-27.899	1.00	34.68	HS
ATOM	10081	CG	ARG	30	123.079	124.179	-35.272	1.00	121.29	HS8	ATOM	10134	O	LLE	35	131.392	128.453	-30.202	1.00	34.68	HS
ATOM	10082	CD	ARG	30	122.020	124.449	-36.247	1.00	121.29	HS8	ATOM	10135	CA	LEU	36	132.855	128.432	-28.114	1.00	34.68	HS
ATOM	10083	NE	ARG	30	121.216	125.510	-36.215	1.00	121.29	HS8	ATOM	10136	CB	LEU	36	129.180	128.555	-25.655	1.00	38.81	HS
ATOM	10084	CZ	ARG	30	120.278	125.661	-37.142	1.00	42.22	HS8	ATOM	10137	CG	LEU	36						
ATOM	10085	NH1	ARG	30	126.544	123.783	-31.837	1.00	42.22	HS8	ATOM	10138	CG	LEU	36						
ATOM	10086	NH2	ARG	30						HS8	ATOM	10139	CD1	LEU	36						
ATOM	10087	C	ARG	30						HS8	ATOM	10140	CD2	LEU	36						
ATOM	10088	O	ARG	30						HS8	ATOM	10141	C	LEU	36						

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ATOM	10142	O	LEU	36	129.545	129.299	-24.738	1.00	38.81	HS8	ATOM	10195	N	GLY	43	130.549	132.808	-18.125	1.00	51.91	HS
ATOM	10143	N	ARG	37	127.893	128.320	-25.945	1.00	44.08	HS8	ATOM	10196	CA	GLY	43	131.488	133.909	-17.996	1.00	51.91	HS
ATOM	10144	CA	ARG	37	126.794	128.915	-25.182	1.00	44.08	HS8	ATOM	10197	C	GLY	43	132.916	133.591	-18.371	1.00	51.91	HS
ATOM	10145	CB	ARG	37	125.479	128.178	-25.435	1.00	97.00	HS8	ATOM	10198	O	GLY	43	133.819	134.391	-18.130	1.00	51.91	HS
ATOM	10146	CG	ARG	37	124.591	128.751	-26.521	1.00	97.00	HS8	ATOM	10199	N	PHE	44	133.122	132.418	-18.962	1.00	49.02	HS
ATOM	10147	CD	ARG	37	123.162	128.942	-26.011	1.00	97.00	HS8	ATOM	10200	CA	PHE	44	134.451	131.993	-19.377	1.00	49.02	HS
ATOM	10148	NE	ARG	37	122.207	129.120	-27.103	1.00	97.00	HS8	ATOM	10201	CB	PHE	44	134.467	130.482	-19.634	1.00	33.73	HS
ATOM	10149	CZ	ARG	37	120.959	129.558	-26.946	1.00	97.00	HS8	ATOM	10202	CG	PHE	44	134.513	129.670	-18.379	1.00	33.73	HS
ATOM	10150	NH1	ARG	37	120.522	129.872	-25.729	1.00	97.00	HS8	ATOM	10203	CD1	PHE	44	135.593	129.779	-17.514	1.00	33.73	HS
ATOM	10151	NH2	ARG	37	120.142	129.666	-27.998	1.00	97.00	HS8	ATOM	10204	CD2	PHE	44	133.476	128.815	-18.048	1.00	33.73	HS
ATOM	10152	C	ARG	37	127.105	128.825	-23.695	1.00	44.08	HS8	ATOM	10205	CE1	PHE	44	135.644	129.047	-16.334	1.00	33.73	HS
ATOM	10153	O	ARG	37	126.991	129.814	-22.968	1.00	44.08	HS8	ATOM	10206	CE2	PHE	44	133.513	128.075	-16.872	1.00	33.73	HS
ATOM	10154	N	ILE	38	127.492	127.633	-23.244	1.00	44.27	HS8	ATOM	10207	CZ	PHE	44	134.604	128.193	-16.012	1.00	33.73	HS
ATOM	10155	CA	ILE	38	127.814	127.935	-21.838	1.00	44.27	HS8	ATOM	10208	C	PHE	44	134.916	132.761	-20.599	1.00	49.02	HS
ATOM	10156	CB	ILE	38	128.133	125.964	-21.504	1.00	53.37	HS8	ATOM	10209	O	PHE	44	136.089	133.070	-20.721	1.00	49.02	HS
ATOM	10157	CG2	ILE	38	128.487	125.825	-20.022	1.00	53.37	HS8	ATOM	10210	N	ILE	45	134.014	133.070	-21.512	1.00	41.76	HS
ATOM	10158	CG1	ILE	38	126.924	125.094	-21.787	1.00	53.37	HS8	ATOM	10211	CA	ILE	45	134.424	133.851	-22.662	1.00	41.76	HS
ATOM	10159	CD1	ILE	38	126.513	125.134	-23.212	1.00	53.37	HS8	ATOM	10212	CB	ILE	45	134.222	133.075	-23.976	1.00	33.93	HS
ATOM	10160	C	ILE	38	129.035	128.261	-21.481	1.00	44.27	HS8	ATOM	10213	CG2	ILE	45	135.163	131.871	-24.007	1.00	33.93	HS
ATOM	10161	O	ILE	38	129.039	128.979	-20.476	1.00	44.27	HS8	ATOM	10214	CG1	ILE	45	132.766	132.637	-24.115	1.00	33.93	HS
ATOM	10162	N	LEU	39	130.080	128.154	-22.295	1.00	46.06	HS8	ATOM	10215	CD1	ILE	45	132.528	131.686	-25.275	1.00	33.93	HS
ATOM	10163	CA	LEU	39	131.270	128.925	-21.997	1.00	46.06	HS8	ATOM	10216	C	ILE	45	133.585	135.116	-22.655	1.00	41.76	HS
ATOM	10164	CB	LEU	39	132.280	128.866	-23.150	1.00	43.92	HS8	ATOM	10217	O	ILE	45	132.707	135.267	-21.814	1.00	41.76	HS
ATOM	10165	CG	LEU	39	133.139	127.610	-23.259	1.00	43.92	HS8	ATOM	10218	N	LYS	46	133.859	136.058	-23.541	1.00	73.41	HS
ATOM	10166	CD1	LEU	39	133.716	127.252	-21.901	1.00	43.92	HS8	ATOM	10219	CA	LYS	46	133.032	137.253	-23.547	1.00	73.41	HS
ATOM	10167	CD2	LEU	39	132.272	126.488	-23.768	1.00	43.92	HS8	ATOM	10220	CB	LYS	46	133.715	138.428	-24.251	1.00	53.64	HS
ATOM	10168	C	LEU	39	130.861	130.369	-21.736	1.00	46.06	HS8	ATOM	10221	CG	LYS	46	134.854	139.064	-23.494	1.00	53.64	HS
ATOM	10169	O	LEU	39	131.254	130.954	-20.728	1.00	46.06	HS8	ATOM	10222	CD	LYS	46	136.176	141.195	-23.434	1.00	53.64	HS
ATOM	10170	N	ALA	40	130.058	130.930	-22.640	1.00	49.75	HS8	ATOM	10223	CE	LYS	46	137.180	140.777	-24.458	1.00	53.64	HS
ATOM	10171	CA	ALA	40	129.606	132.306	-22.514	1.00	49.75	HS8	ATOM	10224	NZ	LYS	46	131.790	137.884	-24.320	1.00	73.41	HS
ATOM	10172	CB	ALA	40	128.730	132.657	-23.682	1.00	68.47	HS8	ATOM	10225	C	LYS	46	130.744	137.488	-24.149	1.00	73.41	HS
ATOM	10173	O	ALA	40	128.846	132.504	-21.206	1.00	49.75	HS8	ATOM	10226	C	LYS	46	131.913	135.874	-25.169	1.00	50.06	HS
ATOM	10174	C	ALA	40	129.311	133.210	-20.303	1.00	49.75	HS8	ATOM	10227	N	GLY	47	130.795	135.459	-25.988	1.00	50.06	HS
ATOM	10175	N	ARG	41	127.674	131.876	-21.110	1.00	37.86	HS8	ATOM	10228	CA	GLY	47	131.335	135.004	-27.324	1.00	50.06	HS
ATOM	10176	CA	ARG	41	126.836	131.949	-19.915	1.00	37.86	HS8	ATOM	10229	C	GLY	47	132.546	134.950	-27.515	1.00	50.06	HS
ATOM	10177	CB	ARG	41	125.796	130.835	-19.951	1.00	53.71	HS8	ATOM	10230	O	GLY	47	130.458	134.666	-28.255	1.00	51.29	HS
ATOM	10178	CG	ARG	41	124.850	130.831	-18.769	1.00	53.71	HS8	ATOM	10231	N	TYR	48	130.917	134.213	-29.550	1.00	51.29	HS
ATOM	10179	CD	ARG	41	123.980	129.592	-18.792	1.00	53.71	HS8	ATOM	10232	CA	TYR	48	129.829	132.698	-29.641	1.00	58.21	HS
ATOM	10180	NE	ARG	41	123.407	129.332	-20.109	1.00	53.71	HS8	ATOM	10233	CB	TYR	48	129.425	132.165	-29.743	1.00	58.21	HS
ATOM	10181	CZ	ARG	41	123.505	128.162	-20.735	1.00	53.71	HS8	ATOM	10234	CG	TYR	48	128.612	132.054	-28.615	1.00	58.21	HS
ATOM	10182	NH1	ARG	41	124.153	127.154	-20.157	1.00	53.71	HS8	ATOM	10235	CD1	TYR	48	127.301	131.569	-28.712	1.00	58.21	HS
ATOM	10183	NH2	ARG	41	122.957	127.990	-21.933	1.00	53.71	HS8	ATOM	10236	CE1	TYR	48	128.904	131.781	-30.974	1.00	58.21	HS
ATOM	10184	C	ARG	41	127.645	131.818	-18.627	1.00	37.86	HS8	ATOM	10237	CD2	TYR	48	127.601	131.296	-31.089	1.00	58.21	HS
ATOM	10185	O	ARG	41	128.656	130.959	-18.637	1.00	47.98	HS8	ATOM	10238	CE2	TYR	48	126.803	131.193	-29.956	1.00	58.21	HS
ATOM	10186	N	GLU	42	129.468	130.748	-17.452	1.00	47.98	HS8	ATOM	10239	CZ	TYR	48	125.510	130.729	-30.080	1.00	58.21	HS
ATOM	10187	CA	GLU	42	129.123	129.374	-17.519	1.00	77.80	HS8	ATOM	10240	OH	TYR	48	130.046	134.836	-30.613	1.00	51.29	HS
ATOM	10188	CB	GLU	42	129.129	128.250	-17.417	1.00	77.80	HS8	ATOM	10241	C	TYR	48	129.115	134.541	-30.290	1.00	51.29	HS
ATOM	10189	CD	GLU	42	128.163	128.467	-16.270	1.00	77.80	HS8	ATOM	10242	N	GLU	49	130.331	133.554	-31.876	1.00	39.53	HS
ATOM	10190	CG	GLU	42	128.630	128.696	-15.125	1.00	77.80	HS8	ATOM	10243	CA	GLU	49	129.561	135.109	-32.969	1.00	39.53	HS
ATOM	10191	OE1	GLU	42	126.935	128.409	-16.518	1.00	77.80	HS8	ATOM	10244	CB	GLU	49	129.966	136.562	-33.173	1.00	34.09	HS
ATOM	10192	OE2	GLU	42	130.520	131.824	-17.231	1.00	47.98	HS8	ATOM	10245	CG	GLU	49	129.588	137.126	-34.513	1.00	34.09	HS
ATOM	10193	C	GLU	42	131.293	131.756	-16.271	1.00	47.98	HS8	ATOM	10246	CD	GLU	49	130.063	138.551	-34.678	1.00	34.09	HS
ATOM	10194	O	GLU	42						HS8	ATOM	10247	CD	GLU	49						HS

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ATOM	10248	OE1	GLU	49	131.242	138.823	-34.361	1.00134.09	HS8	ATOM	10301	CD	LVS	56	134.505	127.841	-47.232	1.00	81.52	HS8
ATOM	10249	OE2	GLU	49	129.263	139.399	-35.128	1.00134.09	HS8	ATOM	10302	CE	LVS	56	134.532	126.857	-48.389	1.00	81.52	HS8
ATOM	10250	C	GLU	49	129.827	134.311	-34.228	1.0039.53	HS8	ATOM	10303	NZ	LVS	56	134.768	127.551	-49.683	1.00	81.52	HS8
ATOM	10251	O	GLU	49	130.945	133.860	-34.443	1.0039.53	HS8	ATOM	10304	C	LVS	56	132.717	129.619	-43.441	1.00	55.35	HS8
ATOM	10252	N	ARG	50	128.797	134.114	-35.046	1.0054.71	HS8	ATOM	10305	O	LVS	56	133.270	130.607	-42.971	1.00	55.35	HS8
ATOM	10253	CA	ARG	50	128.948	133.377	-36.298	1.0054.71	HS8	ATOM	10306	N	PRO	57	131.787	128.943	-42.763	1.00	43.35	HS8
ATOM	10254	CB	ARG	50	127.597	132.886	-36.793	1.0056.12	HS8	ATOM	10307	CD	PRO	57	131.022	127.809	-43.311	1.00	32.80	HS8
ATOM	10255	CG	ARG	50	127.037	131.692	-36.068	1.0056.12	HS8	ATOM	10308	CA	PRO	57	131.313	129.291	-41.419	1.00	43.35	HS8
ATOM	10256	CD	ARG	50	125.573	131.554	-36.415	1.0056.12	HS8	ATOM	10309	CB	PRO	57	130.008	128.534	-41.323	1.00	32.80	HS8
ATOM	10257	NE	ARG	50	125.010	130.250	-36.095	1.0056.12	HS8	ATOM	10310	CG	PRO	57	130.332	127.278	-42.086	1.00	32.80	HS8
ATOM	10258	CZ	ARG	50	123.732	129.938	-36.297	1.0056.12	HS8	ATOM	10311	C	PRO	57	132.213	128.974	-40.233	1.00	43.35	HS8
ATOM	10259	NH1	ARG	50	122.906	130.845	-36.810	1.0056.12	HS8	ATOM	10312	O	PRO	57	132.580	127.828	-40.012	1.00	43.35	HS8
ATOM	10260	NH2	ARG	50	123.277	128.724	-36.001	1.0056.12	HS8	ATOM	10313	N	TYR	58	132.548	130.001	-39.463	1.00	42.37	HS8
ATOM	10261	C	ARG	50	129.530	134.327	-37.333	1.0054.71	HS8	ATOM	10314	CA	TYR	58	133.353	129.839	-38.260	1.00	42.37	HS8
ATOM	10262	O	ARG	50	128.968	133.385	-37.584	1.0054.71	HS8	ATOM	10315	CB	TYR	58	134.679	130.582	-38.368	1.00	62.94	HS8
ATOM	10263	N	VAL	51	130.648	133.952	-37.939	1.0054.24	HS8	ATOM	10316	CG	TYR	58	135.645	129.878	-39.265	1.00	62.94	HS8
ATOM	10264	CA	VAL	51	131.295	134.796	-38.936	1.0054.24	HS8	ATOM	10317	CD1	TYR	58	135.456	129.884	-40.643	1.00	62.94	HS8
ATOM	10265	CB	VAL	51	132.641	135.338	-38.402	1.0058.48	HS8	ATOM	10318	CE1	TYR	58	136.281	129.172	-41.477	1.00	62.94	HS8
ATOM	10266	CG1	VAL	51	133.151	136.418	-39.307	1.0058.48	HS8	ATOM	10319	CD2	TYR	58	136.700	129.137	-38.740	1.00	62.94	HS8
ATOM	10267	CG2	VAL	51	132.478	135.890	-37.010	1.0058.48	HS8	ATOM	10320	CE2	TYR	58	137.531	128.416	-39.567	1.00	62.94	HS8
ATOM	10268	C	VAL	51	131.575	133.949	-40.169	1.0054.24	HS8	ATOM	10321	CZ	TYR	58	137.312	128.439	-40.939	1.00	62.94	HS8
ATOM	10269	O	VAL	51	131.519	132.727	-40.105	1.0054.24	HS8	ATOM	10322	OH	TYR	58	138.115	127.722	-41.788	1.00	62.94	HS8
ATOM	10270	N	ASP	52	132.177	133.810	-42.494	1.0071.16	HS8	ATOM	10323	C	TYR	58	132.591	130.380	-37.074	1.00	42.37	HS8
ATOM	10271	CA	ASP	52	131.853	134.579	-41.301	1.0071.16	HS8	ATOM	10324	O	TYR	58	131.436	130.790	-37.201	1.00	42.37	HS8
ATOM	10272	CB	ASP	52	131.222	134.129	-43.648	1.0078.62	HS8	ATOM	10325	N	LEU	59	133.240	130.366	-35.919	1.00	42.66	HS8
ATOM	10273	CG	ASP	52	130.028	133.175	-43.713	1.0078.62	HS8	ATOM	10326	CA	LEU	59	132.633	130.883	-34.712	1.00	42.66	HS8
ATOM	10274	OD1	ASP	52	128.916	133.568	-43.293	1.0078.62	HS8	ATOM	10327	CB	LEU	59	132.196	129.749	-33.790	1.00	40.99	HS8
ATOM	10275	OD2	ASP	52	130.195	132.027	-44.185	1.0078.62	HS8	ATOM	10328	CG	LEU	59	131.027	128.892	-34.281	1.00	40.99	HS8
ATOM	10276	C	ASP	52	133.610	134.123	-42.906	1.0071.16	HS8	ATOM	10329	CD1	LEU	59	130.853	127.711	-33.343	1.00	40.99	HS8
ATOM	10277	O	ASP	52	133.990	135.286	-43.015	1.0071.16	HS8	ATOM	10330	CD2	LEU	59	129.747	129.719	-34.340	1.00	40.99	HS8
ATOM	10278	N	VAL	53	134.407	133.078	-43.104	1.0062.28	HS8	ATOM	10331	C	LEU	59	133.692	131.716	-34.039	1.00	42.66	HS8
ATOM	10279	CA	VAL	53	135.800	133.212	-43.515	1.0062.28	HS8	ATOM	10332	O	LEU	59	134.613	131.179	-33.438	1.00	42.66	HS8
ATOM	10280	CB	VAL	53	136.757	132.589	-42.502	1.0049.66	HS8	ATOM	10333	N	ARG	60	133.583	133.033	-34.169	1.00	38.60	HS8
ATOM	10281	CG1	VAL	53	138.170	132.701	-43.015	1.0049.66	HS8	ATOM	10334	CA	ARG	60	134.552	133.914	-33.558	1.00	38.60	HS8
ATOM	10282	CG2	VAL	53	136.622	133.273	-41.163	1.0049.66	HS8	ATOM	10335	CB	ARG	60	134.339	133.345	-33.477	1.00	61.69	HS8
ATOM	10283	C	VAL	53	135.980	132.451	-44.816	1.0062.28	HS8	ATOM	10336	CG	ARG	60	135.373	136.296	-33.477	1.00	61.69	HS8
ATOM	10284	O	VAL	53	135.563	131.299	-44.921	1.0062.28	HS8	ATOM	10337	CD	ARG	60	135.713	137.282	-34.541	1.00	61.69	HS8
ATOM	10285	N	ASP	54	136.601	133.085	-45.803	1.0088.30	HS8	ATOM	10338	NE	ARG	60	135.851	136.575	-35.803	1.00	61.69	HS8
ATOM	10286	CA	ASP	54	136.823	132.433	-47.087	1.0088.30	HS8	ATOM	10339	CZ	ARG	60	136.181	137.152	-36.947	1.00	61.69	HS8
ATOM	10287	CB	ASP	54	137.929	131.381	-46.957	1.00172.16	HS8	ATOM	10340	NH1	ARG	60	136.409	138.458	-36.985	1.00	61.69	HS8
ATOM	10288	CG	ASP	54	138.197	130.647	-48.261	1.00172.16	HS8	ATOM	10341	NH2	ARG	60	136.278	136.424	-38.052	1.00	61.69	HS8
ATOM	10289	OD1	ASP	54	138.743	131.272	-49.198	1.00172.16	HS8	ATOM	10342	C	ARG	60	134.335	133.816	-32.067	1.00	38.60	HS8
ATOM	10290	OD2	ASP	54	137.850	129.447	-48.348	1.00172.16	HS8	ATOM	10343	O	ARG	60	133.257	133.123	-31.570	1.00	38.60	HS8
ATOM	10291	C	ASP	54	135.532	131.769	-47.573	1.0088.30	HS8	ATOM	10344	N	VAL	61	135.357	133.368	-31.355	1.0043.44	HS8	
ATOM	10292	O	ASP	54	135.557	130.789	-48.324	1.0088.30	HS8	ATOM	10345	CA	VAL	61	135.258	133.233	-29.917	1.0043.44	HS8	
ATOM	10293	N	GLY	55	134.401	132.303	-47.127	1.0065.51	HS8	ATOM	10346	CB	VAL	61	135.885	131.898	-29.447	1.0022.22	HS8	
ATOM	10294	CA	GLY	55	133.121	131.755	-47.541	1.0065.51	HS8	ATOM	10347	CG1	VAL	61	135.802	131.789	-27.925	1.0022.22	HS8	
ATOM	10295	C	GLY	55	132.624	130.601	-46.697	1.0065.51	HS8	ATOM	10348	CG2	VAL	61	135.172	130.727	-30.112	1.0022.22	HS8	
ATOM	10296	O	GLY	55	131.531	130.080	-46.932	1.0065.51	HS8	ATOM	10349	C	VAL	61	135.963	134.399	-29.238	1.0043.44	HS8	
ATOM	10297	N	LVS	56	133.428	130.201	-45.715	1.0055.35	HS8	ATOM	10350	O	VAL	61	137.196	134.467	-29.216	1.0043.44	HS8	
ATOM	10298	CA	LVS	56	133.069	129.103	-44.830	1.0055.35	HS8	ATOM	10351	N	TYR	62	135.176	135.322	-28.696	1.0035.56	HS8	
ATOM	10299	CB	LVS	56	134.214	128.091	-44.744	1.0081.52	HS8	ATOM	10352	CA	TYR	62	135.733	136.483	-28.006	1.0035.56	HS8	
ATOM	10300	CG	LVS	56	134.286	127.127	-45.915	1.0081.52	HS8	ATOM	10353	CB	TYR	62	134.695	137.602	-27.950	1.0040.93	HS8	

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ATOM	10354	CG	TYR	62	134.446	138.179	-29.323	1.00	40.93	HS8	ATOM	10407	CD	ARG	68	149.670	145.981	-16.458	1.00	70.40	HS
ATOM	10355	CD1	TYR	62	135.348	139.071	-29.899	1.00	40.93	HS8	ATOM	10408	NE	ARG	68	150.702	146.114	-17.477	1.00	70.40	HS
ATOM	10356	CE1	TYR	62	135.191	139.504	-31.205	1.00	40.93	HS8	ATOM	10409	CZ	ARG	68	151.935	146.538	-17.237	1.00	70.40	HS
ATOM	10357	CD2	TYR	62	133.375	137.747	-30.093	1.00	40.93	HS8	ATOM	10410	NH1	ARG	68	152.295	146.874	-16.001	1.00	70.40	HS
ATOM	10358	CE2	TYR	62	133.215	138.175	-31.400	1.00	40.93	HS8	ATOM	10411	NH2	ARG	68	152.811	146.614	-18.232	1.00	70.40	HS
ATOM	10359	CZ	TYR	62	134.127	139.048	-31.949	1.00	40.93	HS8	ATOM	10412	C	ARG	68	147.514	143.373	-14.311	1.00	40.49	HS
ATOM	10360	OH	TYR	62	133.979	139.434	-33.260	1.00	40.93	HS8	ATOM	10413	N	ARG	69	146.805	143.530	-13.317	1.00	40.49	HS
ATOM	10361	C	TYR	62	136.246	136.143	-26.609	1.00	35.56	HS8	ATOM	10414	CA	ARG	69	148.751	142.885	-14.243	1.00	50.15	HS
ATOM	10362	O	TYR	62	135.482	136.014	-25.654	1.00	35.56	HS8	ATOM	10415	CA	ARG	69	149.323	142.506	-12.953	1.00	50.15	HS
ATOM	10363	N	LEU	63	137.563	135.990	-26.518	1.00	37.76	HS8	ATOM	10416	CB	ARG	69	149.598	140.995	-12.914	1.00	94.86	HS
ATOM	10364	CA	LEU	63	138.223	135.655	-25.272	1.00	37.76	HS8	ATOM	10417	CG	ARG	69	148.330	140.151	-13.070	1.00	94.86	HS
ATOM	10365	CB	LEU	63	139.650	135.225	-25.557	1.00	43.64	HS8	ATOM	10418	CD	ARG	69	148.513	138.691	-12.666	1.00	94.86	HS
ATOM	10366	CG	LEU	63	139.769	133.783	-26.039	1.00	43.64	HS8	ATOM	10419	NE	ARG	69	149.620	138.051	-13.367	1.00	94.86	HS
ATOM	10367	CD1	LEU	63	138.693	133.448	-27.051	1.00	43.64	HS8	ATOM	10420	CZ	ARG	69	150.854	137.949	-12.880	1.00	94.86	HS
ATOM	10368	CD2	LEU	63	141.162	133.602	-26.612	1.00	43.64	HS8	ATOM	10421	NH1	ARG	69	151.136	138.440	-11.681	1.00	94.86	HS
ATOM	10369	C	LEU	63	138.216	136.785	-24.271	1.00	37.76	HS8	ATOM	10422	NH2	ARG	69	151.812	137.368	-13.596	1.00	94.86	HS
ATOM	10370	O	LEU	63	138.015	137.950	-24.636	1.00	37.76	HS8	ATOM	10423	C	ARG	69	150.579	143.295	-12.575	1.00	50.15	HS
ATOM	10371	N	LYS	64	138.465	136.428	-23.011	1.00	44.04	HS8	ATOM	10424	O	ARG	69	151.049	144.141	-13.337	1.00	50.15	HS
ATOM	10372	CA	LYS	64	138.458	137.384	-21.906	1.00	44.04	HS8	ATOM	10425	N	GLN	70	151.111	143.018	-11.389	1.00	53.06	HS
ATOM	10373	CB	LYS	64	137.035	137.443	-21.323	1.00	46.06	HS8	ATOM	10426	CA	GLN	70	152.288	143.713	-10.870	1.00	85.35	HS
ATOM	10374	CG	LYS	64	136.855	137.182	-19.827	1.00	46.06	HS8	ATOM	10427	CB	GLN	70	152.089	144.015	-9.385	1.00	85.35	HS
ATOM	10375	CD	LYS	64	135.349	137.077	-19.532	1.00	46.06	HS8	ATOM	10428	CG	GLN	70	150.867	144.846	-9.099	1.00	85.35	HS
ATOM	10376	CE	LYS	64	135.011	137.284	-18.071	1.00	46.06	HS8	ATOM	10429	CD	GLN	70	151.013	146.253	-9.619	1.00	85.35	HS
ATOM	10377	NZ	LYS	64	133.539	137.403	-17.906	1.00	44.04	HS8	ATOM	10430	OE1	GLN	70	151.485	147.143	-8.910	1.00	85.35	HS
ATOM	10378	C	LYS	64	139.490	137.005	-20.850	1.00	44.04	HS8	ATOM	10431	NE2	GLN	70	150.628	146.462	-10.873	1.00	53.06	HS
ATOM	10379	O	LYS	64	139.685	135.828	-20.572	1.00	44.04	HS8	ATOM	10432	C	GLN	70	153.586	142.937	-11.043	1.00	53.06	HS
ATOM	10380	N	TYR	65	140.145	138.009	-20.272	1.00	46.94	HS8	ATOM	10433	O	GLN	70	153.586	141.776	-11.480	1.00	53.06	HS
ATOM	10381	CA	TYR	65	141.191	137.778	-19.287	1.00	46.94	HS8	ATOM	10434	N	GLY	71	154.687	143.602	-10.684	1.00	52.48	HS
ATOM	10382	CB	TYR	65	142.566	138.070	-19.899	1.00	35.89	HS8	ATOM	10435	C	GLY	71	156.012	143.016	-10.776	1.00	52.48	HS
ATOM	10383	CG	TYR	65	142.767	137.439	-21.259	1.00	35.89	HS8	ATOM	10436	C	GLY	71	156.327	142.505	-12.163	1.00	52.48	HS
ATOM	10384	CD1	TYR	65	142.264	138.049	-22.406	1.00	35.89	HS8	ATOM	10437	O	GLY	71	155.690	142.911	-13.133	1.00	52.48	HS
ATOM	10385	CE1	TYR	65	142.365	137.459	-23.645	1.00	35.89	HS8	ATOM	10438	N	PRO	72	157.326	141.626	-12.294	1.00	49.13	HS
ATOM	10386	CD2	TYR	65	143.393	136.201	-21.395	1.00	35.89	HS8	ATOM	10439	CD	PRO	72	158.218	141.159	-11.223	1.00	32.03	HS
ATOM	10387	CE2	TYR	65	143.502	135.593	-22.643	1.00	35.89	HS8	ATOM	10440	CA	PRO	72	157.720	141.054	-13.583	1.00	49.13	HS
ATOM	10388	CZ	TYR	65	142.980	136.237	-23.768	1.00	35.89	HS8	ATOM	10441	CB	PRO	72	158.907	140.187	-13.221	1.00	32.03	HS
ATOM	10389	OH	TYR	65	143.067	135.659	-25.021	1.00	35.89	HS8	ATOM	10442	CG	PRO	72	158.696	139.882	-11.774	1.00	32.03	HS
ATOM	10390	C	TYR	65	141.033	138.627	-18.053	1.00	46.94	HS8	ATOM	10443	C	PRO	72	155.806	139.633	-13.394	1.00	49.13	HS
ATOM	10391	O	TYR	65	140.133	139.451	-17.963	1.00	46.94	HS8	ATOM	10444	O	PRO	72	156.480	140.187	-15.462	1.00	57.59	HS
ATOM	10392	N	GLY	66	141.935	138.424	-17.100	1.00	60.77	HS8	ATOM	10445	N	ASP	73	155.392	139.451	-16.092	1.00	57.59	HS
ATOM	10393	CA	GLY	66	141.904	139.193	-15.875	1.00	60.77	HS8	ATOM	10446	CA	ASP	73	154.439	137.151	-16.555	1.00	71.06	HS
ATOM	10394	C	GLY	66	142.538	140.558	-16.073	1.00	60.77	HS8	ATOM	10447	CB	ASP	73	154.210	135.962	-16.231	1.00	71.06	HS
ATOM	10395	O	GLY	66	142.845	140.965	-17.198	1.00	60.77	HS8	ATOM	10448	CG	ASP	73	153.901	137.709	-17.543	1.00	71.06	HS
ATOM	10396	N	PRO	67	142.757	141.300	-14.990	1.00	54.28	HS8	ATOM	10449	OD1	ASP	73	154.090	130.055	-15.607	1.00	57.59	HS
ATOM	10397	CD	PRO	67	142.363	141.076	-13.590	1.00	28.08	HS8	ATOM	10450	OD2	ASP	73	153.430	139.518	-14.719	1.00	57.59	HS
ATOM	10398	CB	PRO	67	143.361	142.614	-15.146	1.00	54.28	HS8	ATOM	10451	C	ASP	73	153.715	141.203	-16.171	1.00	55.46	HS
ATOM	10399	CA	PRO	67	142.870	143.330	-13.906	1.00	28.08	HS8	ATOM	10452	N	PRO	74	154.402	141.997	-17.197	1.00	50.10	HS
ATOM	10400	CG	PRO	67	142.977	142.262	-12.887	1.00	28.08	HS8	ATOM	10453	N	PRO	74	152.478	141.854	-15.768	1.00	55.46	HS
ATOM	10401	C	PRO	67	144.882	142.521	-15.204	1.00	54.28	HS8	ATOM	10454	CD	PRO	74	152.674	143.032	-16.269	1.00	50.10	HS
ATOM	10402	O	PRO	67	145.459	141.465	-14.911	1.00	40.49	HS8	ATOM	10455	CB	PRO	74	153.355	143.271	-17.557	1.00	55.46	HS
ATOM	10403	N	ARG	68	146.970	143.738	-15.679	1.00	40.49	HS8	ATOM	10456	CG	PRO	74	151.308	141.161	-16.456	1.00	55.46	HS
ATOM	10404	CA	ARG	68	147.350	145.179	-16.004	1.00	70.40	HS8	ATOM	10457	C	PRO	74	150.161	141.628	-16.371	1.00	55.46	HS
ATOM	10405	CB	ARG	68						HS8	ATOM	10458	O	PRO	74						HS
ATOM	10406	CG	ARG	68						HS8	ATOM	10459	O	PRO	74						HS

ATOM	10460	N	ARG	75	151.539	140.054	-17.141	1.00	49.03	HS8	ATOM	10513	CB	HIS	81	142.675	128.228	-14.800	1.00	55.62	HS
ATOM	10461	CA	ARG	75	150.557	139.328	-17.850	1.00	49.03	HS8	ATOM	10514	CG	HIS	81	142.488	129.493	-14.043	1.00	55.62	HS
ATOM	10462	CB	ARG	75	151.108	138.063	-18.490	1.00	53.81	HS8	ATOM	10515	CD2	HIS	81	143.351	130.217	-13.293	1.00	55.62	HS
ATOM	10463	CG	ARG	75	151.752	138.315	-19.834	1.00	53.81	HS8	ATOM	10516	ND1	HIS	81	141.287	130.164	-14.009	1.00	55.62	HS
ATOM	10464	CD	ARG	75	152.217	137.022	-20.464	1.00	53.81	HS8	ATOM	10517	CE1	HIS	81	141.418	131.249	-13.267	1.00	55.62	HS
ATOM	10465	CE	ARG	75	153.171	136.326	-19.609	1.00	53.81	HS8	ATOM	10518	NE2	HIS	81	142.660	131.304	-12.821	1.00	55.62	HS
ATOM	10466	NE	ARG	75	153.752	135.180	-19.938	1.00	53.81	HS8	ATOM	10519	C	HIS	81	142.930	127.065	-16.914	1.00	41.52	HS
ATOM	10467	NH1	ARG	75	153.470	134.611	-21.105	1.00	53.81	HS8	ATOM	10520	O	HIS	81	144.008	126.782	-17.422	1.00	41.52	HS
ATOM	10468	NH2	ARG	75	154.605	134.600	-19.104	1.00	53.81	HS8	ATOM	10521	N	HIS	82	141.907	126.236	-16.869	1.00	44.10	HS
ATOM	10469	C	ARG	75	149.395	138.985	-16.948	1.00	49.03	HS8	ATOM	10522	CA	HIS	82	141.996	124.869	-17.329	1.00	44.10	HS
ATOM	10470	O	ARG	75	149.573	138.500	-15.827	1.00	49.03	HS8	ATOM	10523	CB	HIS	82	141.876	123.999	-16.084	1.00	59.41	HS
ATOM	10471	N	PRO	76	148.175	139.232	-17.437	1.00	42.27	HS8	ATOM	10524	CG	HIS	82	142.084	122.542	-16.316	1.00	59.41	HS
ATOM	10472	CD	PRO	76	147.953	139.593	-18.841	1.00	35.12	HS8	ATOM	10525	CD2	HIS	82	141.201	121.517	-16.377	1.00	59.41	HS
ATOM	10473	CA	PRO	76	146.897	138.999	-16.769	1.00	42.27	HS8	ATOM	10526	ND1	HIS	82	143.334	121.982	-16.440	1.00	59.41	HS
ATOM	10474	CB	PRO	76	145.870	139.368	-17.838	1.00	35.12	HS8	ATOM	10527	CE1	HIS	82	143.215	120.672	-16.564	1.00	59.41	HS
ATOM	10475	CG	PRO	76	146.612	140.235	-18.775	1.00	35.12	HS8	ATOM	10528	NE2	HIS	82	141.931	120.364	-16.528	1.00	59.41	HS
ATOM	10476	C	PRO	76	146.705	137.557	-16.338	1.00	42.27	HS8	ATOM	10529	C	HIS	82	140.844	124.615	-18.288	1.00	44.10	HS
ATOM	10477	O	PRO	76	147.408	136.647	-16.790	1.00	42.27	HS8	ATOM	10530	O	HIS	82	139.804	125.267	-18.196	1.00	44.10	HS
ATOM	10478	N	GLU	77	145.728	137.354	-15.463	1.00	48.72	HS8	ATOM	10531	N	ILE	83	141.031	123.681	-19.210	1.00	35.36	HS
ATOM	10479	CA	GLU	77	145.398	136.015	-15.020	1.00	48.72	HS8	ATOM	10532	CA	ILE	83	139.992	123.320	-20.169	1.00	35.36	HS
ATOM	10480	CB	GLU	77	144.755	136.030	-13.642	1.00	91.67	HS8	ATOM	10533	CB	ILE	83	139.676	124.482	-21.116	1.00	22.93	HS
ATOM	10481	CG	GLU	77	144.683	134.655	-13.040	1.00	91.67	HS8	ATOM	10534	CG2	ILE	83	140.941	124.966	-21.796	1.00	22.93	HS
ATOM	10482	CD	GLU	77	143.803	134.591	-11.815	1.00	91.67	HS8	ATOM	10535	CG1	ILE	83	138.666	124.047	-22.174	1.00	22.93	HS
ATOM	10483	OEL	GLU	77	143.917	135.478	-10.938	1.00	91.67	HS8	ATOM	10536	CD1	ILE	83	138.506	125.062	-23.325	1.00	22.93	HS
ATOM	10484	OEL	GLU	77	143.003	133.637	-11.721	1.00	91.67	HS8	ATOM	10537	C	ILE	83	140.513	122.151	-20.984	1.00	35.36	HS
ATOM	10485	C	GLU	77	144.380	135.573	-16.057	1.00	48.72	HS8	ATOM	10538	O	ILE	83	141.469	122.310	-21.736	1.00	35.36	HS
ATOM	10486	O	GLU	77	143.666	136.401	-16.624	1.00	48.72	HS8	ATOM	10539	N	ARG	84	139.908	120.975	-20.829	1.00	41.82	HS
ATOM	10487	N	GLN	78	144.334	134.279	-16.335	1.00	60.87	HS8	ATOM	10540	CA	ARG	84	140.370	119.813	-21.575	1.00	41.82	HS
ATOM	10488	CA	GLN	78	143.384	133.766	-17.310	1.00	60.87	HS8	ATOM	10541	CB	ARG	84	141.505	119.141	-20.840	1.00	63.21	HS
ATOM	10489	CB	GLN	78	143.804	132.378	-17.794	1.00	53.13	HS8	ATOM	10542	CG	ARG	84	141.067	118.392	-19.626	1.00	63.21	HS
ATOM	10490	CG	GLN	78	145.151	132.313	-18.448	1.00	53.13	HS8	ATOM	10543	NE	ARG	84	141.963	117.192	-19.484	1.00	63.21	HS
ATOM	10491	CD	GLN	78	145.173	132.958	-19.814	1.00	53.13	HS8	ATOM	10544	CD	ARG	84	141.660	116.464	-18.260	1.00	63.21	HS
ATOM	10492	OEL	GLN	78	144.211	132.863	-20.575	1.00	53.13	HS8	ATOM	10545	CZ	ARG	84	142.288	115.348	-17.899	1.00	63.21	HS
ATOM	10493	NE2	GLN	78	146.288	133.602	-20.144	1.00	53.13	HS8	ATOM	10546	NH1	ARG	84	143.241	114.826	-18.673	1.00	63.21	HS
ATOM	10494	C	GLN	78	142.032	133.640	-16.630	1.00	60.87	HS8	ATOM	10547	NH2	ARG	84	141.968	114.757	-16.753	1.00	63.21	HS
ATOM	10495	O	GLN	78	141.953	133.536	-15.398	1.00	60.87	HS8	ATOM	10548	C	ARG	84	139.315	118.768	-21.839	1.00	41.82	HS
ATOM	10496	N	VAL	79	140.973	133.666	-17.434	1.00	54.57	HS8	ATOM	10549	O	ARG	84	138.441	118.541	-21.014	1.00	41.82	HS
ATOM	10497	CA	VAL	79	139.632	133.483	-16.908	1.00	54.57	HS8	ATOM	10550	N	ARG	85	139.418	118.113	-22.989	1.00	50.61	HS
ATOM	10498	CB	VAL	79	138.607	134.269	-17.728	1.00	51.26	HS8	ATOM	10551	CA	ARG	85	138.465	117.081	-23.346	1.00	50.61	HS
ATOM	10499	CG1	VAL	79	137.210	134.066	-17.174	1.00	51.26	HS8	ATOM	10552	CB	ARG	85	138.658	116.570	-24.757	1.00	43.11	HS
ATOM	10500	CG2	VAL	79	138.975	135.739	-17.697	1.00	51.26	HS8	ATOM	10553	CG	ARG	85	138.032	117.401	-25.795	1.00	43.11	HS
ATOM	10501	C	VAL	79	139.442	131.975	-17.054	1.00	54.57	HS8	ATOM	10554	CD	ARG	85	137.290	116.546	-26.795	1.00	43.11	HS
ATOM	10502	O	VAL	79	138.856	131.327	-18.189	1.00	54.57	HS8	ATOM	10555	NE	ARG	85	136.033	116.031	-26.281	1.00	43.11	HS
ATOM	10503	N	ILE	80	139.974	131.432	-18.153	1.00	39.27	HS8	ATOM	10556	CZ	ARG	85	135.164	115.363	-27.031	1.00	43.11	HS
ATOM	10504	CA	ILE	80	139.965	129.994	-18.436	1.00	39.27	HS8	ATOM	10557	NH1	ARG	85	135.438	115.147	-28.307	1.00	43.11	HS
ATOM	10505	CB	ILE	80	139.826	129.700	-19.938	1.00	25.62	HS8	ATOM	10558	NH2	ARG	85	134.023	114.913	-26.514	1.00	43.11	HS
ATOM	10506	CG2	ILE	80	140.104	128.223	-20.206	1.00	25.62	HS8	ATOM	10559	C	ARG	85	138.567	115.908	-22.413	1.00	50.61	HS
ATOM	10507	CG1	ILE	80	138.449	130.121	-20.440	1.00	25.62	HS8	ATOM	10560	O	ARG	85	139.635	115.615	-21.871	1.00	50.61	HS
ATOM	10508	CD1	ILE	80	138.185	129.743	-21.893	1.00	25.62	HS8	ATOM	10561	N	ILE	86	137.449	115.227	-22.231	1.00	48.08	HS
ATOM	10509	C	ILE	80	141.332	129.425	-17.997	1.00	39.27	HS8	ATOM	10562	CA	ILE	86	137.439	114.063	-21.389	1.00	48.08	HS
ATOM	10510	O	ILE	80	142.300	129.417	-18.765	1.00	39.27	HS8	ATOM	10563	CB	ILE	86	136.571	114.300	-20.169	1.00	36.24	HS
ATOM	10511	N	HIS	81	141.426	128.962	-16.762	1.00	41.52	HS8	ATOM	10564	CG2	ILE	86	136.433	113.026	-19.361	1.00	36.24	HS
ATOM	10512	CA	HIS	81	142.682	128.414	-16.302	1.00	41.52	HS8	ATOM	10565	CG1	ILE	86	137.246	115.388	-19.330	1.00	36.24	HS

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ATOM	10566	CDI	ILE	86	136.519	115.771	-18.087	1.00	36.24	HS8	ATOM	10619	CB	VAL	93	134.081	109.674	-20.602	1.00	17.64	HS1
ATOM	10567	C	ILE	86	136.949	112.940	-22.260	1.00	48.08	HS8	ATOM	10620	CG1	VAL	93	133.728	109.933	-19.159	1.00	17.64	HS1
ATOM	10568	O	ILE	86	137.696	112.012	-22.549	1.00	48.08	HS8	ATOM	10621	CG2	VAL	93	135.435	109.082	-20.687	1.00	17.64	HS1
ATOM	10569	N	SER	87	135.710	113.020	-22.711	1.00	33.34	HS8	ATOM	10622	C	VAL	93	131.687	109.116	-20.844	1.00	39.05	HS1
ATOM	10570	CA	SER	87	135.218	111.992	-23.603	1.00	33.34	HS8	ATOM	10623	O	VAL	93	131.299	110.263	-21.012	1.00	39.05	HS1
ATOM	10571	CB	SER	87	133.719	112.169	-23.841	1.00	41.41	HS8	ATOM	10624	N	TYR	94	130.934	108.166	-20.303	1.00	42.70	HS1
ATOM	10572	CG	SER	87	133.214	111.153	-24.691	1.00	41.41	HS8	ATOM	10625	CA	TYR	94	129.551	108.417	-19.919	1.00	42.70	HS1
ATOM	10573	C	SER	87	136.001	112.270	-24.886	1.00	33.34	HS8	ATOM	10626	CB	TYR	94	128.666	107.417	-20.655	1.00	34.51	HS1
ATOM	10574	O	SER	87	136.184	113.430	-25.247	1.00	33.34	HS8	ATOM	10627	CG	TYR	94	128.851	107.421	-22.156	1.00	34.51	HS1
ATOM	10575	N	SER	88	136.503	111.224	-25.542	1.00	22.28	HS8	ATOM	10628	CD1	TYR	94	129.143	106.250	-22.854	1.00	34.51	HS1
ATOM	10576	CA	SER	88	137.258	111.375	-26.801	1.00	22.28	HS8	ATOM	10629	CE1	TYR	94	129.266	106.250	-24.243	1.00	34.51	HS1
ATOM	10577	CB	SER	88	138.772	111.403	-26.568	1.00	42.35	HS8	ATOM	10630	CD2	TYR	94	128.686	108.588	-22.883	1.00	34.51	HS1
ATOM	10578	CG	SER	88	139.265	112.139	-25.355	1.00	42.35	HS8	ATOM	10631	CE2	TYR	94	128.799	108.594	-24.259	1.00	34.51	HS1
ATOM	10579	CD	SER	88	140.717	112.455	-25.576	1.00	42.35	HS8	ATOM	10632	CZ	TYR	94	129.092	107.430	-24.933	1.00	34.51	HS1
ATOM	10580	CE	SER	88	141.405	112.776	-24.290	1.00	42.35	HS8	ATOM	10633	OH	TYR	94	129.233	107.497	-26.303	1.00	34.51	HS1
ATOM	10581	NZ	SER	88	141.464	111.551	-23.454	1.00	22.28	HS8	ATOM	10634	C	TYR	94	129.287	108.299	-18.413	1.00	42.70	HS1
ATOM	10582	C	SER	88	136.979	110.201	-27.726	1.00	22.28	HS8	ATOM	10635	O	TYR	94	129.605	107.293	-17.791	1.00	42.70	HS1
ATOM	10583	O	SER	88	136.788	109.079	-27.266	1.00	22.28	HS8	ATOM	10636	N	VAL	95	128.697	109.324	-17.818	1.00	44.71	HS1
ATOM	10584	N	PRO	89	137.002	110.434	-29.046	1.00	29.04	HS8	ATOM	10637	CA	VAL	95	128.403	109.241	-16.400	1.00	44.71	HS1
ATOM	10585	CD	PRO	89	137.595	111.607	-29.699	1.00	29.83	HS8	ATOM	10638	CB	VAL	95	129.056	110.364	-15.619	1.00	39.75	HS1
ATOM	10586	CA	PRO	89	136.745	109.361	-30.018	1.00	29.04	HS8	ATOM	10639	CG1	VAL	95	130.549	110.220	-15.680	1.00	39.75	HS1
ATOM	10587	CB	PRO	89	137.139	109.993	-31.342	1.00	29.83	HS8	ATOM	10640	CG2	VAL	95	128.634	111.690	-16.191	1.00	39.75	HS1
ATOM	10588	CG	PRO	89	138.165	111.006	-30.938	1.00	29.83	HS8	ATOM	10641	C	VAL	95	126.914	109.308	-16.142	1.00	44.71	HS1
ATOM	10589	O	PRO	89	137.607	108.180	-29.645	1.00	29.04	HS8	ATOM	10642	N	GLY	96	126.175	109.932	-15.907	1.00	47.52	HS1
ATOM	10590	C	PRO	89	138.762	108.353	-29.258	1.00	29.04	HS8	ATOM	10643	N	GLY	96	126.485	108.632	-15.074	1.00	47.52	HS1
ATOM	10591	N	GLY	90	137.076	106.974	-29.738	1.00	49.52	HS8	ATOM	10644	CA	GLY	96	125.091	108.641	-14.658	1.00	47.52	HS1
ATOM	10592	CA	GLY	90	137.896	105.860	-29.307	1.00	49.52	HS8	ATOM	10645	C	GLY	96	124.980	109.866	-13.770	1.00	47.52	HS1
ATOM	10593	C	GLY	90	138.300	106.175	-27.870	1.00	49.52	HS8	ATOM	10646	O	GLY	96	125.979	110.319	-13.218	1.00	47.52	HS1
ATOM	10594	O	GLY	90	139.432	106.554	-27.582	1.00	49.52	HS8	ATOM	10647	N	VAL	97	123.786	110.411	-13.614	1.00	67.57	HS1
ATOM	10595	N	ARG	91	137.306	106.061	-26.995	1.00	50.03	HS8	ATOM	10648	CA	VAL	97	123.649	111.620	-12.817	1.00	67.57	HS1
ATOM	10596	CA	ARG	91	137.378	106.284	-25.553	1.00	50.03	HS8	ATOM	10649	CB	VAL	97	122.174	112.038	-12.699	1.00	48.30	HS1
ATOM	10597	CB	ARG	91	138.746	106.738	-25.114	1.00	37.25	HS8	ATOM	10650	CG1	VAL	97	121.437	111.057	-11.833	1.00	48.30	HS1
ATOM	10598	CG	ARG	91	139.266	105.953	-23.924	1.00	37.25	HS8	ATOM	10651	CG2	VAL	97	122.083	113.457	-12.189	1.00	48.30	HS1
ATOM	10599	CD	ARG	91	138.376	106.020	-22.679	1.00	37.25	HS8	ATOM	10652	C	VAL	97	124.279	111.521	-11.435	1.00	67.57	HS1
ATOM	10600	CE	ARG	91	139.173	105.769	-21.465	1.00	37.25	HS8	ATOM	10653	O	VAL	97	124.571	112.537	-10.804	1.00	67.57	HS1
ATOM	10601	NH1	ARG	91	138.664	105.412	-20.289	1.00	37.25	HS8	ATOM	10654	N	LVS	98	124.505	110.299	-10.968	1.00	55.74	HS1
ATOM	10602	NH1	ARG	91	137.344	105.258	-20.158	1.00	37.25	HS8	ATOM	10655	CA	LVS	98	125.132	110.106	-9.661	1.00	55.74	HS1
ATOM	10603	NH2	ARG	91	139.462	105.205	-19.250	1.00	37.25	HS8	ATOM	10656	CB	LVS	98	124.609	108.831	-8.984	1.00	55.74	HS1
ATOM	10604	C	ARG	91	136.340	107.280	-25.073	1.00	50.03	HS8	ATOM	10657	CG	LVS	98	123.167	108.912	-8.461	1.00	55.74	HS1
ATOM	10605	O	ARG	91	136.666	108.372	-24.603	1.00	50.03	HS8	ATOM	10658	CD	LVS	98	122.149	108.949	-9.599	1.00	55.74	HS1
ATOM	10606	N	ARG	92	135.082	106.881	-25.204	1.00	32.12	HS8	ATOM	10659	CE	LVS	98	120.704	109.129	-9.108	1.00	55.74	HS1
ATOM	10607	CA	ARG	92	133.961	107.688	-24.775	1.00	32.12	HS8	ATOM	10660	NZ	LVS	98	120.112	107.912	-8.485	1.00	55.74	HS1
ATOM	10608	CB	ARG	92	132.688	107.172	-25.433	1.00	50.29	HS8	ATOM	10661	C	LVS	98	126.662	110.033	-9.786	1.00	55.74	HS1
ATOM	10609	CG	ARG	92	132.180	108.051	-26.558	1.00	50.29	HS8	ATOM	10662	O	LVS	98	127.366	109.970	-8.778	1.00	55.74	HS1
ATOM	10610	CD	ARG	92	133.222	108.332	-27.612	1.00	50.29	HS8	ATOM	10663	N	GLU	99	127.162	110.056	-11.023	1.00	66.34	HS1
ATOM	10611	NE	ARG	92	133.039	109.685	-28.125	1.00	50.29	HS8	ATOM	10664	CA	GLU	99	128.597	109.980	-11.309	1.00	66.34	HS1
ATOM	10612	CZ	ARG	92	133.107	110.009	-29.412	1.00	50.29	HS8	ATOM	10665	CB	GLU	99	128.875	108.869	-12.326	1.00	98.27	HS1
ATOM	10613	NH1	ARG	92	133.352	109.070	-30.320	1.00	50.29	HS8	ATOM	10666	CG	GLU	99	128.516	107.458	-11.889	1.00	98.27	HS1
ATOM	10614	NH2	ARG	92	132.934	111.266	-29.798	1.00	50.29	HS8	ATOM	10667	CD	GLU	99	128.830	106.422	-12.967	1.00	98.27	HS1
ATOM	10615	C	ARG	92	133.821	107.625	-23.257	1.00	32.12	HS8	ATOM	10668	CE1	GLU	99	128.200	106.458	-14.047	1.00	98.27	HS1
ATOM	10616	O	ARG	92	134.206	106.634	-22.619	1.00	32.12	HS8	ATOM	10669	CE2	GLU	99	129.718	105.574	-12.737	1.00	98.27	HS1
ATOM	10617	N	VAL	93	133.273	108.684	-22.671	1.00	39.05	HS8	ATOM	10670	C	GLU	99	129.172	111.289	-11.866	1.00	66.34	HS1
ATOM	10618	CA	VAL	93	133.095	108.718	-21.228	1.00	39.05	HS8	ATOM	10671	O	GLU	99	130.363	111.374	-12.170	1.00	66.34	HS1

ATOM	10672	N	ILE	100	128.332	112.301	-12.031	1.00	52.27	HS8	ATOM	10725	C	ARG	105	133.808	122.879	-6.027	1.00	60.67	HS
ATOM	10673	CA	ILE	100	128.808	113.572	-12.547	1.00	52.27	HS8	ATOM	10726	O	ARG	105	133.517	122.825	-5.302	1.00	60.67	HS
ATOM	10674	CB	ILE	100	127.663	114.557	-12.722	1.00	47.23	HS8	ATOM	10727	N	GLY	106	133.293	122.717	-7.238	1.00	54.32	HS
ATOM	10675	CG2	ILE	100	128.204	115.865	-13.243	1.00	47.23	HS8	ATOM	10728	CA	GLY	106	132.308	123.657	-7.732	1.00	54.32	HS
ATOM	10676	CG1	ILE	100	126.623	113.986	-13.688	1.00	47.23	HS8	ATOM	10729	C	GLY	106	132.841	124.967	-8.279	1.00	54.32	HS
ATOM	10677	CD1	ILE	100	125.387	114.857	-13.848	1.00	47.23	HS8	ATOM	10730	O	GLY	106	132.089	125.716	-8.904	1.00	54.32	HS
ATOM	10678	C	ILE	100	129.807	114.158	-11.560	1.00	52.27	HS8	ATOM	10731	N	LEU	107	134.114	125.275	-8.058	1.00	47.50	HS
ATOM	10679	O	ILE	100	129.488	114.400	-10.402	1.00	52.27	HS8	ATOM	10732	CA	LEU	107	134.639	126.518	-8.598	1.00	47.50	HS
ATOM	10680	N	PRO	101	131.036	114.408	-12.011	1.00	48.53	HS8	ATOM	10733	CB	LEU	107	135.989	126.863	-7.970	1.00	46.83	HS
ATOM	10681	CD	PRO	101	131.554	114.197	-13.372	1.00	44.83	HS8	ATOM	10734	CG	LEU	107	136.046	126.962	-6.443	1.00	46.83	HS
ATOM	10682	CA	PRO	101	132.074	114.965	-11.144	1.00	44.83	HS8	ATOM	10735	CD1	LEU	107	137.296	127.718	-6.010	1.00	46.83	HS
ATOM	10683	CB	PRO	101	133.330	114.721	-11.950	1.00	44.83	HS8	ATOM	10736	CD2	LEU	107	134.813	127.690	-5.943	1.00	46.83	HS
ATOM	10684	CG	PRO	101	132.835	114.988	-13.348	1.00	44.83	HS8	ATOM	10737	C	LEU	107	134.785	126.374	-10.108	1.00	47.50	HS
ATOM	10685	C	PRO	101	131.896	116.442	-10.816	1.00	48.53	HS8	ATOM	10738	O	LEU	107	134.792	127.365	-10.828	1.00	47.50	HS
ATOM	10686	O	PRO	101	131.331	117.194	-11.605	1.00	48.53	HS8	ATOM	10739	N	GLY	108	134.904	125.136	-10.580	1.00	38.79	HS
ATOM	10687	N	ARG	102	132.378	116.847	-9.645	1.00	55.66	HS8	ATOM	10740	CA	GLY	108	135.032	124.884	-12.004	1.00	38.79	HS
ATOM	10688	CA	ARG	102	132.315	118.239	-9.227	1.00	55.66	HS8	ATOM	10741	C	GLY	108	133.807	124.139	-12.482	1.00	38.79	HS
ATOM	10689	CB	ARG	102	132.016	118.365	-7.736	1.00	111.01	HS8	ATOM	10742	O	GLY	108	133.028	123.687	-11.663	1.00	38.79	HS
ATOM	10690	CG	ARG	102	130.699	117.780	-7.323	1.00	111.01	HS8	ATOM	10743	N	ILE	109	133.618	123.984	-13.785	1.00	31.77	HS
ATOM	10691	CD	ARG	102	130.247	118.335	-5.989	1.00	111.01	HS8	ATOM	10744	CA	ILE	109	132.436	123.285	-14.278	1.00	31.77	HS
ATOM	10692	NE	ARG	102	128.975	117.744	-5.591	1.00	111.01	HS8	ATOM	10745	CB	ILE	109	131.560	124.220	-15.092	1.00	32.92	HS
ATOM	10693	CZ	ARG	102	128.844	116.510	-5.114	1.00	111.01	HS8	ATOM	10746	CG2	ILE	109	131.208	125.421	-14.279	1.00	32.92	HS
ATOM	10694	NH1	ARG	102	129.914	115.736	-4.964	1.00	111.01	HS8	ATOM	10747	CG1	ILE	109	132.308	124.670	-16.343	1.00	32.92	HS
ATOM	10695	NH2	ARG	102	127.640	116.042	-4.807	1.00	111.01	HS8	ATOM	10748	CD1	ILE	109	131.421	125.336	-17.331	1.00	32.92	HS
ATOM	10696	C	ARG	102	133.686	118.830	-9.509	1.00	55.66	HS8	ATOM	10749	C	ILE	109	132.765	122.100	-15.170	1.00	31.77	HS
ATOM	10697	O	ARG	102	134.678	118.477	-8.864	1.00	55.66	HS8	ATOM	10750	O	ILE	109	133.931	121.839	-15.453	1.00	31.77	HS
ATOM	10698	N	VAL	103	133.741	119.728	-10.481	1.00	49.13	HS8	ATOM	10751	N	ALA	110	131.739	121.396	-15.642	1.00	40.21	HS
ATOM	10699	CA	VAL	103	134.988	120.371	-10.858	1.00	49.13	HS8	ATOM	10752	CA	ALA	110	131.981	120.257	-16.507	1.00	40.21	HS
ATOM	10700	CB	VAL	103	134.815	121.048	-12.215	1.00	41.39	HS8	ATOM	10753	CB	ALA	110	132.119	119.024	-15.681	1.00	7.11	HS
ATOM	10701	CG1	VAL	103	136.111	121.683	-12.640	1.00	41.39	HS8	ATOM	10754	C	ALA	110	130.934	120.028	-17.578	1.00	40.21	HS
ATOM	10702	CG2	VAL	103	134.323	120.020	-13.241	1.00	41.39	HS8	ATOM	10755	O	ALA	110	130.934	120.028	-17.578	1.00	40.21	HS
ATOM	10703	C	VAL	103	135.418	121.391	-9.803	1.00	49.13	HS8	ATOM	10756	N	ILE	111	130.140	119.113	-17.478	1.00	40.21	HS
ATOM	10704	O	VAL	103	134.602	122.178	-9.330	1.00	49.13	HS8	ATOM	10757	CA	ILE	111	130.936	120.843	-18.619	1.00	39.41	HS
ATOM	10705	N	ARG	104	136.700	121.355	-9.444	1.00	61.78	HS8	ATOM	10758	CB	ILE	111	129.978	120.684	-19.706	1.00	28.95	HS
ATOM	10706	CA	ARG	104	137.296	122.239	-8.430	1.00	61.78	HS8	ATOM	10759	CG1	ILE	111	130.501	121.372	-20.968	1.00	28.95	HS
ATOM	10707	CB	ARG	104	138.885	123.276	-10.127	1.00	53.89	HS8	ATOM	10760	CG2	ILE	111	129.478	121.275	-22.078	1.00	28.95	HS
ATOM	10708	CG	ARG	104	138.885	123.276	-10.127	1.00	53.89	HS8	ATOM	10761	CD1	ILE	111	130.825	122.830	-20.659	1.00	28.95	HS
ATOM	10709	CD	ARG	104	140.256	123.010	-9.546	1.00	53.89	HS8	ATOM	10762	C	ILE	111	131.430	123.561	-21.821	1.00	28.95	HS
ATOM	10710	NE	ARG	104	141.100	124.194	-9.637	1.00	53.89	HS8	ATOM	10763	O	ILE	111	129.710	119.218	-20.048	1.00	39.41	HS
ATOM	10711	CZ	ARG	104	142.431	124.172	-9.638	1.00	53.89	HS8	ATOM	10764	N	LEU	112	130.632	118.481	-20.352	1.00	39.41	HS
ATOM	10712	NH1	ARG	104	143.088	123.017	-9.551	1.00	53.89	HS8	ATOM	10765	CA	LEU	112	128.448	118.807	-19.995	1.00	37.25	HS
ATOM	10713	NH2	ARG	104	143.109	125.307	-7.746	1.00	53.89	HS8	ATOM	10766	CB	LEU	112	128.042	117.437	-20.323	1.00	37.25	HS
ATOM	10714	C	ARG	104	136.321	122.619	-7.323	1.00	61.78	HS8	ATOM	10767	CG	LEU	112	127.267	116.786	-19.169	1.00	35.71	HS
ATOM	10715	O	ARG	104	136.080	123.807	-7.078	1.00	61.78	HS8	ATOM	10768	CD1	LEU	112	127.961	116.041	-18.036	1.00	35.71	HS
ATOM	10716	N	ARG	105	135.771	121.607	-6.653	1.00	60.67	HS8	ATOM	10769	CD2	LEU	112	127.417	114.635	-17.953	1.00	35.71	HS
ATOM	10717	CA	ARG	105	134.819	121.838	-5.580	1.00	60.67	HS8	ATOM	10770	C	LEU	112	127.107	114.635	-17.953	1.00	35.71	HS
ATOM	10718	CB	ARG	105	135.534	122.337	-4.325	1.00	61.03	HS8	ATOM	10771	O	LEU	112	127.107	117.466	-21.516	1.00	37.25	HS
ATOM	10719	CG	ARG	105	135.504	122.375	-3.148	1.00	61.03	HS8	ATOM	10772	N	SER	113	126.619	118.527	-21.896	1.00	37.25	HS
ATOM	10720	CD	ARG	105	136.214	120.058	-3.470	1.00	61.03	HS8	ATOM	10773	CA	SER	113	126.848	116.298	-22.093	1.00	36.32	HS
ATOM	10721	NE	ARG	105	136.800	119.449	-2.273	1.00	61.03	HS8	ATOM	10774	CB	SER	113	125.916	116.191	-23.207	1.00	36.32	HS
ATOM	10722	CZ	ARG	105	136.118	118.798	-1.339	1.00	61.03	HS8	ATOM	10775	OG	SER	113	126.638	115.873	-24.502	1.00	24.76	HS
ATOM	10723	NH1	ARG	105	134.804	118.648	-1.452	1.00	61.03	HS8	ATOM	10776	C	SER	113	125.689	115.703	-25.536	1.00	24.76	HS
ATOM	10724	NH2	ARG	105	136.749	118.314	-0.279	1.00	61.03	HS8	ATOM	10777	O	SER	113	124.904	115.084	-22.907	1.00	36.32	HS

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ATOM	10778	N	THR	114	123.681	115.496	-22.577	1.00	39.54	HS8	ATOM	10831	OD2	ASP	121	129.668	120.440	-11.539	1.00	70.24	HS
ATOM	10779	CA	THR	114	122.584	114.600	-22.219	1.00	39.54	HS8	ATOM	10832	C	ASP	121	126.446	120.002	-13.289	1.00	71.76	HS
ATOM	10780	CB	THR	114	121.924	115.061	-20.931	1.00	44.51	HS8	ATOM	10833	O	ASP	121	126.054	119.145	-12.513	1.00	71.76	HS
ATOM	10781	CG1	THR	114	121.118	116.210	-21.224	1.00	44.51	HS8	ATOM	10834	N	ARG	122	125.938	121.228	-13.293	1.00	49.46	HS
ATOM	10782	CG2	THR	114	122.980	115.452	-19.885	1.00	44.51	HS8	ATOM	10835	CA	ARG	122	124.866	121.591	-12.366	1.00	49.46	HS
ATOM	10783	C	THR	114	121.500	114.650	-23.273	1.00	39.54	HS8	ATOM	10836	CB	ARG	122	125.062	122.052	-11.791	1.00	96.81	HS
ATOM	10784	O	THR	114	121.500	115.551	-23.102	1.00	39.54	HS8	ATOM	10837	CG	ARG	122	125.886	123.052	-10.531	1.00	96.81	HS
ATOM	10785	N	SER	115	120.558	113.707	-23.226	1.00	66.21	HS8	ATOM	10838	CD	ARG	122	125.705	124.411	-9.864	1.00	96.81	HS
ATOM	10786	CA	SER	115	119.463	113.705	-24.193	1.00	66.21	HS8	ATOM	10839	NE	ARG	122	126.631	124.634	-8.754	1.00	96.81	HS
ATOM	10787	CB	SER	115	118.650	112.409	-24.127	1.00	37.56	HS8	ATOM	10840	CZ	ARG	122	127.954	124.752	-8.885	1.00	96.81	HS
ATOM	10788	CG	SER	115	118.169	112.153	-22.820	1.00	37.56	HS8	ATOM	10841	NH1	ARG	122	128.527	124.669	-10.084	1.00	96.81	HS
ATOM	10789	C	SER	115	118.560	114.902	-23.935	1.00	66.21	HS8	ATOM	10842	NH2	ARG	122	128.710	124.954	-7.813	1.00	96.81	HS
ATOM	10790	O	SER	115	117.662	115.196	-24.727	1.00	66.21	HS8	ATOM	10843	C	ARG	122	123.529	121.547	-13.078	1.00	49.46	HS
ATOM	10791	N	LYS	116	118.790	115.579	-22.812	1.00	49.29	HS8	ATOM	10844	O	ARG	122	122.566	120.992	-12.559	1.00	49.46	HS
ATOM	10792	CA	LYS	116	118.043	116.784	-22.486	1.00	49.29	HS8	ATOM	10845	N	GLU	123	123.466	122.151	-14.261	1.00	45.18	HS
ATOM	10793	CB	LYS	116	117.832	116.931	-20.984	1.00	69.90	HS8	ATOM	10846	CA	GLU	123	122.236	122.153	-15.035	1.00	45.18	HS
ATOM	10794	CG	LYS	116	116.500	116.458	-20.443	1.00	69.90	HS8	ATOM	10847	CB	GLU	123	122.485	122.687	-16.449	1.00	81.11	HS
ATOM	10795	CD	LYS	116	116.417	116.850	-18.972	1.00	69.90	HS8	ATOM	10848	CG	GLU	123	123.369	123.930	-16.483	1.00	81.11	HS
ATOM	10796	CE	LYS	116	115.127	116.399	-18.299	1.00	69.90	HS8	ATOM	10849	CD	GLU	123	123.378	124.625	-17.835	1.00	81.11	HS
ATOM	10797	NZ	LYS	116	115.071	116.883	-16.875	1.00	69.90	HS8	ATOM	10850	OE1	GLU	123	123.431	123.926	-18.875	1.00	81.11	HS
ATOM	10798	C	LYS	116	118.890	117.960	-22.974	1.00	49.29	HS8	ATOM	10851	OE2	GLU	123	123.343	125.878	-17.853	1.00	81.11	HS
ATOM	10799	O	LYS	116	118.602	119.122	-22.649	1.00	49.29	HS8	ATOM	10852	C	GLU	123	121.887	120.682	-15.060	1.00	45.18	HS
ATOM	10800	N	GLY	117	119.952	117.644	-23.724	1.00	46.36	HS8	ATOM	10853	O	GLU	123	120.932	120.260	-14.430	1.00	45.18	HS
ATOM	10801	CA	GLY	117	120.833	118.668	-24.276	1.00	46.36	HS8	ATOM	10854	N	ALA	124	122.662	119.887	-15.775	1.00	62.71	HS
ATOM	10802	C	GLY	117	122.122	118.969	-23.523	1.00	46.36	HS8	ATOM	10855	CA	ALA	124	122.414	118.458	-15.784	1.00	62.71	HS
ATOM	10803	O	GLY	117	122.306	118.536	-22.388	1.00	46.36	HS8	ATOM	10856	CB	ALA	124	123.472	117.741	-16.582	1.00	43.64	HS
ATOM	10804	N	VAL	118	123.014	119.726	-24.151	1.00	39.53	HS8	ATOM	10857	C	ALA	124	122.631	118.222	-14.295	1.00	62.71	HS
ATOM	10805	CA	VAL	118	124.287	120.060	-23.523	1.00	39.53	HS8	ATOM	10858	O	ALA	124	123.542	117.817	-13.733	1.00	62.71	HS
ATOM	10806	CB	VAL	118	125.182	120.887	-24.483	1.00	28.71	HS8	ATOM	10859	N	ARG	125	121.800	117.403	-13.661	1.00	57.78	HS
ATOM	10807	CG1	VAL	118	126.412	121.367	-23.760	1.00	28.71	HS8	ATOM	10860	CA	ARG	125	121.914	117.126	-12.221	1.00	57.78	HS
ATOM	10808	CG2	VAL	118	125.586	120.030	-25.693	1.00	28.71	HS8	ATOM	10861	CB	ARG	125	123.139	117.778	-11.594	1.00	67.86	HS
ATOM	10809	C	VAL	118	124.074	120.843	-22.233	1.00	39.53	HS8	ATOM	10862	CG	ARG	125	123.544	117.207	-10.267	1.00	67.86	HS
ATOM	10810	O	VAL	118	123.405	121.860	-22.237	1.00	39.53	HS8	ATOM	10863	CD	ARG	125	124.823	117.880	-9.796	1.00	67.86	HS
ATOM	10811	N	LEU	119	124.648	120.384	-21.128	1.00	43.07	HS8	ATOM	10864	NE	ARG	125	125.554	117.093	-8.808	1.00	67.86	HS
ATOM	10812	CA	LEU	119	124.453	121.087	-19.867	1.00	38.43	HS8	ATOM	10865	CZ	ARG	125	126.129	115.915	-9.057	1.00	67.86	HS
ATOM	10813	CB	LEU	119	123.367	120.415	-19.038	1.00	38.43	HS8	ATOM	10866	NH1	ARG	125	126.063	115.377	-10.272	1.00	67.86	HS
ATOM	10814	CG	LEU	119	122.086	120.009	-19.743	1.00	38.43	HS8	ATOM	10867	NH2	ARG	125	126.770	115.264	-8.086	1.00	67.86	HS
ATOM	10815	CD1	LEU	119	121.280	119.085	-18.843	1.00	38.43	HS8	ATOM	10868	C	ARG	125	120.685	117.713	-11.578	1.00	57.78	HS
ATOM	10816	CD2	LEU	119	121.311	121.243	-20.116	1.00	38.43	HS8	ATOM	10869	O	ARG	125	120.046	117.072	-10.745	1.00	57.78	HS
ATOM	10817	C	LEU	119	125.708	121.087	-19.036	1.00	43.07	HS8	ATOM	10870	N	LVS	126	120.372	118.953	-11.948	1.00	61.04	HS
ATOM	10818	O	LEU	119	126.612	120.290	-19.258	1.00	43.07	HS8	ATOM	10871	CA	LVS	126	119.177	119.606	-11.445	1.00	61.04	HS
ATOM	10819	N	THR	120	125.751	121.978	-18.060	1.00	31.14	HS8	ATOM	10872	CB	LVS	126	119.172	121.096	-11.778	1.00	61.04	HS
ATOM	10820	CA	THR	120	126.887	122.037	-17.175	1.00	31.14	HS8	ATOM	10873	CG	LVS	126	118.008	121.821	-11.140	1.00	100.10	HS
ATOM	10821	CB	THR	120	126.964	123.370	-16.468	1.00	39.13	HS8	ATOM	10874	CD	LVS	126	117.771	123.197	-11.737	1.00	100.10	HS
ATOM	10822	CG1	THR	120	125.912	123.448	-15.499	1.00	39.13	HS8	ATOM	10875	CE	LVS	126	116.490	123.814	-11.168	1.00	100.10	HS
ATOM	10823	CG2	THR	120	126.653	120.964	-16.122	1.00	31.14	HS8	ATOM	10876	NZ	LVS	126	116.136	125.118	-11.806	1.00	100.10	HS
ATOM	10824	C	THR	120	126.653	120.964	-16.122	1.00	31.14	HS8	ATOM	10877	C	LVS	126	118.077	118.885	-12.223	1.00	61.04	HS
ATOM	10825	O	THR	120	127.561	120.400	-16.025	1.00	31.14	HS8	ATOM	10878	O	LVS	126	117.082	118.468	-11.645	1.00	61.04	HS
ATOM	10826	N	ASP	121	127.671	120.696	-15.318	1.00	71.76	HS8	ATOM	10879	N	LEU	127	118.282	118.021	-14.330	1.00	33.65	HS
ATOM	10827	CA	ASP	121	127.552	119.679	-14.293	1.00	71.76	HS8	ATOM	10880	CA	LEU	127	117.338	118.021	-14.390	1.00	33.65	HS
ATOM	10828	CB	ASP	121	128.897	119.499	-13.581	1.00	70.24	HS8	ATOM	10881	CB	LEU	127	117.645	118.252	-15.872	1.00	46.79	HS
ATOM	10829	CG	ASP	121	129.253	120.675	-12.699	1.00	70.24	HS8	ATOM	10882	CG	LEU	127	117.423	119.554	-16.640	1.00	46.79	HS
ATOM	10830	OD1	ASP	121	129.124	121.830	-13.172	1.00	70.24	HS8	ATOM	10883	CD1	LEU	127	115.941	119.811	-16.822	1.00	46.79	HS

ATOM	10864	CD2	LEU	127	118.109	120.686	-15.915	1.00	46.79	HS8	ATOM	10937	N	GLU	136	136.186	119.489	-18.997	1.00	51.62	HS1
ATOM	10865	C	LEU	127	117.539	116.530	-14.104	1.00	33.65	HS8	ATOM	10938	CA	GLU	136	136.329	120.217	-17.737	1.00	51.62	HS1
ATOM	10866	O	LEU	127	116.929	115.662	-14.745	1.00	33.65	HS8	ATOM	10939	CB	GLU	136	137.469	119.646	-16.906	1.00	93.73	HS1
ATOM	10867	N	GLY	128	118.420	116.228	-13.158	1.00	45.27	HS8	ATOM	10940	CG	GLU	136	137.150	118.422	-16.110	1.00	93.73	HS1
ATOM	10868	CA	GLY	128	118.681	114.838	-12.845	1.00	45.27	HS8	ATOM	10941	CD	GLU	136	138.414	117.753	-15.619	1.00	93.73	HS1
ATOM	10869	C	GLY	128	118.973	113.954	-14.056	1.00	45.27	HS8	ATOM	10942	OE1	GLU	136	139.357	118.476	-15.230	1.00	93.73	HS1
ATOM	10890	O	GLY	128	118.240	113.012	-14.308	1.00	45.27	HS8	ATOM	10943	OE2	GLU	136	138.464	116.506	-15.622	1.00	93.73	HS1
ATOM	10891	N	VAL	129	120.027	114.252	-14.813	1.00	62.77	HS8	ATOM	10944	C	GLU	136	136.708	121.642	-18.104	1.00	51.62	HS1
ATOM	10892	CA	VAL	129	120.388	113.424	-15.966	1.00	62.77	HS8	ATOM	10945	O	GLU	136	137.212	121.885	-19.184	1.00	51.62	HS1
ATOM	10893	CB	VAL	129	119.838	113.969	-17.318	1.00	29.61	HS8	ATOM	10946	N	VAL	137	136.479	122.579	-17.202	1.00	33.62	HS1
ATOM	10894	CG1	VAL	129	118.347	113.875	-17.335	1.00	29.61	HS8	ATOM	10947	CB	VAL	137	136.832	122.972	-17.439	1.00	33.62	HS1
ATOM	10895	CG2	VAL	129	120.290	115.410	-17.559	1.00	29.61	HS8	ATOM	10948	CB	VAL	137	135.732	124.742	-18.206	1.00	36.43	HS1
ATOM	10896	C	VAL	129	121.893	113.295	-16.109	1.00	62.77	HS8	ATOM	10949	CG1	VAL	137	136.108	126.200	-18.293	1.00	36.43	HS1
ATOM	10897	O	VAL	129	122.648	114.116	-15.592	1.00	62.77	HS8	ATOM	10950	CG2	VAL	137	135.529	124.171	-19.600	1.00	36.43	HS1
ATOM	10898	N	GLY	130	122.317	112.244	-16.800	1.00	42.98	HS8	ATOM	10951	C	VAL	137	136.931	124.617	-16.071	1.00	33.62	HS1
ATOM	10899	CA	GLY	130	123.730	112.014	-17.025	1.00	42.98	HS8	ATOM	10952	O	VAL	137	136.052	124.409	-15.240	1.00	33.62	HS1
ATOM	10900	C	GLY	130	123.955	112.053	-18.526	1.00	42.98	HS8	ATOM	10953	N	TRP	138	137.984	125.382	-15.816	1.00	32.32	HS1
ATOM	10901	O	GLY	130	123.039	112.420	-19.283	1.00	42.98	HS8	ATOM	10954	CA	TRP	138	138.078	126.044	-14.535	1.00	32.32	HS1
ATOM	10902	N	GLY	131	125.153	111.675	-18.965	1.00	47.95	HS8	ATOM	10955	CB	TRP	138	138.123	125.023	-13.397	1.00	57.50	HS1
ATOM	10903	CA	GLY	131	125.439	111.685	-20.389	1.00	47.95	HS8	ATOM	10956	CG	TRP	138	140.521	124.039	-13.183	1.00	57.50	HS1
ATOM	10904	C	GLY	131	126.924	111.675	-20.680	1.00	47.95	HS8	ATOM	10957	CD2	TRP	138	140.521	124.039	-13.183	1.00	57.50	HS1
ATOM	10905	O	GLY	131	127.712	111.398	-19.774	1.00	47.95	HS8	ATOM	10958	CE2	TRP	138	141.061	122.728	-13.200	1.00	57.50	HS1
ATOM	10906	N	GLU	132	127.305	111.962	-21.930	1.00	45.20	HS8	ATOM	10959	CE3	TRP	138	141.361	125.114	-12.889	1.00	57.50	HS1
ATOM	10907	CA	GLU	132	128.714	111.989	-22.329	1.00	45.20	HS8	ATOM	10960	CD1	TRP	138	138.896	122.591	-13.691	1.00	57.50	HS1
ATOM	10908	CB	GLU	132	128.842	112.164	-23.954	1.00	59.73	HS8	ATOM	10961	NE1	TRP	138	140.048	121.861	-13.512	1.00	57.50	HS1
ATOM	10909	CG	GLU	132	130.222	111.815	-24.428	1.00	59.73	HS8	ATOM	10962	CZ2	TRP	138	142.393	122.473	-12.938	1.00	57.50	HS1
ATOM	10910	CD	GLU	132	130.230	111.558	-25.958	1.00	59.73	HS8	ATOM	10963	CZ3	TRP	138	142.682	124.864	-12.628	1.00	57.50	HS1
ATOM	10911	OE1	GLU	132	129.464	110.690	-26.453	1.00	59.73	HS8	ATOM	10964	CH2	TRP	138	143.193	123.552	-12.651	1.00	57.50	HS1
ATOM	10912	OE2	GLU	132	131.027	112.216	-26.670	1.00	59.73	HS8	ATOM	10965	C	TRP	138	139.619	127.059	-14.393	1.00	32.32	HS1
ATOM	10913	C	GLU	132	129.347	113.165	-21.603	1.00	45.20	HS8	ATOM	10966	O	TRP	138	139.595	127.345	-13.246	1.00	86.57	HS1
ATOM	10914	O	GLU	132	128.820	114.269	-20.966	1.00	43.98	HS8	ATOM	10967	OX1	TRP	138	229.565	155.000	19.654	1.00	67.55	JS1
ATOM	10915	N	LEU	133	130.451	112.907	-20.155	1.00	43.98	HS8	ATOM	10968	CB	ILE	44	230.539	164.574	18.565	1.00	67.55	JS1
ATOM	10916	CA	LEU	133	131.181	113.928	-20.155	1.00	43.98	HS8	ATOM	10969	CG2	ILE	44	228.643	166.154	19.261	1.00	67.55	JS1
ATOM	10917	CB	LEU	133	131.951	113.259	-19.008	1.00	43.68	HS8	ATOM	10970	CG1	ILE	44	227.837	166.746	20.434	1.00	67.55	JS1
ATOM	10918	CG	LEU	133	132.326	114.114	-17.793	1.00	43.68	HS8	ATOM	10971	CD1	ILE	44	228.832	162.527	19.302	1.00	30.30	JS1
ATOM	10919	CD1	LEU	133	132.892	113.245	-16.689	1.00	43.68	HS8	ATOM	10972	C	ILE	44	229.373	161.540	19.793	1.00	30.30	JS1
ATOM	10920	CD2	LEU	133	133.326	115.152	-18.192	1.00	43.68	HS8	ATOM	10973	O	ILE	44	229.017	163.517	21.565	1.00	30.30	JS1
ATOM	10921	C	LEU	133	132.147	114.589	-21.146	1.00	43.98	HS8	ATOM	10974	N	ILE	44	228.685	163.812	20.142	1.00	30.30	JS1
ATOM	10922	O	LEU	133	133.262	114.121	-21.344	1.00	50.49	HS8	ATOM	10975	CA	ILE	44	228.349	162.517	18.041	1.00	68.12	JS1
ATOM	10923	N	ILE	134	131.711	115.677	-21.767	1.00	50.49	HS8	ATOM	10976	N	PRO	45	228.087	163.702	17.198	1.00	68.12	JS1
ATOM	10924	CA	ILE	134	132.501	116.372	-22.779	1.00	50.49	HS8	ATOM	10977	CD	PRO	45	228.434	161.330	17.183	1.00	68.12	JS1
ATOM	10925	CB	ILE	134	131.646	117.424	-23.473	1.00	42.43	HS8	ATOM	10978	CA	PRO	45	229.026	161.895	15.909	1.00	68.12	JS1
ATOM	10926	CG2	ILE	134	132.503	118.319	-24.350	1.00	42.43	HS8	ATOM	10979	CB	PRO	45	228.191	163.137	17.752	1.00	68.12	JS1
ATOM	10927	CG1	ILE	134	130.570	116.712	-24.284	1.00	42.43	HS8	ATOM	10980	CG	PRO	45	229.143	160.066	17.666	1.00	103.41	JS1
ATOM	10928	CD1	ILE	134	129.575	117.638	-24.887	1.00	42.43	HS8	ATOM	10981	C	PRO	45	228.595	159.315	18.482	1.00	103.41	JS1
ATOM	10929	C	ILE	134	133.819	117.019	-22.388	1.00	50.49	HS8	ATOM	10982	O	PRO	45	230.349	159.829	17.157	1.00	75.31	JS1
ATOM	10930	O	ILE	134	134.807	116.867	-23.113	1.00	50.49	HS8	ATOM	10983	N	LEU	46	231.117	158.635	17.500	1.00	75.31	JS1
ATOM	10931	N	CYS	135	133.845	117.755	-21.277	1.00	50.36	HS8	ATOM	10984	CA	LEU	46	231.115	158.355	19.008	1.00	68.37	JS1
ATOM	10932	CA	CYS	135	135.081	118.407	-20.852	1.00	56.40	HS8	ATOM	10985	CB	LEU	46	232.191	158.965	19.910	1.00	68.37	JS1
ATOM	10933	CB	CYS	135	135.506	119.426	-21.899	1.00	56.40	HS8	ATOM	10986	CG	LEU	46	232.140	158.279	21.270	1.00	68.37	JS1
ATOM	10934	SG	CYS	135	134.346	120.781	-22.037	1.00	56.40	HS8	ATOM	10987	CD1	LEU	46	233.565	158.775	19.302	1.00	68.37	JS1
ATOM	10935	C	CYS	135	135.012	119.118	-19.505	1.00	50.36	HS8	ATOM	10988	CD2	LEU	46	230.495	157.444	16.792	1.00	75.31	JS1
ATOM	10936	O	CYS	135	133.935	119.326	-18.951	1.00	50.36	HS8	ATOM	10989	C	LEU	46						JS1

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ATOM	10990	O	LEU	46	229.273	157.282	16.783	1.00	75.31	JS10	ATOM	11043	C	ARG	52	224.517	139.590	15.249	1.00	67.62	JS
ATOM	10991	N	PRO	47	231.329	156.585	16.195	1.00	78.57	JS10	ATOM	11044	O	ARG	52	225.494	139.020	15.739	1.00	67.62	JS
ATOM	10992	CD	PRO	47	232.792	156.496	16.329	1.00	102.82	JS10	ATOM	11045	N	PHE	53	222.317	139.023	15.145	1.00	68.05	JS
ATOM	10993	CA	PRO	47	230.807	155.416	15.495	1.00	78.57	JS10	ATOM	11046	CA	PHE	53	223.073	137.641	15.537	1.00	68.05	JS
ATOM	10994	CB	PRO	47	232.074	154.687	15.069	1.00	102.82	JS10	ATOM	11047	CB	PHE	53	222.197	137.571	16.784	1.00	92.91	JS
ATOM	10995	C	PRO	47	233.027	155.016	16.176	1.00	102.82	JS10	ATOM	11048	CG	PHE	53	222.794	138.241	17.980	1.00	92.91	JS
ATOM	10996	C	PRO	47	229.929	154.565	16.405	1.00	78.57	JS10	ATOM	11049	CD1	PHE	53	222.631	139.608	18.186	1.00	92.91	JS
ATOM	10997	O	PRO	47	229.919	154.746	17.625	1.00	78.57	JS10	ATOM	11050	CD2	PHE	53	223.522	137.507	18.907	1.00	92.91	JS
ATOM	10998	N	THR	48	229.202	153.634	15.793	1.00	68.28	JS10	ATOM	11051	CE1	PHE	53	223.186	140.235	19.306	1.00	92.91	JS
ATOM	10999	CA	THR	48	228.314	152.731	16.511	1.00	68.28	JS10	ATOM	11052	CE2	PHE	53	224.081	138.121	20.026	1.00	92.91	JS
ATOM	11000	CB	THR	48	226.933	152.737	15.887	1.00	52.89	JS10	ATOM	11053	CZ	PHE	53	223.911	139.488	20.226	1.00	92.91	JS
ATOM	11001	CG1	THR	48	226.445	154.079	15.824	1.00	52.89	JS10	ATOM	11054	C	PHE	53	222.354	136.963	14.389	1.00	68.20	JS
ATOM	11002	CG2	THR	48	225.993	151.876	16.693	1.00	52.89	JS10	ATOM	11055	O	PHE	53	221.404	137.516	13.836	1.00	68.05	JS
ATOM	11003	C	THR	48	228.839	151.308	16.410	1.00	68.28	JS10	ATOM	11056	N	THR	54	222.813	135.775	14.019	1.00	68.20	JS
ATOM	11004	O	THR	48	229.047	150.813	15.308	1.00	68.28	JS10	ATOM	11057	CA	THR	54	222.187	135.041	12.931	1.00	68.20	JS
ATOM	11005	N	THR	49	229.067	150.645	17.538	1.00	82.71	JS10	ATOM	11058	CB	THR	54	223.133	134.842	11.752	1.00	59.52	JS
ATOM	11006	CA	ARG	49	229.539	149.269	17.467	1.00	82.71	JS10	ATOM	11059	CG1	THR	54	223.609	136.112	11.294	1.00	59.52	JS
ATOM	11007	CG	ARG	49	231.885	149.399	18.514	1.00	94.02	JS10	ATOM	11060	CG2	THR	54	222.401	134.166	10.626	1.00	59.52	JS
ATOM	11008	CD	ARG	49	232.879	148.506	19.257	1.00	94.02	JS10	ATOM	11061	C	THR	54	221.770	133.684	13.441	1.00	68.20	JS
ATOM	11009	CD	ARG	49	234.239	149.046	19.213	1.00	94.02	JS10	ATOM	11062	O	THR	54	222.608	132.822	13.709	1.00	68.20	JS
ATOM	11010	NE	ARG	49	235.340	148.378	19.567	1.00	94.02	JS10	ATOM	11063	N	VAL	55	220.462	133.494	13.547	1.00	54.91	JS
ATOM	11011	CZ	ARG	49	235.266	147.123	19.996	1.00	94.02	JS10	ATOM	11064	CA	VAL	55	219.913	132.261	14.074	1.00	54.91	JS
ATOM	11012	NH1	ARG	49	236.525	148.973	19.504	1.00	94.02	JS10	ATOM	11065	CB	VAL	55	219.062	131.584	15.299	1.00	76.43	JS
ATOM	11013	NH2	ARG	49	228.337	148.337	17.416	1.00	82.71	JS10	ATOM	11066	CG1	VAL	55	218.685	131.319	16.019	1.00	76.43	JS
ATOM	11014	C	ARG	49	227.733	148.029	18.439	1.00	82.71	JS10	ATOM	11067	CG2	VAL	55	219.814	133.515	16.208	1.00	76.43	JS
ATOM	11015	O	ARG	49	227.993	147.898	16.209	1.00	68.93	JS10	ATOM	11068	C	VAL	55	219.050	131.487	13.079	1.00	54.91	JS
ATOM	11016	N	VAL	50	226.861	147.009	16.007	1.00	68.93	JS10	ATOM	11069	O	VAL	55	218.126	132.043	12.523	1.00	54.91	JS
ATOM	11017	CA	VAL	50	226.318	147.139	14.576	1.00	61.17	JS10	ATOM	11070	N	ILE	56	219.340	130.208	12.858	1.00	47.82	JS
ATOM	11018	CB	VAL	50	225.022	146.377	14.453	1.00	61.17	JS10	ATOM	11071	CA	ILE	56	218.516	129.409	11.957	1.00	47.82	JS
ATOM	11019	CG1	VAL	50	226.108	148.595	14.226	1.00	61.17	JS10	ATOM	11072	CB	ILE	56	218.777	127.920	12.159	1.00	27.45	JS
ATOM	11020	CG2	VAL	50	227.232	145.516	16.265	1.00	68.93	JS10	ATOM	11073	CG2	ILE	56	217.707	127.117	11.449	1.00	27.45	JS
ATOM	11022	O	VAL	50	228.350	145.113	15.995	1.00	68.93	JS10	ATOM	11074	CG1	ILE	56	220.171	127.551	11.654	1.00	27.45	JS
ATOM	11023	N	ARG	51	226.281	144.788	16.791	1.00	65.58	JS10	ATOM	11075	CD1	ILE	56	220.589	129.618	11.996	1.00	27.45	JS
ATOM	11024	CA	ARG	51	226.497	143.378	17.092	1.00	65.58	JS10	ATOM	11076	C	ILE	56	217.042	129.673	12.318	1.00	47.82	JS
ATOM	11025	CB	ARG	51	226.490	143.169	18.606	1.00	76.34	JS10	ATOM	11077	O	ILE	56	216.672	129.542	13.488	1.00	47.82	JS
ATOM	11026	CG	ARG	51	226.673	141.740	19.049	1.00	76.34	JS10	ATOM	11078	N	ARG	57	216.203	130.030	11.341	1.00	52.06	JS
ATOM	11027	CD	ARG	51	226.229	141.573	20.498	1.00	76.34	JS10	ATOM	11079	CA	ARG	57	214.798	130.318	11.632	1.00	52.06	JS
ATOM	11028	NE	ARG	51	226.917	142.485	21.407	1.00	76.34	JS10	ATOM	11080	CB	ARG	57	213.995	130.581	10.365	1.00	40.99	JS
ATOM	11029	CZ	ARG	51	228.178	142.334	21.806	1.00	76.34	JS10	ATOM	11081	CG	ARG	57	214.413	131.798	9.625	1.00	40.99	JS
ATOM	11030	NH1	ARG	51	228.891	141.295	21.381	1.00	76.34	JS10	ATOM	11082	CD	ARG	57	213.234	132.515	9.038	1.00	40.99	JS
ATOM	11031	NH2	ARG	51	228.735	143.237	22.613	1.00	76.34	JS10	ATOM	11083	NE	ARG	57	213.626	133.820	8.528	1.00	40.99	JS
ATOM	11032	C	ARG	51	225.355	142.597	16.459	1.00	65.58	JS10	ATOM	11084	CZ	ARG	57	212.811	134.868	8.498	1.00	40.99	JS
ATOM	11033	O	ARG	51	224.209	142.717	16.889	1.00	65.58	JS10	ATOM	11085	NH1	ARG	57	211.565	134.751	8.949	1.00	40.99	JS
ATOM	11034	N	ARG	52	225.654	141.802	15.435	1.00	67.62	JS10	ATOM	11086	NH2	ARG	57	213.227	136.035	8.026	1.00	40.99	JS
ATOM	11035	CA	ARG	52	224.610	141.034	14.770	1.00	67.62	JS10	ATOM	11087	C	ARG	57	214.044	129.260	12.416	1.00	52.06	JS
ATOM	11036	CB	ARG	52	224.789	141.093	13.243	1.00	89.47	JS10	ATOM	11088	O	ARG	57	213.273	129.594	13.317	1.00	52.06	JS
ATOM	11037	CG	ARG	52	224.589	142.507	12.632	1.00	89.47	JS10	ATOM	11089	N	GLY	58	214.231	127.990	12.077	1.00	49.73	JS
ATOM	11038	CD	ARG	52	223.951	142.556	11.306	1.00	89.47	JS10	ATOM	11090	CA	GLY	58	213.436	126.962	12.792	1.00	49.73	JS
ATOM	11039	NE	ARG	52	224.930	142.756	10.240	1.00	89.47	JS10	ATOM	11091	C	GLY	58	214.351	126.027	13.619	1.00	49.73	JS
ATOM	11040	CZ	ARG	52	225.769	141.821	9.794	1.00	89.47	JS10	ATOM	11092	O	GLY	58	215.575	126.126	13.623	1.00	49.73	JS
ATOM	11041	NH1	ARG	52	225.755	140.597	10.316	1.00	89.47	JS10	ATOM	11093	N	PRO	59	213.727	125.085	14.328	1.00	54.38	JS
ATOM	11042	NH2	ARG	52	226.634	142.113	8.826	1.00	89.47	JS10	ATOM	11094	CD	PRO	59	212.304	125.054	14.723	1.00	40.55	JS
											ATOM	11095	CA	PRO	59	214.528	124.169	15.140	1.00	54.38	JS

ATOM	11096	CB	PRO	59	213.611	123.895	16.317	1.00	40.55	JS10	ATOM	11149	CB	SER	65	215.750	130.044	7.305	1.00	70.14	J:
ATOM	11097	CG	PRO	59	212.244	123.856	15.642	1.00	40.55	JS10	ATOM	11150	OG	SER	65	216.289	128.876	7.903	1.00	70.14	J:
ATOM	11098	C	PRO	59	215.015	122.870	14.488	1.00	54.38	JS10	ATOM	11151	C	SER	65	217.468	131.863	7.696	1.00	70.39	J:
ATOM	11099	O	PRO	59	215.207	121.888	15.198	1.00	54.38	JS10	ATOM	11152	O	SER	65	217.226	133.070	7.589	1.00	70.39	J:
ATOM	11100	N	PHE	60	215.221	122.827	13.169	1.00	58.55	JS10	ATOM	11153	N	ARG	66	218.194	131.376	8.678	1.00	96.29	J:
ATOM	11101	CA	PHE	60	215.705	121.569	12.577	1.00	58.55	JS10	ATOM	11154	CA	ARG	66	218.886	132.250	9.589	1.00	96.29	J:
ATOM	11102	CB	PHE	60	214.646	120.501	12.631	1.00	74.66	JS10	ATOM	11155	CB	ARG	66	220.131	132.723	8.849	1.00	59.04	J:
ATOM	11103	CG	PHE	60	215.204	119.192	13.272	1.00	74.66	JS10	ATOM	11156	CG	ARG	66	220.964	131.566	8.371	1.00	59.04	J:
ATOM	11104	CD1	PHE	60	214.414	118.291	13.959	1.00	74.66	JS10	ATOM	11157	CD	ARG	66	221.154	130.622	9.526	1.00	59.04	J:
ATOM	11105	CD2	PHE	60	216.486	118.810	12.920	1.00	74.66	JS10	ATOM	11158	NE	ARG	66	221.727	129.357	9.117	1.00	59.04	J:
ATOM	11106	CE1	PHE	60	214.891	117.015	14.282	1.00	74.66	JS10	ATOM	11159	CZ	ARG	66	222.944	129.240	8.615	1.00	59.04	J:
ATOM	11107	CE2	PHE	60	216.972	117.534	13.239	1.00	74.66	JS10	ATOM	11160	NH1	ARG	66	223.689	130.320	8.469	1.00	59.04	J:
ATOM	11108	CZ	PHE	60	216.169	116.640	13.918	1.00	74.66	JS10	ATOM	11161	NH2	ARG	66	223.418	128.046	8.278	1.00	59.04	J:
ATOM	11109	C	PHE	60	216.180	121.535	11.092	1.00	58.55	JS10	ATOM	11162	C	ARG	66	218.276	133.436	10.350	1.00	96.29	J:
ATOM	11110	O	PHE	60	216.833	122.460	10.613	1.00	58.55	JS10	ATOM	11163	O	ARG	66	218.734	133.706	11.459	1.00	96.29	J:
ATOM	11111	N	LYS	61	215.861	120.455	10.382	1.00	58.55	JS10	ATOM	11164	N	GLU	67	217.297	134.161	9.806	1.00	58.01	J:
ATOM	11112	CA	LYS	61	216.264	120.277	8.980	1.00	58.55	JS10	ATOM	11165	CA	GLU	67	216.747	135.315	10.553	1.00	58.01	J:
ATOM	11113	CB	LYS	61	215.105	119.721	8.128	1.00	58.55	JS10	ATOM	11166	CB	GLU	67	215.865	134.822	11.725	1.00	58.01	J:
ATOM	11114	CG	LYS	61	214.380	118.544	8.714	1.00	58.55	JS10	ATOM	11167	CG	GLU	67	214.506	134.213	12.432	1.00	58.01	J:
ATOM	11115	CD	LYS	61	215.351	117.630	9.419	1.00	58.55	JS10	ATOM	11168	CD	GLU	67	213.755	133.439	12.432	1.00	58.01	J:
ATOM	11116	CE	LYS	61	214.678	116.880	10.571	1.00	58.55	JS10	ATOM	11169	OE1	GLU	67	214.402	132.720	13.225	1.00	58.01	J:
ATOM	11117	NZ	LYS	61	213.891	117.751	11.471	1.00	58.55	JS10	ATOM	11170	OE2	GLU	67	212.505	133.537	12.513	1.00	58.01	J:
ATOM	11118	O	LYS	61	216.774	121.544	8.296	1.00	58.55	JS10	ATOM	11171	C	GLU	67	217.880	136.236	11.101	1.00	58.01	J:
ATOM	11119	C	LYS	61	217.929	121.626	8.876	1.00	58.55	JS10	ATOM	11172	O	GLU	67	218.731	135.801	11.878	1.00	58.01	J:
ATOM	11120	N	HIS	62	215.887	122.520	8.176	1.00	67.38	JS10	ATOM	11173	N	HIS	68	217.905	137.507	10.714	1.00	58.95	J:
ATOM	11121	CA	HIS	62	216.177	123.790	7.529	1.00	67.38	JS10	ATOM	11174	CA	HIS	68	218.962	138.387	11.215	1.00	58.95	J:
ATOM	11122	CB	HIS	62	214.931	124.657	7.643	1.00	64.57	JS10	ATOM	11175	CB	HIS	68	219.611	139.145	10.057	1.00	69.11	J:
ATOM	11123	CG	HIS	62	213.690	123.839	7.810	1.00	64.57	JS10	ATOM	11176	CG	HIS	68	220.759	138.418	9.934	1.00	69.11	J:
ATOM	11124	CD2	HIS	62	212.925	123.593	8.901	1.00	64.57	JS10	ATOM	11177	CD2	HIS	68	221.598	137.481	9.934	1.00	69.11	J:
ATOM	11125	ND1	HIS	62	213.228	122.997	6.824	1.00	64.57	JS10	ATOM	11178	ND1	HIS	68	221.148	138.619	8.123	1.00	69.11	J:
ATOM	11126	CE1	HIS	62	212.241	122.262	7.299	1.00	64.57	JS10	ATOM	11179	CE1	HIS	68	222.173	137.834	7.847	1.00	69.11	J:
ATOM	11127	NE2	HIS	62	212.039	122.603	8.558	1.00	64.57	JS10	ATOM	11180	NE2	HIS	68	222.466	137.134	8.928	1.00	69.11	J:
ATOM	11128	C	HIS	62	217.362	124.401	8.226	1.00	67.38	JS10	ATOM	11181	C	HIS	68	218.581	139.390	12.302	1.00	58.95	J:
ATOM	11129	O	HIS	62	217.378	124.469	9.449	1.00	67.38	JS10	ATOM	11182	O	HIS	68	217.563	140.075	12.217	1.00	58.95	J:
ATOM	11130	N	LYS	63	218.359	124.813	7.442	1.00	51.57	JS10	ATOM	11183	N	PHE	69	219.436	139.481	13.314	1.00	61.54	J:
ATOM	11131	CA	LYS	63	219.582	125.401	7.973	1.00	51.57	JS10	ATOM	11184	CA	PHE	69	219.241	140.408	14.426	1.00	61.54	J:
ATOM	11132	CB	LYS	63	220.726	124.376	7.993	1.00	48.96	JS10	ATOM	11185	CB	PHE	69	218.875	139.639	15.686	1.00	51.43	J:
ATOM	11133	CG	LYS	63	221.076	123.758	6.635	1.00	48.96	JS10	ATOM	11186	CG	PHE	69	217.546	138.984	15.624	1.00	51.43	J:
ATOM	11134	CE	LYS	63	222.101	124.578	5.831	1.00	48.96	JS10	ATOM	11187	CE1	PHE	69	217.440	137.600	15.726	1.00	51.43	J:
ATOM	11135	CE	LYS	63	222.439	123.902	4.485	1.00	48.96	JS10	ATOM	11188	CD2	PHE	69	216.385	139.753	15.528	1.00	51.43	J:
ATOM	11136	NZ	LYS	63	223.523	124.587	3.703	1.00	48.96	JS10	ATOM	11189	CE1	PHE	69	216.192	136.988	15.741	1.00	51.43	J:
ATOM	11137	C	LYS	63	220.000	126.587	7.157	1.00	51.57	JS10	ATOM	11190	CE2	PHE	69	215.129	139.154	15.541	1.00	51.43	J:
ATOM	11138	O	LYS	63	221.117	127.066	7.302	1.00	51.57	JS10	ATOM	11191	CZ	PHE	69	215.028	137.770	15.650	1.00	51.43	J:
ATOM	11139	N	ASP	64	219.110	127.051	6.287	1.00	55.82	JS10	ATOM	11192	C	PHE	69	220.518	141.183	14.716	1.00	61.54	J:
ATOM	11140	CA	ASP	64	219.410	128.212	5.463	1.00	55.82	JS10	ATOM	11193	O	PHE	69	221.596	140.781	14.281	1.00	61.54	J:
ATOM	11141	CB	ASP	64	219.826	127.785	4.058	1.00	55.82	JS10	ATOM	11194	N	GLU	70	220.392	142.282	15.460	1.00	59.13	J:
ATOM	11142	CG	ASP	64	218.896	126.768	3.465	1.00	55.82	JS10	ATOM	11195	CA	GLU	70	221.556	143.075	15.864	1.00	59.13	J:
ATOM	11143	OD1	ASP	64	218.644	125.747	4.133	1.00	55.82	JS10	ATOM	11196	CB	GLU	70	222.190	143.777	14.654	1.00	95.16	J:
ATOM	11144	OD2	ASP	64	218.423	126.985	2.329	1.00	55.82	JS10	ATOM	11197	CG	GLU	70	221.230	144.266	13.599	1.00	95.16	J:
ATOM	11145	C	ASP	64	218.230	129.163	5.409	1.00	55.82	JS10	ATOM	11198	CD	GLU	70	220.647	145.620	13.915	1.00	95.16	J:
ATOM	11146	O	ASP	64	217.569	129.295	4.389	1.00	55.82	JS10	ATOM	11199	OE1	GLU	70	219.926	145.736	14.929	1.00	95.16	J:
ATOM	11147	N	SER	65	218.000	129.838	6.534	1.00	70.39	JS10	ATOM	11200	OE2	GLU	70	220.913	146.569	13.141	1.00	95.16	J:
ATOM	11148	CA	SER	65	216.912	130.803	6.721	1.00	70.39	JS10	ATOM	11201	C	GLU	70	221.324	144.077	17.005	1.00	59.13	J:

ATOM	11202	O	GLU	70	220.216	144.574	17.218	1.00	59.13	JS10	ATOM	11255	CA	ALA	82	217.653	163.435	23.614	1.00109.20	JS	
ATOM	11203	N	LEU	71	222.390	144.356	17.746	1.00	78.29	JS10	ATOM	11256	CB	ALA	82	216.353	162.726	23.980	1.00101.55	JS	
ATOM	11204	CA	LEU	71	222.328	145.279	18.866	1.00	78.29	JS10	ATOM	11257	C	ALA	82	218.397	163.867	24.875	1.00109.20	JS	
ATOM	11205	CB	LEU	71	223.006	144.653	20.080	1.00	40.45	JS10	ATOM	11258	O	ALA	82	218.682	165.049	25.063	1.00109.20	JS	
ATOM	11206	CG	LEU	71	222.130	144.458	21.328	1.00	40.45	JS10	ATOM	11259	N	ALA	83	218.708	162.900	25.733	1.00	86.23	JS
ATOM	11207	CD1	LEU	71	223.004	144.155	22.557	1.00	40.45	JS10	ATOM	11260	CA	ALA	83	219.421	163.169	26.974	1.00	86.23	JS
ATOM	11208	CD2	LEU	71	221.285	145.709	21.547	1.00	40.45	JS10	ATOM	11261	CB	ALA	83	219.949	161.875	27.565	1.00	40.99	JS
ATOM	11209	C	LEU	71	222.976	146.635	18.578	1.00	78.29	JS10	ATOM	11262	C	ALA	83	220.573	164.119	26.708	1.00	86.23	JS
ATOM	11210	O	LEU	71	224.199	146.768	18.607	1.00	78.29	JS10	ATOM	11263	O	ALA	83	220.711	165.146	27.365	1.00	86.23	JS
ATOM	11211	N	ARG	72	222.150	147.640	18.314	1.00	86.54	JS10	ATOM	11264	N	ALA	84	221.404	163.769	25.737	1.00	93.14	JS
ATOM	11212	CA	ARG	72	222.632	148.992	18.035	1.00	86.54	JS10	ATOM	11265	CA	ALA	84	222.537	164.611	25.399	1.00	93.14	JS
ATOM	11213	CB	ARG	72	221.485	149.839	17.489	1.00167.16	JS10	ATOM	11266	CB	ALA	84	223.173	164.140	24.104	1.00	88.51	JS	
ATOM	11214	CG	ARG	72	220.262	149.812	18.405	1.00167.16	JS10	ATOM	11267	C	ALA	84	222.078	166.058	25.265	1.00	93.14	JS	
ATOM	11215	CD	ARG	72	219.340	151.006	18.218	1.00167.16	JS10	ATOM	11268	O	ALA	84	222.627	166.942	25.917	1.00	93.14	JS	
ATOM	11216	NE	ARG	72	218.766	151.067	16.879	1.00167.16	JS10	ATOM	11269	N	ALA	85	221.071	166.294	24.425	1.00101.21	JS		
ATOM	11217	C2	ARG	72	217.817	151.924	16.516	1.00167.16	JS10	ATOM	11270	CA	ALA	85	220.546	167.645	24.223	1.00101.21	JS		
ATOM	11218	NH1	ARG	72	217.335	152.791	17.397	1.00167.16	JS10	ATOM	11271	CB	ALA	85	219.178	167.597	23.494	1.00	57.49	JS	
ATOM	11219	NH2	ARG	72	217.356	151.918	15.272	1.00167.16	JS10	ATOM	11272	C	ALA	85	220.395	168.324	25.581	1.00101.21	JS		
ATOM	11220	C	ARG	72	223.149	149.648	19.320	1.00	86.54	JS10	ATOM	11273	O	ALA	85	220.799	169.473	25.762	1.00101.21	JS	
ATOM	11221	O	ARG	72	222.397	149.793	20.279	1.00	86.54	JS10	ATOM	11274	N	ALA	86	219.819	167.595	26.533	1.00117.22	JS	
ATOM	11222	N	THR	73	224.420	150.043	19.349	1.00	55.91	JS10	ATOM	11275	CA	ALA	86	219.614	168.108	27.883	1.00117.22	JS	
ATOM	11223	CA	THR	73	224.983	150.707	20.535	1.00	55.91	JS10	ATOM	11276	CB	ALA	86	218.802	167.101	28.708	1.00	67.14	JS
ATOM	11224	CB	THR	73	226.270	150.013	21.055	1.00	63.89	JS10	ATOM	11277	C	ALA	86	220.959	168.394	28.557	1.00117.22	JS	
ATOM	11225	OG1	THR	73	225.948	148.737	21.624	1.00	63.89	JS10	ATOM	11278	O	ALA	86	221.323	169.557	28.747	1.00117.22	JS	
ATOM	11226	CG2	THR	73	226.928	150.854	22.116	1.00	63.89	JS10	ATOM	11279	N	ALA	87	221.694	167.336	28.910	1.00	74.84	JS
ATOM	11227	C	THR	73	225.331	152.155	20.203	1.00	55.91	JS10	ATOM	11280	CA	ALA	87	222.999	167.486	29.552	1.00	74.84	JS
ATOM	11228	O	THR	73	226.334	152.424	19.544	1.00	55.91	JS10	ATOM	11281	CB	ALA	87	223.808	166.169	29.466	1.00	29.01	JS
ATOM	11229	N	ALA	77	218.575	154.668	18.814	1.00	87.86	JS10	ATOM	11282	C	ALA	87	223.761	168.605	29.863	1.00	74.84	JS
ATOM	11230	CA	ALA	77	217.932	155.285	19.972	1.00	87.86	JS10	ATOM	11283	O	ALA	87	224.617	169.241	29.465	1.00	74.84	JS
ATOM	11231	CB	ALA	77	218.622	154.828	21.268	1.00	87.86	JS10	ATOM	11284	N	ALA	88	223.432	168.845	27.601	1.00	95.31	JS
ATOM	11232	C	ALA	77	217.980	156.805	19.843	1.00	87.86	JS10	ATOM	11285	CA	ALA	88	224.088	169.880	26.817	1.00	95.31	JS
ATOM	11233	O	ALA	77	219.017	157.383	19.517	1.00	87.86	JS10	ATOM	11286	CB	ALA	88	223.897	169.597	25.325	1.00104.24	JS	
ATOM	11234	N	ALA	78	216.834	157.438	20.064	1.00	96.44	JS10	ATOM	11287	C	ALA	88	223.596	171.287	27.147	1.00	95.31	JS
ATOM	11235	CA	ALA	78	216.724	158.887	19.982	1.00	96.44	JS10	ATOM	11288	O	ALA	88	224.251	172.023	27.886	1.00	95.31	JS
ATOM	11236	CB	ALA	78	215.442	159.280	19.246	1.00	94.78	JS10	ATOM	11289	N	ALA	89	222.446	171.653	26.588	1.00143.07	JS	
ATOM	11237	C	ALA	78	216.683	159.380	21.414	1.00	96.44	JS10	ATOM	11290	CA	ALA	89	221.862	172.975	26.799	1.00143.07	JS	
ATOM	11238	O	ALA	78	216.652	160.585	21.686	1.00	96.44	JS10	ATOM	11291	CB	ALA	89	220.507	173.060	26.110	1.00	64.70	JS
ATOM	11239	N	ALA	79	216.684	158.425	22.334	1.00	80.12	JS10	ATOM	11292	C	ALA	89	221.715	173.307	28.277	1.00143.07	JS	
ATOM	11240	CA	ALA	79	216.654	158.752	23.741	1.00	80.12	JS10	ATOM	11293	O	ALA	89	222.003	174.428	28.702	1.00143.07	JS	
ATOM	11241	CB	ALA	79	216.345	157.505	24.556	1.00	21.17	JS10	ATOM	11294	N	ALA	90	221.260	172.330	29.054	1.00177.77	JS	
ATOM	11242	C	ALA	79	217.989	159.373	24.160	1.00	80.12	JS10	ATOM	11295	CA	ALA	90	221.083	172.524	30.486	1.00177.77	JS	
ATOM	11243	O	ALA	79	218.001	160.427	24.789	1.00	80.12	JS10	ATOM	11296	CB	ALA	90	220.739	171.198	31.156	1.00	93.93	JS
ATOM	11244	N	ALA	80	219.111	158.743	23.812	1.00105.74	JS10	ATOM	11297	C	ALA	90	222.363	173.104	31.082	1.00177.77	JS		
ATOM	11245	CA	ALA	80	220.407	159.324	24.175	1.00105.74	JS10	ATOM	11298	O	ALA	90	222.349	174.188	31.666	1.00177.77	JS		
ATOM	11246	CB	ALA	80	221.572	158.421	23.747	1.00	54.83	JS10	ATOM	11299	N	ALA	91	223.466	172.378	30.925	1.00107.87	JS	
ATOM	11247	C	ALA	80	220.525	160.675	23.488	1.00105.74	JS10	ATOM	11300	CA	ALA	91	224.755	172.822	31.439	1.00107.87	JS		
ATOM	11248	O	ALA	80	220.830	161.682	24.129	1.00105.74	JS10	ATOM	11301	CB	ALA	91	225.790	171.714	31.280	1.00	69.52	JS	
ATOM	11249	N	ALA	81	220.280	160.633	22.181	1.00	91.31	JS10	ATOM	11302	C	ALA	91	225.204	174.080	30.695	1.00107.87	JS	
ATOM	11250	CA	ALA	81	220.352	161.933	21.417	1.00	91.31	JS10	ATOM	11303	O	ALA	91	226.160	174.055	29.920	1.00107.87	JS	
ATOM	11251	CB	ALA	81	219.758	161.737	20.017	1.00	95.01	JS10	ATOM	11304	N	ALA	92	224.497	175.178	30.938	1.00136.61	JS	
ATOM	11252	C	ALA	81	219.566	162.988	22.181	1.00	91.31	JS10	ATOM	11305	CA	ALA	92	224.803	176.453	30.308	1.00136.61	JS	
ATOM	11253	O	ALA	81	219.925	164.166	22.191	1.00	91.31	JS10	ATOM	11306	CB	ALA	92	223.716	176.801	29.299	1.00	93.78	JS
ATOM	11254	N	ALA	82	218.496	162.546	22.831	1.00109.20	JS10	ATOM	11307	C	ALA	92	224.914	177.545	31.373	1.00136.61	JS		

ATOM	11308	O	ALA	92	225.971	178.212	31.434	1.00136.61	JS10	ATOM	11361	C	VAL	8	156.341	108.814	37.257	1.00	66.44	DS	
ATOM	11309	OXT	ALA	92	223.942	177.717	32.139	1.00122.85	JS10	ATOM	11362	O	VAL	8	156.289	109.418	36.185	1.00	66.44	DS	
ATOM	11310	C	GLY	2	149.572	96.374	32.423	1.00	90.37	DS4	ATOM	11363	N	CYS	9	156.914	109.341	38.330	1.00130.04	DS	
ATOM	11311	O	GLY	2	148.540	96.635	31.811	1.00	90.37	DS4	ATOM	11364	CA	CYS	9	157.568	110.634	38.225	1.00130.04	DS	
ATOM	11312	N	GLY	2	149.164	93.984	31.878	1.00	90.37	DS4	ATOM	11365	CB	CYS	9	157.871	111.218	39.619	1.00	43.14	DS
ATOM	11313	CA	GLY	2	150.133	94.967	32.424	1.00	90.37	DS4	ATOM	11366	SG	CYS	9	156.493	112.131	40.369	1.00	43.14	DS
ATOM	11314	N	ARG	3	150.255	97.280	33.112	1.00	78.72	DS4	ATOM	11367	C	CYS	9	158.854	110.321	37.460	1.00130.04	DS	
ATOM	11315	CA	ARG	3	149.836	98.676	33.198	1.00	78.72	DS4	ATOM	11368	O	CYS	9	159.824	109.828	38.035	1.00130.04	DS	
ATOM	11316	CB	ARG	3	148.642	98.810	34.149	1.00158.32	DS4	ATOM	11369	N	ARG	10	158.821	110.565	36.153	1.00	71.92	DS	
ATOM	11317	CG	ARG	3	147.307	98.430	33.525	1.00158.32	DS4	ATOM	11370	CA	ARG	10	159.947	110.325	35.233	1.00	71.92	DS	
ATOM	11318	CD	ARG	3	146.824	99.500	32.542	1.00158.32	DS4	ATOM	11371	CB	ARG	10	160.583	108.945	35.421	1.00	52.33	DS	
ATOM	11319	NE	ARG	3	146.426	98.955	31.243	1.00158.32	DS4	ATOM	11372	CG	ARG	10	159.847	107.817	34.709	1.00	52.33	DS	
ATOM	11320	C2	ARG	3	145.702	99.614	30.337	1.00158.32	DS4	ATOM	11373	CD	ARG	10	160.332	106.441	35.169	1.00	52.33	DS	
ATOM	11321	NH1	ARG	3	145.281	100.849	30.581	1.00158.32	DS4	ATOM	11374	NE	ARG	10	161.784	106.291	35.080	1.00	52.33	DS	
ATOM	11322	NH2	ARG	3	145.405	99.041	29.177	1.00158.32	DS4	ATOM	11375	CZ	ARG	10	162.471	106.310	33.944	1.00	52.33	DS	
ATOM	11323	C	ARG	3	151.012	99.518	33.697	1.00	78.72	DS4	ATOM	11376	NH1	ARG	10	161.835	106.473	32.783	1.00	52.33	DS
ATOM	11324	O	ARG	3	150.901	100.267	34.667	1.00	78.72	DS4	ATOM	11377	NH2	ARG	10	163.787	106.156	33.973	1.00	52.33	DS
ATOM	11325	N	TYR	4	152.140	99.391	33.014	1.00103.52	DS4	ATOM	11378	C	ARG	10	159.291	110.386	33.865	1.00	71.92	DS	
ATOM	11326	CA	TYR	4	153.348	100.105	33.387	1.00103.52	DS4	ATOM	11379	O	ARG	10	159.907	110.800	32.878	1.00	71.92	DS	
ATOM	11327	CB	TYR	4	153.156	101.619	33.275	1.00	64.26	DS4	ATOM	11380	N	LEU	11	158.045	109.919	33.812	1.00	48.14	DS
ATOM	11328	CG	TYR	4	154.420	102.358	33.646	1.00	64.26	DS4	ATOM	11381	CA	LEU	11	157.271	110.016	32.599	1.00	48.14	DS
ATOM	11329	CD1	TYR	4	155.620	102.061	33.014	1.00	64.26	DS4	ATOM	11382	CB	LEU	11	156.007	109.176	32.687	1.00	43.91	DS
ATOM	11330	CE1	TYR	4	156.806	102.631	33.427	1.00	64.26	DS4	ATOM	11383	CG	LEU	11	156.210	107.682	32.913	1.00	43.91	DS
ATOM	11331	CD2	TYR	4	154.441	103.265	34.697	1.00	64.26	DS4	ATOM	11384	CD1	LEU	11	154.869	107.054	33.169	1.00	43.91	DS
ATOM	11332	CE2	TYR	4	155.630	103.846	35.117	1.00	64.26	DS4	ATOM	11385	CD2	LEU	11	156.860	107.037	31.716	1.00	43.91	DS
ATOM	11333	C2	TYR	4	156.809	103.518	34.482	1.00	64.26	DS4	ATOM	11386	C	LEU	11	156.936	111.488	32.757	1.00	48.14	DS
ATOM	11334	OH	TYR	4	158.008	104.035	34.924	1.00	64.26	DS4	ATOM	11387	O	LEU	11	157.176	112.294	31.847	1.00	48.14	DS
ATOM	11335	C	TYR	4	153.786	99.750	34.808	1.00103.52	DS4	ATOM	11388	N	CYS	12	156.423	111.824	33.952	1.00	56.56	DS	
ATOM	11336	O	TYR	4	154.644	98.883	34.999	1.00103.52	DS4	ATOM	11389	CA	CYS	12	156.063	113.198	34.344	1.00	56.56	DS	
ATOM	11337	N	ILE	5	153.201	100.425	35.795	1.00	88.47	DS4	ATOM	11390	CB	CYS	12	156.088	113.354	35.892	1.00	45.60	DS
ATOM	11338	CA	ILE	5	153.511	100.187	37.204	1.00	88.47	DS4	ATOM	11391	SG	CYS	12	154.534	113.645	36.935	1.00	45.60	DS
ATOM	11339	CB	ILE	5	153.638	98.664	37.511	1.00	62.60	DS4	ATOM	11392	C	CYS	12	157.169	114.062	33.742	1.00	56.56	DS
ATOM	11340	CG2	ILE	5	154.345	98.445	38.824	1.00	62.60	DS4	ATOM	11393	O	CYS	12	156.901	115.048	33.070	1.00	56.56	DS
ATOM	11341	CG1	ILE	5	152.260	98.017	37.567	1.00	62.60	DS4	ATOM	11394	N	ARG	13	158.418	113.664	33.975	1.00	65.69	DS
ATOM	11342	CD1	ILE	5	151.601	97.866	36.222	1.00	62.60	DS4	ATOM	11395	CA	ARG	13	159.565	114.397	33.454	1.00	65.69	DS
ATOM	11343	C	ILE	5	154.777	100.888	37.706	1.00	88.47	DS4	ATOM	11396	CB	ARG	13	160.871	113.879	34.070	1.00	54.60	DS
ATOM	11344	O	ILE	5	154.807	101.399	38.828	1.00	88.47	DS4	ATOM	11397	CG	ARG	13	160.980	114.188	35.571	1.00	54.60	DS
ATOM	11345	N	GLY	6	155.816	100.922	36.879	1.00	44.24	DS4	ATOM	11398	CD	ARG	13	162.423	114.375	36.046	1.00	54.60	DS
ATOM	11346	CA	GLY	6	157.065	101.542	37.290	1.00	44.24	DS4	ATOM	11399	NE	ARG	13	163.028	113.148	36.547	1.00	54.60	DS
ATOM	11347	C	GLY	6	157.003	102.942	37.876	1.00	44.24	DS4	ATOM	11400	CZ	ARG	13	164.336	112.902	36.546	1.00	54.60	DS
ATOM	11348	O	GLY	6	155.932	103.530	38.029	1.00	44.24	DS4	ATOM	11401	NH1	ARG	13	165.191	113.797	36.068	1.00	54.60	DS
ATOM	11349	N	PRO	7	158.161	103.512	38.212	1.00	41.54	DS4	ATOM	11402	NH2	ARG	13	164.793	111.751	37.015	1.00	54.60	DS
ATOM	11350	CD	PRO	7	159.535	103.103	37.889	1.00	52.44	DS4	ATOM	11403	C	ARG	13	159.645	114.359	31.934	1.00	65.69	DS
ATOM	11351	CA	PRO	7	158.148	104.857	38.778	1.00	41.54	DS4	ATOM	11404	O	ARG	13	159.287	115.337	31.289	1.00	65.69	DS
ATOM	11352	CB	PRO	7	159.635	105.168	38.952	1.00	52.44	DS4	ATOM	11405	N	ARG	14	160.100	113.238	31.369	1.00	50.10	DS
ATOM	11353	CG	PRO	7	160.256	104.436	37.823	1.00	52.44	DS4	ATOM	11406	CA	ARG	14	160.233	113.042	29.910	1.00	50.10	DS
ATOM	11354	C	PRO	7	157.464	105.796	37.804	1.00	41.54	DS4	ATOM	11407	CB	ARG	14	159.848	111.613	29.528	1.00	51.56	DS
ATOM	11355	O	PRO	7	157.864	105.875	36.647	1.00	41.54	DS4	ATOM	11408	CG	ARG	14	160.876	111.881	28.665	1.00	51.56	DS
ATOM	11356	N	VAL	8	156.447	106.513	38.266	1.00	66.44	DS4	ATOM	11409	CD	ARG	14	161.352	111.718	27.488	1.00	51.56	DS
ATOM	11357	CA	VAL	8	155.714	107.424	37.403	1.00	66.44	DS4	ATOM	11410	NE	ARG	14	162.670	111.314	26.993	1.00	51.56	DS
ATOM	11358	CB	VAL	8	154.280	107.549	37.882	1.00	86.02	DS4	ATOM	11411	CZ	ARG	14	163.682	110.929	27.767	1.00	51.56	DS
ATOM	11359	CG1	VAL	8	153.497	108.348	36.904	1.00	86.02	DS4	ATOM	11412	NH1	ARG	14	163.546	110.872	29.081	1.00	51.56	DS
ATOM	11360	CG2	VAL	8	153.675	106.163	38.031	1.00	86.02	DS4	ATOM	11413	NH2	ARG	14	164.850	110.627	27.233	1.00	51.56	DS

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ATOM	11414	C	ARG	14	159.480	113.996	28.971	1.00	50.10	DS4	ATOM	11467	CB	LEU	21	151.126	110.055	36.546	1.00	61.49	DS
ATOM	11415	O	ARG	14	160.071	114.507	28.024	1.00	50.10	DS4	ATOM	11468	CG	LEU	21	150.993	110.054	35.034	1.00	61.49	DS
ATOM	11416	N	GLU	15	158.183	114.224	29.179	1.00	58.72	DS4	ATOM	11469	CD1	LEU	21	152.328	109.699	34.401	1.00	61.49	DS
ATOM	11417	CA	GLU	15	157.493	115.150	28.277	1.00	58.72	DS4	ATOM	11470	CD2	LEU	21	149.894	109.071	34.639	1.00	61.49	DS
ATOM	11418	CB	GLU	15	156.089	114.665	27.876	1.00	84.95	DS4	ATOM	11471	C	LEU	21	150.249	110.593	38.792	1.00	117.97	DS
ATOM	11419	CG	GLU	15	156.033	113.286	27.274	1.00	84.95	DS4	ATOM	11472	O	LEU	21	151.056	111.337	39.353	1.00	117.97	DS
ATOM	11420	CD	GLU	15	155.939	112.235	28.345	1.00	84.95	DS4	ATOM	11473	N	LVS	22	149.551	109.658	39.423	1.00	53.86	DS
ATOM	11421	OE1	GLU	15	156.021	112.617	29.534	1.00	84.95	DS4	ATOM	11474	CA	LVS	22	149.703	109.419	40.853	1.00	53.86	DS
ATOM	11422	OE2	GLU	15	155.783	111.044	28.010	1.00	84.95	DS4	ATOM	11475	CB	LVS	22	150.965	108.581	41.112	1.00	66.36	DS
ATOM	11423	O	GLU	15	157.359	116.506	28.919	1.00	58.72	DS4	ATOM	11476	CG	LVS	22	151.265	107.484	40.077	1.00	66.36	DS
ATOM	11424	N	GLY	16	156.349	117.169	28.737	1.00	60.92	DS4	ATOM	11477	CD	LVS	22	150.164	106.438	39.954	1.00	66.36	DS
ATOM	11425	N	GLY	16	158.381	116.921	29.654	1.00	60.92	DS4	ATOM	11478	CE	LVS	22	149.481	104.545	38.454	1.00	66.36	DS
ATOM	11426	CA	GLY	16	158.335	118.207	30.324	1.00	60.92	DS4	ATOM	11479	NZ	LVS	22	149.792	110.733	41.640	1.00	53.86	DS
ATOM	11427	C	GLY	16	157.068	118.313	31.143	1.00	60.92	DS4	ATOM	11480	C	LVS	22	150.798	111.005	42.299	1.00	53.86	DS
ATOM	11428	O	GLY	16	157.032	117.921	32.304	1.00	60.92	DS4	ATOM	11481	O	LVS	22	148.727	111.526	41.566	1.00	74.89	DS
ATOM	11429	N	VAL	17	156.029	118.845	30.513	1.00	41.17	DS4	ATOM	11482	N	GLY	23	148.676	112.812	42.235	1.00	74.89	DS
ATOM	11430	CA	VAL	17	154.717	119.016	31.115	1.00	41.17	DS4	ATOM	11483	CA	GLY	23	148.573	112.897	43.753	1.00	74.89	DS
ATOM	11431	CB	VAL	17	153.609	118.683	30.120	1.00	66.69	DS4	ATOM	11484	C	GLY	23	148.516	111.894	44.475	1.00	74.89	DS
ATOM	11432	CG1	VAL	17	152.276	119.064	30.707	1.00	66.69	DS4	ATOM	11485	O	GLY	23	148.529	114.155	44.196	1.00	91.81	DS
ATOM	11433	CG2	VAL	17	153.854	119.400	28.809	1.00	66.69	DS4	ATOM	11486	N	GLU	24	148.463	114.615	45.586	1.00	91.81	DS
ATOM	11434	C	VAL	17	154.497	118.141	32.331	1.00	41.17	DS4	ATOM	11487	CA	GLU	24	147.948	113.551	46.553	1.00	91.81	DS
ATOM	11435	O	VAL	17	154.863	116.970	32.345	1.00	41.17	DS4	ATOM	11488	CB	GLU	24	147.335	114.201	47.788	1.00	91.81	DS
ATOM	11436	N	LVS	18	153.875	118.724	33.347	1.00	63.50	DS4	ATOM	11489	CG	GLU	24	146.881	113.212	48.840	1.00	91.81	DS
ATOM	11437	CA	LVS	18	153.570	118.022	34.583	1.00	63.50	DS4	ATOM	11490	CD	GLU	24	146.288	112.176	48.471	1.00	91.81	DS
ATOM	11438	CB	LVS	18	153.342	119.064	35.677	1.00	67.64	DS4	ATOM	11491	OE1	GLU	24	147.106	113.485	50.040	1.00	91.81	DS
ATOM	11439	CG	LVS	18	153.120	118.563	37.094	1.00	67.64	DS4	ATOM	11492	OE2	GLU	24	149.883	115.016	45.963	1.00	91.81	DS
ATOM	11440	CD	LVS	18	153.148	119.780	38.030	1.00	67.64	DS4	ATOM	11493	C	GLU	24	150.128	116.124	46.446	1.00	91.81	DS
ATOM	11441	CE	LVS	18	152.474	119.536	39.374	1.00	67.64	DS4	ATOM	11494	O	GLU	24	150.815	114.099	45.729	1.00	87.95	DS
ATOM	11442	NZ	LVS	18	152.191	120.808	40.120	1.00	67.64	DS4	ATOM	11495	N	ARG	25	152.232	114.343	45.974	1.00	87.95	DS
ATOM	11443	C	LVS	18	152.321	117.155	34.377	1.00	63.50	DS4	ATOM	11496	CA	ARG	25	153.030	113.052	45.715	1.00	62.57	DS
ATOM	11444	O	LVS	18	151.210	117.673	34.223	1.00	63.50	DS4	ATOM	11497	CB	ARG	25	154.371	112.847	46.468	1.00	62.57	DS
ATOM	11445	N	LEU	19	152.523	115.841	34.322	1.00	88.94	DS4	ATOM	11498	CG	ARG	25	155.505	113.726	45.972	1.00	62.57	DS
ATOM	11446	CA	LEU	19	151.429	114.882	34.171	1.00	88.94	DS4	ATOM	11499	CD	ARG	25	156.803	113.040	46.913	1.00	62.57	DS
ATOM	11447	CB	LEU	19	151.938	113.583	33.554	1.00	71.46	DS4	ATOM	11500	NE	ARG	25	157.463	112.532	46.953	1.00	62.57	DS
ATOM	11448	CG	LEU	19	152.475	113.720	32.134	1.00	71.46	DS4	ATOM	11501	CZ	ARG	25	156.960	112.609	48.173	1.00	62.57	DS
ATOM	11449	CD1	LEU	19	153.199	112.443	31.726	1.00	71.46	DS4	ATOM	11502	NH1	ARG	25	158.650	111.964	46.774	1.00	62.57	DS
ATOM	11450	CD2	LEU	19	151.307	114.033	31.201	1.00	71.46	DS4	ATOM	11503	NH2	ARG	25	152.498	111.342	44.857	1.00	87.95	DS
ATOM	11451	C	LEU	19	151.008	114.616	35.599	1.00	88.94	DS4	ATOM	11504	C	ARG	25	153.215	116.324	45.020	1.00	87.95	DS
ATOM	11452	O	LEU	19	151.865	114.380	36.454	1.00	88.94	DS4	ATOM	11505	O	ARG	25	151.859	115.076	43.722	1.00	90.96	DS
ATOM	11453	N	TYR	20	149.714	114.637	35.889	1.00	64.05	DS4	ATOM	11506	N	CYS	26	151.990	115.883	42.521	1.00	90.96	DS
ATOM	11454	CA	TYR	20	149.333	114.425	37.275	1.00	64.05	DS4	ATOM	11507	CA	CYS	26	151.226	115.211	41.361	1.00	43.88	DS
ATOM	11455	CB	TYR	20	148.053	115.196	37.597	1.00	65.15	DS4	ATOM	11508	CB	CYS	26	151.62	113.883	40.552	1.00	43.88	DS
ATOM	11456	CG	TYR	20	148.349	116.670	37.704	1.00	65.15	DS4	ATOM	11509	SG	CYS	26	151.586	117.350	42.639	1.00	90.96	DS
ATOM	11457	CD1	TYR	20	148.033	117.543	36.667	1.00	65.15	DS4	ATOM	11510	C	CYS	26	151.255	117.977	41.637	1.00	90.96	DS
ATOM	11458	CE1	TYR	20	148.419	118.886	36.709	1.00	65.15	DS4	ATOM	11511	O	CYS	26	151.615	117.910	43.843	1.00	90.96	DS
ATOM	11459	CD2	TYR	20	149.055	117.175	38.803	1.00	65.15	DS4	ATOM	11512	N	TYR	27	151.265	119.316	43.986	1.00	130.40	DS
ATOM	11460	CE2	TYR	20	149.446	118.514	38.863	1.00	65.15	DS4	ATOM	11513	CA	TYR	27	150.078	119.495	44.923	1.00	55.89	DS
ATOM	11461	CZ	TYR	20	149.128	120.369	37.808	1.00	65.15	DS4	ATOM	11514	CB	TYR	27	148.810	119.138	44.188	1.00	55.89	DS
ATOM	11462	OH	TYR	20	149.527	119.695	37.838	1.00	64.05	DS4	ATOM	11515	CG	TYR	27	148.457	117.803	43.986	1.00	55.89	DS
ATOM	11463	C	TYR	20	149.250	112.978	37.709	1.00	64.05	DS4	ATOM	11516	CD1	TYR	27	147.411	117.457	43.142	1.00	55.89	DS
ATOM	11464	O	TYR	20	148.594	112.634	38.688	1.00	64.05	DS4	ATOM	11517	CE1	TYR	27	148.060	120.119	43.534	1.00	55.89	DS
ATOM	11465	N	LEU	21	149.957	112.129	36.980	1.00	117.97	DS4	ATOM	11518	CD2	TYR	27	147.012	119.778	42.691	1.00	55.89	DS
ATOM	11466	CA	LEU	21	149.995	110.721	37.304	1.00	117.97	DS4	ATOM	11519	CE2	TYR	27						DS

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ATOM	11520	CZ	TYR	27	146.704	118.446	42.500	1.00	55.89	DS4	ATOM	11573	O	GLU	34	161.989	119.332	41.975	1.00	68.91	D
ATOM	11521	OH	TYR	27	145.709	118.083	41.638	1.00	55.89	DS4	ATOM	11574	N	ARG	35	163.229	120.691	40.654	1.00	62.83	D
ATOM	11522	C	TYR	27	152.422	120.192	44.334	1.00	30.40	DS4	ATOM	11575	CA	ARG	35	164.468	119.959	40.787	1.00	62.83	D
ATOM	11523	O	TYR	27	152.789	121.102	43.651	1.00	30.40	DS4	ATOM	11576	CB	ARG	35	164.663	119.397	42.196	1.00	76.11	D
ATOM	11524	N	SER	28	153.009	119.951	45.556	1.00	61.81	DS4	ATOM	11577	CG	ARG	35	165.819	120.039	42.942	1.00	76.11	D
ATOM	11525	CA	SER	28	154.160	120.766	45.916	1.00	61.81	DS4	ATOM	11578	CD	ARG	35	167.140	119.842	42.217	1.00	76.11	D
ATOM	11526	CB	SER	28	153.790	121.766	47.009	1.00	52.68	DS4	ATOM	11579	NE	ARG	35	168.236	120.505	42.913	1.00	76.11	D
ATOM	11527	OG	SER	28	152.968	122.795	46.473	1.00	52.68	DS4	ATOM	11580	CZ	ARG	35	168.628	120.204	44.147	1.00	76.11	D
ATOM	11528	O	SER	28	155.379	119.943	46.321	1.00	61.81	DS4	ATOM	11581	NH1	ARG	35	168.010	119.244	44.823	1.00	76.11	D
ATOM	11529	C	SER	28	156.522	120.439	46.296	1.00	61.81	DS4	ATOM	11582	NH2	ARG	35	169.636	120.866	44.704	1.00	76.11	D
ATOM	11530	N	PRO	29	155.159	118.680	46.723	1.00	96.70	DS4	ATOM	11583	C	ARG	35	164.252	118.847	39.799	1.00	62.83	D
ATOM	11531	CD	PRO	29	153.915	118.089	47.248	1.00	34.71	DS4	ATOM	11584	O	ARG	35	163.416	117.968	40.000	1.00	62.83	D
ATOM	11532	CA	PRO	29	156.330	117.878	47.105	1.00	96.70	DS4	ATOM	11585	N	ARG	36	164.975	118.934	38.695	1.00	68.31	D
ATOM	11533	CB	PRO	29	155.720	116.692	47.861	1.00	34.71	DS4	ATOM	11586	CA	ARG	36	164.887	117.946	37.650	1.00	68.31	D
ATOM	11534	CG	PRO	29	154.291	116.648	47.394	1.00	34.71	DS4	ATOM	11587	CB	ARG	36	164.868	116.560	38.266	1.00	77.24	D
ATOM	11535	C	PRO	29	157.226	117.465	45.931	1.00	96.70	DS4	ATOM	11588	CG	ARG	36	165.996	116.286	39.224	1.00	77.24	D
ATOM	11536	O	PRO	29	158.438	117.608	46.040	1.00	96.70	DS4	ATOM	11589	CD	ARG	36	165.852	114.871	39.683	1.00	77.24	D
ATOM	11537	N	LYS	30	156.625	116.975	44.835	1.00	67.14	DS4	ATOM	11590	NE	ARG	36	167.091	114.337	40.201	1.00	77.24	D
ATOM	11538	CA	LYS	30	157.323	116.554	43.594	1.00	67.14	DS4	ATOM	11591	CZ	ARG	36	167.270	113.052	40.461	1.00	77.24	D
ATOM	11539	CB	LYS	30	158.684	115.931	43.918	1.00	67.14	DS4	ATOM	11592	NH1	ARG	36	166.278	112.197	40.237	1.00	77.24	D
ATOM	11540	CG	LYS	30	159.837	116.936	43.920	1.00	67.14	DS4	ATOM	11593	NH2	ARG	36	168.429	112.628	40.960	1.00	77.24	D
ATOM	11541	CD	LYS	30	160.910	116.552	44.948	1.00	67.14	DS4	ATOM	11594	C	ARG	36	163.682	118.107	36.730	1.00	68.31	D
ATOM	11542	CE	LYS	30	161.849	117.716	45.248	1.00	67.14	DS4	ATOM	11595	O	ARG	36	162.971	117.142	36.454	1.00	68.31	D
ATOM	11543	NZ	LYS	30	162.719	117.421	46.423	1.00	67.14	DS4	ATOM	11596	N	PRO	37	163.406	119.332	36.272	1.00	71.85	D
ATOM	11544	C	LYS	30	156.539	115.602	42.659	1.00	67.14	DS4	ATOM	11597	CD	PRO	37	162.255	119.425	35.377	1.00	71.85	D
ATOM	11545	O	LYS	30	156.346	114.432	42.974	1.00	67.14	DS4	ATOM	11598	CA	PRO	37	161.969	120.918	35.340	1.00	64.30	D
ATOM	11546	N	CYS	31	156.117	116.098	41.498	1.00	33.04	DS4	ATOM	11599	CB	PRO	37	162.400	121.367	36.693	1.00	64.30	D
ATOM	11547	CA	CYS	31	155.351	115.303	40.553	1.00	33.04	DS4	ATOM	11600	CG	PRO	37	162.720	118.878	34.025	1.00	71.85	D
ATOM	11548	CB	CYS	31	154.141	116.080	40.163	1.00	31.18	DS4	ATOM	11601	C	PRO	37	162.085	119.082	32.988	1.00	71.85	D
ATOM	11549	SG	CYS	31	153.492	115.533	38.648	1.00	31.18	DS4	ATOM	11602	O	PRO	38	164.445	117.578	32.882	1.00	76.71	D
ATOM	11550	C	CYS	31	156.184	115.078	39.321	1.00	33.04	DS4	ATOM	11603	N	TYR	38	163.855	118.187	34.061	1.00	76.71	D
ATOM	11551	O	CYS	31	156.590	113.988	38.991	1.00	33.04	DS4	ATOM	11604	CA	TYR	38	165.955	117.829	32.856	1.00	65.51	D
ATOM	11552	N	ALA	32	156.379	116.163	38.608	1.00	37.39	DS4	ATOM	11605	CB	TYR	38	166.666	117.595	34.167	1.00	65.51	D
ATOM	11553	CA	ALA	32	157.233	116.232	37.416	1.00	37.39	DS4	ATOM	11606	CG	TYR	38	166.909	116.308	34.638	1.00	65.51	D
ATOM	11554	CB	ALA	32	156.407	116.546	36.160	1.00	58.40	DS4	ATOM	11607	CD1	TYR	38	167.594	116.098	35.833	1.00	65.51	D
ATOM	11555	C	ALA	32	157.964	117.479	37.884	1.00	37.39	DS4	ATOM	11608	CE1	TYR	38	167.119	118.668	36.115	1.00	65.51	D
ATOM	11556	O	ALA	32	158.667	118.171	37.144	1.00	37.39	DS4	ATOM	11609	CD2	TYR	38	167.797	118.470	36.115	1.00	65.51	D
ATOM	11557	N	MET	33	157.724	117.711	39.171	1.00	35.12	DS4	ATOM	11610	CE2	TYR	38	168.034	117.188	36.566	1.00	65.51	D
ATOM	11558	CA	MET	33	158.183	118.835	39.939	1.00	35.12	DS4	ATOM	11611	CZ	TYR	38	168.707	117.006	37.753	1.00	65.51	D
ATOM	11559	CB	MET	33	157.819	118.625	41.404	1.00	200.66	DS4	ATOM	11612	OH	TYR	38	164.164	116.088	32.878	1.00	76.71	D
ATOM	11560	CG	MET	33	156.362	118.899	41.730	1.00	200.66	DS4	ATOM	11613	C	TYR	38	163.691	115.535	33.863	1.00	76.71	D
ATOM	11561	SD	MET	33	156.182	120.003	43.154	1.00	200.66	DS4	ATOM	11614	O	TYR	38	164.461	115.415	31.761	1.00	57.69	D
ATOM	11562	CE	MET	33	157.780	119.784	43.991	1.00	200.66	DS4	ATOM	11615	N	PRO	39	165.033	115.967	30.518	1.00	58.38	D
ATOM	11563	C	MET	33	159.584	119.354	39.893	1.00	35.12	DS4	ATOM	11616	CD	PRO	39	164.227	113.971	31.637	1.00	57.69	D
ATOM	11564	O	MET	33	160.477	118.835	39.220	1.00	35.12	DS4	ATOM	11617	CA	PRO	39	164.432	113.726	30.152	1.00	58.38	D
ATOM	11565	N	GLU	34	159.712	120.418	40.675	1.00	68.91	DS4	ATOM	11618	CB	PRO	39	165.508	114.731	29.812	1.00	58.38	D
ATOM	11566	CA	GLU	34	160.908	121.193	40.885	1.00	68.91	DS4	ATOM	11619	CG	PRO	39	165.132	113.106	32.506	1.00	57.69	D
ATOM	11567	CB	GLU	34	160.635	122.218	41.986	1.00	112.82	DS4	ATOM	11620	C	PRO	39	166.207	113.527	32.925	1.00	57.69	D
ATOM	11568	CG	GLU	34	159.167	122.220	42.495	1.00	112.82	DS4	ATOM	11621	O	PRO	40	164.701	111.874	32.783	1.00	43.51	D
ATOM	11569	CD	GLU	34	158.105	122.347	41.385	1.00	112.82	DS4	ATOM	11622	N	PRO	40	163.445	111.262	32.319	1.00	42.46	D
ATOM	11570	OE1	GLU	34	156.901	122.407	41.708	1.00	112.82	DS4	ATOM	11623	CD	PRO	40	165.459	110.934	33.606	1.00	43.51	D
ATOM	11571	OE2	GLU	34	158.468	122.382	40.192	1.00	112.82	DS4	ATOM	11624	CA	PRO	40	164.443	109.838	33.884	1.00	42.46	D
ATOM	11572	C	GLU	34	162.094	120.309	41.223	1.00	68.91	DS4	ATOM	11625	CB	PRO	40						D

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ATOM	11626	CG	PRO	40	163.671	109.797	32.635	1.00	42.46	DS4	ATOM	11679	NE	ARG	47	175.555	123.126	25.346	1.00174.09	Dx
ATOM	11627	C	PRO	40	166.630	110.401	32.897	1.00	43.51	DS4	ATOM	11680	CZ	ARG	47	176.813	123.477	25.094	1.00174.09	Dx
ATOM	11628	O	PRO	40	166.819	110.540	31.678	1.00	43.51	DS4	ATOM	11681	NH1	ARG	47	177.426	123.032	24.005	1.00174.09	Dx
ATOM	11629	N	GLY	41	167.596	109.799	33.666	1.00	48.97	DS4	ATOM	11682	NH2	ARG	47	177.460	124.272	25.939	1.00174.09	Dx
ATOM	11630	CA	GLY	41	168.801	109.229	33.091	1.00	48.97	DS4	ATOM	11683	C	ARG	47	170.584	119.351	24.709	1.00 75.75	Dx
ATOM	11631	C	GLY	41	170.032	110.110	33.123	1.00	48.97	DS4	ATOM	11684	O	ARG	47	170.837	118.201	24.340	1.00 75.75	Dx
ATOM	11632	O	GLY	41	169.981	111.272	33.517	1.00	48.97	DS4	ATOM	11685	N	ALA	48	169.413	119.944	24.510	1.00 95.77	Dx
ATOM	11633	N	GLN	42	171.139	109.525	32.680	1.00	48.89	DS4	ATOM	11686	CA	ALA	48	168.279	119.292	23.869	1.00 95.77	Dx
ATOM	11634	CA	GLN	42	172.456	110.150	32.619	1.00	48.89	DS4	ATOM	11687	CB	ALA	48	167.138	120.282	23.745	1.00 79.83	Dx
ATOM	11635	CB	GLN	42	173.409	109.207	31.896	1.00	69.99	DS4	ATOM	11688	C	ALA	48	168.492	118.608	22.525	1.00 95.77	Dx
ATOM	11636	CG	GLN	42	174.848	109.329	32.278	1.00	69.99	DS4	ATOM	11689	O	ALA	48	168.614	117.386	22.462	1.00 95.77	Dx
ATOM	11637	CD	GLN	42	175.672	108.174	31.731	1.00	69.99	DS4	ATOM	11690	N	ARG	49	168.514	119.408	21.460	1.00 71.91	Dx
ATOM	11638	OE1	GLN	42	176.131	108.207	30.590	1.00	69.99	DS4	ATOM	11691	CA	ARG	49	168.644	118.934	20.075	1.00 71.91	Dx
ATOM	11639	NE2	GLN	42	175.844	107.130	32.543	1.00	69.99	DS4	ATOM	11692	CB	ARG	49	169.223	117.520	19.981	1.00124.70	Dx
ATOM	11640	C	GLN	42	172.519	111.510	31.939	1.00	48.89	DS4	ATOM	11693	CG	ARG	49	170.724	117.449	19.917	1.00124.70	Dx
ATOM	11641	O	GLN	42	173.055	112.466	32.498	1.00	48.89	DS4	ATOM	11694	CD	ARG	49	171.145	116.288	19.028	1.00124.70	Dx
ATOM	11642	N	HIS	43	171.959	111.601	30.737	1.00	71.25	DS4	ATOM	11695	NE	ARG	49	172.586	116.054	19.062	1.00124.70	Dx
ATOM	11643	CA	HIS	43	172.004	112.834	29.947	1.00	71.25	DS4	ATOM	11696	CZ	ARG	49	173.251	115.605	20.127	1.00124.70	Dx
ATOM	11644	CG	HIS	43	172.110	112.463	28.475	1.00	61.52	DS4	ATOM	11697	NH1	ARG	49	174.569	115.435	20.067	1.00124.70	Dx
ATOM	11645	CG	HIS	43	172.929	111.240	28.231	1.00	61.52	DS4	ATOM	11698	NH2	ARG	49	167.253	118.924	19.449	1.00 71.91	Dx
ATOM	11646	CD2	HIS	43	172.565	109.969	27.948	1.00	61.52	DS4	ATOM	11699	C	ARG	49	166.364	118.193	19.903	1.00 71.91	Dx
ATOM	11647	ND1	HIS	43	174.303	111.240	28.316	1.00	61.52	DS4	ATOM	11700	O	ARG	49	167.073	119.745	18.417	1.00 64.02	Dx
ATOM	11648	CE1	HIS	43	174.752	110.017	28.094	1.00	61.52	DS4	ATOM	11701	N	ARG	50	166.802	120.497	16.347	1.00178.60	Dx
ATOM	11649	NE2	HIS	43	173.717	109.228	27.868	1.00	61.52	DS4	ATOM	11702	CA	ARG	50	165.817	119.855	17.715	1.00 64.02	Dx
ATOM	11650	C	HIS	43	170.851	113.812	30.115	1.00	71.25	DS4	ATOM	11703	CB	ARG	50	166.017	120.497	16.347	1.00178.60	Dx
ATOM	11651	O	HIS	43	170.721	114.760	29.338	1.00	71.25	DS4	ATOM	11704	CG	ARG	50	164.758	120.643	15.514	1.00178.60	Dx
ATOM	11652	N	GLY	44	170.015	113.589	31.117	1.00	70.11	DS4	ATOM	11705	CD	ARG	50	165.119	121.104	14.116	1.00178.60	Dx
ATOM	11653	CA	GLY	44	168.887	114.477	31.322	1.00	70.11	DS4	ATOM	11706	NE	ARG	50	165.878	122.351	14.116	1.00178.60	Dx
ATOM	11654	C	GLY	44	169.185	115.966	31.218	1.00	70.11	DS4	ATOM	11707	CZ	ARG	50	166.592	122.807	13.116	1.00178.60	Dx
ATOM	11655	O	GLY	44	168.345	116.743	30.752	1.00	70.11	DS4	ATOM	11708	NH1	ARG	50	166.645	122.112	11.987	1.00178.60	Dx
ATOM	11656	N	GLN	45	170.389	116.363	31.615	1.00	66.04	DS4	ATOM	11709	NH2	ARG	50	167.254	123.955	13.219	1.00178.60	Dx
ATOM	11657	CB	GLN	45	170.757	117.771	31.615	1.00	66.04	DS4	ATOM	11710	C	ARG	50	165.204	118.470	17.539	1.00 64.02	Dx
ATOM	11658	CA	GLN	45	171.509	118.063	32.909	1.00	80.40	DS4	ATOM	11711	O	ARG	51	165.853	117.565	17.015	1.00 64.02	Dx
ATOM	11659	CG	GLN	45	170.682	117.704	34.134	1.00	80.40	DS4	ATOM	11712	N	PRO	51	163.959	118.277	17.987	1.00 51.77	Dx
ATOM	11660	CD	GLN	45	171.476	117.745	35.417	1.00	80.40	DS4	ATOM	11713	CD	PRO	51	163.122	119.107	18.863	1.00 55.14	Dx
ATOM	11661	OE1	GLN	45	171.992	118.792	35.807	1.00	80.40	DS4	ATOM	11714	CA	PRO	51	163.373	116.949	17.825	1.00 55.14	Dx
ATOM	11662	NE2	GLN	45	171.579	116.599	36.086	1.00	80.40	DS4	ATOM	11715	CB	PRO	51	162.246	116.932	18.860	1.00 55.14	Dx
ATOM	11663	C	GLN	45	171.512	118.349	30.413	1.00	66.04	DS4	ATOM	11716	CG	PRO	51	162.582	118.074	19.796	1.00 55.14	Dx
ATOM	11664	O	GLN	45	171.632	119.570	30.292	1.00	66.04	DS4	ATOM	11717	C	PRO	51	162.835	116.832	16.418	1.00 51.77	Dx
ATOM	11665	N	LYS	46	172.007	117.497	29.520	1.00	57.43	DS4	ATOM	11718	O	PRO	51	162.469	117.842	15.815	1.00 51.77	Dx
ATOM	11666	CA	LYS	46	172.722	117.983	28.341	1.00	57.43	DS4	ATOM	11719	N	SER	52	162.784	115.605	15.908	1.00 47.85	Dx
ATOM	11667	CB	LYS	46	173.404	116.823	27.627	1.00	66.26	DS4	ATOM	11720	CA	SER	52	162.255	115.339	14.573	1.00 47.85	Dx
ATOM	11668	CG	LYS	46	174.376	116.067	28.506	1.00	66.26	DS4	ATOM	11721	CB	SER	52	162.660	113.932	14.122	1.00 55.61	Dx
ATOM	11669	CD	LYS	46	175.117	115.005	27.725	1.00	66.26	DS4	ATOM	11722	OG	SER	52	162.113	112.934	14.968	1.00 55.61	Dx
ATOM	11670	CE	LYS	46	176.063	114.236	28.614	1.00	66.26	DS4	ATOM	11723	C	SER	52	160.729	115.441	14.589	1.00 47.85	Dx
ATOM	11671	NZ	LYS	46	176.760	113.179	27.837	1.00	66.26	DS4	ATOM	11724	O	SER	52	160.099	115.350	15.653	1.00 47.85	Dx
ATOM	11672	C	LYS	46	171.792	118.714	27.366	1.00	57.43	DS4	ATOM	11725	N	ASP	53	160.123	115.640	13.417	1.00 55.62	Dx
ATOM	11673	O	LYS	46	170.571	118.622	27.465	1.00	57.43	DS4	ATOM	11726	CA	ASP	53	158.668	115.715	13.324	1.00 55.62	Dx
ATOM	11674	N	ARG	47	172.381	119.442	26.424	1.00	75.75	DS4	ATOM	11727	CB	ASP	53	158.204	115.697	11.868	1.00 96.94	Dx
ATOM	11675	CA	ARG	47	171.619	120.201	25.440	1.00	75.75	DS4	ATOM	11728	CG	ASP	53	158.676	116.899	11.086	1.00 96.94	Dx
ATOM	11676	CB	ARG	47	172.587	120.877	24.463	1.00174.09		DS4	ATOM	11729	OD1	ASP	53	159.893	117.188	11.117	1.00 96.94	Dx
ATOM	11677	CG	ARG	47	173.408	121.963	25.155	1.00174.09		DS4	ATOM	11730	OD2	ASP	53	157.829	117.545	10.428	1.00 96.94	Dx
ATOM	11678	CD	ARG	47	174.746	122.253	24.494	1.00174.09		DS4	ATOM	11731	C	ASP	53	158.119	114.476	14.025	1.00 55.62	Dx

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ATOM	11732	O	ASP	53	157.091	114.536	14.704	1.00	55.62	DS4	ATOM	11785	C	ARG	59	154.374	112.981	22.878	1.00	54.94	DS
ATOM	11733	N	TYR	54	158.915	113.352	13.861	1.00	37.47	DS4	ATOM	11786	O	ARG	59	153.815	112.639	23.925	1.00	54.94	DS
ATOM	11734	CA	TYR	54	158.388	112.109	14.484	1.00	37.47	DS4	ATOM	11787	N	GLU	60	153.776	113.747	21.968	1.00	56.68	DS
ATOM	11735	CB	TYR	54	159.333	110.967	14.135	1.00	45.15	DS4	ATOM	11788	CA	GLU	60	152.422	114.213	22.205	1.00	56.68	DS
ATOM	11736	CG	TYR	54	158.830	109.649	14.654	1.00	45.15	DS4	ATOM	11789	CB	GLU	60	151.894	114.995	21.011	1.00	79.69	DS
ATOM	11737	CD1	TYR	54	157.641	109.115	14.177	1.00	45.15	DS4	ATOM	11790	CG	GLU	60	151.012	116.168	21.414	1.00	79.69	DS
ATOM	11738	CE1	TYR	54	157.115	107.945	14.718	1.00	45.15	DS4	ATOM	11791	CD	GLU	60	151.719	117.124	22.364	1.00	79.69	DS
ATOM	11739	CE2	TYR	54	159.494	108.977	15.684	1.00	45.15	DS4	ATOM	11792	OE1	GLU	60	152.881	117.489	22.088	1.00	79.69	DS
ATOM	11740	CE2	TYR	54	158.982	107.804	16.237	1.00	45.15	DS4	ATOM	11793	OE2	GLU	60	151.115	117.520	23.382	1.00	79.69	DS
ATOM	11741	CH	TYR	54	157.787	107.291	15.749	1.00	45.15	DS4	ATOM	11794	C	GLU	60	151.535	113.015	22.492	1.00	56.68	DS
ATOM	11743	C	TYR	54	157.241	106.122	16.279	1.00	45.15	DS4	ATOM	11795	C	GLU	60	150.887	112.963	23.538	1.00	56.68	DS
ATOM	11744	O	TYR	54	158.362	112.277	15.989	1.00	37.47	DS4	ATOM	11796	N	LYS	61	151.505	112.067	21.578	1.00	43.22	DS
ATOM	11745	N	ALA	55	157.313	112.161	16.617	1.00	37.47	DS4	ATOM	11797	CA	LYS	61	150.977	109.779	20.763	1.00	55.14	DS
ATOM	11746	CA	ALA	55	159.674	112.747	17.994	1.00	35.35	DS4	ATOM	11798	CB	LYS	61	150.977	109.779	20.763	1.00	55.14	DS
ATOM	11747	CB	ALA	55	160.982	113.380	18.286	1.00	17.47	DS4	ATOM	11799	CG	LYS	61	150.401	108.431	21.181	1.00	55.14	DS
ATOM	11748	C	ALA	55	158.579	113.637	18.529	1.00	35.35	DS4	ATOM	11800	CD	LYS	61	151.015	107.286	20.400	1.00	55.14	DS
ATOM	11749	O	ALA	55	157.961	113.345	19.542	1.00	35.35	DS4	ATOM	11801	CE	LYS	61	152.184	106.653	21.142	1.00	55.14	DS
ATOM	11750	N	VAL	56	158.354	114.745	17.846	1.00	47.33	DS4	ATOM	11802	NZ	LYS	61	151.749	105.819	22.299	1.00	55.14	DS
ATOM	11752	CB	VAL	56	157.330	115.661	18.279	1.00	47.33	DS4	ATOM	11803	C	LYS	61	151.087	110.289	23.130	1.00	43.22	DS
ATOM	11753	CG1	VAL	56	157.169	116.796	17.278	1.00	28.64	DS4	ATOM	11804	O	LYS	61	150.301	110.263	24.054	1.00	43.22	DS
ATOM	11754	CG2	VAL	56	156.055	117.699	17.707	1.00	28.64	DS4	ATOM	11805	N	GLN	62	152.327	109.830	23.214	1.00	53.81	DS
ATOM	11755	C	VAL	56	158.451	117.578	17.200	1.00	28.64	DS4	ATOM	11806	CA	GLN	62	152.855	109.239	24.431	1.00	53.81	DS
ATOM	11756	O	VAL	56	156.021	114.913	18.436	1.00	47.33	DS4	ATOM	11807	CB	GLN	62	154.367	109.155	24.313	1.00	43.51	DS
ATOM	11757	N	ARG	57	155.514	114.372	17.334	1.00	54.91	DS4	ATOM	11808	CG	GLN	62	155.045	108.693	25.558	1.00	43.51	DS
ATOM	11758	CA	ARG	57	154.260	113.629	17.369	1.00	54.91	DS4	ATOM	11809	CD	GLN	62	156.326	109.453	25.796	1.00	43.51	DS
ATOM	11759	CB	ARG	57	153.795	113.297	15.948	1.00	41.04	DS4	ATOM	11810	OE1	GLN	62	156.334	110.690	25.799	1.00	43.51	DS
ATOM	11760	CG	ARG	57	153.400	114.525	15.174	1.00	41.04	DS4	ATOM	11811	NE2	GLN	62	157.419	108.726	26.001	1.00	43.51	DS
ATOM	11761	CD	ARG	57	153.339	114.310	13.673	1.00	41.04	DS4	ATOM	11812	C	GLN	62	152.438	110.001	25.702	1.00	53.81	DS
ATOM	11762	CE	ARG	57	153.068	115.582	13.004	1.00	41.04	DS4	ATOM	11813	O	GLN	62	152.209	109.406	26.745	1.00	53.81	DS
ATOM	11763	CZ	ARG	57	153.866	116.651	13.066	1.00	41.04	DS4	ATOM	11814	N	LYS	63	152.330	111.318	25.615	1.00	64.82	DS
ATOM	11764	NH1	ARG	57	154.997	116.597	13.762	1.00	41.04	DS4	ATOM	11815	CA	LYS	63	151.908	112.119	26.764	1.00	64.82	DS
ATOM	11765	NH2	ARG	57	153.520	117.791	12.466	1.00	41.04	DS4	ATOM	11816	CB	LYS	63	152.122	113.600	26.469	1.00	45.49	DS
ATOM	11766	C	ARG	57	154.328	112.359	18.215	1.00	54.91	DS4	ATOM	11817	CG	LYS	63	151.893	114.509	27.643	1.00	45.49	DS
ATOM	11767	O	ARG	57	153.298	111.848	18.638	1.00	54.91	DS4	ATOM	11818	CD	LYS	63	151.720	115.942	27.174	1.00	45.49	DS
ATOM	11768	N	LEU	58	155.523	111.837	18.467	1.00	54.02	DS4	ATOM	11819	CE	LYS	63	152.923	116.434	26.382	1.00	45.49	DS
ATOM	11769	CA	LEU	58	155.622	110.647	19.306	1.00	54.02	DS4	ATOM	11820	NZ	LYS	63	150.417	111.860	27.036	1.00	64.82	DS
ATOM	11770	CB	LEU	58	157.059	110.117	19.364	1.00	40.17	DS4	ATOM	11821	C	LYS	63	150.052	111.277	28.057	1.00	64.82	DS
ATOM	11771	CG	LEU	58	157.203	108.613	19.659	1.00	40.17	DS4	ATOM	11823	N	LEU	64	149.564	112.294	26.110	1.00	47.97	DS
ATOM	11772	CD1	LEU	58	158.632	108.316	20.034	1.00	40.17	DS4	ATOM	11824	CA	LEU	64	148.117	112.105	26.227	1.00	47.97	DS
ATOM	11773	CD2	LEU	58	156.291	108.174	20.778	1.00	40.17	DS4	ATOM	11825	CB	LEU	64	147.454	112.196	24.855	1.00	40.99	DS
ATOM	11774	C	LEU	58	155.219	111.100	20.709	1.00	54.02	DS4	ATOM	11826	CG	LEU	64	145.995	112.637	24.697	1.00	40.99	DS
ATOM	11775	O	LEU	58	154.202	110.661	21.262	1.00	54.02	DS4	ATOM	11827	CD1	LEU	64	145.505	112.105	23.366	1.00	40.99	DS
ATOM	11776	N	ARG	59	156.030	111.999	21.261	1.00	54.94	DS4	ATOM	11828	CD2	LEU	64	145.111	112.108	25.814	1.00	40.99	DS
ATOM	11777	CA	ARG	59	155.812	112.542	22.592	1.00	54.94	DS4	ATOM	11829	C	LEU	64	147.833	110.729	26.792	1.00	47.97	DS
ATOM	11778	CB	ARG	59	156.734	113.729	22.826	1.00	59.49	DS4	ATOM	11830	O	LEU	64	147.080	110.583	27.750	1.00	47.97	DS
ATOM	11779	CG	ARG	59	158.147	113.523	22.364	1.00	59.49	DS4	ATOM	11831	N	ARG	65	148.450	109.719	26.194	1.00	61.07	DS
ATOM	11780	CD	ARG	59	158.662	112.180	22.791	1.00	59.49	DS4	ATOM	11832	CA	ARG	65	148.253	108.342	26.621	1.00	61.07	DS
ATOM	11781	NE	ARG	59	158.643	112.037	24.234	1.00	59.49	DS4	ATOM	11833	CB	ARG	65	148.956	107.380	26.559	1.00	61.15	DS
ATOM	11782	CZ	ARG	59	158.805	110.880	24.861	1.00	59.49	DS4	ATOM	11834	CG	ARG	65	149.236	106.019	26.258	1.00	61.15	DS
ATOM	11783	NH1	ARG	59	158.993	109.754	24.171	1.00	59.49	DS4	ATOM	11835	CD	ARG	65	149.236	104.939	25.207	1.00	61.15	DS
ATOM	11784	NH2	ARG	59	158.782	110.855	26.185	1.00	59.49	DS4	ATOM	11836	NE	ARG	65	150.223	103.903	25.495	1.00	61.15	DS
											ATOM	11837	CZ	ARG	65	151.534	104.115	25.490	1.00	61.15	DS

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ATOM	11838	NH1	ARG	65	152.004	105.322	25.219	1.00	61.15	DS4	ATOM	11891	N	GLU	72	148.940	100.646	24.976	1.00	40.44	Df
ATOM	11839	NH2	ARG	65	152.378	103.122	25.728	1.00	61.15	DS4	ATOM	11892	CA	GLU	72	148.902	101.117	23.612	1.00	40.44	Df
ATOM	11840	C	ARG	65	148.677	108.025	28.046	1.00	61.07	DS4	ATOM	11893	CB	GLU	72	150.247	100.943	22.926	1.00	64.54	Df
ATOM	11841	O	ARG	65	147.958	107.338	28.769	1.00	61.07	DS4	ATOM	11894	CD	GLU	72	150.248	101.459	21.491	1.00	64.54	Df
ATOM	11843	N	ARG	66	149.839	108.505	28.460	1.00	59.42	DS4	ATOM	11895	CG	GLU	72	150.066	102.968	21.381	1.00	64.54	Df
ATOM	11844	CA	ARG	66	150.278	108.209	29.813	1.00	59.42	DS4	ATOM	11896	OE1	GLU	72	150.005	103.481	20.246	1.00	64.54	Df
ATOM	11844	CB	ARG	66	151.739	108.610	29.985	1.00	54.95	DS4	ATOM	11897	OE2	GLU	72	149.992	103.647	22.423	1.00	64.54	Df
ATOM	11845	CG	ARG	66	152.678	107.669	29.252	1.00	54.95	DS4	ATOM	11898	C	GLU	72	147.822	100.288	22.908	1.00	40.44	Df
ATOM	11846	CD	ARG	66	154.084	108.216	29.191	1.00	54.95	DS4	ATOM	11899	O	GLU	72	147.133	100.802	22.032	1.00	40.44	Df
ATOM	11847	NE	ARG	66	155.058	107.217	28.761	1.00	54.95	DS4	ATOM	11900	N	ARG	73	147.657	99.020	23.303	1.00	58.75	Df
ATOM	11848	CZ	ARG	66	156.348	107.481	28.556	1.00	54.95	DS4	ATOM	11901	CA	ARG	73	146.629	98.157	22.692	1.00	58.75	Df
ATOM	11849	NH1	ARG	66	156.816	108.715	28.737	1.00	54.95	DS4	ATOM	11902	CB	ARG	73	146.355	96.850	23.498	1.00	10116.70	Df
ATOM	11850	NH2	ARG	66	157.178	106.512	28.185	1.00	54.95	DS4	ATOM	11903	CG	ARG	73	147.562	96.037	24.042	1.00	10116.70	Df
ATOM	11851	C	ARG	66	149.386	108.883	30.848	1.00	59.42	DS4	ATOM	11904	NE	ARG	73	146.490	94.060	25.389	1.00	10116.70	Df
ATOM	11852	O	ARG	66	149.287	108.431	31.982	1.00	59.42	DS4	ATOM	11905	CD	ARG	73	146.362	92.792	25.805	1.00	10116.70	Df
ATOM	11853	N	ILE	67	148.714	109.951	30.444	1.00	52.44	DS4	ATOM	11906	CZ	ARG	73	146.984	91.808	25.169	1.00	10116.70	Df
ATOM	11854	CA	ILE	67	147.826	110.662	31.346	1.00	52.44	DS4	ATOM	11907	NH1	ARG	73	146.984	91.808	25.169	1.00	10116.70	Df
ATOM	11855	CB	ILE	67	147.192	111.875	30.649	1.00	48.41	DS4	ATOM	11908	NH2	ARG	73	145.609	92.495	26.859	1.00	10116.70	Df
ATOM	11856	CG2	ILE	67	145.867	112.242	31.298	1.00	48.41	DS4	ATOM	11909	C	ARG	73	145.334	98.967	22.694	1.00	58.75	Df
ATOM	11857	CG1	ILE	67	148.175	113.045	30.692	1.00	48.41	DS4	ATOM	11910	O	ARG	73	144.775	99.294	21.651	1.00	58.75	Df
ATOM	11858	CD1	ILE	67	147.598	114.334	30.141	1.00	48.41	DS4	ATOM	11911	N	GLN	74	144.879	99.309	23.892	1.00	51.48	Df
ATOM	11859	C	ILE	67	146.727	109.754	31.869	1.00	52.44	DS4	ATOM	11912	CA	GLN	74	143.639	100.038	24.046	1.00	51.48	Df
ATOM	11860	O	ILE	67	146.428	109.760	33.061	1.00	52.44	DS4	ATOM	11913	CB	GLN	74	143.263	100.113	25.521	1.00	55.99	Df
ATOM	11861	N	TYR	68	146.118	108.980	30.979	1.00	53.25	DS4	ATOM	11914	CG	GLN	74	143.271	98.776	26.243	1.00	55.99	Df
ATOM	11862	CA	TYR	68	145.056	108.067	31.383	1.00	53.25	DS4	ATOM	11915	CD	GLN	74	142.404	98.802	27.484	1.00	55.99	Df
ATOM	11863	CB	TYR	68	143.966	108.021	30.313	1.00	52.16	DS4	ATOM	11916	OE1	GLN	74	141.247	98.381	27.459	1.00	55.99	Df
ATOM	11864	CG	TYR	68	143.349	109.366	30.014	1.00	52.16	DS4	ATOM	11917	NE2	GLN	74	142.950	99.323	28.575	1.00	55.99	Df
ATOM	11865	CD1	TYR	68	143.995	110.283	29.192	1.00	52.16	DS4	ATOM	11918	C	GLN	74	143.672	101.432	23.450	1.00	51.48	Df
ATOM	11866	CE1	TYR	68	143.446	111.534	28.945	1.00	52.16	DS4	ATOM	11919	O	GLN	74	142.835	101.765	22.607	1.00	51.48	Df
ATOM	11867	CE2	TYR	68	142.133	109.736	30.582	1.00	52.16	DS4	ATOM	11920	N	PHE	75	144.629	102.248	23.882	1.00	46.91	Df
ATOM	11868	CE2	TYR	68	141.581	110.982	30.343	1.00	52.16	DS4	ATOM	11921	CA	PHE	75	144.736	103.619	23.375	1.00	46.91	Df
ATOM	11869	CZ	TYR	68	142.245	111.875	29.527	1.00	52.16	DS4	ATOM	11922	CB	PHE	75	146.111	104.208	23.681	1.00	52.63	Df
ATOM	11870	OH	TYR	68	141.722	113.123	29.324	1.00	52.16	DS4	ATOM	11923	CG	PHE	75	146.187	105.687	23.468	1.00	52.63	Df
ATOM	11871	C	TYR	68	145.601	106.658	31.633	1.00	53.25	DS4	ATOM	11924	CD1	PHE	75	145.747	106.563	24.451	1.00	52.63	Df
ATOM	11872	O	TYR	68	144.845	105.678	31.663	1.00	53.25	DS4	ATOM	11925	CD2	PHE	75	145.815	107.941	24.262	1.00	52.63	Df
ATOM	11873	N	GLY	69	146.917	106.563	31.801	1.00	47.57	DS4	ATOM	11926	CE1	PHE	75	146.766	107.576	22.082	1.00	52.63	Df
ATOM	11874	CA	GLY	69	147.556	105.282	32.053	1.00	47.57	DS4	ATOM	11927	CE2	PHE	75	146.325	108.449	23.078	1.00	52.63	Df
ATOM	11875	C	GLY	69	147.030	104.084	31.283	1.00	47.57	DS4	ATOM	11928	CZ	PHE	75	144.506	103.679	21.870	1.00	46.91	Df
ATOM	11876	O	GLY	69	146.946	102.989	31.829	1.00	47.57	DS4	ATOM	11929	C	PHE	75	143.743	104.505	21.371	1.00	46.91	Df
ATOM	11877	N	ILE	70	146.679	104.281	30.018	1.00	51.02	DS4	ATOM	11930	O	PHE	76	145.170	102.793	21.145	1.00	47.93	Df
ATOM	11878	CA	ILE	70	146.180	103.192	29.188	1.00	51.02	DS4	ATOM	11931	N	ARG	76	145.023	102.763	19.703	1.00	47.93	Df
ATOM	11879	CB	ILE	70	145.104	103.684	28.183	1.00	65.58	DS4	ATOM	11932	CA	ARG	76	146.008	101.759	19.099	1.00	86.17	Df
ATOM	11880	CG2	ILE	70	144.761	102.585	27.190	1.00	65.58	DS4	ATOM	11933	CB	ARG	76	145.985	101.710	17.590	1.00	86.17	Df
ATOM	11881	CG1	ILE	70	143.826	104.064	28.915	1.00	65.58	DS4	ATOM	11934	CG	ARG	76	146.242	103.086	17.035	1.00	86.17	Df
ATOM	11882	CD1	ILE	70	142.689	104.341	27.966	1.00	65.58	DS4	ATOM	11935	CD	ARG	76	146.169	103.129	15.579	1.00	86.17	Df
ATOM	11883	C	ILE	70	147.311	102.541	28.389	1.00	51.02	DS4	ATOM	11936	NE	ARG	76	147.981	102.462	14.768	1.00	86.17	Df
ATOM	11884	O	ILE	70	148.323	103.176	28.082	1.00	51.02	DS4	ATOM	11937	CZ	ARG	76	147.935	101.685	15.271	1.00	86.17	Df
ATOM	11885	N	SER	71	147.133	101.269	28.055	1.00	50.76	DS4	ATOM	11938	NH1	ARG	76	146.847	102.593	13.456	1.00	86.17	Df
ATOM	11886	CA	SER	71	148.121	100.549	27.263	1.00	50.76	DS4	ATOM	11939	NH2	ARG	76	143.588	102.412	19.293	1.00	47.93	Df
ATOM	11887	CB	SER	71	147.739	99.079	27.154	1.00	50.74	DS4	ATOM	11940	C	ARG	76	142.971	103.120	18.496	1.00	47.93	Df
ATOM	11888	OG	SER	71	146.549	98.952	26.388	1.00	50.74	DS4	ATOM	11941	O	ARG	77	143.056	101.325	19.845	1.00	43.58	Df
ATOM	11889	C	SER	71	148.079	101.140	25.861	1.00	50.76	DS4	ATOM	11942	N	ASN	77	141.712	100.899	19.493	1.00	43.58	Df
ATOM	11890	O	SER	71	147.277	102.033	25.581	1.00	50.76	DS4	ATOM	11943	CA	ASN	77						Df

ATOM	11944	CB	ASN	77	141.273	99.721	20.352	1.00	60.03	DS4	ATOM	11997	O	SER	83	137.275	108.154	12.059	1.00	55.03	Dx
ATOM	11945	CG	ASN	77	142.060	98.476	20.061	1.00	60.03	DS4	ATOM	11998	N	LYS	84	136.621	106.610	13.545	1.00	36.76	Dx
ATOM	11946	OD1	ASN	77	142.448	98.230	18.917	1.00	60.03	DS4	ATOM	11999	CA	LYS	84	135.590	106.086	12.669	1.00	36.76	Dx
ATOM	11947	ND2	ASN	77	142.291	97.668	21.088	1.00	60.03	DS4	ATOM	12000	CB	LYS	84	135.447	104.586	12.915	1.00	83.01	Dx
ATOM	11948	C	ASN	77	140.740	102.036	19.678	1.00	43.58	DS4	ATOM	12001	CG	LYS	84	134.638	103.855	11.878	1.00	83.01	Dx
ATOM	11949	O	ASN	77	139.927	102.337	18.791	1.00	43.58	DS4	ATOM	12002	CD	LYS	84	134.493	102.392	12.257	1.00	83.01	Dx
ATOM	11950	N	LEU	78	139.814	102.655	20.849	1.00	51.76	DS4	ATOM	12003	CE	LYS	84	133.418	101.702	11.416	1.00	83.01	Dx
ATOM	11951	CA	LEU	78	139.949	103.766	21.146	1.00	51.76	DS4	ATOM	12004	NZ	LYS	84	133.065	100.345	11.942	1.00	83.01	Dx
ATOM	11952	CB	LEU	78	140.324	104.379	22.478	1.00	27.71	DS4	ATOM	12005	C	LYS	84	134.229	106.755	12.729	1.00	36.76	Dx
ATOM	11953	CG	LEU	78	139.308	104.236	23.603	1.00	27.71	DS4	ATOM	12006	O	LYS	85	133.537	106.810	11.718	1.00	36.76	Dx
ATOM	11954	CD1	LEU	78	139.605	105.323	23.070	1.00	27.71	DS4	ATOM	12007	N	LYS	85	133.832	107.273	13.885	1.00	54.28	Dx
ATOM	11955	CD2	LEU	78	137.888	104.385	23.070	1.00	27.71	DS4	ATOM	12008	CA	LYS	85	132.519	107.905	13.990	1.00	54.28	Dx
ATOM	11956	C	LEU	78	140.127	104.790	20.047	1.00	51.76	DS4	ATOM	12009	CB	LYS	85	132.034	107.858	15.433	1.00	64.92	Dx
ATOM	11957	O	LEU	78	139.149	105.308	19.512	1.00	51.76	DS4	ATOM	12010	CG	LYS	85	133.085	108.232	16.451	1.00	64.92	Dx
ATOM	11958	N	PHE	79	141.378	105.071	19.695	1.00	41.85	DS4	ATOM	12011	CD	LYS	85	132.493	108.199	17.853	1.00	64.92	Dx
ATOM	11959	CA	PHE	79	141.626	106.046	18.646	1.00	41.85	DS4	ATOM	12012	CE	LYS	85	131.903	106.842	18.183	1.00	64.92	Dx
ATOM	11960	CB	PHE	79	143.112	106.202	18.343	1.00	42.40	DS4	ATOM	12013	NZ	LYS	85	131.038	106.940	19.378	1.00	64.92	Dx
ATOM	11961	CG	PHE	79	143.369	107.153	17.223	1.00	42.40	DS4	ATOM	12014	C	LYS	85	132.434	109.341	13.470	1.00	54.28	Dx
ATOM	11962	CD1	PHE	79	143.190	108.516	17.407	1.00	42.40	DS4	ATOM	12015	O	LYS	85	133.453	109.962	13.151	1.00	54.28	Dx
ATOM	11963	CD2	PHE	79	143.668	106.680	15.950	1.00	42.40	DS4	ATOM	12016	N	LYS	86	131.206	109.856	13.383	1.00	56.75	Dx
ATOM	11964	CE1	PHE	79	143.297	109.397	16.336	1.00	42.40	DS4	ATOM	12017	CA	LYS	86	130.950	111.216	12.910	1.00	56.75	Dx
ATOM	11965	CE2	PHE	79	143.777	107.547	14.870	1.00	42.40	DS4	ATOM	12018	CB	LYS	86	129.439	111.501	12.877	1.00	66.06	Dx
ATOM	11966	CZ	PHE	79	143.590	108.908	15.059	1.00	42.40	DS4	ATOM	12019	CG	LYS	86	128.536	110.498	12.083	1.00	66.06	Dx
ATOM	11967	C	PHE	79	140.206	105.562	16.790	1.00	41.85	DS4	ATOM	12020	CD	LYS	86	128.697	110.716	10.578	1.00	66.06	Dx
ATOM	11968	O	PHE	79	140.206	106.562	16.790	1.00	41.85	DS4	ATOM	12021	CE	LYS	86	128.238	109.482	9.793	1.00	66.06	Dx
ATOM	11969	N	GLU	80	141.074	104.511	16.833	1.00	40.78	DS4	ATOM	12022	NZ	LYS	86	128.201	109.706	8.308	1.00	66.06	Dx
ATOM	11970	CA	GLU	80	140.405	104.141	15.598	1.00	40.78	DS4	ATOM	12023	C	LYS	86	131.608	112.173	13.885	1.00	56.75	Dx
ATOM	11971	CB	GLU	80	140.821	102.732	15.184	1.00	90.02	DS4	ATOM	12024	O	LYS	86	131.858	111.816	15.032	1.00	56.75	Dx
ATOM	11972	CG	GLU	80	142.338	102.563	15.085	1.00	90.02	DS4	ATOM	12025	N	GLY	87	131.901	113.387	13.439	1.00	76.33	Dx
ATOM	11973	CD	GLU	80	142.960	103.338	13.922	1.00	90.02	DS4	ATOM	12026	CA	GLY	87	132.495	114.351	14.450	1.00	76.33	Dx
ATOM	11974	OE1	GLU	80	144.208	103.439	13.870	1.00	90.02	DS4	ATOM	12027	C	GLY	87	134.001	114.356	14.450	1.00	76.33	Dx
ATOM	11975	OE2	GLU	80	142.206	103.837	13.054	1.00	90.02	DS4	ATOM	12028	O	GLY	87	134.655	113.317	14.337	1.00	76.33	Dx
ATOM	11976	C	GLU	80	138.896	104.233	15.808	1.00	40.78	DS4	ATOM	12029	N	VAL	88	134.537	115.550	14.684	1.00	43.61	Dx
ATOM	11977	O	GLU	80	138.164	104.592	14.893	1.00	40.78	DS4	ATOM	12030	CA	VAL	88	135.970	115.759	14.806	1.00	43.61	Dx
ATOM	11978	N	GLU	81	138.444	103.923	17.025	1.00	51.59	DS4	ATOM	12031	CB	VAL	88	136.280	117.152	15.368	1.00	42.44	Dx
ATOM	11979	CA	GLU	81	137.018	103.983	17.381	1.00	51.59	DS4	ATOM	12032	CG1	VAL	88	137.789	117.311	15.568	1.00	42.44	Dx
ATOM	11980	CB	GLU	81	136.833	103.718	18.885	1.00	77.41	DS4	ATOM	12033	CG2	VAL	88	135.768	118.206	14.412	1.00	42.44	Dx
ATOM	11981	CG	GLU	81	135.773	102.680	19.267	1.00	77.41	DS4	ATOM	12034	C	VAL	88	136.662	114.714	15.668	1.00	43.61	Dx
ATOM	11982	CD	GLU	81	134.417	103.278	19.607	1.00	77.41	DS4	ATOM	12035	O	VAL	88	136.438	114.607	16.869	1.00	43.61	Dx
ATOM	11983	OE1	GLU	81	133.800	103.927	18.729	1.00	77.41	DS4	ATOM	12036	N	THR	89	137.530	113.952	15.026	1.00	47.47	Dx
ATOM	11984	OE2	GLU	81	133.962	103.091	20.756	1.00	77.41	DS4	ATOM	12037	CA	THR	89	138.249	112.903	15.705	1.00	47.47	Dx
ATOM	11985	C	GLU	81	136.571	105.401	17.076	1.00	51.59	DS4	ATOM	12038	CB	THR	89	139.275	112.289	14.762	1.00	50.88	Dx
ATOM	11986	O	GLU	81	135.647	105.638	16.303	1.00	51.59	DS4	ATOM	12039	OG1	THR	89	138.573	111.592	13.731	1.00	50.88	Dx
ATOM	11987	N	ALA	82	137.258	106.343	17.703	1.00	51.36	DS4	ATOM	12040	CG2	THR	89	140.179	111.324	15.499	1.00	50.88	Dx
ATOM	11988	CA	ALA	82	136.961	107.743	17.528	1.00	51.36	DS4	ATOM	12041	C	THR	89	138.921	113.359	16.983	1.00	47.47	Dx
ATOM	11989	CB	ALA	82	137.915	108.576	18.358	1.00	45.11	DS4	ATOM	12042	O	THR	89	138.719	112.766	16.031	1.00	47.47	Dx
ATOM	11990	C	ALA	82	137.099	108.096	16.071	1.00	51.36	DS4	ATOM	12043	N	GLY	90	139.713	114.414	16.906	1.00	51.19	Dx
ATOM	11991	O	ALA	82	136.208	108.689	15.486	1.00	51.36	DS4	ATOM	12044	CA	GLY	90	140.389	114.865	18.098	1.00	51.19	Dx
ATOM	11992	N	SER	83	138.220	107.705	15.483	1.00	55.03	DS4	ATOM	12045	C	GLY	90	139.513	114.970	19.332	1.00	51.19	Dx
ATOM	11993	CA	SER	83	138.510	108.013	14.088	1.00	55.03	DS4	ATOM	12046	O	GLY	90	139.861	114.424	20.374	1.00	51.19	Dx
ATOM	11994	CB	SER	83	139.811	107.334	13.650	1.00	74.80	DS4	ATOM	12047	N	SER	91	138.380	115.655	19.227	1.00	54.99	Dx
ATOM	11995	OG	SER	83	140.889	107.635	14.523	1.00	74.80	DS4	ATOM	12048	CA	SER	91	137.496	115.794	20.368	1.00	54.99	Dx
ATOM	11996	C	SER	83	137.415	107.590	13.137	1.00	55.03	DS4	ATOM	12049	CB	SER	91	136.352	116.746	20.044	1.00	128.05	Dx

ATOM	12050	OG	SER	91	135.447	116.137	19.145	1.00128.05	DS4	ATOM	12103	CD	GLU	98	138.385	113.195	30.619	1.0048.23	DS
ATOM	12051	C	SER	91	136.933	114.439	20.758	1.0054.99	DS4	ATOM	12104	OE1	GLU	98	139.246	113.574	29.804	1.0048.23	DS
ATOM	12052	O	SER	91	137.045	114.029	21.903	1.0054.99	DS4	ATOM	12105	OE2	GLU	98	138.669	112.926	31.803	1.0048.23	DS
ATOM	12053	N	VAL	92	136.332	113.747	19.798	1.0046.90	DS4	ATOM	12106	C	GLU	98	135.941	109.894	29.815	1.0055.60	DS
ATOM	12054	CA	VAL	92	135.748	112.433	20.039	1.0046.90	DS4	ATOM	12107	O	GLU	98	135.438	110.123	30.913	1.0055.60	DS
ATOM	12055	CB	VAL	92	135.407	111.713	18.729	1.0028.34	DS4	ATOM	12108	N	SER	99	135.468	108.975	28.980	1.0042.76	DS
ATOM	12056	CG1	VAL	92	134.957	110.310	19.013	1.0028.34	DS4	ATOM	12109	CA	SER	99	134.311	108.165	29.301	1.0042.76	DS
ATOM	12057	CG2	VAL	92	134.312	112.450	18.016	1.0028.34	DS4	ATOM	12110	CB	SER	99	133.504	107.867	28.050	1.0049.03	DS
ATOM	12058	C	VAL	92	136.672	111.527	20.823	1.0046.90	DS4	ATOM	12111	OG	SER	99	132.761	108.989	27.645	1.0049.03	DS
ATOM	12059	O	VAL	92	136.244	110.850	21.766	1.0046.90	DS4	ATOM	12112	C	SER	99	134.646	106.845	29.971	1.0042.76	DS
ATOM	12060	N	PHE	93	137.934	111.503	20.417	1.0047.48	DS4	ATOM	12113	O	SER	99	133.762	105.999	30.159	1.0042.76	DS
ATOM	12061	CA	PHE	93	138.923	110.681	21.079	1.0047.48	DS4	ATOM	12114	N	ARG	100	135.911	106.639	30.316	1.0048.77	DS
ATOM	12062	CB	PHE	93	140.280	110.871	20.424	1.0043.04	DS4	ATOM	12115	CA	ARG	100	136.287	105.400	30.987	1.0048.77	DS
ATOM	12063	CG	PHE	93	141.320	109.924	20.921	1.0043.04	DS4	ATOM	12116	CB	ARG	100	137.800	105.178	30.910	1.0060.20	DS
ATOM	12064	CD1	PHE	93	142.630	110.348	21.100	1.0043.04	DS4	ATOM	12117	CG	ARG	100	138.305	104.738	29.550	1.0060.20	DS
ATOM	12065	CD2	PHE	93	140.991	108.598	21.203	1.0043.04	DS4	ATOM	12118	CD	ARG	100	139.814	104.803	29.505	1.0060.20	DS
ATOM	12066	CE1	PHE	93	143.604	109.469	21.558	1.0043.04	DS4	ATOM	12119	NE	ARG	100	140.458	103.911	30.470	1.0060.20	DS
ATOM	12067	CE2	PHE	93	141.949	107.710	21.659	1.0043.04	DS4	ATOM	12120	CZ	ARG	100	140.763	102.639	30.225	1.0060.20	DS
ATOM	12068	CZ	PHE	93	143.267	108.146	21.839	1.0043.04	DS4	ATOM	12121	NH1	ARG	100	140.483	102.101	29.042	1.0060.20	DS
ATOM	12069	C	PHE	93	138.998	111.084	22.546	1.0047.48	DS4	ATOM	12122	NH2	ARG	100	141.352	101.905	31.159	1.0060.20	DS
ATOM	12070	O	PHE	93	138.969	110.237	22.429	1.0047.48	DS4	ATOM	12123	C	ARG	100	135.866	105.505	32.444	1.0048.77	DS
ATOM	12071	N	LEU	94	139.104	112.385	22.795	1.0050.12	DS4	ATOM	12124	O	ARG	100	136.135	106.523	33.088	1.0048.77	DS
ATOM	12072	CA	LEU	94	139.152	112.897	24.155	1.0050.12	DS4	ATOM	12125	N	LEU	101	135.193	104.474	32.956	1.0054.79	DS
ATOM	12073	CB	LEU	94	139.175	114.422	24.142	1.0066.89	DS4	ATOM	12126	CA	LEU	101	134.764	104.459	34.362	1.0054.79	DS
ATOM	12074	CG	LEU	94	140.526	115.131	24.127	1.0066.89	DS4	ATOM	12127	CB	LEU	101	134.308	103.059	34.765	1.0049.47	DS
ATOM	12075	CD1	LEU	94	140.705	115.821	25.456	1.0066.89	DS4	ATOM	12128	CG	LEU	101	134.026	102.878	36.250	1.0049.47	DS
ATOM	12076	CD2	LEU	94	141.658	114.158	23.878	1.0066.89	DS4	ATOM	12129	CD1	LEU	101	132.911	103.822	36.669	1.0049.47	DS
ATOM	12077	C	LEU	94	137.905	112.405	24.882	1.0050.12	DS4	ATOM	12130	CD2	LEU	101	133.638	101.437	36.507	1.0049.47	DS
ATOM	12078	O	LEU	94	137.981	111.825	25.964	1.0050.12	DS4	ATOM	12131	C	LEU	101	135.985	104.850	35.178	1.0054.79	DS
ATOM	12079	N	GLY	95	136.751	112.629	24.272	1.0055.02	DS4	ATOM	12132	O	LEU	101	135.914	105.629	36.119	1.0054.79	DS
ATOM	12080	CA	GLY	95	135.506	112.197	24.874	1.0055.02	DS4	ATOM	12133	N	ASP	102	137.102	104.267	34.778	1.0048.35	DS
ATOM	12081	O	GLY	95	135.114	110.741	25.302	1.0055.02	DS4	ATOM	12134	CA	ASP	102	138.421	104.520	35.338	1.0048.35	DS
ATOM	12082	C	GLY	95	135.953	109.851	26.424	1.0045.26	DS4	ATOM	12135	CB	ASP	102	139.440	104.219	34.225	1.0084.26	DS
ATOM	12083	N	LEU	96	135.980	108.427	24.737	1.0045.26	DS4	ATOM	12136	CG	ASP	102	140.761	103.708	34.740	1.0084.26	DS
ATOM	12084	CA	LEU	96	136.320	107.621	23.483	1.0039.73	DS4	ATOM	12137	OD1	ASP	102	141.581	103.288	33.895	1.0084.26	DS
ATOM	12085	CB	LEU	96	135.103	107.134	22.682	1.0039.73	DS4	ATOM	12138	OD2	ASP	102	140.983	103.724	35.969	1.0084.26	DS
ATOM	12086	CG1	LEU	96	133.972	108.155	22.694	1.0039.73	DS4	ATOM	12139	C	ASP	102	138.494	106.013	35.707	1.0048.35	DS
ATOM	12087	CD1	LEU	96	135.551	106.849	21.273	1.0039.73	DS4	ATOM	12140	O	ASP	102	138.471	106.403	36.878	1.0048.35	DS
ATOM	12088	CD2	LEU	96	136.926	108.069	25.878	1.0045.26	DS4	ATOM	12141	N	ASN	103	138.574	106.821	34.654	1.0056.39	DS
ATOM	12089	C	LEU	96	136.586	107.255	26.740	1.0045.26	DS4	ATOM	12142	CA	ASN	103	138.671	108.269	34.706	1.0056.39	DS
ATOM	12090	N	LEU	97	138.111	108.664	25.889	1.0049.34	DS4	ATOM	12143	CB	ASN	103	138.624	108.795	33.280	1.0049.39	DS
ATOM	12091	O	LEU	97	139.055	108.395	26.961	1.0049.34	DS4	ATOM	12144	CG	ASN	103	138.885	110.755	33.187	1.0049.39	DS
ATOM	12092	CA	LEU	97	140.379	109.132	26.730	1.0043.33	DS4	ATOM	12145	OD1	ASN	103	140.010	110.755	32.824	1.0049.39	DS
ATOM	12093	CB	LEU	97	141.356	108.631	25.672	1.0043.33	DS4	ATOM	12146	ND2	ASN	103	137.841	111.029	32.824	1.0049.39	DS
ATOM	12094	CG1	LEU	97	142.302	109.757	25.282	1.0043.33	DS4	ATOM	12147	C	ASN	103	137.597	108.963	35.530	1.0056.39	DS
ATOM	12095	CD2	LEU	97	142.121	107.450	26.211	1.0043.33	DS4	ATOM	12148	O	ASN	103	137.914	107.754	36.418	1.0056.39	DS
ATOM	12096	C	LEU	97	138.430	108.896	28.254	1.0049.34	DS4	ATOM	12149	N	VAL	104	136.329	108.686	35.226	1.0041.76	DS
ATOM	12097	O	LEU	97	138.505	108.238	29.291	1.0049.34	DS4	ATOM	12150	CA	VAL	104	135.224	109.313	35.945	1.0041.76	DS
ATOM	12098	N	GLU	98	137.802	110.064	28.180	1.0055.60	DS4	ATOM	12151	CB	VAL	104	133.871	108.755	35.508	1.0033.15	DS
ATOM	12099	CA	GLU	98	137.173	110.674	29.343	1.0055.60	DS4	ATOM	12152	CG1	VAL	104	132.767	108.513	36.226	1.0033.15	DS
ATOM	12100	CB	GLU	98	136.789	112.112	29.009	1.0048.23	DS4	ATOM	12153	C	VAL	104	133.700	108.894	34.008	1.0033.15	DS
ATOM	12101	CG	GLU	98	136.942	113.062	30.160	1.0048.23	DS4	ATOM	12154	O	VAL	104	135.334	109.146	37.455	1.0041.76	DS
ATOM	12102	CG	GLU	98	136.942	113.062	30.160	1.0048.23	DS4	ATOM	12155	O	VAL	104	135.022	110.061	38.216	1.0041.76	DS

ATOM	12156	N	VAL	105	135.756	107.975	37.900	1.00	41.25	DS4	ATOM	12209	N	ALA	111	138.645	108.936	43.952	1.00	45.94	D
ATOM	12157	CA	VAL	105	135.914	107.766	39.323	1.00	41.25	DS4	ATOM	12210	CA	ALA	111	140.049	108.536	43.941	1.00	45.94	D
ATOM	12158	CB	VAL	105	136.345	106.325	39.628	1.00	47.15	DS4	ATOM	12211	CB	ALA	111	140.317	107.665	42.760	1.00	41.55	D
ATOM	12159	CG1	VAL	105	136.989	106.234	41.006	1.00	47.15	DS4	ATOM	12212	C	ALA	111	140.960	109.747	43.896	1.00	45.94	D
ATOM	12160	CG2	VAL	105	135.132	105.426	39.563	1.00	47.15	DS4	ATOM	12213	O	ALA	111	140.605	110.784	43.342	1.00	45.94	D
ATOM	12161	C	VAL	105	136.977	108.740	39.815	1.00	41.25	DS4	ATOM	12214	N	VAL	112	142.135	109.626	44.491	1.00	50.71	D
ATOM	12162	O	VAL	105	136.886	109.281	40.918	1.00	41.25	DS4	ATOM	12215	CA	VAL	112	143.082	110.728	44.475	1.00	50.71	D
ATOM	12163	N	TYR	106	137.992	108.966	38.996	1.00	54.52	DS4	ATOM	12216	CB	VAL	112	144.167	110.508	45.531	1.00	51.50	D
ATOM	12164	CA	TYR	106	139.047	109.887	39.372	1.00	54.52	DS4	ATOM	12217	CG1	VAL	112	145.363	111.398	45.267	1.00	51.50	D
ATOM	12165	CB	TYR	106	140.229	109.739	38.422	1.00	52.80	DS4	ATOM	12218	CG2	VAL	112	143.594	110.807	46.887	1.00	51.50	D
ATOM	12166	CG	TYR	106	141.153	110.932	38.394	1.00	52.80	DS4	ATOM	12219	C	VAL	112	143.713	110.842	43.076	1.00	50.71	D
ATOM	12167	CD1	TYR	106	142.106	111.127	39.395	1.00	52.80	DS4	ATOM	12220	O	VAL	112	144.018	111.941	42.601	1.00	50.71	D
ATOM	12168	CE1	TYR	106	142.934	112.240	39.389	1.00	52.80	DS4	ATOM	12221	N	THR	113	143.905	109.704	42.414	1.00	61.92	D
ATOM	12169	CD2	TYR	106	141.050	111.888	37.379	1.00	52.80	DS4	ATOM	12222	CA	THR	113	144.486	109.710	41.079	1.00	61.92	D
ATOM	12170	CE2	TYR	106	141.866	113.003	37.366	1.00	52.80	DS4	ATOM	12223	CB	THR	113	146.001	109.532	41.119	1.00	68.81	D
ATOM	12171	C2	TYR	106	142.805	113.176	38.371	1.00	52.80	DS4	ATOM	12224	OG1	THR	113	146.315	108.144	41.267	1.00	68.81	D
ATOM	12172	OH	TYR	106	143.611	114.292	38.360	1.00	52.80	DS4	ATOM	12225	CG2	THR	113	146.585	110.315	42.277	1.00	68.81	D
ATOM	12173	C	TYR	106	138.498	111.301	39.300	1.00	54.52	DS4	ATOM	12226	C	THR	113	143.907	108.620	40.199	1.00	61.92	D
ATOM	12174	O	TYR	106	138.771	112.131	40.165	1.00	54.52	DS4	ATOM	12227	O	THR	113	143.246	107.703	40.682	1.00	61.92	D
ATOM	12175	N	ARG	107	137.722	111.569	38.257	1.00	65.61	DS4	ATOM	12228	N	ARG	114	144.168	108.729	38.901	1.00	50.48	D
ATOM	12176	CA	ARG	107	137.123	112.880	38.064	1.00	65.61	DS4	ATOM	12229	CA	ARG	114	144.183	108.122	36.544	1.00	47.53	D
ATOM	12177	CB	ARG	107	136.285	112.894	36.788	1.00	65.16	DS4	ATOM	12230	CB	ARG	114	143.632	109.432	36.020	1.00	47.53	D
ATOM	12178	CG	ARG	107	137.084	112.890	35.509	1.00	65.16	DS4	ATOM	12231	CG	ARG	114	143.068	109.253	34.620	1.00	47.53	D
ATOM	12179	CD	ARG	107	137.850	114.187	35.334	1.00	65.16	DS4	ATOM	12232	CD	ARG	114	142.440	110.464	34.100	1.00	47.53	D
ATOM	12180	NE	ARG	107	138.478	114.282	34.021	1.00	65.16	DS4	ATOM	12233	NE	ARG	114	143.046	111.644	34.031	1.00	47.53	D
ATOM	12181	C2	ARG	107	139.325	115.242	33.669	1.00	65.16	DS4	ATOM	12234	C2	ARG	114	144.300	111.776	33.452	1.00	47.53	D
ATOM	12182	NH1	ARG	107	139.645	116.192	34.538	1.00	65.16	DS4	ATOM	12235	NH1	ARG	114	142.394	112.692	33.540	1.00	47.53	D
ATOM	12183	NH2	ARG	107	139.856	115.249	32.453	1.00	65.16	DS4	ATOM	12236	NH2	ARG	114	143.992	106.322	38.288	1.00	50.48	D
ATOM	12184	C	ARG	107	136.239	113.289	39.236	1.00	65.61	DS4	ATOM	12237	C	ARG	114	143.184	105.041	38.056	1.00	50.48	D
ATOM	12185	O	ARG	107	135.396	112.373	39.707	1.00	53.21	DS4	ATOM	12238	O	ARG	114	145.518	104.732	39.226	1.00	56.61	D
ATOM	12186	N	LEU	108	133.365	111.656	40.866	1.00	46.20	DS4	ATOM	12239	N	ARG	115	146.991	104.643	39.605	1.00	101.13	D
ATOM	12187	CA	LEU	108	132.457	111.787	39.648	1.00	46.20	DS4	ATOM	12240	CA	ARG	115	147.469	103.216	37.797	1.00	101.13	D
ATOM	12188	CB	LEU	108	131.296	110.828	39.786	1.00	46.20	DS4	ATOM	12241	CB	ARG	115	148.325	100.121	37.780	1.00	101.13	D
ATOM	12189	CG	LEU	108	135.148	112.798	43.163	1.00	53.21	DS4	ATOM	12242	CG	ARG	115	147.637	99.064	36.627	1.00	101.13	D
ATOM	12190	CD1	LEU	108	134.500	113.217	39.524	1.00	46.20	DS4	ATOM	12243	CD	ARG	115	149.086	104.209	40.367	1.00	56.61	D
ATOM	12191	CD2	LEU	108	136.431	112.491	42.270	1.00	58.87	DS4	ATOM	12244	NE	ARG	115	144.215	103.048	40.317	1.00	56.61	D
ATOM	12192	C	LEU	108	137.099	112.613	43.541	1.00	58.87	DS4	ATOM	12245	C2	ARG	115	144.638	104.209	40.367	1.00	56.61	D
ATOM	12193	O	LEU	108	137.113	111.372	44.401	1.00	58.87	DS4	ATOM	12246	NH1	ARG	115	144.638	104.209	40.367	1.00	56.61	D
ATOM	12194	N	GLY	109	137.099	112.613	43.541	1.00	58.87	DS4	ATOM	12247	NH2	ARG	115	144.638	104.209	40.367	1.00	56.61	D
ATOM	12195	CA	GLY	109	137.113	111.372	44.401	1.00	58.87	DS4	ATOM	12248	C	ARG	115	144.638	104.209	40.367	1.00	56.61	D
ATOM	12196	O	GLY	109	137.789	111.359	44.433	1.00	58.87	DS4	ATOM	12249	O	ARG	115	144.638	104.209	40.367	1.00	56.61	D
ATOM	12197	C	GLY	109	136.394	110.324	44.020	1.00	55.02	DS4	ATOM	12250	N	GLN	116	143.504	104.641	42.511	1.00	54.23	D
ATOM	12198	N	PHE	110	136.411	109.126	44.851	1.00	55.02	DS4	ATOM	12251	CA	GLN	116	143.298	105.745	43.552	1.00	178.18	D
ATOM	12199	CA	PHE	110	135.529	108.036	44.254	1.00	54.55	DS4	ATOM	12252	CB	GLN	116	144.501	106.120	44.346	1.00	178.18	D
ATOM	12200	CB	PHE	110	134.146	108.495	44.549	1.00	54.55	DS4	ATOM	12253	CG	GLN	116	146.145	106.804	42.621	1.00	178.18	D
ATOM	12201	CG	PHE	110	133.619	109.621	44.549	1.00	54.55	DS4	ATOM	12254	CD	GLN	116	145.696	108.102	43.704	1.00	178.18	D
ATOM	12202	CD1	PHE	110	133.373	110.810	43.013	1.00	54.55	DS4	ATOM	12255	OE1	GLN	116	142.154	104.349	41.942	1.00	54.23	D
ATOM	12203	CD2	PHE	110	132.088	108.243	42.694	1.00	54.55	DS4	ATOM	12256	NE2	GLN	116	141.511	103.369	42.300	1.00	54.23	D
ATOM	12204	CE1	PHE	110	131.567	109.376	43.307	1.00	54.55	DS4	ATOM	12257	C	GLN	116	140.419	105.032	40.454	1.00	47.49	D
ATOM	12205	CE2	PHE	110	138.219	108.012	45.970	1.00	55.02	DS4	ATOM	12258	O	GLN	116	140.208	106.032	39.335	1.00	58.31	D
ATOM	12206	CZ	PHE	110						DS4	ATOM	12259	N	ALA	117						D
ATOM	12207	C	PHE	110						DS4	ATOM	12260	CA	ALA	117						D
ATOM	12208	O	PHE	110						DS4	ATOM	12261	CB	ALA	117						D

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ATOM	12262	C	ALA	117	140.459	103.618	39.907	1.00	47.49	DS4	ATOM	12315	ND1	HIS	123	140.848	95.075	44.352	1.00	56.89	DS4
ATOM	12263	O	ALA	117	139.572	102.802	40.190	1.00	47.49	DS4	ATOM	12316	CE1	HIS	123	142.168	95.105	44.415	1.00	56.89	DS4
ATOM	12264	N	ARG	118	141.514	103.318	39.155	1.00	51.01	DS4	ATOM	12317	NE2	HIS	123	142.535	96.270	44.916	1.00	56.89	DS4
ATOM	12265	CA	ARG	118	141.630	101.996	38.580	1.00	51.01	DS4	ATOM	12318	C	HIS	123	136.577	96.359	44.008	1.00	52.03	DS4
ATOM	12266	CB	ARG	118	142.976	101.801	37.867	1.00	54.03	DS4	ATOM	12319	O	HIS	123	136.219	96.713	45.208	1.00	52.03	DS4
ATOM	12267	CG	ARG	118	142.923	100.697	36.793	1.00	54.03	DS4	ATOM	12320	N	GLY	124	135.737	96.254	43.066	1.00	58.55	DS4
ATOM	12268	CD	ARG	118	144.296	100.316	36.246	1.00	54.03	DS4	ATOM	12321	CA	GLY	124	134.312	96.516	43.217	1.00	58.55	DS4
ATOM	12269	CE	ARG	118	144.169	99.304	35.202	1.00	54.03	DS4	ATOM	12322	C	GLY	124	133.838	97.589	44.186	1.00	58.55	DS4
ATOM	12270	C2	ARG	118	143.906	99.578	33.928	1.00	54.03	DS4	ATOM	12323	O	GLY	124	132.723	97.519	44.701	1.00	58.55	DS4
ATOM	12271	NH1	ARG	118	143.785	98.597	33.046	1.00	54.03	DS4	ATOM	12324	N	HIS	125	134.672	98.589	44.437	1.00	51.22	DS4
ATOM	12272	NH2	ARG	118	143.797	100.838	33.528	1.00	54.03	DS4	ATOM	12325	CA	HIS	125	134.295	99.668	45.328	1.00	51.22	DS4
ATOM	12273	C	ARG	118	141.462	100.966	39.682	1.00	51.01	DS4	ATOM	12326	CB	HIS	125	135.539	100.391	45.838	1.00	51.86	DS4
ATOM	12274	O	ARG	118	140.512	100.192	39.664	1.00	51.01	DS4	ATOM	12327	CG	HIS	125	136.407	99.557	46.721	1.00	51.86	DS4
ATOM	12275	N	GLN	119	142.351	100.971	40.664	1.00	55.00	DS4	ATOM	12328	CD2	HIS	125	137.740	99.325	46.699	1.00	51.86	DS4
ATOM	12276	CA	GLN	119	142.233	99.988	41.730	1.00	55.00	DS4	ATOM	12329	ND1	HIS	125	135.919	98.878	47.814	1.00	51.86	DS4
ATOM	12277	CB	GLN	119	143.329	100.151	42.773	1.00	48.00	DS4	ATOM	12330	CE1	HIS	125	136.914	98.264	48.430	1.00	51.86	DS4
ATOM	12278	CG	GLN	119	143.412	98.942	43.683	1.00	48.00	DS4	ATOM	12331	NE2	HIS	125	138.030	98.520	47.774	1.00	51.86	DS4
ATOM	12279	CD	GLN	119	144.565	99.015	44.640	1.00	48.00	DS4	ATOM	12332	C	HIS	125	133.411	100.669	44.590	1.00	51.22	DS4
ATOM	12280	OE1	GLN	119	144.466	99.617	45.711	1.00	48.00	DS4	ATOM	12333	O	HIS	125	132.828	101.559	45.203	1.00	51.22	DS4
ATOM	12281	NE2	GLN	119	145.684	98.415	44.253	1.00	48.00	DS4	ATOM	12334	N	ILE	126	133.308	100.532	43.273	1.00	43.27	DS4
ATOM	12282	C	GLN	119	140.890	100.007	42.438	1.00	55.00	DS4	ATOM	12335	CA	ILE	126	132.502	101.464	42.495	1.00	43.27	DS4
ATOM	12283	O	GLN	119	140.389	98.957	42.844	1.00	55.00	DS4	ATOM	12336	CB	ILE	126	133.325	102.071	41.326	1.00	40.45	DS4
ATOM	12284	N	LEU	120	140.309	101.189	42.603	1.00	54.36	DS4	ATOM	12337	CG2	ILE	126	132.433	102.952	40.451	1.00	40.45	DS4
ATOM	12285	CA	LEU	120	139.021	101.272	43.265	1.00	54.36	DS4	ATOM	12338	CG1	ILE	126	134.528	102.852	41.882	1.00	40.45	DS4
ATOM	12286	CB	LEU	120	138.556	102.731	43.362	1.00	44.00	DS4	ATOM	12339	CD1	ILE	126	134.176	104.097	42.687	1.00	40.45	DS4
ATOM	12287	CG	LEU	120	139.298	103.512	44.468	1.00	44.00	DS4	ATOM	12340	C	ILE	126	131.228	100.854	41.930	1.00	43.27	DS4
ATOM	12288	CD1	LEU	120	138.780	104.953	44.602	1.00	44.00	DS4	ATOM	12341	O	ILE	126	131.158	99.656	41.662	1.00	43.27	DS4
ATOM	12289	CD2	LEU	120	139.118	102.760	45.786	1.00	44.00	DS4	ATOM	12342	N	THR	127	130.231	101.709	41.736	1.00	51.68	DS4
ATOM	12290	C	LEU	120	138.040	100.438	42.464	1.00	54.36	DS4	ATOM	12343	CA	THR	127	128.933	101.313	41.217	1.00	51.68	DS4
ATOM	12291	O	LEU	120	137.255	99.662	43.013	1.00	54.36	DS4	ATOM	12344	CB	THR	127	127.864	101.549	42.285	1.00	76.95	DS4
ATOM	12292	N	VAL	121	138.118	100.563	41.150	1.00	56.40	DS4	ATOM	12345	OG1	THR	127	127.834	100.423	43.158	1.00	76.95	DS4
ATOM	12293	CA	VAL	121	137.215	99.821	40.302	1.00	56.40	DS4	ATOM	12346	CG2	THR	127	126.489	101.778	41.662	1.00	76.95	DS4
ATOM	12294	CB	VAL	121	137.246	100.372	38.878	1.00	35.82	DS4	ATOM	12347	C	THR	127	128.531	102.080	39.957	1.00	51.68	DS4
ATOM	12295	CG1	VAL	121	136.290	99.593	37.999	1.00	35.82	DS4	ATOM	12348	O	THR	127	128.947	103.215	39.749	1.00	49.66	DS4
ATOM	12296	CG2	VAL	121	136.849	101.846	38.903	1.00	35.82	DS4	ATOM	12349	N	VAL	128	127.724	101.446	39.115	1.00	49.66	DS4
ATOM	12297	C	VAL	121	137.520	98.332	40.301	1.00	56.40	DS4	ATOM	12350	CA	VAL	128	127.235	102.091	36.660	1.00	42.33	DS4
ATOM	12298	O	VAL	121	136.601	97.518	40.362	1.00	55.00	DS4	ATOM	12351	CB	VAL	128	127.961	101.583	36.828	1.00	42.33	DS4
ATOM	12299	N	ARG	122	138.801	97.974	40.242	1.00	55.00	DS4	ATOM	12352	CG1	VAL	128	127.478	102.346	35.429	1.00	42.33	DS4
ATOM	12300	CA	ARG	122	139.200	96.570	40.232	1.00	55.00	DS4	ATOM	12353	CG2	VAL	128	129.458	101.760	36.828	1.00	49.66	DS4
ATOM	12301	CB	ARG	122	140.716	96.434	40.303	1.00	58.59	DS4	ATOM	12354	C	VAL	128	125.739	101.782	37.818	1.00	49.66	DS4
ATOM	12302	CG	ARG	122	141.491	97.266	39.322	1.00	58.59	DS4	ATOM	12355	O	VAL	128	125.330	100.681	37.420	1.00	49.66	DS4
ATOM	12303	CD	ARG	122	142.951	97.274	39.755	1.00	58.59	DS4	ATOM	12356	N	ASN	129	124.929	102.617	38.212	1.00	60.12	DS4
ATOM	12304	NE	ARG	122	143.792	98.152	38.950	1.00	58.59	DS4	ATOM	12357	CA	ASN	129	123.484	102.672	38.196	1.00	60.12	DS4
ATOM	12305	CZ	ARG	122	145.018	98.525	39.304	1.00	58.59	DS4	ATOM	12358	CB	ASN	129	122.994	102.395	36.774	1.00	59.14	DS4
ATOM	12306	NH1	ARG	122	145.536	98.096	40.450	1.00	58.59	DS4	ATOM	12359	CG	ASN	129	123.510	103.442	35.824	1.00	59.14	DS4
ATOM	12307	NH2	ARG	122	145.728	99.321	38.517	1.00	58.59	DS4	ATOM	12360	OD1	ASN	129	123.659	104.617	36.190	1.00	59.14	DS4
ATOM	12308	O	ARG	122	138.609	95.869	41.453	1.00	55.00	DS4	ATOM	12361	ND2	ASN	129	123.077	103.033	34.588	1.00	59.14	DS4
ATOM	12309	C	ARG	122	138.210	94.706	41.381	1.00	55.00	DS4	ATOM	12362	C	ASN	129	123.087	100.436	39.064	1.00	60.12	DS4
ATOM	12310	N	HIS	123	138.563	96.581	42.579	1.00	52.03	DS4	ATOM	12363	O	ASN	129	122.166	100.686	38.732	1.00	60.12	DS4
ATOM	12311	CA	HIS	123	138.042	96.024	43.818	1.00	52.03	DS4	ATOM	12364	N	GLY	130	123.790	101.278	40.181	1.00	64.45	DS4
ATOM	12312	CB	HIS	123	138.878	96.506	44.992	1.00	56.89	DS4	ATOM	12365	CA	GLY	130	123.504	99.178	41.078	1.00	64.45	DS4
ATOM	12313	CG	HIS	123	140.341	96.260	44.835	1.00	56.89	DS4	ATOM	12366	C	GLY	130	124.541	99.087	40.914	1.00	64.45	DS4
ATOM	12314	CD2	HIS	123	141.411	97.012	45.181	1.00	56.89	DS4	ATOM	12367	O	GLY	130	125.549	99.086	41.611	1.00	64.45	DS4

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ATOM	12368	N	ARG	131	124.298	98.165	39.988	1.00	69.95	DS4	ATOM	12421	CA	SER	137	137.883	100.299	30.790	1.00	48.74	DS
ATOM	12369	CB	ARG	131	125.218	97.061	39.731	1.00	69.95	DS4	ATOM	12422	CB	SER	137	138.562	99.289	29.865	1.00	51.27	DS
ATOM	12370	CG	ARG	131	124.982	96.500	38.327	1.00	69.95	DS4	ATOM	12423	OG	SER	137	138.010	97.990	30.040	1.00	51.27	DS
ATOM	12371	CG	ARG	131	123.608	95.890	38.124	1.00	69.95	DS4	ATOM	12424	C	SER	137	136.426	100.479	30.407	1.00	48.74	DS
ATOM	12372	CD	ARG	131	123.389	95.522	36.668	1.00	69.95	DS4	ATOM	12425	O	SER	137	136.116	100.896	29.292	1.00	48.74	DS
ATOM	12373	NE	ARG	131	122.082	94.907	36.436	1.00	69.95	DS4	ATOM	12426	N	TYR	138	135.533	100.176	31.337	1.00	52.69	DS
ATOM	12374	CH	ARG	131	121.619	94.563	35.235	1.00	69.95	DS4	ATOM	12427	CA	TYR	138	134.099	100.300	31.095	1.00	52.69	DS
ATOM	12375	NH1	ARG	131	122.356	94.776	35.149	1.00	69.95	DS4	ATOM	12428	CB	TYR	138	133.348	100.005	32.393	1.00	53.33	DS
ATOM	12376	NH2	ARG	131	120.422	94.000	35.117	1.00	69.95	DS4	ATOM	12429	CG	TYR	138	131.858	100.185	32.297	1.00	53.33	DS
ATOM	12377	C	ARG	131	126.659	97.532	39.859	1.00	69.95	DS4	ATOM	12430	CG1	TYR	138	131.018	99.095	32.124	1.00	53.33	DS
ATOM	12378	N	ARG	132	127.515	96.693	40.437	1.00	58.32	DS4	ATOM	12431	CE1	TYR	138	129.645	99.258	32.055	1.00	53.33	DS
ATOM	12379	CA	ARG	132	128.912	97.073	40.576	1.00	58.32	DS4	ATOM	12432	CE2	TYR	138	131.287	101.452	32.395	1.00	53.33	DS
ATOM	12380	CA	ARG	132	129.560	96.398	41.787	1.00	58.32	DS4	ATOM	12433	CE2	TYR	138	129.095	100.530	32.156	1.00	53.33	DS
ATOM	12381	CB	ARG	132	129.901	94.938	41.601	1.00	58.32	DS4	ATOM	12434	CZ	TYR	138	127.733	101.702	30.590	1.00	52.69	DS
ATOM	12382	CG	ARG	132	130.769	94.438	42.750	1.00	58.32	DS4	ATOM	12435	OH	TYR	138	133.729	101.702	30.590	1.00	52.69	DS
ATOM	12383	CD	ARG	132	129.952	92.991	42.705	1.00	58.32	DS4	ATOM	12436	C	TYR	138	134.218	102.712	31.113	1.00	52.69	DS
ATOM	12384	NE	ARG	132	129.966	92.107	42.842	1.00	58.32	DS4	ATOM	12437	N	ARG	139	132.856	101.783	29.594	1.00	40.34	DS
ATOM	12385	CZ	ARG	132	128.719	92.519	43.039	1.00	58.32	DS4	ATOM	12438	CA	ARG	139	132.488	103.099	29.083	1.00	40.34	DS
ATOM	12386	NH1	ARG	132	130.225	90.809	42.768	1.00	58.32	DS4	ATOM	12439	CB	ARG	139	132.334	103.070	27.565	1.00	44.17	DS
ATOM	12387	NH2	ARG	132	129.666	96.690	39.312	1.00	58.32	DS4	ATOM	12440	CB	ARG	139	131.874	104.381	26.955	1.00	44.17	DS
ATOM	12388	O	ARG	132	129.432	95.637	38.883	1.00	58.32	DS4	ATOM	12441	CG	ARG	139	131.860	104.297	25.440	1.00	44.17	DS
ATOM	12389	N	VAL	133	130.566	97.561	38.883	1.00	47.28	DS4	ATOM	12442	NE	ARG	139	133.196	104.100	24.880	1.00	44.17	DS
ATOM	12390	CA	VAL	133	131.353	97.319	37.690	1.00	47.28	DS4	ATOM	12443	NE	ARG	139	133.435	103.791	23.604	1.00	44.17	DS
ATOM	12391	CB	VAL	133	131.027	98.368	36.633	1.00	36.92	DS4	ATOM	12444	CZ	ARG	139	132.430	103.638	22.750	1.00	44.17	DS
ATOM	12392	CG1	VAL	133	131.915	98.177	35.441	1.00	36.92	DS4	ATOM	12445	NH1	ARG	139	134.680	103.641	23.174	1.00	44.17	DS
ATOM	12393	CG2	VAL	133	129.555	98.269	36.238	1.00	36.92	DS4	ATOM	12446	NH2	ARG	139	131.217	103.649	29.473	1.00	40.34	DS
ATOM	12394	C	VAL	133	132.830	97.403	38.048	1.00	47.28	DS4	ATOM	12447	C	ARG	139	130.128	103.115	29.685	1.00	40.34	DS
ATOM	12395	O	VAL	133	133.278	98.418	38.570	1.00	47.28	DS4	ATOM	12448	N	VAL	140	131.367	104.740	30.421	1.00	51.81	DS
ATOM	12396	N	ASP	134	135.927	96.489	36.901	1.00	61.79	DS4	ATOM	12449	CA	VAL	140	130.244	105.414	31.056	1.00	51.81	DS
ATOM	12397	CA	ASP	134	135.012	96.381	38.118	1.00	61.79	DS4	ATOM	12450	CB	VAL	140	129.649	107.103	32.802	1.00	59.76	DS
ATOM	12398	CA	ASP	134	135.399	95.136	38.907	1.00	73.52	DS4	ATOM	12451	CG1	VAL	140	131.644	105.636	33.090	1.00	59.76	DS
ATOM	12399	CG	ASP	134	135.322	93.883	38.074	1.00	73.52	DS4	ATOM	12452	CG1	VAL	140	129.440	106.187	30.006	1.00	51.81	DS
ATOM	12400	CG	ASP	134	134.202	93.394	37.845	1.00	73.52	DS4	ATOM	12453	CG2	VAL	140	130.015	106.956	29.241	1.00	51.81	DS
ATOM	12401	OD1	ASP	134	136.387	93.394	37.634	1.00	73.52	DS4	ATOM	12454	C	VAL	140	128.128	105.965	29.942	1.00	46.93	DS
ATOM	12402	OD2	ASP	134	135.927	96.489	36.901	1.00	61.79	DS4	ATOM	12455	O	VAL	141	127.271	106.689	28.990	1.00	46.93	DS
ATOM	12403	C	ASP	134	137.104	96.127	36.971	1.00	61.79	DS4	ATOM	12456	N	ARG	141	126.079	105.838	27.934	1.00	11.49	DS
ATOM	12404	N	ASP	135	135.396	96.996	35.794	1.00	49.69	DS4	ATOM	12457	CA	ARG	141	127.159	104.626	26.628	1.00	11.49	DS
ATOM	12405	N	LEU	135	136.181	97.123	34.573	1.00	49.69	DS4	ATOM	12458	CB	ARG	141	127.626	103.320	26.171	1.00	11.49	DS
ATOM	12406	CA	LEU	135	135.337	96.658	33.394	1.00	38.77	DS4	ATOM	12459	CG	ARG	141	128.415	103.125	25.118	1.00	11.49	DS
ATOM	12407	CB	LEU	135	134.562	95.410	33.812	1.00	38.77	DS4	ATOM	12460	CD	ARG	141	128.836	104.154	24.393	1.00	11.49	DS
ATOM	12408	CG	LEU	135	133.472	95.123	33.817	1.00	38.77	DS4	ATOM	12461	NE	ARG	141	128.791	101.893	24.799	1.00	11.49	DS
ATOM	12409	CD1	LEU	135	135.516	94.243	33.948	1.00	38.77	DS4	ATOM	12462	CZ	ARG	141	126.704	107.896	29.747	1.00	46.93	DS
ATOM	12410	CD2	LEU	135	136.617	98.565	34.016	1.00	49.69	DS4	ATOM	12463	NH1	ARG	141	126.726	107.920	30.975	1.00	46.93	DS
ATOM	12411	O	LEU	135	137.890	98.846	34.643	1.00	42.85	DS4	ATOM	12464	NH2	ARG	141	126.198	108.916	29.031	1.00	56.64	DS
ATOM	12412	C	LEU	136	138.936	97.908	35.054	1.00	66.57	DS4	ATOM	12465	C	ARG	141	126.398	109.241	27.610	1.00	54.07	DS
ATOM	12413	N	PRO	136	139.912	98.834	35.722	1.00	66.57	DS4	ATOM	12466	N	PRO	142	125.640	110.072	29.745	1.00	56.64	DS
ATOM	12414	CD	PRO	136	139.912	98.834	35.722	1.00	66.57	DS4	ATOM	12467	CA	PRO	142	125.397	111.084	28.630	1.00	54.07	DS
ATOM	12415	CB	PRO	136	138.246	100.742	33.129	1.00	42.85	DS4	ATOM	12468	CD	PRO	142	124.347	109.679	27.649	1.00	56.64	DS
ATOM	12416	CG	PRO	136	138.299	101.944	32.929	1.00	42.85	DS4	ATOM	12469	CG	PRO	142	123.474	109.021	29.900	1.00	56.64	DS
ATOM	12417	C	PRO	136	138.031	99.862	32.165	1.00	48.74	DS4	ATOM	12470	CB	PRO	142						
ATOM	12418	O	PRO	136						DS4	ATOM	12471	C	PRO	142						
ATOM	12419	O	PRO	136						DS4	ATOM	12472	C	PRO	142						
ATOM	12420	N	SER	137						DS4	ATOM	12473	O	PRO	142						

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ATOM	12474	N	GLY	143	124.235	110.080	31.724	1.00	70.81	DS4	ATOM	12527	C	GLU	150	128.528	100.235	51.049	1.00	62.21	DS
ATOM	12475	CA	GLY	143	123.060	109.746	32.495	1.00	70.81	DS4	ATOM	12528	O	GLU	150	129.172	101.000	51.771	1.00	62.21	DS
ATOM	12476	C	GLY	143	123.315	108.547	33.383	1.00	70.81	DS4	ATOM	12529	N	LYS	151	128.747	98.928	50.991	1.00	52.71	DS
ATOM	12477	O	GLY	143	122.380	107.836	33.728	1.00	70.81	DS4	ATOM	12530	CA	LYS	151	129.730	98.274	51.812	1.00	52.71	DS
ATOM	12478	N	ASP	144	124.570	108.310	33.758	1.00	44.10	DS4	ATOM	12531	CB	LYS	151	129.988	96.859	51.312	1.00	94.89	DS
ATOM	12479	CA	ASP	144	124.889	107.171	34.613	1.00	44.10	DS4	ATOM	12532	CG	LYS	151	128.728	96.015	51.179	1.00	94.89	DS
ATOM	12480	CB	ASP	144	126.110	106.407	34.101	1.00	68.41	DS4	ATOM	12533	CD	LYS	151	127.881	96.462	49.996	1.00	94.89	DS
ATOM	12481	CG	ASP	144	125.828	105.612	32.842	1.00	68.41	DS4	ATOM	12534	CE	LYS	151	126.485	95.847	50.034	1.00	94.89	DS
ATOM	12482	OD1	ASP	144	124.707	105.071	32.721	1.00	68.41	DS4	ATOM	12535	NZ	LYS	151	125.646	96.403	51.142	1.00	94.89	DS
ATOM	12483	OD2	ASP	144	126.738	105.506	31.985	1.00	68.41	DS4	ATOM	12536	C	LYS	151	131.047	99.037	52.969	1.00	52.71	DS
ATOM	12484	C	ASP	144	125.196	107.631	36.019	1.00	44.10	DS4	ATOM	12537	O	LYS	151	131.682	99.078	52.969	1.00	52.71	DS
ATOM	12485	O	ASP	144	125.846	108.661	37.203	1.00	44.10	DS4	ATOM	12538	N	SER	152	131.445	99.662	50.809	1.00	57.82	DS
ATOM	12486	N	GLU	145	124.723	106.873	37.009	1.00	47.40	DS4	ATOM	12539	CA	SER	152	132.717	100.382	50.754	1.00	57.82	DS
ATOM	12487	CA	GLU	145	124.988	107.190	38.408	1.00	47.40	DS4	ATOM	12540	CB	SER	152	133.217	100.447	49.305	1.00	86.04	DS
ATOM	12488	CB	GLU	145	123.829	106.766	39.306	1.00	177.59	DS4	ATOM	12541	OG	SER	152	133.358	99.157	48.735	1.00	86.04	DS
ATOM	12489	CD	GLU	145	122.661	107.722	39.347	1.00	177.59	DS4	ATOM	12542	C	SER	152	132.704	101.789	51.330	1.00	57.82	DS
ATOM	12490	CG	GLU	145	121.737	107.424	40.511	1.00	177.59	DS4	ATOM	12543	O	SER	152	133.765	102.350	51.622	1.00	57.82	DS
ATOM	12491	OE1	GLU	145	121.220	106.287	40.584	1.00	177.59	DS4	ATOM	12544	N	ARG	153	131.515	102.360	51.493	1.00	65.02	DS
ATOM	12492	OE2	GLU	145	121.534	108.323	41.355	1.00	177.59	DS4	ATOM	12545	CA	ARG	153	131.398	103.723	52.007	1.00	65.02	DS
ATOM	12493	C	GLU	145	126.218	106.405	38.808	1.00	47.40	DS4	ATOM	12546	CB	ARG	153	129.931	104.151	52.036	1.00	102.66	DS
ATOM	12494	O	GLU	145	126.187	105.179	38.869	1.00	47.40	DS4	ATOM	12547	CG	ARG	153	129.543	105.019	50.860	1.00	102.66	DS
ATOM	12495	N	ILE	146	127.303	107.106	39.078	1.00	70.72	DS4	ATOM	12548	CD	ARG	153	128.089	105.413	50.918	1.00	102.66	DS
ATOM	12496	CA	ILE	146	128.539	106.452	39.464	1.00	70.72	DS4	ATOM	12549	NE	ARG	153	127.224	104.260	50.695	1.00	102.66	DS
ATOM	12497	CB	ILE	146	129.689	107.006	38.623	1.00	68.93	DS4	ATOM	12550	CZ	ARG	153	125.897	104.324	50.646	1.00	102.66	DS
ATOM	12498	CG2	ILE	146	131.012	106.359	39.024	1.00	68.93	DS4	ATOM	12551	NH1	ARG	153	125.285	105.494	50.805	1.00	102.66	DS
ATOM	12499	CG1	ILE	146	129.357	106.767	37.150	1.00	68.93	DS4	ATOM	12552	NH2	ARG	153	125.181	103.222	50.433	1.00	102.66	DS
ATOM	12500	CD1	ILE	146	130.179	107.582	36.184	1.00	68.93	DS4	ATOM	12553	C	ARG	153	132.031	103.961	53.373	1.00	65.02	DS
ATOM	12501	C	ILE	146	128.773	106.695	40.952	1.00	70.72	DS4	ATOM	12554	O	ARG	153	132.159	105.106	53.807	1.00	65.02	DS
ATOM	12502	O	ILE	146	129.201	107.781	41.353	1.00	70.72	DS4	ATOM	12555	N	ASN	154	132.439	102.885	54.040	1.00	87.45	DS
ATOM	12503	N	ALA	147	128.488	105.682	41.769	1.00	61.84	DS4	ATOM	12556	CA	ASN	154	133.048	102.991	55.361	1.00	87.45	DS
ATOM	12504	CA	ALA	147	128.630	105.824	43.213	1.00	61.84	DS4	ATOM	12557	CB	ASN	154	132.526	101.890	56.286	1.00	157.16	DS
ATOM	12505	CB	ALA	147	127.263	105.736	43.864	1.00	87.07	DS4	ATOM	12558	CG	ASN	154	131.018	101.849	56.347	1.00	157.16	DS
ATOM	12506	C	ALA	147	129.574	104.856	43.901	1.00	61.84	DS4	ATOM	12559	OD1	ASN	154	130.362	101.318	55.450	1.00	157.16	DS
ATOM	12507	O	ALA	147	129.986	103.850	43.334	1.00	61.84	DS4	ATOM	12560	ND2	ASN	154	130.454	102.423	54.404	1.00	157.16	DS
ATOM	12508	N	VAL	148	129.906	105.181	45.144	1.00	55.29	DS4	ATOM	12561	C	ASN	154	134.554	102.878	55.291	1.00	87.45	DS
ATOM	12509	CA	VAL	148	130.776	104.349	45.952	1.00	55.29	DS4	ATOM	12562	O	ASN	154	135.208	102.672	56.307	1.00	87.45	DS
ATOM	12510	CB	VAL	148	131.369	105.149	47.130	1.00	50.51	DS4	ATOM	12563	N	LEU	155	135.112	103.014	54.098	1.00	77.58	DS
ATOM	12511	CG1	VAL	148	132.399	104.323	47.854	1.00	50.51	DS4	ATOM	12564	CA	LEU	155	136.875	102.894	53.944	1.00	77.58	DS
ATOM	12512	CG2	VAL	148	131.997	106.441	46.620	1.00	50.51	DS4	ATOM	12565	CB	LEU	155	136.227	101.007	52.319	1.00	81.74	DS
ATOM	12513	C	VAL	148	129.904	103.218	46.491	1.00	55.29	DS4	ATOM	12566	CG	LEU	155	136.875	102.380	52.540	1.00	81.74	DS
ATOM	12514	O	VAL	148	128.719	103.415	46.781	1.00	55.29	DS4	ATOM	12567	CD1	LEU	155	136.171	100.659	50.843	1.00	81.74	DS
ATOM	12515	N	ALA	149	130.486	102.032	46.608	1.00	60.71	DS4	ATOM	12568	CD2	LEU	155	137.001	99.964	53.117	1.00	81.74	DS
ATOM	12516	CA	ALA	149	129.766	100.865	47.009	1.00	60.71	DS4	ATOM	12569	C	LEU	155	137.282	104.200	54.223	1.00	77.58	DS
ATOM	12517	CB	ALA	149	130.676	99.647	47.046	1.00	71.73	DS4	ATOM	12570	O	LEU	155	137.016	105.223	53.579	1.00	77.58	DS
ATOM	12518	C	ALA	149	129.255	101.073	48.522	1.00	60.71	DS4	ATOM	12571	N	GLU	156	138.190	104.157	55.198	1.00	61.83	DS
ATOM	12519	O	ALA	149	129.952	101.638	49.365	1.00	60.71	DS4	ATOM	12572	CA	GLU	156	138.969	105.332	55.586	1.00	61.83	DS
ATOM	12520	N	GLU	150	128.036	100.614	48.786	1.00	62.21	DS4	ATOM	12573	CB	GLU	156	140.318	104.916	56.174	1.00	101.50	DS
ATOM	12521	CA	GLU	150	127.455	100.749	50.111	1.00	62.21	DS4	ATOM	12574	CG	GLU	156	140.224	104.127	57.462	1.00	101.50	DS
ATOM	12522	CG	GLU	150	126.206	99.880	50.247	1.00	165.37	DS4	ATOM	12575	CD	GLU	156	141.590	103.778	58.019	1.00	101.50	DS
ATOM	12523	CB	GLU	150	125.318	99.875	49.022	1.00	165.37	DS4	ATOM	12576	OE1	GLU	156	142.386	104.712	58.251	1.00	101.50	DS
ATOM	12524	CD	GLU	150	126.017	99.885	47.807	1.00	165.37	DS4	ATOM	12577	OE2	GLU	156	141.865	106.205	58.222	1.00	150.53	DS
ATOM	12525	OE1	GLU	150	126.446	98.113	47.875	1.00	165.37	DS4	ATOM	12578	C	GLU	156	139.268	102.575	54.367	1.00	61.83	DS
ATOM	12526	OE2	GLU	150	126.142	99.997	46.788	1.00	165.37	DS4	ATOM	12579	O	GLU	156	138.669	107.307	54.256	1.00	61.83	DS

ATOM	12580	N	LEU	157	140.010	105.671	53.451	1.00	66.10	DS4	ATOM	12633	CA	GLU	163	135.639	114.287	52.507	1.00	96.83	D
ATOM	12581	CA	LEU	157	140.372	106.333	52.204	1.00	66.10	DS4	ATOM	12634	CB	GLU	163	136.460	113.889	53.735	1.00	15.16	D
ATOM	12582	CG	LEU	157	141.039	105.319	51.272	1.00	89.78	DS4	ATOM	12635	CG	GLU	163	136.616	115.002	54.765	1.00	15.16	D
ATOM	12583	CB	LEU	157	141.877	105.830	50.101	1.00	89.78	DS4	ATOM	12636	CD	GLU	163	135.295	115.419	55.388	1.00	15.16	D
ATOM	12584	CD1	LEU	157	142.421	104.631	49.341	1.00	89.78	DS4	ATOM	12637	OE1	GLU	163	135.285	116.407	56.150	1.00	15.16	D
ATOM	12585	CD2	LEU	157	141.045	106.712	49.190	1.00	89.78	DS4	ATOM	12638	OE2	GLU	163	134.268	114.757	55.122	1.00	15.16	D
ATOM	12586	C	LEU	157	139.188	106.978	51.493	1.00	66.10	DS4	ATOM	12639	C	GLU	163	136.236	115.551	51.897	1.00	96.83	D
ATOM	12587	O	LEU	157	139.213	108.169	51.204	1.00	66.10	DS4	ATOM	12640	O	GLU	163	135.555	116.561	51.722	1.00	96.83	D
ATOM	12588	N	LEU	158	138.157	106.200	51.195	1.00	76.00	DS4	ATOM	12641	N	ALA	164	137.522	115.475	51.577	1.00	78.18	D
ATOM	12589	CA	LEU	158	137.008	106.770	50.512	1.00	76.00	DS4	ATOM	12642	CA	ALA	164	138.251	116.584	50.974	1.00	78.18	D
ATOM	12590	C	LEU	158	135.936	105.714	50.255	1.00	56.31	DS4	ATOM	12643	CB	ALA	164	139.656	116.129	50.629	1.00	43.22	D
ATOM	12591	CG2	LEU	158	134.677	106.354	49.710	1.00	56.31	DS4	ATOM	12644	C	ALA	164	137.562	117.111	49.716	1.00	78.18	D
ATOM	12592	CG1	LEU	158	136.486	104.717	48.964	1.00	56.31	DS4	ATOM	12645	O	ALA	164	138.000	118.094	49.126	1.00	78.18	D
ATOM	12593	CD1	LEU	158	135.592	103.551	49.236	1.00	56.31	DS4	ATOM	12646	N	MET	165	135.745	116.828	48.118	1.00	52.58	D
ATOM	12594	C	LEU	158	136.459	107.930	51.320	1.00	76.00	DS4	ATOM	12647	CA	MET	165	135.487	116.448	49.311	1.00	52.58	D
ATOM	12595	O	LEU	158	135.980	108.917	50.755	1.00	76.00	DS4	ATOM	12648	CB	MET	165	135.224	115.573	47.416	1.00	84.12	D
ATOM	12596	N	ARG	159	136.548	107.822	52.643	1.00	69.23	DS4	ATOM	12649	CG	MET	165	136.095	115.109	46.277	1.00	84.12	D
ATOM	12597	CA	ARG	159	136.100	108.904	53.515	1.00	69.23	DS4	ATOM	12650	SD	MET	165	136.170	116.403	45.036	1.00	84.12	D
ATOM	12598	CB	ARG	159	136.088	108.447	54.970	1.00	47.31	DS4	ATOM	12651	CE	MET	165	134.593	116.177	44.234	1.00	84.12	D
ATOM	12599	CG	ARG	159	135.049	107.396	55.262	1.00	47.31	DS4	ATOM	12652	C	MET	165	134.575	117.754	48.398	1.00	52.58	D
ATOM	12600	CD	ARG	159	135.103	106.919	56.709	1.00	47.31	DS4	ATOM	12653	O	MET	165	133.877	118.167	47.472	1.00	52.58	D
ATOM	12601	NE	ARG	159	133.971	106.130	58.245	1.00	47.31	DS4	ATOM	12654	N	LYS	166	134.345	118.063	49.671	1.00	81.04	D
ATOM	12602	CZ	ARG	159	133.789	105.577	58.245	1.00	47.31	DS4	ATOM	12655	CA	LYS	166	133.243	118.937	50.057	1.00	81.04	D
ATOM	12603	NH1	ARG	159	134.671	105.783	59.214	1.00	47.31	DS4	ATOM	12656	CB	LYS	166	132.735	117.764	52.261	1.00	102.58	D
ATOM	12604	NH2	ARG	159	137.721	104.822	58.471	1.00	47.31	DS4	ATOM	12657	CG	LYS	166	132.776	117.863	53.783	1.00	102.58	D
ATOM	12605	C	ARG	159	132.092	110.046	53.335	1.00	69.23	DS4	ATOM	12658	CD	LYS	166	132.283	116.566	54.429	1.00	102.58	D
ATOM	12606	O	ARG	159	136.744	111.104	52.802	1.00	69.23	DS4	ATOM	12659	CE	LYS	166	132.312	116.606	55.923	1.00	102.58	D
ATOM	12607	N	GLN	160	138.329	109.812	53.767	1.00	57.80	DS4	ATOM	12660	NZ	LYS	166	133.399	120.315	49.430	1.00	81.04	D
ATOM	12608	CA	GLN	160	139.400	110.799	53.643	1.00	57.80	DS4	ATOM	12661	C	LYS	166	134.371	121.018	49.699	1.00	81.04	D
ATOM	12609	CB	GLN	160	140.773	110.121	53.767	1.00	108.75	DS4	ATOM	12662	O	LYS	166	132.440	120.988	48.584	1.00	129.50	D
ATOM	12610	CG	GLN	160	141.119	109.663	55.185	1.00	108.75	DS4	ATOM	12663	N	GLY	167	134.000	121.334	46.116	1.00	107.37	D
ATOM	12611	CD	GLN	160	142.374	108.800	55.251	1.00	108.75	DS4	ATOM	12664	CA	GLY	167	133.754	122.195	47.105	1.00	129.50	D
ATOM	12612	OE1	GLN	160	143.441	109.188	54.765	1.00	108.75	DS4	ATOM	12665	C	GLY	167	133.754	122.195	47.105	1.00	129.50	D
ATOM	12613	NE2	GLN	160	142.249	107.623	55.864	1.00	108.75	DS4	ATOM	12666	O	GLY	167	134.498	123.140	47.371	1.00	129.50	D
ATOM	12614	C	GLN	160	139.310	111.514	52.302	1.00	57.80	DS4	ATOM	12667	N	ARG	168	134.000	121.334	46.116	1.00	107.37	D
ATOM	12615	O	GLN	160	139.609	112.707	52.201	1.00	57.80	DS4	ATOM	12668	CA	ARG	168	135.196	121.441	45.290	1.00	151.06	D
ATOM	12616	N	ASN	161	138.877	110.783	51.278	1.00	68.35	DS4	ATOM	12669	CB	ARG	168	136.105	120.235	45.532	1.00	151.06	D
ATOM	12617	CA	ASN	161	138.753	111.334	49.934	1.00	68.35	DS4	ATOM	12670	CG	ARG	168	136.572	120.155	46.968	1.00	151.06	D
ATOM	12618	CB	ASN	161	138.804	110.219	48.895	1.00	67.74	DS4	ATOM	12671	CD	ARG	168	137.017	121.537	47.427	1.00	151.06	D
ATOM	12619	CG	ASN	161	140.212	109.883	48.470	1.00	67.74	DS4	ATOM	12672	NE	ARG	168	136.913	121.720	48.872	1.00	151.06	D
ATOM	12620	OD1	ASN	161	141.187	110.226	49.152	1.00	67.74	DS4	ATOM	12673	CZ	ARG	168	136.798	122.907	49.465	1.00	151.06	D
ATOM	12621	ND2	ASN	161	140.330	109.193	47.339	1.00	67.74	DS4	ATOM	12674	NH1	ARG	168	136.768	124.017	48.734	1.00	151.06	D
ATOM	12622	C	ASN	161	137.493	112.139	49.717	1.00	68.35	DS4	ATOM	12675	NH2	ARG	168	136.714	122.989	50.789	1.00	151.06	D
ATOM	12623	O	ASN	161	137.547	113.363	49.612	1.00	68.35	DS4	ATOM	12676	C	ARG	168	134.951	121.615	43.798	1.00	107.37	D
ATOM	12624	N	LEU	162	136.356	111.458	49.640	1.00	75.26	DS4	ATOM	12677	O	ARG	168	135.898	121.820	43.036	1.00	88.87	D
ATOM	12625	CA	LEU	162	135.107	112.155	49.402	1.00	75.26	DS4	ATOM	12678	N	LYS	169	133.690	121.552	43.381	1.00	88.87	D
ATOM	12626	CB	LEU	162	133.927	111.198	49.507	1.00	92.06	DS4	ATOM	12679	CA	LYS	169	133.336	121.719	41.971	1.00	88.87	D
ATOM	12627	CG	LEU	162	132.731	111.668	48.674	1.00	92.06	DS4	ATOM	12680	CB	LYS	169	133.753	123.108	41.468	1.00	103.61	D
ATOM	12628	CD1	LEU	162	132.525	110.733	47.504	1.00	92.06	DS4	ATOM	12681	CG	LYS	169	132.827	124.236	41.891	1.00	103.61	D
ATOM	12629	CD2	LEU	162	131.484	111.711	49.526	1.00	92.06	DS4	ATOM	12682	CE	LYS	169	133.182	125.542	41.184	1.00	103.61	D
ATOM	12630	C	LEU	162	134.953	113.307	50.389	1.00	75.26	DS4	ATOM	12683	CD	LYS	169	132.455	126.639	41.468	1.00	103.61	D
ATOM	12631	O	LEU	162	134.204	114.252	50.140	1.00	75.26	DS4	ATOM	12684	NZ	LYS	169	133.956	127.908	40.747	1.00	103.61	D
ATOM	12632	N	GLU	163	135.675	113.229	51.503	1.00	96.83	DS4	ATOM	12685	C	LYS	169	133.956	120.664	41.065	1.00	88.87	D

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ATOM	12686	O	LYS	169	135.171	120.487	41.039	1.00	88.87	DS4	ATOM	12739	C	LEU	176	127.996	115.394	43.577	1.00	80.37	D
ATOM	12687	N	VAL	170	133.115	119.969	40.311	1.00	72.68	DS4	ATOM	12740	O	LEU	176	128.033	116.517	44.072	1.00	80.37	D
ATOM	12688	CA	VAL	170	133.599	118.945	39.399	1.00	72.68	DS4	ATOM	12741	N	ASP	177	127.316	114.381	44.103	1.00	91.86	D
ATOM	12689	CB	VAL	170	132.910	117.585	39.683	1.00	80.04	DS4	ATOM	12742	CA	ASP	177	126.566	114.506	45.343	1.00	91.86	D
ATOM	12690	CG1	VAL	170	131.552	117.521	38.993	1.00	80.04	DS4	ATOM	12743	CB	ASP	177	125.244	113.754	45.222	1.00	100.24.58	D
ATOM	12691	CG2	VAL	170	133.812	116.451	39.246	1.00	80.04	DS4	ATOM	12744	CG	ASP	177	124.610	113.482	46.558	1.00	100.24.58	D
ATOM	12692	C	VAL	170	133.292	119.419	37.979	1.00	72.68	DS4	ATOM	12745	OD1	ASP	177	124.971	112.465	47.186	1.00	100.24.58	D
ATOM	12693	O	VAL	170	132.479	120.321	37.791	1.00	72.68	DS4	ATOM	12746	OD2	ASP	177	123.761	114.289	46.987	1.00	100.24.58	D
ATOM	12694	N	GLY	171	133.946	118.817	36.991	1.00	47.49	DS4	ATOM	12747	C	ASP	177	127.410	113.928	46.468	1.00	91.86	D
ATOM	12695	CA	GLY	171	133.737	119.212	35.603	1.00	47.49	DS4	ATOM	12748	O	ASP	177	127.339	112.738	46.762	1.00	91.86	D
ATOM	12696	C	GLY	171	132.301	119.544	35.226	1.00	47.49	DS4	ATOM	12749	N	VAL	178	128.220	114.775	47.090	1.00	63.72	D
ATOM	12697	O	GLY	171	131.378	118.906	35.716	1.00	47.49	DS4	ATOM	12750	CA	VAL	178	129.085	114.329	48.165	1.00	63.72	D
ATOM	12698	N	PRO	172	132.077	120.531	34.346	1.00	49.32	DS4	ATOM	12751	CB	VAL	178	129.841	115.496	48.779	1.00	54.16	D
ATOM	12699	CD	PRO	172	133.093	121.281	33.586	1.00	51.71	DS4	ATOM	12752	CG1	VAL	178	130.987	114.974	49.650	1.00	54.16	D
ATOM	12700	CA	PRO	172	130.719	120.918	33.931	1.00	49.32	DS4	ATOM	12753	CG2	VAL	178	130.357	116.403	49.687	1.00	54.16	D
ATOM	12701	CB	PRO	172	130.961	122.116	33.010	1.00	51.71	DS4	ATOM	12754	C	VAL	178	128.248	113.670	49.244	1.00	63.72	D
ATOM	12702	CG	PRO	172	132.293	121.779	32.391	1.00	49.32	DS4	ATOM	12755	O	VAL	178	128.762	112.948	50.099	1.00	63.72	D
ATOM	12703	C	PRO	172	129.944	119.809	32.227	1.00	49.32	DS4	ATOM	12756	N	GLU	179	126.950	113.937	49.198	1.00	83.47	D
ATOM	12704	O	PRO	172	128.759	119.976	32.912	1.00	49.32	DS4	ATOM	12757	CA	GLU	179	124.583	113.810	49.775	1.00	100.78.86	D
ATOM	12705	N	TRP	173	130.618	118.691	32.962	1.00	56.21	DS4	ATOM	12758	CB	GLU	179	126.007	113.364	50.145	1.00	83.47	D
ATOM	12706	CA	TRP	173	129.978	117.557	32.294	1.00	56.21	DS4	ATOM	12759	CG	GLU	179	123.439	113.028	50.424	1.00	100.78.86	D
ATOM	12707	CB	TRP	173	130.921	116.952	31.219	1.00	46.81	DS4	ATOM	12760	CD	GLU	179	123.314	113.265	51.917	1.00	100.78.86	D
ATOM	12708	CG	TRP	173	132.138	116.203	31.734	1.00	46.81	DS4	ATOM	12761	OE1	GLU	179	122.391	112.681	52.529	1.00	100.78.86	D
ATOM	12709	CD2	TRP	173	133.426	116.752	32.038	1.00	46.81	DS4	ATOM	12762	OE2	GLU	179	124.132	114.032	52.474	1.00	100.78.86	D
ATOM	12710	CE2	TRP	173	134.228	115.698	32.521	1.00	46.81	DS4	ATOM	12763	C	GLU	179	126.912	111.840	50.115	1.00	83.47	D
ATOM	12711	CE3	TRP	173	133.980	118.034	31.946	1.00	46.81	DS4	ATOM	12764	O	GLU	179	125.318	111.209	49.256	1.00	100.17.94	D
ATOM	12712	CD1	TRP	173	132.213	114.872	32.035	1.00	46.81	DS4	ATOM	12765	N	GLY	180	125.315	109.761	49.147	1.00	100.17.94	D
ATOM	12713	NE1	TRP	173	133.462	114.562	32.510	1.00	46.81	DS4	ATOM	12766	CA	GLY	180	126.531	109.204	48.442	1.00	100.17.94	D
ATOM	12714	CE2	TRP	173	135.556	115.884	32.919	1.00	46.81	DS4	ATOM	12767	C	GLY	180	126.507	108.075	47.951	1.00	100.17.94	D
ATOM	12715	C23	TRP	173	135.306	118.223	32.340	1.00	46.81	DS4	ATOM	12768	O	GLY	180	127.598	109.995	48.403	1.00	69.69	D
ATOM	12716	CH2	TRP	173	136.078	117.151	32.819	1.00	46.81	DS4	ATOM	12769	N	MET	181	128.830	109.583	47.750	1.00	69.69	D
ATOM	12717	C	TRP	173	129.619	116.537	33.369	1.00	56.21	DS4	ATOM	12770	CA	MET	181	129.554	108.534	48.587	1.00	77.45	D
ATOM	12718	O	TRP	173	128.988	115.512	33.100	1.00	56.21	DS4	ATOM	12771	CB	MET	181	129.858	108.993	49.991	1.00	77.45	D
ATOM	12719	N	LEU	174	130.007	116.865	34.598	1.00	66.46	DS4	ATOM	12772	CG	MET	181	130.921	107.860	50.879	1.00	77.45	D
ATOM	12720	CA	LEU	174	129.761	116.024	35.758	1.00	66.46	DS4	ATOM	12773	SD	MET	181	132.433	108.771	50.962	1.00	77.45	D
ATOM	12721	CB	LEU	174	131.087	115.662	36.421	1.00	44.87	DS4	ATOM	12774	CE	MET	181	128.516	109.014	46.378	1.00	69.69	D
ATOM	12722	CG	LEU	174	132.134	115.015	35.534	1.00	44.87	DS4	ATOM	12775	C	MET	181	127.855	109.820	46.073	1.00	69.69	D
ATOM	12723	CD1	LEU	174	133.418	114.796	36.329	1.00	44.87	DS4	ATOM	12776	O	MET	181	127.497	109.409	44.216	1.00	76.18	D
ATOM	12724	CD2	LEU	174	131.589	113.700	35.017	1.00	44.87	DS4	ATOM	12777	N	LYS	182	126.121	108.743	44.218	1.00	68.24	D
ATOM	12725	C	LEU	174	128.875	116.696	36.807	1.00	66.46	DS4	ATOM	12778	CA	LYS	182	123.632	109.114	44.213	1.00	68.24	D
ATOM	12726	O	LEU	174	128.580	117.892	37.739	1.00	66.46	DS4	ATOM	12779	CB	LYS	182	124.993	109.652	44.645	1.00	68.24	D
ATOM	12727	N	SER	175	128.469	115.896	37.784	1.00	69.88	DS4	ATOM	12780	CG	LYS	182	123.042	108.110	45.207	1.00	68.24	D
ATOM	12728	CA	SER	175	127.653	116.344	38.900	1.00	69.88	DS4	ATOM	12781	CD	LYS	182	123.767	106.792	45.258	1.00	68.24	D
ATOM	12729	CB	SER	175	126.167	116.190	38.586	1.00	90.33	DS4	ATOM	12782	CE	LYS	182	127.484	110.617	43.277	1.00	76.18	D
ATOM	12730	CG	SER	175	125.803	114.826	38.535	1.00	90.33	DS4	ATOM	12783	NZ	LYS	182	126.922	111.666	43.666	1.00	76.18	D
ATOM	12731	C	SER	175	128.046	115.403	40.023	1.00	69.88	DS4	ATOM	12784	C	LYS	182	128.118	110.466	41.140	1.00	63.60	D
ATOM	12732	O	SER	175	128.341	115.944	41.195	1.00	80.37	DS4	ATOM	12785	N	GLY	183	128.143	111.539	39.951	1.00	63.60	D
ATOM	12733	N	LEU	176	128.735	115.083	42.293	1.00	80.37	DS4	ATOM	12786	CA	GLY	183	127.353	111.047	39.956	1.00	63.60	D
ATOM	12734	CA	LEU	176	130.821	115.182	42.525	1.00	57.05	DS4	ATOM	12787	C	GLY	183	126.917	109.900	38.947	1.00	58.64	D
ATOM	12735	CB	LEU	176	131.110	115.033	44.840	1.00	57.05	DS4	ATOM	12788	O	GLY	184	126.412	111.488	37.752	1.00	58.64	D
ATOM	12736	CG	LEU	176	130.039	113.001	43.790	1.00	57.05	DS4	ATOM	12789	N	LYS	184						
ATOM	12737	CD1	LEU	176							ATOM	12791	CA	LYS	184						
ATOM	12738	CD2	LEU	176																	

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ATOM	12792	CB	LYS	184	124.976	112.008	37.792	1.00	76.42	DS4	ATOM	12845	CA	ASP	190	134.265	118.562	24.756	1.00	65.23	DS
ATOM	12793	CG	LYS	184	123.979	111.095	37.090	1.00	76.42	DS4	ATOM	12846	CB	ASP	190	133.450	119.790	24.323	1.00	64.53	DS
ATOM	12794	CD	LYS	184	122.539	111.545	37.329	1.00	76.42	DS4	ATOM	12847	CG	ASP	190	133.534	120.062	22.832	1.00	64.53	DS
ATOM	12795	CE	LYS	184	122.185	111.530	38.821	1.00	76.42	DS4	ATOM	12848	OD1	ASP	190	134.660	120.189	22.301	1.00	64.53	DS
ATOM	12796	NZ	LYS	184	120.822	112.087	39.114	1.00	76.42	DS4	ATOM	12849	OD2	ASP	190	132.465	120.159	22.193	1.00	64.53	DS
ATOM	12797	C	LYS	184	127.115	111.992	36.496	1.00	58.64	DS4	ATOM	12850	C	ASP	190	135.735	118.947	24.955	1.00	65.23	DS
ATOM	12798	O	LYS	184	127.674	113.086	36.476	1.00	58.64	DS4	ATOM	12851	C	ASP	190	136.201	119.056	26.088	1.00	65.23	DS
ATOM	12799	N	PHE	185	127.098	111.176	35.451	1.00	51.57	DS4	ATOM	12852	N	ARG	191	136.468	119.162	23.867	1.00	56.21	DS
ATOM	12800	CA	PHE	185	127.743	111.525	34.189	1.00	51.57	DS4	ATOM	12853	CA	ARG	191	137.875	119.523	23.993	1.00	56.21	DS
ATOM	12801	CB	PHE	185	128.170	110.244	33.454	1.00	52.88	DS4	ATOM	12854	CB	ARG	191	138.525	119.747	22.635	1.00	75.19	DS
ATOM	12802	CG	PHE	185	129.273	110.453	32.463	1.00	52.88	DS4	ATOM	12855	CG	ARG	191	140.023	119.931	22.755	1.00	75.19	DS
ATOM	12803	CD1	PHE	185	130.520	110.898	32.881	1.00	52.88	DS4	ATOM	12856	CD	ARG	191	140.671	118.865	23.327	1.00	75.19	DS
ATOM	12804	CD2	PHE	185	129.068	110.214	31.114	1.00	52.88	DS4	ATOM	12857	NE	ARG	191	142.069	118.856	23.719	1.00	75.19	DS
ATOM	12805	CE1	PHE	185	131.557	111.104	31.962	1.00	52.88	DS4	ATOM	12858	CZ	ARG	191	142.465	119.545	24.788	1.00	75.19	DS
ATOM	12806	CE2	PHE	185	130.095	110.418	30.194	1.00	52.88	DS4	ATOM	12859	NH1	ARG	191	141.571	120.122	25.582	1.00	75.19	DS
ATOM	12807	CZ	PHE	185	131.342	110.864	30.619	1.00	52.88	DS4	ATOM	12860	NH2	ARG	191	143.756	119.645	25.073	1.00	75.19	DS
ATOM	12808	C	PHE	185	126.728	112.308	33.360	1.00	51.57	DS4	ATOM	12861	C	ARG	191	137.997	120.788	24.802	1.00	56.21	DS
ATOM	12809	O	PHE	185	125.897	111.726	32.663	1.00	51.57	DS4	ATOM	12862	O	ARG	191	138.904	120.926	25.623	1.00	56.21	DS
ATOM	12810	N	LEU	186	125.865	113.630	33.441	1.00	44.31	DS4	ATOM	12863	N	GLU	192	137.070	121.713	24.569	1.00	61.92	DS
ATOM	12811	CA	LEU	186	126.800	114.478	32.719	1.00	44.31	DS4	ATOM	12864	CA	GLU	192	137.075	122.981	25.279	1.00	61.92	DS
ATOM	12812	CB	LEU	186	126.085	115.941	33.128	1.00	36.56	DS4	ATOM	12865	CB	GLU	192	136.206	123.995	24.538	1.00	61.92	DS
ATOM	12813	CG	LEU	186	126.093	116.157	34.656	1.00	36.56	DS4	ATOM	12866	CG	GLU	192	135.164	123.357	23.642	1.00	61.92	DS
ATOM	12814	CD1	LEU	186	126.485	117.568	34.998	1.00	36.56	DS4	ATOM	12867	CD	GLU	192	135.265	123.842	22.204	1.00	61.92	DS
ATOM	12815	CD2	LEU	186	124.734	115.878	35.213	1.00	36.56	DS4	ATOM	12868	OE1	GLU	192	136.369	123.721	21.630	1.00	61.92	DS
ATOM	12816	C	LEU	186	125.943	114.287	31.206	1.00	44.31	DS4	ATOM	12869	OE2	GLU	192	134.251	124.339	21.653	1.00	61.92	DS
ATOM	12817	O	LEU	186	124.986	113.823	30.606	1.00	44.31	DS4	ATOM	12870	C	GLU	192	136.623	122.833	26.731	1.00	61.92	DS
ATOM	12818	N	ARG	187	127.070	114.633	30.592	1.00	63.86	DS4	ATOM	12871	C	GLU	192	136.455	123.827	27.432	1.00	61.92	DS
ATOM	12819	CA	ARG	187	127.233	115.461	29.145	1.00	63.86	DS4	ATOM	12872	N	ASP	193	136.432	121.590	27.175	1.00	57.91	DS
ATOM	12820	CB	ARG	187	126.493	115.574	28.388	1.00	63.86	DS4	ATOM	12873	CA	ASP	193	136.030	121.298	28.555	1.00	57.91	DS
ATOM	12821	CG	ARG	187	124.972	115.435	28.455	1.00	63.86	DS4	ATOM	12874	CB	ASP	193	134.973	120.191	28.592	1.00	84.39	DS
ATOM	12822	CD	ARG	187	124.224	116.578	27.772	1.00	63.86	DS4	ATOM	12875	CG	ASP	193	133.583	120.691	28.250	1.00	84.39	DS
ATOM	12823	CE	ARG	187	122.774	116.452	27.943	1.00	63.86	DS4	ATOM	12876	OD1	ASP	193	132.961	121.356	29.110	1.00	84.39	DS
ATOM	12824	CZ	ARG	187	121.874	117.270	27.404	1.00	63.86	DS4	ATOM	12877	OD2	ASP	193	133.108	120.425	27.123	1.00	84.39	DS
ATOM	12825	NH1	ARG	187	122.265	118.289	26.649	1.00	63.86	DS4	ATOM	12878	C	ASP	193	137.278	120.821	29.282	1.00	57.91	DS
ATOM	12826	NH2	ARG	187	120.578	117.069	27.618	1.00	63.86	DS4	ATOM	12879	O	ASP	193	137.515	121.159	30.442	1.00	57.91	DS
ATOM	12827	C	ARG	187	128.709	114.427	28.737	1.00	63.86	DS4	ATOM	12880	N	LEU	194	138.068	120.020	28.573	1.00	60.25	DS
ATOM	12828	N	LEU	188	129.587	114.818	29.518	1.00	56.55	DS4	ATOM	12881	CA	LEU	194	139.308	119.473	29.100	1.00	60.25	DS
ATOM	12829	CA	LEU	188	128.985	113.950	27.523	1.00	56.55	DS4	ATOM	12882	CB	LEU	194	139.737	118.244	28.294	1.00	52.69	DS
ATOM	12830	CB	LEU	188	130.363	113.863	27.016	1.00	56.55	DS4	ATOM	12883	CG	LEU	194	138.927	116.951	28.365	1.00	52.69	DS
ATOM	12831	CG	LEU	188	130.369	113.338	25.579	1.00	41.23	DS4	ATOM	12884	CD1	LEU	194	138.901	116.447	29.796	1.00	52.69	DS
ATOM	12832	CG	LEU	188	130.061	111.856	25.399	1.00	41.23	DS4	ATOM	12885	CD2	LEU	194	137.524	117.192	27.871	1.00	52.69	DS
ATOM	12833	CD1	LEU	188	129.899	111.535	23.940	1.00	41.23	DS4	ATOM	12886	C	LEU	194	140.388	120.532	28.157	1.00	60.25	DS
ATOM	12834	CD2	LEU	188	131.183	111.042	26.011	1.00	41.23	DS4	ATOM	12887	O	LEU	194	140.285	121.438	28.966	1.00	47.09	DS
ATOM	12835	C	LEU	188	131.124	115.180	27.031	1.00	56.55	DS4	ATOM	12888	N	ALA	195	141.426	120.418	29.798	1.00	58.32	DS
ATOM	12836	O	LEU	188	130.666	116.171	26.465	1.00	56.55	DS4	ATOM	12889	CA	ALA	195	142.531	121.364	30.751	1.00	58.32	DS
ATOM	12837	N	PRO	189	132.301	115.208	27.668	1.00	55.38	DS4	ATOM	12890	CB	ALA	195	142.475	122.292	30.934	1.00	42.85	DS
ATOM	12838	CD	PRO	189	132.954	114.139	28.437	1.00	48.03	DS4	ATOM	12891	C	ALA	195	143.821	120.571	29.778	1.00	58.32	DS
ATOM	12839	CA	PRO	189	133.090	116.444	27.713	1.00	55.38	DS4	ATOM	12892	O	ALA	195	144.744	120.888	30.522	1.00	58.32	DS
ATOM	12840	CB	PRO	189	134.203	116.614	28.705	1.00	48.03	DS4	ATOM	12893	N	LEU	196	143.871	119.526	28.966	1.00	47.09	DS
ATOM	12841	CG	PRO	189	134.377	114.649	28.537	1.00	48.03	DS4	ATOM	12894	CA	LEU	196	145.040	118.672	28.891	1.00	47.09	DS
ATOM	12842	C	PRO	189	133.630	116.790	26.323	1.00	55.38	DS4	ATOM	12895	CB	LEU	196	144.675	117.395	28.146	1.00	69.63	DS
ATOM	12843	O	PRO	189	133.904	115.902	25.514	1.00	55.38	DS4	ATOM	12896	CG	LEU	196	143.540	116.589	28.778	1.00	69.63	DS
ATOM	12844	N	ASP	190	133.766	118.082	26.046	1.00	65.23	DS4	ATOM	12897	CD1	LEU	196	143.017	115.553	27.803	1.00	69.63	DS

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ATOM	12898	CD2	LEU	196	144.057	115.927	30.044	1.00	69.63	DS4	ATOM	12951	CG1	VAL	203	146.975	111.168	19.281	1.00	49.42	DS
ATOM	12899	C	LEU	196	146.146	119.394	28.145	1.00	47.09	DS4	ATOM	12952	CG2	VAL	203	148.009	113.092	20.451	1.00	49.42	DS
ATOM	12900	O	LEU	196	145.877	120.133	27.207	1.00	47.09	DS4	ATOM	12953	C	VAL	203	147.645	112.221	16.739	1.00	43.80	DS
ATOM	12901	N	PRO	197	147.404	119.199	28.558	1.00	60.99	DS4	ATOM	12954	O	VAL	203	148.010	111.112	16.365	1.00	43.80	DS
ATOM	12902	CD	PRO	197	147.844	118.367	29.689	1.00	37.95	DS4	ATOM	12955	N	ILE	204	146.701	111.915	16.131	1.00	43.64	DS
ATOM	12903	CA	PRO	197	148.558	119.835	27.911	1.00	60.99	DS4	ATOM	12956	CA	ILE	204	146.031	112.364	14.955	1.00	43.64	DS
ATOM	12904	CB	PRO	197	149.665	119.647	28.936	1.00	37.95	DS4	ATOM	12957	CB	ILE	204	144.919	113.295	14.477	1.00	61.96	DS
ATOM	12905	CG	PRO	197	149.355	118.280	29.458	1.00	60.99	DS4	ATOM	12958	CG2	ILE	204	144.308	112.764	13.191	1.00	61.96	DS
ATOM	12906	C	PRO	197	148.851	119.058	26.638	1.00	60.99	DS4	ATOM	12959	CG1	ILE	204	143.869	113.425	15.579	1.00	61.96	DS
ATOM	12907	O	PRO	197	149.991	118.662	26.379	1.00	60.99	DS4	ATOM	12960	CD1	ILE	204	142.700	114.317	15.206	1.00	61.96	DS
ATOM	12908	N	VAL	198	147.813	118.834	25.848	1.00	48.13	DS4	ATOM	12961	C	ILE	204	147.033	112.164	13.842	1.00	43.64	DS
ATOM	12909	CA	VAL	198	147.961	118.054	24.638	1.00	48.13	DS4	ATOM	12962	O	ILE	204	146.997	111.164	13.131	1.00	43.64	DS
ATOM	12910	CB	VAL	198	147.293	116.679	24.808	1.00	59.82	DS4	ATOM	12963	N	GLU	205	147.937	113.125	13.706	1.00	55.08	DS
ATOM	12911	CG1	VAL	198	147.334	115.905	23.504	1.00	59.82	DS4	ATOM	12964	CA	GLU	205	148.952	113.066	12.675	1.00	55.08	DS
ATOM	12912	CG2	VAL	198	147.987	115.910	25.911	1.00	59.82	DS4	ATOM	12965	CB	GLU	205	149.769	114.351	12.667	1.00	77.59	DS
ATOM	12913	C	VAL	198	147.370	118.712	23.419	1.00	48.13	DS4	ATOM	12966	CG	GLU	205	149.012	115.527	12.112	1.00	77.59	DS
ATOM	12914	O	VAL	198	146.412	119.477	23.513	1.00	48.13	DS4	ATOM	12967	CD	GLU	205	149.804	116.810	12.188	1.00	77.59	DS
ATOM	12915	N	ASN	199	147.962	118.406	22.271	1.00	50.36	DS4	ATOM	12968	OE1	GLU	205	149.361	117.817	11.584	1.00	77.59	DS
ATOM	12916	CA	ASN	199	147.492	118.920	20.999	1.00	50.36	DS4	ATOM	12969	OE2	GLU	205	150.863	111.888	12.858	1.00	77.59	DS
ATOM	12917	CB	ASN	199	148.626	119.613	20.258	1.00	62.15	DS4	ATOM	12970	C	GLU	205	149.863	111.888	12.904	1.00	55.08	DS
ATOM	12918	CG	ASN	199	148.157	120.253	18.982	1.00	62.15	DS4	ATOM	12971	N	GLU	205	150.291	111.238	11.962	1.00	55.08	DS
ATOM	12919	OD1	ASN	199	147.305	119.702	18.280	1.00	62.15	DS4	ATOM	12972	O	PHE	206	150.157	111.610	14.163	1.00	54.31	DS
ATOM	12920	ND2	ASN	199	148.712	121.413	18.659	1.00	62.15	DS4	ATOM	12973	CA	PHE	206	151.042	110.507	14.488	1.00	54.31	DS
ATOM	12921	C	ASN	199	147.025	117.696	20.208	1.00	50.36	DS4	ATOM	12974	CB	PHE	206	151.166	110.364	15.991	1.00	32.80	DS
ATOM	12922	O	ASN	199	147.810	117.063	19.503	1.00	58.24	DS4	ATOM	12975	CG	PHE	206	151.970	109.190	16.414	1.00	32.80	DS
ATOM	12923	N	GLU	200	145.757	117.368	20.329	1.00	58.24	DS4	ATOM	12976	CD1	PHE	206	153.349	109.288	16.528	1.00	32.80	DS
ATOM	12924	CA	GLU	200	145.286	116.166	19.612	1.00	58.24	DS4	ATOM	12977	CD2	PHE	206	151.345	107.997	16.744	1.00	32.80	DS
ATOM	12925	CB	GLU	200	143.765	116.007	19.747	1.00	83.67	DS4	ATOM	12978	CE1	PHE	206	154.108	108.208	16.977	1.00	32.80	DS
ATOM	12926	CG	GLU	200	142.969	117.206	19.291	1.00	83.67	DS4	ATOM	12979	CE2	PHE	206	152.084	107.903	17.195	1.00	32.80	DS
ATOM	12927	CD	GLU	200	143.330	118.505	21.273	1.00	83.67	DS4	ATOM	12980	CZ	PHE	206	153.470	107.006	17.315	1.00	32.80	DS
ATOM	12928	OE1	GLU	200	141.275	118.347	20.501	1.00	83.67	DS4	ATOM	12981	C	PHE	206	150.549	109.201	13.910	1.00	54.31	DS
ATOM	12929	OE2	GLU	200	145.684	116.183	18.132	1.00	58.24	DS4	ATOM	12982	O	PHE	206	151.311	108.467	13.302	1.00	54.31	DS
ATOM	12930	C	GLU	200	145.898	115.114	17.542	1.00	58.24	DS4	ATOM	12983	N	TYR	207	149.277	108.901	14.114	1.00	49.90	DS
ATOM	12931	O	GLU	200	145.805	117.372	17.530	1.00	50.44	DS4	ATOM	12984	CA	TYR	207	148.729	107.670	13.595	1.00	49.90	DS
ATOM	12932	N	ASN	201	146.173	117.430	16.111	1.00	50.44	DS4	ATOM	12985	CB	TYR	207	147.435	107.309	14.319	1.00	53.02	DS
ATOM	12933	CA	ASN	201	146.369	118.871	15.639	1.00	81.85	DS4	ATOM	12986	CG	TYR	207	147.676	106.873	15.739	1.00	53.02	DS
ATOM	12934	CB	ASN	201	145.891	119.088	14.202	1.00	81.85	DS4	ATOM	12987	CD1	TYR	207	147.110	107.563	16.802	1.00	53.02	DS
ATOM	12935	CG	ASN	201	144.688	119.020	13.919	1.00	81.85	DS4	ATOM	12988	CE1	TYR	207	147.385	107.204	18.123	1.00	53.02	DS
ATOM	12936	OD1	ASN	201	146.829	119.351	13.292	1.00	81.85	DS4	ATOM	12989	CE2	TYR	207	148.524	105.797	16.029	1.00	53.02	DS
ATOM	12937	ND2	ASN	201	147.460	116.638	15.898	1.00	50.44	DS4	ATOM	12990	CE2	TYR	207	148.802	105.431	17.352	1.00	53.02	DS
ATOM	12938	C	ASN	201	147.558	115.833	14.967	1.00	50.44	DS4	ATOM	12991	CZ	TYR	207	148.229	106.146	18.386	1.00	53.02	DS
ATOM	12939	O	ASN	201	148.439	116.863	16.775	1.00	46.50	DS4	ATOM	12992	OH	TYR	207	148.511	105.832	19.685	1.00	53.02	DS
ATOM	12940	N	LEU	202	149.709	116.154	16.703	1.00	46.50	DS4	ATOM	12993	C	TYR	207	148.500	107.769	12.101	1.00	49.90	DS
ATOM	12941	CA	LEU	202	150.674	116.659	17.767	1.00	60.92	DS4	ATOM	12994	O	TYR	207	148.216	106.759	11.454	1.00	49.90	DS
ATOM	12942	CB	LEU	202	151.402	117.955	17.434	1.00	60.92	DS4	ATOM	12995	N	SER	208	148.621	108.979	11.551	1.00	49.96	DS
ATOM	12943	CG	LEU	202	152.103	117.797	16.100	1.00	60.92	DS4	ATOM	12996	CB	SER	208	148.460	109.177	10.107	1.00	49.96	DS
ATOM	12944	CD2	LEU	202	150.417	119.102	17.365	1.00	60.92	DS4	ATOM	12997	CG	SER	208	148.565	110.652	9.729	1.00	118.65	DS
ATOM	12945	C	LEU	202	149.501	114.664	16.905	1.00	46.50	DS4	ATOM	12998	OG	SER	208	147.408	111.356	10.131	1.00	118.65	DS
ATOM	12946	O	LEU	202	148.511	114.292	17.713	1.00	43.80	DS4	ATOM	12999	C	SER	208	149.570	108.405	9.423	1.00	49.96	DS
ATOM	12947	N	VAL	203	148.265	112.875	17.957	1.00	43.80	DS4	ATOM	13000	O	SER	208	149.300	107.544	8.591	1.00	49.96	DS
ATOM	12948	CA	VAL	203	147.326	112.642	19.170	1.00	49.42	DS4	ATOM	13001	N	ARG	209	150.816	108.708	9.784	1.00	95.70	DS
ATOM	12949	CB	VAL	203						DS4	ATOM	13002	CA	ARG	209	151.976	108.020	9.222	1.00	95.70	DS
ATOM	12950									DS4	ATOM	13003	CB	ARG	209	153.218	108.256	10.091	1.00	82.26	DS

ATOM	13004	CG	ARG	209	154.289	107.165	9.982	1.00	82.26	DS4	ATOM	13057	CD2	LEU	9	147.196	99.321	-21.513	1.00	38.31	LS
ATOM	13005	CE	ARG	209	155.354	107.311	11.056	1.00	82.26	DS4	ATOM	13058	C	LEU	9	144.619	97.690	-24.037	1.00	38.37	LS
ATOM	13006	NE	ARG	209	156.512	108.060	10.582	1.00	82.26	DS4	ATOM	13059	O	LEU	9	144.669	96.731	-23.287	1.00	38.37	LS
ATOM	13007	CZ	ARG	209	157.503	107.529	9.870	1.00	82.26	DS4	ATOM	13060	N	VAL	10	143.642	97.869	-24.912	1.00	46.18	LS
ATOM	13008	NH1	ARG	209	157.478	106.239	9.552	1.00	82.26	DS4	ATOM	13061	CA	VAL	10	142.545	96.926	-25.012	1.00	46.18	LS
ATOM	13009	NH2	ARG	209	158.520	108.286	9.479	1.00	82.26	DS4	ATOM	13062	CB	VAL	10	141.386	97.516	-25.795	1.00	29.16	LS
ATOM	13010	C	ARG	209	151.694	106.527	9.156	1.00	95.70	DS4	ATOM	13063	CG1	VAL	10	140.352	96.444	-26.046	1.00	29.16	LS
ATOM	13011	O	ARG	209	151.815	105.959	8.046	1.00	95.70	DS4	ATOM	13064	CG2	VAL	10	140.772	98.658	-25.012	1.00	29.16	LS
ATOM	13012	OXT	ARG	209	151.360	105.952	10.221	1.00	82.26	DS4	ATOM	13065	C	VAL	10	142.985	95.663	-25.712	1.00	46.18	LS
ATOM	13013	CB	PRO	4	150.067	101.576	-25.080	1.00	24.93	LS12	ATOM	13066	O	VAL	10	142.514	94.571	-25.403	1.00	46.18	LS
ATOM	13014	CG	PRO	4	150.028	101.570	-23.532	1.00	24.93	LS12	ATOM	13067	N	ARG	11	143.892	95.823	-26.665	1.00	49.31	LS
ATOM	13015	C	PRO	4	148.829	103.706	-25.499	1.00	21.67	LS12	ATOM	13068	CA	ARG	11	144.390	94.702	-27.438	1.00	49.31	LS
ATOM	13016	O	PRO	4	148.324	104.274	-24.541	1.00	21.67	LS12	ATOM	13069	CB	ARG	11	144.986	95.191	-28.755	1.00	38.63	LS
ATOM	13017	N	PRO	4	150.926	103.642	-24.219	1.00	21.67	LS12	ATOM	13070	CG	ARG	11	144.034	95.911	-29.661	1.00	38.63	LS
ATOM	13018	CD	PRO	4	151.083	102.625	-23.155	1.00	24.93	LS12	ATOM	13071	CD	ARG	11	144.593	95.969	-31.068	1.00	38.63	LS
ATOM	13019	CA	PRO	4	150.199	103.061	-25.369	1.00	21.67	LS12	ATOM	13072	NE	ARG	11	145.857	96.704	-31.140	1.00	38.63	LS
ATOM	13020	N	THR	5	148.220	103.608	-26.675	1.00	21.49	LS12	ATOM	13073	CZ	ARG	11	147.007	96.181	-31.556	1.00	38.63	LS
ATOM	13021	CA	THR	5	146.901	104.191	-26.886	1.00	21.49	LS12	ATOM	13074	NH1	ARG	11	147.058	94.910	-31.936	1.00	38.63	LS
ATOM	13022	CG	THR	5	146.497	104.154	-28.347	1.00	18.30	LS12	ATOM	13075	NH2	ARG	11	148.100	96.927	-31.609	1.00	38.63	LS
ATOM	13023	O	THR	5	147.573	104.736	-29.213	1.00	18.30	LS12	ATOM	13076	C	ARG	11	145.455	93.911	-26.706	1.00	49.31	LS
ATOM	13024	CG2	THR	5	145.923	103.329	-26.112	1.00	21.49	LS12	ATOM	13077	N	LYS	12	146.307	94.603	-25.954	1.00	43.64	LS
ATOM	13025	C	THR	5	146.285	102.239	-25.689	1.00	21.49	LS12	ATOM	13078	CA	LYS	12	147.407	93.938	-25.258	1.00	43.64	LS
ATOM	13026	O	THR	5	144.694	103.810	-25.914	1.00	37.71	LS12	ATOM	13079	CA	LYS	12	148.721	94.456	-25.825	1.00	76.30	LS
ATOM	13027	N	ILE	6	143.694	103.034	-25.175	1.00	37.71	LS12	ATOM	13080	CB	LYS	12	148.802	94.249	-27.328	1.00	76.30	LS
ATOM	13028	CA	ILE	6	142.391	103.862	-24.865	1.00	28.70	LS12	ATOM	13081	CG	LYS	12	150.077	94.809	-27.921	1.00	76.30	LS
ATOM	13029	CB	ILE	6	141.209	102.944	-24.574	1.00	28.70	LS12	ATOM	13082	CD	LYS	12	150.283	94.311	-29.341	1.00	76.30	LS
ATOM	13030	CG2	ILE	6	142.585	104.698	-22.614	1.00	28.70	LS12	ATOM	13083	CE	LYS	12	151.502	94.934	-29.949	1.00	76.30	LS
ATOM	13031	CG1	ILE	6	142.826	103.864	-22.413	1.00	28.70	LS12	ATOM	13084	NZ	LYS	12	147.392	94.061	-23.738	1.00	43.64	LS
ATOM	13032	C	ILE	6	143.322	101.816	-25.994	1.00	37.71	LS12	ATOM	13085	O	LYS	12	147.953	93.226	-23.029	1.00	43.64	LS
ATOM	13033	C	ILE	6	142.930	100.805	-25.443	1.00	37.71	LS12	ATOM	13086	N	GLY	13	146.752	95.101	-23.229	1.00	34.18	LS
ATOM	13034	O	ILE	6	143.451	101.901	-27.310	1.00	41.66	LS12	ATOM	13087	C	GLY	13	146.680	95.250	-21.792	1.00	34.18	LS
ATOM	13035	N	ASN	7	143.103	100.751	-28.130	1.00	41.66	LS12	ATOM	13088	CA	GLY	13	148.034	95.324	-21.139	1.00	34.18	LS
ATOM	13036	CA	ASN	7	142.954	101.148	-29.584	1.00	46.75	LS12	ATOM	13089	C	GLY	13	149.063	95.253	-21.808	1.00	34.18	LS
ATOM	13037	CB	ASN	7	142.327	100.066	-30.406	1.00	46.75	LS12	ATOM	13090	O	GLY	13	148.026	95.478	-19.820	1.00	37.98	LS
ATOM	13038	CG	ASN	7	141.227	99.624	-30.116	1.00	46.75	LS12	ATOM	13091	N	ARG	14	149.256	95.572	-19.051	1.00	37.98	LS
ATOM	13039	ND1	ASN	7	143.021	99.632	-31.440	1.00	46.75	LS12	ATOM	13092	CA	ARG	14	148.668	97.534	-17.904	1.00	40.40	LS
ATOM	13040	ND2	ASN	7	144.170	99.673	-28.006	1.00	41.66	LS12	ATOM	13093	CB	ARG	14	149.037	96.534	-17.904	1.00	40.40	LS
ATOM	13041	C	ASN	7	145.419	100.102	-27.853	1.00	47.37	LS12	ATOM	13094	CG	ARG	14	149.824	98.623	-19.054	1.00	40.40	LS
ATOM	13042	O	ASN	7	143.871	98.474	-28.052	1.00	41.66	LS12	ATOM	13095	CD	ARG	14	149.520	100.022	-19.330	1.00	40.40	LS
ATOM	13043	N	GLN	8	146.506	99.155	-27.695	1.00	47.37	LS12	ATOM	13096	NE	ARG	14	150.411	100.932	-19.721	1.00	40.40	LS
ATOM	13044	CA	GLN	8	147.854	99.861	-27.742	1.00	42.15	LS12	ATOM	13097	CZ	ARG	14	151.683	100.598	-19.893	1.00	40.40	LS
ATOM	13045	CB	GLN	8	148.166	100.484	-29.074	1.00	42.15	LS12	ATOM	13098	NH1	ARG	14	150.034	102.186	-19.931	1.00	40.40	LS
ATOM	13046	CG	GLN	8	149.494	102.108	-28.241	1.00	42.15	LS12	ATOM	13099	NH2	ARG	14	149.674	94.206	-18.534	1.00	37.98	LS
ATOM	13047	CD	GLN	8	150.371	100.844	-30.003	1.00	42.15	LS12	ATOM	13100	C	ARG	14	148.856	93.302	-18.452	1.00	37.98	LS
ATOM	13048	OE1	GLN	8	146.333	98.494	-26.346	1.00	47.37	LS12	ATOM	13101	O	ARG	14	150.951	92.047	-18.210	1.00	35.19	LS
ATOM	13049	NE2	GLN	8	146.584	97.301	-26.197	1.00	47.37	LS12	ATOM	13102	N	GLU	15	151.456	92.774	-17.703	1.00	35.19	LS
ATOM	13050	C	GLN	8	145.903	99.272	-25.359	1.00	38.37	LS12	ATOM	13103	CA	GLU	15	152.753	92.398	-18.398	1.00	89.26	LS
ATOM	13051	O	GLN	9	145.697	98.736	-24.042	1.00	38.37	LS12	ATOM	13104	CB	GLU	15	153.290	91.059	-17.963	1.00	89.26	LS
ATOM	13052	N	LEU	9	145.333	99.845	-23.005	1.00	38.31	LS12	ATOM	13105	CG	GLU	15	154.630	90.750	-18.584	1.00	89.26	LS
ATOM	13053	CA	LEU	9	146.626	100.390	-22.446	1.00	38.31	LS12	ATOM	13106	CD	GLU	15	155.642	91.324	-18.134	1.00	89.26	LS
ATOM	13054	CB	LEU	9	146.397	101.687	-21.707	1.00	38.31	LS12	ATOM	13107	OE1	GLU	15	154.670	89.940	-19.533	1.00	89.26	LS
ATOM	13055	CG	LEU	9							ATOM	13108	OE2	GLU	15	151.710	92.857	-16.210	1.00	35.19	LS
ATOM	13056	CD1	LEU	9							ATOM	13109	C	GLU	15						LS

ATOM	13110	O	GLU	15	152.484	93.700	-15.768	1.00	35.19	LS12	ATOM	13163	CA	LVS	22	165.251	85.023	-2.697	1.00	53.64	LS
ATOM	13111	N	LVS	16	151.063	91.983	-15.438	1.00	38.69	LS12	ATOM	13164	CB	LVS	22	165.602	86.451	-2.289	1.00	78.03	LS
ATOM	13112	CA	LVS	16	151.224	91.975	-13.989	1.00	38.69	LS12	ATOM	13165	CG	LVS	22	165.265	87.420	-3.402	1.00	78.03	LS
ATOM	13113	CB	LVS	16	150.343	90.909	-13.353	1.00	47.00	LS12	ATOM	13166	CD	LVS	22	165.747	88.829	-3.147	1.00	78.03	LS
ATOM	13114	CG	LVS	16	148.853	91.050	-13.579	1.00	47.00	LS12	ATOM	13167	CE	LVS	22	165.461	89.703	-4.369	1.00	78.03	LS
ATOM	13115	CD	LVS	16	148.242	92.103	-12.691	1.00	47.00	LS12	ATOM	13168	NZ	LVS	22	165.937	91.115	-4.210	1.00	78.03	LS
ATOM	13116	CE	LVS	16	146.722	92.041	-12.754	1.00	47.00	LS12	ATOM	13169	C	LVS	22	165.684	84.012	-1.651	1.00	53.64	LS
ATOM	13117	NZ	LVS	16	146.182	90.732	-12.286	1.00	47.00	LS12	ATOM	13170	O	LVS	22	166.769	84.105	-1.085	1.00	53.64	LS
ATOM	13118	C	LVS	16	152.657	91.658	-13.632	1.00	38.69	LS12	ATOM	13171	N	VAL	23	164.821	83.022	-1.437	1.00	47.00	LS
ATOM	13119	O	LVS	16	153.349	90.976	-14.377	1.00	38.69	LS12	ATOM	13172	CA	VAL	23	165.043	81.998	-0.435	1.00	47.00	LS
ATOM	13120	N	VAL	17	153.113	92.139	-12.487	1.00	80.51	LS12	ATOM	13173	CB	VAL	23	164.486	82.469	0.935	1.00	42.43	LS
ATOM	13121	CB	VAL	17	154.473	91.839	-12.065	1.00	80.51	LS12	ATOM	13174	CG1	VAL	23	164.491	81.335	1.946	1.00	42.43	LS
ATOM	13122	CG	VAL	17	155.008	92.933	-11.130	1.00	88.52	LS12	ATOM	13175	CG2	VAL	23	165.337	83.587	1.462	1.00	42.43	LS
ATOM	13123	CG1	VAL	17	156.293	92.472	-10.462	1.00	88.52	LS12	ATOM	13176	C	VAL	23	164.417	80.652	-0.802	1.00	47.00	LS
ATOM	13124	CG2	VAL	17	155.255	94.202	-11.930	1.00	88.52	LS12	ATOM	13177	O	VAL	23	163.463	80.188	-0.168	1.00	44.71	LS
ATOM	13125	C	VAL	17	154.496	90.495	-11.338	1.00	80.51	LS12	ATOM	13178	N	PRO	24	164.918	80.024	-1.869	1.00	44.71	LS
ATOM	13126	O	VAL	17	153.536	90.138	-10.658	1.00	80.51	LS12	ATOM	13179	CD	PRO	24	165.705	80.605	-2.977	1.00	36.19	LS
ATOM	13127	N	ARG	18	155.579	89.741	-11.492	1.00	67.67	LS12	ATOM	13180	CA	PRO	24	164.332	78.721	-2.220	1.00	44.71	LS
ATOM	13128	CA	ARG	18	155.699	88.444	-10.820	1.00	67.67	LS12	ATOM	13181	CB	PRO	24	165.266	79.780	-4.148	1.00	36.19	LS
ATOM	13129	CB	ARG	18	155.823	87.308	-11.843	1.00	41.95	LS12	ATOM	13182	CG	PRO	24	165.020	78.380	-3.521	1.00	36.19	LS
ATOM	13130	CG	ARG	18	155.177	87.590	-13.201	1.00	41.95	LS12	ATOM	13183	C	PRO	24	164.593	77.687	-1.101	1.00	44.71	LS
ATOM	13131	CD	ARG	18	153.652	87.823	-13.156	1.00	41.95	LS12	ATOM	13184	O	PRO	24	165.653	77.039	-1.017	1.00	44.71	LS
ATOM	13132	NE	ARG	18	153.124	88.293	-14.381	1.00	41.95	LS12	ATOM	13185	N	ALA	25	163.608	77.635	-0.201	1.00	72.87	LS
ATOM	13133	C2	ARG	18	151.839	88.315	-14.727	1.00	41.95	LS12	ATOM	13186	CA	ALA	25	163.502	76.749	0.972	1.00	72.87	LS
ATOM	13134	NH1	ARG	18	150.930	87.750	-13.942	1.00	41.95	LS12	ATOM	13187	CB	ALA	25	163.452	77.586	2.290	1.00	20.49	LS
ATOM	13135	NH2	ARG	18	151.457	88.915	-15.851	1.00	41.95	LS12	ATOM	13188	C	ALA	25	162.107	76.275	0.628	1.00	72.87	LS
ATOM	13136	C	ARG	18	156.961	88.510	-9.969	1.00	67.67	LS12	ATOM	13189	O	ALA	25	161.256	76.113	1.501	1.00	72.87	LS
ATOM	13137	O	ARG	18	158.051	88.729	-10.485	1.00	67.67	LS12	ATOM	13190	N	LEU	26	161.920	76.099	-0.685	1.00	54.25	LS
ATOM	13138	N	LVS	19	156.821	88.332	-8.663	1.00	70.41	LS12	ATOM	13191	CA	LEU	26	160.668	75.741	-1.345	1.00	54.25	LS
ATOM	13139	CA	LVS	19	157.992	88.400	-7.795	1.00	70.41	LS12	ATOM	13192	CB	LEU	26	160.726	74.389	-2.071	1.00	69.11	LS
ATOM	13140	CB	LVS	19	157.610	88.912	-6.404	1.00	134.58	LS12	ATOM	13193	CG	LEU	26	161.345	73.115	-1.533	1.00	69.11	LS
ATOM	13141	CG	LVS	19	157.201	90.377	-6.411	1.00	134.58	LS12	ATOM	13194	CD1	LEU	26	160.952	71.929	-2.422	1.00	69.11	LS
ATOM	13142	CD	LVS	19	158.238	91.225	-7.144	1.00	134.58	LS12	ATOM	13195	CD2	LEU	26	162.850	73.294	-1.512	1.00	69.11	LS
ATOM	13143	CE	LVS	19	157.768	92.654	-7.291	1.00	134.58	LS12	ATOM	13196	C	LEU	26	159.455	75.809	-0.481	1.00	54.25	LS
ATOM	13144	N2	LVS	19	158.752	93.496	-8.029	1.00	134.58	LS12	ATOM	13197	O	LEU	26	159.391	76.665	0.389	1.00	54.25	LS
ATOM	13145	C	LVS	19	158.762	87.095	-7.677	1.00	70.41	LS12	ATOM	13198	N	LVS	27	158.495	74.923	-0.739	1.00	43.57	LS
ATOM	13146	O	LVS	19	158.190	86.002	-7.756	1.00	70.41	LS12	ATOM	13199	CA	LVS	27	157.237	74.899	-0.004	1.00	43.57	LS
ATOM	13147	N	LVS	20	160.069	87.233	-7.470	1.00	53.66	LS12	ATOM	13200	CB	LVS	27	157.057	73.569	0.749	1.00	133.32	LS
ATOM	13148	CA	LVS	20	160.963	86.094	-7.383	1.00	53.66	LS12	ATOM	13201	CG	LVS	27	158.259	73.069	1.527	1.00	133.32	LS
ATOM	13149	CB	LVS	20	162.089	86.269	-8.396	1.00	92.59	LS12	ATOM	13202	CD	LVS	27	157.843	71.968	2.499	1.00	133.32	LS
ATOM	13150	CG	LVS	20	162.760	84.984	-8.814	1.00	92.59	LS12	ATOM	13203	CE	LVS	27	157.125	70.811	1.800	1.00	133.32	LS
ATOM	13151	CD	LVS	20	163.298	85.143	-10.223	1.00	92.59	LS12	ATOM	13204	NZ	LVS	27	156.668	69.763	2.768	1.00	133.32	LS
ATOM	13152	CE	LVS	20	162.185	85.572	-11.194	1.00	92.59	LS12	ATOM	13205	C	LVS	27	157.163	75.088	0.947	1.00	143.57	LS
ATOM	13153	NZ	LVS	20	162.652	85.764	-12.536	1.00	92.59	LS12	ATOM	13206	O	LVS	27	156.910	75.938	2.145	1.00	143.57	LS
ATOM	13154	C	LVS	20	161.552	85.903	-6.002	1.00	53.66	LS12	ATOM	13207	N	GLY	28	157.403	77.267	0.370	1.00	57.14	LS
ATOM	13155	O	LVS	20	162.251	86.775	-5.494	1.00	53.66	LS12	ATOM	13208	CA	GLY	28	157.395	78.523	1.097	1.00	57.14	LS
ATOM	13156	N	SER	21	161.289	84.743	-5.410	1.00	52.61	LS12	ATOM	13209	C	GLY	28	157.378	78.333	2.587	1.00	57.14	LS
ATOM	13157	CA	SER	21	161.807	84.452	-4.087	1.00	52.61	LS12	ATOM	13210	O	GLY	28	156.443	78.762	3.273	1.00	57.14	LS
ATOM	13158	CB	SER	21	161.427	83.055	-3.643	1.00	52.54	LS12	ATOM	13211	N	ALA	29	158.413	77.675	3.088	1.00	47.18	LS
ATOM	13159	OG	SER	21	161.991	82.808	-2.372	1.00	52.54	LS12	ATOM	13212	CA	ALA	29	158.501	77.409	4.510	1.00	47.18	LS
ATOM	13160	C	SER	21	163.306	84.561	-4.031	1.00	52.61	LS12	ATOM	13213	CB	ALA	29	159.152	76.067	4.742	1.00	83.24	LS
ATOM	13161	O	SER	21	163.995	84.331	-5.020	1.00	52.61	LS12	ATOM	13214	C	ALA	29	159.273	78.498	5.214	1.00	47.18	LS
ATOM	13162	N	LVS	22	163.816	84.911	-2.863	1.00	53.64	LS12	ATOM	13215	O	ALA	29	160.139	79.142	4.633	1.00	47.18	LS

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ATOM	13216	N	PRO	30	158.934	78.749	6.472	1.00	37.70	LS12	ATOM	13269	CB	CYS	36	176.991	70.580	9.052	1.00	70.35	LS
ATOM	13217	CD	PRO	30	157.747	78.254	7.182	1.00	25.78	LS12	ATOM	13270	SG	CYS	36	176.149	71.896	9.954	1.00	70.35	LS
ATOM	13218	CA	PRO	30	159.630	79.782	7.238	1.00	37.70	LS12	ATOM	13271	C	CYS	36	177.001	69.073	7.048	1.00	53.58	LS
ATOM	13219	CB	PRO	30	158.743	79.967	8.471	1.00	25.78	LS12	ATOM	13272	N	CYS	36	177.165	67.919	7.447	1.00	53.58	LS
ATOM	13220	CG	PRO	30	158.059	78.625	8.606	1.00	25.78	LS12	ATOM	13273	N	THR	37	177.485	69.536	5.905	1.00	69.50	LS
ATOM	13221	C	PRO	30	161.040	79.324	7.592	1.00	37.70	LS12	ATOM	13274	CA	THR	37	178.269	68.752	4.965	1.00	69.50	LS
ATOM	13222	O	PRO	30	161.964	80.140	7.661	1.00	37.70	LS12	ATOM	13275	CB	THR	37	177.448	68.500	3.705	1.00	70.41	LS
ATOM	13223	N	PHE	31	161.195	78.020	7.813	1.00	59.39	LS12	ATOM	13276	OG1	THR	37	176.343	67.647	4.032	1.00	70.41	LS
ATOM	13224	CA	PHE	31	162.492	77.434	8.148	1.00	59.39	LS12	ATOM	13277	CG2	THR	37	178.301	67.871	2.619	1.00	70.41	LS
ATOM	13225	CG	PHE	31	162.658	77.274	9.652	1.00	37.56	LS12	ATOM	13278	C	THR	37	179.457	69.623	4.611	1.00	69.50	LS
ATOM	13226	CB	PHE	31	162.348	78.501	10.420	1.00	37.56	LS12	ATOM	13279	N	THR	37	179.693	69.915	3.441	1.00	69.50	LS
ATOM	13227	CD1	PHE	31	163.216	79.576	10.405	1.00	37.56	LS12	ATOM	13280	N	VAL	38	180.177	70.043	5.645	1.00	52.73	LS
ATOM	13228	CD2	PHE	31	161.162	78.595	11.138	1.00	37.56	LS12	ATOM	13281	CA	VAL	38	181.336	70.928	5.549	1.00	52.73	LS
ATOM	13229	CE1	PHE	31	162.902	80.724	11.090	1.00	37.56	LS12	ATOM	13282	CB	VAL	38	181.643	71.408	4.114	1.00	58.12	LS
ATOM	13230	CE2	PHE	31	160.840	79.733	11.826	1.00	37.56	LS12	ATOM	13283	CG1	VAL	38	182.545	72.624	4.167	1.00	58.12	LS
ATOM	13231	CE2	PHE	31	161.703	80.802	11.807	1.00	37.56	LS12	ATOM	13284	CG2	VAL	38	182.342	70.319	3.332	1.00	58.12	LS
ATOM	13232	C	PHE	31	162.593	76.057	7.533	1.00	59.39	LS12	ATOM	13285	C	VAL	38	180.999	72.168	6.349	1.00	52.73	LS
ATOM	13233	O	PHE	31	161.587	75.473	7.124	1.00	59.39	LS12	ATOM	13286	O	VAL	39	179.929	72.748	7.217	1.00	41.53	LS
ATOM	13234	N	ARG	32	163.809	75.524	7.500	1.00	40.54	LS12	ATOM	13287	N	VAL	39	181.920	72.571	8.043	1.00	41.53	LS
ATOM	13235	CA	ARG	32	164.026	74.203	6.933	1.00	40.54	LS12	ATOM	13288	CA	VAL	39	181.740	73.754	9.515	1.00	32.07	LS
ATOM	13236	CB	ARG	32	164.290	74.333	5.427	1.00	70.85	LS12	ATOM	13289	CB	VAL	39	181.576	73.346	10.398	1.00	32.07	LS
ATOM	13237	CG	ARG	32	163.496	73.363	4.577	1.00	70.85	LS12	ATOM	13290	CG1	VAL	39	181.488	74.567	9.669	1.00	32.07	LS
ATOM	13238	CD	ARG	32	162.019	73.403	4.948	1.00	70.85	LS12	ATOM	13291	CG2	VAL	39	180.316	72.496	7.837	1.00	41.53	LS
ATOM	13239	NE	ARG	32	161.354	72.142	4.630	1.00	70.85	LS12	ATOM	13292	C	VAL	39	182.992	74.591	7.837	1.00	41.53	LS
ATOM	13240	CE2	ARG	32	160.910	71.808	3.421	1.00	70.85	LS12	ATOM	13293	O	VAL	39	183.890	74.583	8.657	1.00	41.53	LS
ATOM	13241	NH1	ARG	32	161.047	72.651	2.404	1.00	70.85	LS12	ATOM	13294	N	ARG	40	183.029	75.310	6.720	1.00	53.57	LS
ATOM	13242	NH2	ARG	32	160.348	70.619	3.226	1.00	70.85	LS12	ATOM	13295	CA	ARG	40	184.168	76.134	6.313	1.00	53.57	LS
ATOM	13243	C	ARG	32	165.212	73.583	7.640	1.00	40.54	LS12	ATOM	13296	CB	ARG	40	184.059	76.388	4.807	1.00	117.50	LS
ATOM	13244	O	ARG	32	166.180	74.276	7.918	1.00	40.54	LS12	ATOM	13297	CG	ARG	40	185.292	76.962	4.154	1.00	117.50	LS
ATOM	13245	N	ARG	33	165.148	72.294	7.960	1.00	49.75	LS12	ATOM	13298	CD	ARG	40	185.254	76.682	2.671	1.00	117.50	LS
ATOM	13246	CA	ARG	33	166.292	71.678	8.629	1.00	49.75	LS12	ATOM	13299	NE	ARG	40	185.102	75.250	2.422	1.00	117.50	LS
ATOM	13247	CB	ARG	33	165.852	70.774	9.780	1.00	72.37	LS12	ATOM	13300	CH	ARG	40	185.060	74.694	1.213	1.00	117.50	LS
ATOM	13248	CG	ARG	33	165.152	69.543	9.320	1.00	72.37	LS12	ATOM	13301	NH1	ARG	40	185.158	75.454	0.127	1.00	117.50	LS
ATOM	13249	CD	ARG	33	165.305	68.410	10.299	1.00	72.37	LS12	ATOM	13302	NH2	ARG	40	184.924	73.377	1.089	1.00	117.50	LS
ATOM	13250	NE	ARG	33	164.794	67.186	9.636	1.00	72.37	LS12	ATOM	13303	C	ARG	40	183.675	77.766	8.020	1.00	53.57	LS
ATOM	13251	CE2	ARG	33	164.762	65.998	10.289	1.00	72.37	LS12	ATOM	13304	O	ARG	41	185.350	78.235	6.556	1.00	80.85	LS
ATOM	13252	NH1	ARG	33	165.220	65.845	11.531	1.00	72.37	LS12	ATOM	13305	CA	THR	41	185.719	79.544	7.097	1.00	80.85	LS
ATOM	13253	NH2	ARG	33	164.255	64.959	9.637	1.00	72.37	LS12	ATOM	13306	CA	THR	41	187.249	79.722	7.210	1.00	96.58	LS
ATOM	13254	C	ARG	33	167.156	70.875	7.662	1.00	49.75	LS12	ATOM	13307	CB	THR	41	187.773	78.818	8.188	1.00	96.58	LS
ATOM	13255	O	ARG	33	166.728	70.508	6.560	1.00	49.75	LS12	ATOM	13308	OG1	THR	41	187.584	81.133	7.633	1.00	96.58	LS
ATOM	13256	N	GLY	34	168.383	70.610	8.085	1.00	63.40	LS12	ATOM	13309	CG2	THR	41	185.184	80.683	6.239	1.00	80.85	LS
ATOM	13257	CA	GLY	34	169.297	69.865	7.248	1.00	63.40	LS12	ATOM	13310	C	THR	41	184.405	81.476	6.731	1.00	80.85	LS
ATOM	13258	C	GLY	34	170.509	69.445	8.043	1.00	63.40	LS12	ATOM	13311	O	THR	41	185.609	80.796	4.978	1.00	46.46	LS
ATOM	13259	O	GLY	34	170.507	69.532	9.279	1.00	63.40	LS12	ATOM	13312	N	VAL	42	185.095	81.869	4.102	1.00	46.46	LS
ATOM	13260	N	VAL	35	171.546	68.994	7.342	1.00	55.92	LS12	ATOM	13313	CB	VAL	42	183.552	81.847	4.076	1.00	44.62	LS
ATOM	13261	CA	VAL	35	172.766	68.552	8.005	1.00	55.92	LS12	ATOM	13314	CB	VAL	42	183.059	80.804	3.097	1.00	44.62	LS
ATOM	13262	CB	VAL	35	172.965	67.038	7.884	1.00	43.87	LS12	ATOM	13315	CG1	VAL	42	185.496	83.314	4.437	1.00	46.46	LS
ATOM	13263	CG1	VAL	35	173.971	66.590	8.904	1.00	43.87	LS12	ATOM	13316	CG2	VAL	42	185.256	83.775	5.551	1.00	46.46	LS
ATOM	13264	CG2	VAL	35	171.658	66.309	8.072	1.00	55.92	LS12	ATOM	13317	C	VAL	42	186.064	84.045	3.474	1.00	56.80	LS
ATOM	13265	C	VAL	35	174.088	69.471	6.231	1.00	55.92	LS12	ATOM	13318	N	THR	43	186.453	85.449	3.713	1.00	56.80	LS
ATOM	13266	O	VAL	35	174.971	69.470	8.289	1.00	53.58	LS12	ATOM	13319	CA	THR	43	187.848	85.804	3.101	1.00	47.64	LS
ATOM	13267	N	CYS	36	176.199	70.085	7.848	1.00	53.58	LS12	ATOM	13320	CA	THR	43						
ATOM	13268	CA	CYS	36						LS12	ATOM	13321	CB	THR	43						

ATOM	13322	OGI	THR	43	187.720	86.014	1.686	1.00	47.64	LS12	ATOM	13375	C	ALA	50	187.016	87.123	8.050	1.00	48.18	LS
ATOM	13323	CG2	THR	43	188.850	84.693	3.354	1.00	47.64	LS12	ATOM	13376	O	ALA	50	187.031	86.818	6.862	1.00	48.18	LS
ATOM	13324	C	THR	43	185.412	86.380	3.081	1.00	56.80	LS12	ATOM	13377	N	LEU	51	186.881	86.213	9.008	1.00	42.63	LS
ATOM	13325	O	THR	43	184.782	86.022	2.092	1.00	56.80	LS12	ATOM	13378	CA	LEU	51	186.731	84.818	8.628	1.00	42.63	LS
ATOM	13326	N	PRO	44	185.228	87.589	3.636	1.00	42.01	LS12	ATOM	13379	CB	LEU	51	187.756	83.953	9.367	1.00	69.16	LS
ATOM	13327	CD	PRO	44	185.944	88.184	4.774	1.00	52.50	LS12	ATOM	13380	CG	LEU	51	189.247	84.245	9.127	1.00	69.16	LS
ATOM	13328	CA	PRO	44	184.250	88.535	3.097	1.00	42.01	LS12	ATOM	13381	CD1	LEU	51	190.093	83.267	9.916	1.00	69.16	LS
ATOM	13329	CB	PRO	44	184.188	89.614	4.175	1.00	52.50	LS12	ATOM	13382	CD2	LEU	51	189.580	84.128	7.652	1.00	69.16	LS
ATOM	13330	CG	PRO	44	185.578	89.646	4.668	1.00	52.50	LS12	ATOM	13383	C	LEU	51	185.319	84.366	8.945	1.00	42.63	LS
ATOM	13331	C	PRO	44	184.645	89.081	1.729	1.00	42.01	LS12	ATOM	13384	O	LEU	51	185.113	83.582	9.868	1.00	42.63	LS
ATOM	13332	N	PRO	44	185.734	88.784	1.239	1.00	42.01	LS12	ATOM	13385	N	ARG	52	184.345	84.858	8.178	1.00	55.51	LS
ATOM	13333	N	LYS	45	183.759	89.890	1.141	1.00	47.71	LS12	ATOM	13386	CA	ARG	52	182.935	85.520	8.406	1.00	55.51	LS
ATOM	13334	CA	LYS	45	183.942	90.465	-0.199	1.00	47.71	LS12	ATOM	13387	CB	ARG	52	182.054	85.121	7.296	1.00	64.21	LS
ATOM	13335	CB	LYS	45	182.639	90.359	-0.993	1.00	179.82	LS12	ATOM	13388	CG	ARG	52	181.738	86.599	7.455	1.00	64.21	LS
ATOM	13336	CG	LYS	45	181.996	88.989	-0.960	1.00	179.82	LS12	ATOM	13389	CD	ARG	52	182.998	87.401	7.348	1.00	64.21	LS
ATOM	13337	CD	LYS	45	180.594	89.022	-1.552	1.00	179.82	LS12	ATOM	13390	NE	ARG	52	182.961	88.607	8.174	1.00	64.21	LS
ATOM	13338	CE	LYS	45	180.621	88.918	-3.068	1.00	179.82	LS12	ATOM	13391	CZ	ARG	52	182.291	89.710	7.870	1.00	64.21	LS
ATOM	13339	NZ	LYS	45	179.261	88.738	-3.634	1.00	47.71	LS12	ATOM	13392	NH1	ARG	52	181.575	89.777	6.745	1.00	64.21	LS
ATOM	13340	C	LYS	45	184.382	91.916	-0.249	1.00	47.71	LS12	ATOM	13393	NH2	ARG	52	182.369	90.758	8.678	1.00	64.21	LS
ATOM	13341	O	LYS	45	185.011	92.416	0.676	1.00	47.71	LS12	ATOM	13394	C	ARG	52	182.639	83.026	8.512	1.00	55.51	LS
ATOM	13342	N	LYS	46	183.998	92.577	-1.347	1.00	89.84	LS12	ATOM	13395	N	ARG	53	182.707	82.316	7.525	1.00	55.51	LS
ATOM	13343	CA	LYS	46	184.316	93.987	-1.641	1.00	89.84	LS12	ATOM	13396	N	LYS	53	182.282	82.541	9.635	1.00	50.61	LS
ATOM	13344	CB	LYS	46	183.002	94.797	-1.878	1.00	58.81	LS12	ATOM	13397	CA	LYS	53	181.979	81.116	9.823	1.00	50.61	LS
ATOM	13345	CG	LYS	46	182.150	94.319	-3.138	1.00	58.81	LS12	ATOM	13398	CB	LYS	53	181.804	80.729	11.294	1.00	49.23	LS
ATOM	13346	CD	LYS	46	180.773	95.080	-3.359	1.00	58.81	LS12	ATOM	13399	CG	LYS	53	182.731	81.485	12.241	1.00	49.23	LS
ATOM	13347	CE	LYS	46	179.869	94.446	-4.461	1.00	58.81	LS12	ATOM	13400	CD	LYS	53	184.190	81.249	11.939	1.00	49.23	LS
ATOM	13348	NZ	LYS	46	180.239	94.722	-5.890	1.00	58.81	LS12	ATOM	13401	CE	LYS	53	185.010	82.496	12.223	1.00	49.23	LS
ATOM	13349	C	LYS	46	185.247	94.569	-0.562	1.00	89.84	LS12	ATOM	13402	NZ	LYS	53	184.751	83.066	13.558	1.00	49.23	LS
ATOM	13350	O	LYS	46	186.450	95.343	-0.652	1.00	89.84	LS12	ATOM	13403	C	LYS	53	180.710	80.765	9.024	1.00	50.61	LS
ATOM	13351	N	PRO	47	184.747	95.331	0.436	1.00	73.97	LS12	ATOM	13404	O	LYS	53	179.645	81.359	9.209	1.00	50.61	LS
ATOM	13352	CD	PRO	47	183.448	95.970	0.720	1.00	28.83	LS12	ATOM	13405	N	VAL	54	180.839	79.783	8.141	1.00	67.65	LS
ATOM	13353	CA	PRO	47	185.745	95.799	1.405	1.00	73.97	LS12	ATOM	13406	CA	VAL	54	179.746	79.355	7.291	1.00	67.65	LS
ATOM	13354	CB	PRO	47	185.286	97.213	1.724	1.00	28.83	LS12	ATOM	13407	CB	VAL	54	180.033	79.794	5.857	1.00	59.08	LS
ATOM	13355	CG	PRO	47	183.815	97.038	1.833	1.00	28.83	LS12	ATOM	13408	CG1	VAL	54	178.859	79.477	4.954	1.00	59.08	LS
ATOM	13356	C	PRO	47	185.528	94.841	2.569	1.00	73.97	LS12	ATOM	13409	CG2	VAL	54	180.344	81.268	5.840	1.00	59.08	LS
ATOM	13357	O	PRO	47	184.745	93.898	2.432	1.00	73.97	LS12	ATOM	13410	C	VAL	54	179.622	77.837	7.317	1.00	67.65	LS
ATOM	13358	N	ASN	48	186.184	95.051	3.700	1.00	48.70	LS12	ATOM	13411	O	VAL	54	180.580	77.147	7.660	1.00	67.65	LS
ATOM	13359	CA	ASN	48	185.988	94.131	4.820	1.00	48.70	LS12	ATOM	13412	N	ALA	55	178.447	77.318	6.960	1.00	53.16	LS
ATOM	13360	CB	ASN	48	184.526	93.747	4.956	1.00	48.60	LS12	ATOM	13413	CA	ALA	55	177.433	75.398	8.104	1.00	38.46	LS
ATOM	13361	CG	ASN	48	183.694	94.888	5.407	1.00	48.60	LS12	ATOM	13414	CB	ALA	55	177.482	75.500	5.616	1.00	53.16	LS
ATOM	13362	OD1	ASN	48	182.471	94.813	5.386	1.00	48.60	LS12	ATOM	13415	C	ALA	55	176.631	76.258	5.139	1.00	53.16	LS
ATOM	13363	CD2	ASN	48	184.354	95.975	5.833	1.00	48.70	LS12	ATOM	13416	O	ALA	55	177.813	74.347	5.045	1.00	46.78	LS
ATOM	13364	N	ASN	48	186.785	92.846	4.766	1.00	48.70	LS12	ATOM	13417	N	LYS	56	177.179	73.915	3.807	1.00	46.78	LS
ATOM	13365	O	ASN	48	186.854	92.171	3.736	1.00	48.70	LS12	ATOM	13418	CA	LYS	56	178.226	73.362	2.846	1.00	76.61	LS
ATOM	13366	N	SER	49	187.361	92.503	6.037	1.00	49.24	LS12	ATOM	13419	CB	LYS	56	177.683	72.549	0.579	1.00	76.61	LS
ATOM	13367	CA	SER	49	188.161	91.308	6.088	1.00	64.18	LS12	ATOM	13420	CD	LYS	56	178.822	72.549	-0.613	1.00	76.61	LS
ATOM	13368	CB	SER	49	189.635	91.686	6.434	1.00	64.18	LS12	ATOM	13421	CE	LYS	56	179.427	71.326	-1.505	1.00	76.61	LS
ATOM	13369	OG	SER	49	190.426	90.572	7.327	1.00	49.24	LS12	ATOM	13422	CZ	LYS	56	176.168	72.852	4.167	1.00	46.78	LS
ATOM	13370	C	SER	49	187.744	91.298	8.341	1.00	49.24	LS12	ATOM	13423	NZ	LYS	56	176.934	71.673	4.354	1.00	37.07	LS
ATOM	13371	O	SER	49	187.570	89.324	7.281	1.00	48.18	LS12	ATOM	13424	C	LYS	57	173.813	72.456	4.755	1.00	37.07	LS
ATOM	13372	N	ALA	50	187.172	88.577	8.459	1.00	48.18	LS12	ATOM	13425	O	VAL	57						
ATOM	13373	CA	ALA	50	185.870	89.115	8.997	1.00	60.34	LS12	ATOM	13426	N	VAL	57						
ATOM	13374	CB	ALA	50						LS12	ATOM	13427	CA	VAL	57						

ATOM	13428	CB	VAL	57	172.758	73.328	5.467	1.00	41.59	LS12	ATOM	13481	N	GLU	64	170.785	71.434	-0.463	1.00	50.53	LS
ATOM	13429	CG1	VAL	57	172.187	72.600	6.663	1.00	41.59	LS12	ATOM	13482	CA	GLU	64	172.220	71.507	-0.199	1.00	50.53	LS
ATOM	13430	CG2	VAL	57	173.382	74.666	5.869	1.00	41.59	LS12	ATOM	13483	CB	GLU	64	172.997	70.519	-1.086	1.00	50.53	LS
ATOM	13431	C	VAL	57	173.093	71.724	3.631	1.00	37.07	LS12	ATOM	13484	CG	GLU	64	172.750	69.023	-0.820	1.00	50.53	LS
ATOM	13432	O	VAL	57	172.831	72.302	2.590	1.00	37.07	LS12	ATOM	13485	CD	GLU	64	171.342	68.546	-1.187	1.00	50.53	LS
ATOM	13433	N	ARG	58	172.770	70.454	3.846	1.00	54.46	LS12	ATOM	13486	OE1	GLU	64	170.385	68.858	-0.444	1.00	50.53	LS
ATOM	13434	CA	ARG	58	171.988	69.680	2.875	1.00	54.46	LS12	ATOM	13487	OE2	GLU	64	171.194	67.857	-2.221	1.00	50.53	LS
ATOM	13435	CB	ARG	58	172.504	68.250	2.760	1.00	95.73	LS12	ATOM	13488	C	GLU	64	172.676	72.934	-0.497	1.00	50.53	LS
ATOM	13436	CG	ARG	58	171.534	67.323	2.058	1.00	95.73	LS12	ATOM	13489	N	GLU	64	173.079	73.260	-1.613	1.00	50.53	LS
ATOM	13437	CD	ARG	58	172.270	66.182	1.394	1.00	95.73	LS12	ATOM	13490	N	VAL	65	172.616	73.787	0.514	1.00	62.19	LS
ATOM	13438	CE	ARG	58	173.184	65.524	2.316	1.00	95.73	LS12	ATOM	13491	CA	VAL	65	172.998	75.172	0.332	1.00	62.19	LS
ATOM	13439	CZ	ARG	58	174.087	64.618	1.954	1.00	95.73	LS12	ATOM	13492	CB	VAL	65	171.737	76.050	0.337	1.00	67.77	LS
ATOM	13440	NH1	ARG	58	174.197	64.258	0.679	1.00	95.73	LS12	ATOM	13493	CG1	VAL	65	171.195	76.163	1.750	1.00	67.77	LS
ATOM	13441	NH2	ARG	58	174.884	64.076	2.867	1.00	95.73	LS12	ATOM	13494	CG2	VAL	65	172.040	77.408	-0.263	1.00	67.77	LS
ATOM	13442	C	ARG	58	170.575	69.685	3.479	1.00	54.46	LS12	ATOM	13495	C	VAL	65	173.970	75.644	-1.414	1.00	62.19	LS
ATOM	13443	O	ARG	58	170.366	69.156	4.575	1.00	54.46	LS12	ATOM	13496	N	VAL	65	174.258	74.928	2.367	1.00	62.19	LS
ATOM	13444	N	LEU	59	169.611	70.285	2.786	1.00	69.34	LS12	ATOM	13497	CA	THR	66	174.477	76.856	1.249	1.00	51.03	LS
ATOM	13445	CA	LEU	59	168.260	70.393	3.344	1.00	69.34	LS12	ATOM	13498	CB	THR	66	175.411	77.443	2.194	1.00	51.03	LS
ATOM	13446	CB	LEU	59	167.543	71.627	2.774	1.00	66.66	LS12	ATOM	13499	CG	THR	66	176.508	78.234	1.433	1.00	65.58	LS
ATOM	13447	CG	LEU	59	168.131	72.990	3.138	1.00	66.66	LS12	ATOM	13500	OG1	THR	66	177.791	77.813	1.898	1.00	65.58	LS
ATOM	13448	CD2	LEU	59	169.367	73.053	4.641	1.00	66.66	LS12	ATOM	13501	CG2	THR	66	176.368	79.743	3.140	1.00	65.58	LS
ATOM	13449	C	LEU	59	167.337	69.202	3.201	1.00	69.34	LS12	ATOM	13502	C	THR	66	174.638	78.366	2.701	1.00	51.03	LS
ATOM	13450	O	LEU	59	167.611	68.272	2.452	1.00	69.34	LS12	ATOM	13503	N	THR	66	173.798	79.154	2.701	1.00	51.03	LS
ATOM	13451	N	THR	60	166.235	69.238	3.943	1.00	63.05	LS12	ATOM	13504	CA	ALA	67	174.917	78.269	4.432	1.00	53.60	LS
ATOM	13452	CA	THR	60	165.246	68.172	3.870	1.00	63.05	LS12	ATOM	13505	CB	ALA	67	174.227	79.094	5.415	1.00	53.60	LS
ATOM	13453	CB	THR	60	164.215	68.258	4.996	1.00	65.40	LS12	ATOM	13506	C	ALA	67	173.200	78.258	6.175	1.00	21.81	LS
ATOM	13454	CG1	THR	60	163.487	69.487	4.871	1.00	65.40	LS12	ATOM	13507	C	ALA	67	175.217	79.689	6.392	1.00	53.60	LS
ATOM	13455	CG2	THR	60	164.893	68.198	6.347	1.00	65.40	LS12	ATOM	13508	N	ALA	67	176.189	79.034	6.770	1.00	53.60	LS
ATOM	13456	C	THR	60	164.504	68.410	2.574	1.00	63.05	LS12	ATOM	13509	CA	TYR	68	174.956	80.922	6.816	1.00	50.15	LS
ATOM	13457	O	THR	60	163.870	67.513	2.032	1.00	63.05	LS12	ATOM	13510	CB	TYR	68	175.829	81.611	7.754	1.00	50.15	LS
ATOM	13458	N	SER	61	164.582	69.649	2.104	1.00	48.98	LS12	ATOM	13511	CG	TYR	68	176.627	83.112	7.639	1.00	62.42	LS
ATOM	13459	CA	SER	61	163.940	70.065	0.871	1.00	48.98	LS12	ATOM	13512	CG	TYR	68	176.615	83.914	8.449	1.00	62.42	LS
ATOM	13460	CB	SER	61	163.778	71.578	0.860	1.00	54.44	LS12	ATOM	13513	CD1	TYR	68	177.892	84.179	7.957	1.00	62.42	LS
ATOM	13461	OG	SER	61	165.041	72.215	0.804	1.00	54.44	LS12	ATOM	13514	CE1	TYR	68	178.806	84.925	8.681	1.00	62.42	LS
ATOM	13462	O	SER	61	164.812	69.642	-0.300	1.00	48.98	LS12	ATOM	13515	CE2	TYR	68	176.279	84.416	9.700	1.00	62.42	LS
ATOM	13463	C	SER	61	164.563	70.028	-1.443	1.00	48.98	LS12	ATOM	13516	CE2	TYR	68	177.191	85.168	10.442	1.00	62.42	LS
ATOM	13464	N	GLY	62	165.842	68.854	0.004	1.00	72.94	LS12	ATOM	13517	CZ	TYR	68	178.450	85.421	9.920	1.00	62.42	LS
ATOM	13465	CA	GLY	62	166.755	68.369	-1.014	1.00	72.94	LS12	ATOM	13518	O	TYR	68	179.344	86.201	10.619	1.00	62.42	LS
ATOM	13466	CG	GLY	62	167.461	69.461	-1.834	1.00	72.94	LS12	ATOM	13519	C	TYR	68	175.566	81.210	9.198	1.00	50.15	LS
ATOM	13467	O	GLY	62	167.263	69.488	-3.052	1.00	72.94	LS12	ATOM	13520	O	TYR	68	174.418	81.072	9.600	1.00	50.15	LS
ATOM	13468	C	GLY	62	168.136	70.361	-1.179	1.00	76.75	LS12	ATOM	13521	N	ILE	69	176.628	81.023	9.977	1.00	52.46	LS
ATOM	13469	N	TYR	63	168.800	71.447	-1.890	1.00	99.75	LS12	ATOM	13522	CA	ILE	69	176.470	80.676	11.388	1.00	52.46	LS
ATOM	13470	CA	TYR	63	168.176	72.787	-1.519	1.00	76.75	LS12	ATOM	13523	CB	ILE	69	177.445	79.584	11.857	1.00	45.35	LS
ATOM	13471	CB	TYR	63	167.223	73.303	-2.565	1.00	76.75	LS12	ATOM	13524	CG2	ILE	69	177.049	79.135	13.256	1.00	45.35	LS
ATOM	13472	CG	TYR	63	167.976	72.713	-2.753	1.00	76.75	LS12	ATOM	13525	CG1	ILE	69	177.393	78.378	10.903	1.00	45.35	LS
ATOM	13473	CD1	TYR	63	165.102	73.179	-3.730	1.00	76.75	LS12	ATOM	13526	CD1	ILE	69	178.408	77.281	11.199	1.00	45.35	LS
ATOM	13474	CE1	TYR	63	167.577	74.377	-3.384	1.00	76.75	LS12	ATOM	13527	O	ILE	69	176.783	81.944	12.140	1.00	52.46	LS
ATOM	13475	CD2	TYR	63	166.711	74.852	-4.365	1.00	76.75	LS12	ATOM	13528	N	PRO	70	177.936	82.267	12.373	1.00	52.46	LS
ATOM	13476	CE2	TYR	63	165.477	74.250	-4.531	1.00	76.75	LS12	ATOM	13529	CA	PRO	70	175.745	82.677	12.538	1.00	56.58	LS
ATOM	13477	CZ	TYR	63	164.610	74.728	-5.485	1.00	76.75	LS12	ATOM	13530	CD	PRO	70	174.362	82.165	12.596	1.00	37.88	LS
ATOM	13478	OH	TYR	63	170.310	71.536	-1.706	1.00	99.75	LS12	ATOM	13531	CA	PRO	70	175.856	83.940	13.263	1.00	56.58	LS
ATOM	13479	C	TYR	63	171.038	71.703	-2.689	1.00	99.75	LS12	ATOM	13532	CB	PRO	70	174.437	84.466	13.201	1.00	37.88	LS
ATOM	13480	O	TYR	63						LS12	ATOM	13533	CG	PRO	70	173.656	83.190	13.484	1.00	37.88	LS

ATOM	13534	C	PRO	70	176.298	83.719	14.635	1.00	56.58	LS12	ATOM	13587	O	GLN	77	178.725	69.800	14.250	1.00	100107.13	LS
ATOM	13535	O	PRO	70	176.249	82.601	15.185	1.00	56.58	LS12	ATOM	13588	N	GLU	78	179.962	71.069	12.855	1.00	64.02	LS
ATOM	13536	N	GLY	71	176.731	84.784	15.360	1.00	55.16	LS12	ATOM	13589	CA	GLU	78	180.690	69.925	12.312	1.00	64.02	LS
ATOM	13537	CA	GLY	71	177.121	84.660	16.752	1.00	55.16	LS12	ATOM	13590	CB	GLU	78	181.339	69.146	13.464	1.00	100102.56	LS
ATOM	13538	C	GLY	71	178.589	84.660	17.118	1.00	55.16	LS12	ATOM	13591	CG	GLU	78	180.988	67.670	13.546	1.00	100102.56	LS
ATOM	13539	O	GLY	71	179.460	84.403	16.285	1.00	55.16	LS12	ATOM	13592	CD	GLU	78	180.715	67.213	14.974	1.00	100102.56	LS
ATOM	13540	N	GLU	72	178.196	84.966	18.388	1.00	70.24	LS12	ATOM	13593	OE1	GLU	78	181.502	67.578	15.879	1.00	100102.56	LS
ATOM	13541	CA	GLU	72	180.192	84.990	18.957	1.00	70.24	LS12	ATOM	13594	OE2	GLU	78	179.716	66.483	15.188	1.00	100102.56	LS
ATOM	13542	CB	GLU	72	180.191	85.737	20.297	1.00	92.94	LS12	ATOM	13595	O	GLU	78	179.594	69.106	11.602	1.00	64.02	LS
ATOM	13543	CG	GLU	72	180.356	87.245	20.217	1.00	92.94	LS12	ATOM	13596	C	GLU	78	178.448	69.547	11.558	1.00	64.02	LS
ATOM	13544	CD	GLU	72	181.719	87.641	19.687	1.00	92.94	LS12	ATOM	13597	N	HIS	79	179.943	67.960	11.023	1.00	56.92	LS
ATOM	13545	OE1	GLU	72	182.075	88.839	19.774	1.00	92.94	LS12	ATOM	13598	CA	HIS	79	179.004	67.044	10.346	1.00	56.92	LS
ATOM	13546	OE2	GLU	72	182.430	86.745	19.177	1.00	92.94	LS12	ATOM	13599	CB	HIS	79	179.770	65.712	10.239	1.00	92.79	LS
ATOM	13547	C	GLU	72	180.627	83.549	19.201	1.00	70.24	LS12	ATOM	13600	CG	HIS	79	179.007	64.579	9.629	1.00	92.79	LS
ATOM	13548	O	GLU	72	180.226	82.927	20.189	1.00	70.24	LS12	ATOM	13601	CD2	HIS	79	179.285	63.803	8.553	1.00	92.79	LS
ATOM	13549	N	GLY	73	181.435	83.014	18.296	1.00	56.72	LS12	ATOM	13602	ND1	HIS	79	177.850	64.072	10.178	1.00	92.79	LS
ATOM	13550	CA	GLY	73	181.895	81.650	18.453	1.00	56.72	LS12	ATOM	13603	CE1	HIS	79	177.446	63.032	9.468	1.00	92.79	LS
ATOM	13551	C	GLY	73	180.741	80.681	18.583	1.00	56.72	LS12	ATOM	13604	NE2	HIS	79	178.300	62.849	8.478	1.00	56.92	LS
ATOM	13552	O	GLY	73	180.057	80.426	17.603	1.00	56.72	LS12	ATOM	13605	C	HIS	79	177.629	66.895	11.120	1.00	56.92	LS
ATOM	13553	N	HIS	74	180.517	80.151	19.787	1.00	166.43	LS12	ATOM	13606	O	HIS	79	177.250	65.802	11.537	1.00	56.92	LS
ATOM	13554	CA	HIS	74	179.434	79.194	20.020	1.00	166.43	LS12	ATOM	13607	N	SER	80	176.862	67.979	11.271	1.00	68.33	LS
ATOM	13555	CB	HIS	74	178.071	79.894	19.817	1.00	112.93	LS12	ATOM	13608	CA	SER	80	175.624	67.923	12.068	1.00	68.33	LS
ATOM	13556	CG	HIS	74	176.945	78.976	19.429	1.00	112.93	LS12	ATOM	13609	CB	SER	80	175.911	68.506	13.445	1.00	44.83	LS
ATOM	13557	CD2	HIS	74	176.863	77.625	19.359	1.00	112.93	LS12	ATOM	13610	OG	SER	80	176.399	69.833	13.318	1.00	44.83	LS
ATOM	13558	ND1	HIS	74	175.733	79.447	18.971	1.00	112.93	LS12	ATOM	13611	C	SER	80	174.318	68.563	11.570	1.00	68.33	LS
ATOM	13559	CE1	HIS	74	174.959	78.431	18.637	1.00	112.93	LS12	ATOM	13612	O	SER	80	174.265	69.206	10.516	1.00	68.33	LS
ATOM	13560	NE2	HIS	74	175.621	77.313	18.869	1.00	112.93	LS12	ATOM	13613	N	VAL	81	173.275	68.400	12.391	1.00	78.71	LS
ATOM	13561	C	HIS	74	179.598	78.021	19.058	1.00	166.43	LS12	ATOM	13614	CA	VAL	81	171.923	68.887	12.106	1.00	78.71	LS
ATOM	13562	O	HIS	74	179.685	76.859	19.477	1.00	58.02	LS12	ATOM	13615	CB	VAL	81	170.881	67.987	12.761	1.00	42.89	LS
ATOM	13563	N	ASN	75	179.638	78.360	17.747	1.00	58.02	LS12	ATOM	13616	CG1	VAL	81	169.480	68.473	12.409	1.00	42.89	LS
ATOM	13564	CA	ASN	75	179.770	77.420	16.666	1.00	58.02	LS12	ATOM	13617	CG2	VAL	81	171.087	66.562	12.312	1.00	42.89	LS
ATOM	13565	CB	ASN	75	180.672	78.047	15.612	1.00	40.29	LS12	ATOM	13618	C	VAL	81	171.617	70.313	12.542	1.00	78.71	LS
ATOM	13566	CG	ASN	75	180.779	77.200	14.358	1.00	40.29	LS12	ATOM	13619	O	VAL	81	171.847	70.693	13.691	1.00	78.71	LS
ATOM	13567	CD1	ASN	75	180.440	76.024	14.361	1.00	40.29	LS12	ATOM	13620	N	VAL	82	171.044	71.087	11.624	1.00	58.90	LS
ATOM	13568	ND2	ASN	75	181.271	77.795	13.283	1.00	40.29	LS12	ATOM	13621	CA	VAL	82	170.734	72.473	11.902	1.00	54.67	LS
ATOM	13569	C	ASN	75	180.297	76.037	17.093	1.00	58.02	LS12	ATOM	13622	CB	VAL	82	171.835	73.360	11.352	1.00	54.67	LS
ATOM	13570	O	ASN	75	181.452	75.892	17.487	1.00	58.02	LS12	ATOM	13623	CG1	VAL	82	173.733	74.714	11.962	1.00	54.67	LS
ATOM	13571	N	LEU	76	179.424	75.037	17.045	1.00	44.54	LS12	ATOM	13624	CG2	VAL	82	173.181	72.762	11.635	1.00	54.67	LS
ATOM	13572	CA	LEU	76	179.827	73.661	17.305	1.00	44.54	LS12	ATOM	13625	C	VAL	82	169.417	72.919	11.272	1.00	58.90	LS
ATOM	13573	CB	LEU	76	178.906	72.985	18.329	1.00	55.64	LS12	ATOM	13626	O	VAL	82	168.864	72.220	10.417	1.00	58.90	LS
ATOM	13574	CG	LEU	76	177.380	73.115	18.302	1.00	55.64	LS12	ATOM	13627	N	LEU	83	168.919	74.082	11.706	1.00	45.16	LS
ATOM	13575	CD1	LEU	76	176.781	72.123	19.271	1.00	55.64	LS12	ATOM	13628	CA	LEU	83	167.687	74.638	11.165	1.00	45.16	LS
ATOM	13576	CD2	LEU	76	176.962	74.515	18.679	1.00	55.64	LS12	ATOM	13629	CB	LEU	83	166.702	75.575	11.843	1.00	47.71	LS
ATOM	13577	C	LEU	76	179.661	73.066	15.901	1.00	44.54	LS12	ATOM	13630	CG	LEU	83	165.334	75.575	11.843	1.00	47.71	LS
ATOM	13578	O	LEU	76	180.603	73.026	15.105	1.00	44.54	LS12	ATOM	13631	CD1	LEU	83	164.605	74.502	11.036	1.00	47.71	LS
ATOM	13579	N	GLN	77	178.466	72.612	15.576	1.00	107.13	LS12	ATOM	13632	CD2	LEU	83	164.499	75.947	13.055	1.00	47.71	LS
ATOM	13580	CA	GLN	77	178.254	72.141	14.227	1.00	107.13	LS12	ATOM	13633	C	LEU	83	168.058	75.951	10.418	1.00	45.16	LS
ATOM	13581	CB	GLN	77	178.563	73.294	13.281	1.00	72.68	LS12	ATOM	13634	O	LEU	83	168.771	76.813	10.938	1.00	45.16	LS
ATOM	13582	CG	GLN	77	177.801	74.540	13.645	1.00	72.68	LS12	ATOM	13635	N	ILE	84	167.571	76.058	9.191	1.00	47.53	LS
ATOM	13583	CD1	GLN	77	176.319	74.361	13.435	1.00	72.68	LS12	ATOM	13636	CB	ILE	84	167.829	77.204	8.837	1.00	58.83	LS
ATOM	13584	OE1	GLN	77	175.794	74.687	12.370	1.00	72.68	LS12	ATOM	13637	CG	ILE	84	168.086	76.721	8.886	1.00	58.83	LS
ATOM	13585	NE2	GLN	77	175.632	73.821	14.441	1.00	72.68	LS12	ATOM	13638	CG2	ILE	84	167.784	77.800	5.886	1.00	58.83	LS
ATOM	13586	C	GLN	77	179.008	70.899	13.776	1.00	107.13	LS12	ATOM	13639	CG1	ILE	84	169.525	76.259	6.788	1.00	58.83	LS

ATOM	13640	CD1	ILE	84	169.916	75.927	5.386	1.00	58.83	LS12	ATOM	13693	OD1	ASP	91	180.202	92.746	3.048	1.00	56.43	L
ATOM	13641	C	ILE	84	166.656	78.176	8.370	1.00	47.53	LS12	ATOM	13694	OD2	ASP	91	181.226	92.189	4.971	1.00	56.43	L
ATOM	13642	O	ILE	84	165.487	77.768	8.371	1.00	47.53	LS12	ATOM	13695	C	ASP	91	179.899	88.866	1.848	1.00	57.77	L
ATOM	13643	N	ARG	85	166.973	79.465	8.375	1.00	60.13	LS12	ATOM	13696	O	ASP	91	181.069	88.654	1.570	1.00	57.77	L
ATOM	13644	CA	ARG	85	165.945	80.491	8.453	1.00	60.13	LS12	ATOM	13697	N	LEU	92	178.950	87.959	1.677	1.00	46.26	L
ATOM	13645	CB	ARG	85	166.173	81.342	9.674	1.00	60.51	LS12	ATOM	13698	CA	LEU	92	179.246	86.653	1.117	1.00	46.26	L
ATOM	13646	CG	ARG	85	167.405	82.145	9.460	1.00	60.51	LS12	ATOM	13699	CB	LEU	92	179.328	85.599	2.218	1.00	35.77	L
ATOM	13647	CD	ARG	85	167.166	83.571	9.772	1.00	60.51	LS12	ATOM	13700	CG	LEU	92	180.073	84.740	3.514	1.00	35.77	L
ATOM	13648	NE	ARG	85	167.153	83.738	11.209	1.00	60.51	LS12	ATOM	13701	CD1	LEU	92	179.940	84.740	4.453	1.00	35.77	L
ATOM	13649	CZ	ARG	85	167.876	84.645	11.841	1.00	60.51	LS12	ATOM	13702	CD2	LEU	92	181.534	86.223	3.243	1.00	35.77	L
ATOM	13650	NH1	ARG	85	168.664	85.466	11.147	1.00	60.51	LS12	ATOM	13703	C	LEU	92	178.122	86.278	0.178	1.00	46.26	L
ATOM	13651	NH2	ARG	85	167.809	84.715	13.166	1.00	60.51	LS12	ATOM	13704	O	LEU	92	177.034	85.907	0.621	1.00	46.26	L
ATOM	13652	C	ARG	85	165.888	81.439	7.277	1.00	60.13	LS12	ATOM	13705	N	PRO	93	178.370	86.334	-1.135	1.00	58.99	L
ATOM	13653	O	ARG	85	164.848	82.042	7.024	1.00	60.13	LS12	ATOM	13706	CD	PRO	93	179.694	86.210	-1.771	1.00	86.29	L
ATOM	13654	N	GLY	86	166.990	81.626	6.570	1.00	35.23	LS12	ATOM	13707	CA	PRO	93	177.319	85.986	-2.090	1.00	86.29	L
ATOM	13655	CA	GLY	86	166.911	82.565	5.466	1.00	35.23	LS12	ATOM	13708	CB	PRO	93	177.956	86.339	-3.408	1.00	86.29	L
ATOM	13656	C	GLY	86	167.334	83.973	5.875	1.00	35.23	LS12	ATOM	13709	CG	PRO	93	179.345	85.787	-3.200	1.00	86.29	L
ATOM	13657	O	GLY	86	166.870	84.533	6.866	1.00	35.23	LS12	ATOM	13710	C	PRO	93	177.082	84.491	-1.968	1.00	58.99	L
ATOM	13658	N	GLY	87	168.235	84.545	5.091	1.00	44.38	LS12	ATOM	13711	O	PRO	93	177.855	83.794	-1.308	1.00	58.99	L
ATOM	13659	CA	GLY	87	168.750	85.863	5.371	1.00	44.38	LS12	ATOM	13712	N	GLY	94	176.035	83.991	-2.610	1.00	89.84	L
ATOM	13660	C	GLY	87	170.109	85.920	4.718	1.00	44.38	LS12	ATOM	13713	CA	GLY	94	175.768	82.569	-2.535	1.00	89.84	L
ATOM	13661	O	GLY	87	171.047	85.253	5.139	1.00	44.38	LS12	ATOM	13714	C	GLY	94	175.488	82.204	-1.098	1.00	89.84	L
ATOM	13662	N	ARG	88	170.210	86.707	3.662	1.00	45.59	LS12	ATOM	13715	O	GLY	94	175.285	81.041	-0.756	1.00	89.84	L
ATOM	13663	CA	ARG	88	171.460	86.829	2.952	1.00	45.59	LS12	ATOM	13716	N	VAL	95	175.492	83.216	-0.244	1.00	43.92	L
ATOM	13664	CB	ARG	88	171.294	87.750	1.735	1.00	45.59	LS12	ATOM	13717	CA	VAL	95	175.203	83.004	1.162	1.00	43.92	L
ATOM	13665	CG	ARG	88	170.135	87.354	0.817	1.00	45.59	LS12	ATOM	13718	CB	VAL	95	176.351	83.484	2.054	1.00	47.41	L
ATOM	13666	CD	ARG	88	170.598	86.901	-0.578	1.00	45.59	LS12	ATOM	13719	CG1	VAL	95	176.032	83.183	3.510	1.00	47.41	L
ATOM	13667	NE	ARG	88	169.478	86.455	-1.415	1.00	45.59	LS12	ATOM	13720	CG2	VAL	95	177.619	82.824	1.642	1.00	47.41	L
ATOM	13668	CZ	ARG	88	169.591	86.028	-2.671	1.00	45.59	LS12	ATOM	13721	C	VAL	95	173.929	83.742	1.578	1.00	43.92	L
ATOM	13669	NH1	ARG	88	170.780	85.983	-3.256	1.00	45.59	LS12	ATOM	13722	O	VAL	95	173.974	84.885	2.027	1.00	43.92	L
ATOM	13670	NH2	ARG	88	168.514	85.647	-3.346	1.00	45.59	LS12	ATOM	13723	N	ARG	96	172.797	83.085	1.385	1.00	66.12	L
ATOM	13671	C	ARG	88	172.463	87.417	3.914	1.00	45.59	LS12	ATOM	13724	CA	ARG	96	171.505	83.619	1.786	1.00	66.12	L
ATOM	13672	O	ARG	88	172.093	87.986	4.924	1.00	45.59	LS12	ATOM	13725	CB	ARG	96	170.488	83.298	0.708	1.00	63.15	L
ATOM	13673	N	VAL	89	173.737	87.221	3.612	1.00	53.30	LS12	ATOM	13726	CG	ARG	96	171.026	83.699	-0.646	1.00	63.15	L
ATOM	13674	CA	VAL	89	174.825	87.790	4.385	1.00	53.30	LS12	ATOM	13727	CD	ARG	96	170.661	82.741	-1.737	1.00	63.15	L
ATOM	13675	CB	VAL	89	175.819	86.721	5.168	1.00	50.58	LS12	ATOM	13728	NE	ARG	96	169.666	83.305	-2.635	1.00	63.15	L
ATOM	13676	CG1	VAL	89	177.149	87.348	6.053	1.00	50.58	LS12	ATOM	13729	CZ	ARG	96	169.380	81.737	-3.836	1.00	63.15	L
ATOM	13677	CG2	VAL	89	175.271	86.018	6.053	1.00	50.58	LS12	ATOM	13730	NH1	ARG	96	170.020	81.737	-4.291	1.00	63.15	L
ATOM	13678	C	VAL	89	175.413	86.680	3.310	1.00	53.30	LS12	ATOM	13731	NH2	ARG	96	168.444	83.385	-4.582	1.00	63.15	L
ATOM	13679	O	VAL	89	175.877	88.194	2.292	1.00	53.30	LS12	ATOM	13732	C	ARG	96	171.294	82.781	3.038	1.00	66.12	L
ATOM	13680	N	LYS	90	175.344	89.985	3.526	1.00	39.34	LS12	ATOM	13733	O	ARG	96	172.270	82.290	3.592	1.00	66.12	L
ATOM	13681	CA	LYS	90	175.798	90.964	2.552	1.00	39.34	LS12	ATOM	13734	N	TYR	97	170.072	82.602	3.505	1.00	41.70	L
ATOM	13682	CB	LYS	90	175.787	92.358	3.169	1.00	60.42	LS12	ATOM	13735	CA	TYR	97	169.853	81.765	4.697	1.00	41.70	L
ATOM	13683	CG	LYS	90	175.313	93.430	2.220	1.00	60.42	LS12	ATOM	13736	CB	TYR	97	169.716	80.302	4.281	1.00	46.76	L
ATOM	13684	CD	LYS	90	176.123	93.442	0.955	1.00	60.42	LS12	ATOM	13737	CG1	TYR	97	169.180	80.092	2.889	1.00	46.76	L
ATOM	13685	CE	LYS	90	175.564	94.435	-0.037	1.00	60.42	LS12	ATOM	13738	CD1	TYR	97	170.041	79.940	1.816	1.00	46.76	L
ATOM	13686	NZ	LYS	90	175.749	95.846	0.421	1.00	60.42	LS12	ATOM	13739	CE1	TYR	97	169.558	79.727	0.532	1.00	46.76	L
ATOM	13687	C	LYS	90	177.156	90.708	1.961	1.00	39.34	LS12	ATOM	13740	CD2	TYR	97	167.810	80.031	2.646	1.00	46.76	L
ATOM	13688	O	LYS	90	177.317	90.752	0.746	1.00	39.34	LS12	ATOM	13741	CE2	TYR	97	167.314	79.816	1.364	1.00	46.76	L
ATOM	13689	N	ASP	91	178.123	90.441	2.831	1.00	57.77	LS12	ATOM	13742	CZ	TYR	97	168.198	79.661	0.314	1.00	46.76	L
ATOM	13690	CA	ASP	91	179.509	90.206	2.443	1.00	57.77	LS12	ATOM	13743	OH	TYR	97	167.727	79.394	-0.950	1.00	46.76	L
ATOM	13691	CB	ASP	91	180.408	90.449	3.640	1.00	56.43	LS12	ATOM	13744	C	TYR	97	170.857	81.814	5.879	1.00	41.70	L
ATOM	13692	CG	ASP	91	180.622	91.907	3.904	1.00	56.43	LS12	ATOM	13745	O	TYR	97	172.063	81.678	5.708	1.00	41.70	L

ATOM	13746	N	HIS	98	170.335	81.966	7.090	1.00	43.28	LS12	ATOM	13799	CD2	TYR	104	166.582	70.268	15.555	1.00	43.62	LS
ATOM	13747	CA	HIS	98	171.157	82.002	8.301	1.00	43.28	LS12	ATOM	13800	CE2	TYR	104	165.282	70.239	15.089	1.00	43.62	LS
ATOM	13748	CG	HIS	98	170.774	83.145	9.229	1.00	45.61	LS12	ATOM	13801	CZ	TYR	104	164.955	70.920	13.934	1.00	43.62	LS
ATOM	13749	CG	HIS	98	171.546	84.401	9.013	1.00	45.61	LS12	ATOM	13802	CH	TYR	104	163.646	70.904	13.517	1.00	43.62	LS
ATOM	13750	CG2	HIS	98	172.256	85.166	9.875	1.00	45.61	LS12	ATOM	13803	C	TYR	104	170.397	71.214	17.510	1.00	58.86	LS
ATOM	13751	ND1	HIS	98	171.564	85.064	7.807	1.00	45.61	LS12	ATOM	13804	O	TYR	104	170.618	71.643	18.644	1.00	58.86	LS
ATOM	13752	CE1	HIS	98	172.248	86.188	7.938	1.00	45.61	LS12	ATOM	13805	N	ASP	105	171.362	70.801	16.699	1.00	55.42	LS
ATOM	13753	NE2	HIS	98	172.677	86.275	9.184	1.00	45.61	LS12	ATOM	13806	CA	ASP	105	172.751	70.787	17.137	1.00	55.42	LS
ATOM	13754	C	HIS	98	170.857	80.732	9.071	1.00	43.28	LS12	ATOM	13807	CB	ASP	105	173.552	69.867	16.217	1.00	80.13	LS
ATOM	13755	O	HIS	98	169.753	80.203	8.992	1.00	43.28	LS12	ATOM	13808	CG	ASP	105	173.021	68.437	16.228	1.00	80.13	LS
ATOM	13756	N	ILE	99	171.827	80.249	9.828	1.00	52.26	LS12	ATOM	13809	OD1	ASP	105	173.308	67.685	15.270	1.00	80.13	LS
ATOM	13757	CA	ILE	99	171.604	79.076	10.653	1.00	52.26	LS12	ATOM	13810	OD2	ASP	105	172.323	68.070	17.202	1.00	80.13	LS
ATOM	13758	CB	ILE	99	172.917	78.342	10.914	1.00	59.41	LS12	ATOM	13811	C	ASP	105	173.395	72.173	17.244	1.00	55.42	LS
ATOM	13759	CG2	ILE	99	172.789	77.489	12.151	1.00	59.41	LS12	ATOM	13812	O	ASP	105	174.559	73.296	17.621	1.00	55.42	LS
ATOM	13760	CG1	ILE	99	173.292	77.523	9.669	1.00	59.41	LS12	ATOM	13813	N	ALA	106	172.637	72.212	16.908	1.00	71.74	LS
ATOM	13761	CD1	ILE	99	174.646	76.835	9.731	1.00	59.41	LS12	ATOM	13814	CA	ALA	106	173.121	74.586	17.031	1.00	71.74	LS
ATOM	13762	C	ILE	99	171.001	79.589	11.963	1.00	52.26	LS12	ATOM	13815	CB	ALA	106	172.233	75.523	16.230	1.00	67.01	LS
ATOM	13763	O	ILE	99	171.364	80.664	12.444	1.00	52.26	LS12	ATOM	13816	C	ALA	106	172.975	74.850	18.530	1.00	71.74	LS
ATOM	13764	N	VAL	100	170.063	78.847	12.530	1.00	50.49	LS12	ATOM	13817	O	ALA	106	172.240	74.125	19.196	1.00	71.74	LS
ATOM	13765	CA	VAL	100	169.423	79.274	13.769	1.00	50.49	LS12	ATOM	13818	N	ALA	107	173.621	75.873	19.080	1.00	49.19	LS
ATOM	13766	CB	VAL	100	167.937	78.917	13.758	1.00	34.53	LS12	ATOM	13819	CA	ALA	107	173.506	76.054	20.522	1.00	49.19	LS
ATOM	13767	CG1	VAL	100	167.360	79.049	15.154	1.00	34.53	LS12	ATOM	13820	CB	ALA	107	174.428	75.046	21.205	1.00	46.28	LS
ATOM	13768	CG2	VAL	100	167.206	79.810	12.780	1.00	34.53	LS12	ATOM	13821	C	ALA	107	173.721	77.436	21.148	1.00	49.19	LS
ATOM	13769	C	VAL	100	170.053	78.663	15.012	1.00	50.49	LS12	ATOM	13822	O	ALA	107	174.848	77.909	21.263	1.00	49.19	LS
ATOM	13770	O	VAL	100	170.006	77.449	15.218	1.00	50.49	LS12	ATOM	13823	N	GLY	108	172.642	78.060	21.606	1.00	93.75	LS
ATOM	13771	N	ARG	101	170.628	79.510	15.853	1.00	55.49	LS12	ATOM	13824	CA	GLY	108	173.759	79.365	22.784	1.00	93.75	LS
ATOM	13772	CA	ARG	101	171.260	79.030	17.069	1.00	55.49	LS12	ATOM	13825	C	GLY	108	173.987	80.127	21.768	1.00	93.75	LS
ATOM	13773	CB	ARG	101	172.153	80.116	17.653	1.00	76.19	LS12	ATOM	13826	O	GLY	108	174.306	80.112	20.607	1.00	93.75	LS
ATOM	13774	CG	ARG	101	172.799	80.947	16.579	1.00	76.19	LS12	ATOM	13827	N	VAL	109	174.674	80.793	22.704	1.00	64.62	LS
ATOM	13775	CD	ARG	101	174.210	81.335	16.926	1.00	76.19	LS12	ATOM	13828	CA	VAL	109	175.874	81.553	22.356	1.00	64.62	LS
ATOM	13776	NE	ARG	101	175.169	80.274	16.638	1.00	76.19	LS12	ATOM	13829	CB	VAL	109	176.554	82.911	21.619	1.00	42.16	LS
ATOM	13777	CZ	ARG	101	176.475	80.370	16.878	1.00	76.19	LS12	ATOM	13830	CG1	VAL	109	176.855	83.658	21.299	1.00	42.16	LS
ATOM	13778	NH1	ARG	101	176.983	81.475	17.409	1.00	76.19	LS12	ATOM	13831	CG2	VAL	109	174.809	82.660	20.318	1.00	42.16	LS
ATOM	13779	NH2	ARG	101	177.277	79.350	16.616	1.00	55.49	LS12	ATOM	13832	C	VAL	109	176.698	81.867	23.600	1.00	64.62	LS
ATOM	13780	C	ARG	101	170.179	78.653	18.062	1.00	55.49	LS12	ATOM	13833	O	VAL	109	176.897	83.027	23.962	1.00	64.62	LS
ATOM	13781	O	ARG	101	169.106	79.241	18.059	1.00	55.49	LS12	ATOM	13834	N	LYS	110	177.167	80.820	24.259	1.00	116.79	LS
ATOM	13782	N	GLY	102	170.449	77.660	18.900	1.00	62.30	LS12	ATOM	13835	CA	LYS	110	177.996	80.976	25.440	1.00	116.79	LS
ATOM	13783	CA	GLY	102	169.459	77.270	19.882	1.00	62.30	LS12	ATOM	13836	CB	LYS	110	179.423	81.304	24.998	1.00	143.81	LS
ATOM	13784	C	GLY	102	168.503	76.206	19.391	1.00	62.30	LS12	ATOM	13837	CG	LYS	110	179.896	80.513	23.778	1.00	143.81	LS
ATOM	13785	O	GLY	102	167.594	75.793	20.124	1.00	62.30	LS12	ATOM	13838	CD	LYS	110	179.833	79.003	24.005	1.00	143.81	LS
ATOM	13786	N	VAL	103	168.682	75.766	18.151	1.00	55.98	LS12	ATOM	13839	CE	LYS	110	180.505	78.237	22.860	1.00	143.81	LS
ATOM	13787	CA	VAL	103	167.821	74.723	17.610	1.00	55.98	LS12	ATOM	13840	NZ	LYS	110	180.413	76.748	23.003	1.00	143.81	LS
ATOM	13788	CB	VAL	103	166.917	75.246	16.470	1.00	44.72	LS12	ATOM	13841	C	LYS	110	177.498	82.045	26.423	1.00	116.79	LS
ATOM	13789	CG1	VAL	103	166.148	74.086	15.850	1.00	44.72	LS12	ATOM	13842	O	LYS	110	176.445	81.893	27.049	1.00	116.79	LS
ATOM	13790	CG2	VAL	103	165.933	76.275	17.011	1.00	54.72	LS12	ATOM	13843	N	ASP	111	178.262	83.128	26.544	1.00	61.17	LS
ATOM	13791	C	VAL	103	168.678	73.578	17.094	1.00	55.98	LS12	ATOM	13844	CA	ASP	111	179.935	84.209	27.466	1.00	61.17	LS
ATOM	13792	O	VAL	103	169.704	73.802	16.450	1.00	55.98	LS12	ATOM	13845	CB	ASP	111	179.226	84.832	28.007	1.00	118.84	LS
ATOM	13793	N	TYR	104	168.249	72.351	17.383	1.00	58.86	LS12	ATOM	13846	CG	ASP	111	179.891	83.983	29.071	1.00	118.84	LS
ATOM	13794	CA	TYR	104	168.978	71.158	16.972	1.00	58.86	LS12	ATOM	13847	OD1	ASP	111	179.244	83.703	30.106	1.00	118.84	LS
ATOM	13795	CB	TYR	104	168.981	71.039	15.446	1.00	43.62	LS12	ATOM	13848	OD2	ASP	111	181.066	83.609	28.871	1.00	118.84	LS
ATOM	13796	CG	TYR	104	167.579	70.975	14.883	1.00	43.62	LS12	ATOM	13849	C	ASP	111	177.058	85.339	26.930	1.00	61.17	LS
ATOM	13797	CD1	TYR	104	167.234	71.656	13.706	1.00	43.62	LS12	ATOM	13850	O	ASP	111	177.049	86.430	27.506	1.00	61.17	LS
ATOM	13798	CE1	TYR	104	165.926	71.633	13.227	1.00	43.62	LS12	ATOM	13851	N	ARG	112	176.336	85.109	25.838	1.00	68.60	LS

ATOM	13852	CA	ARG	112	175.482	86.158	25.274	1.00	68.60	LS12	ATOM	13905	CB	LYS	118	168.645	86.660	17.859	1.00	42.46	LS
ATOM	13853	CG	ARG	112	174.611	85.592	24.151	1.00	57.24	LS12	ATOM	13906	CG	LYS	118	167.538	87.698	17.834	1.00	42.46	LS
ATOM	13854	CB	ARG	112	174.819	86.217	22.795	1.00	57.24	LS12	ATOM	13907	CD	LYS	118	168.049	89.005	17.259	1.00	42.46	LS
ATOM	13855	CD	ARG	112	174.333	87.631	22.741	1.00	57.24	LS12	ATOM	13908	CE	LYS	118	166.915	89.932	16.841	1.00	42.46	LS
ATOM	13856	NE	ARG	112	174.726	88.227	21.472	1.00	57.24	LS12	ATOM	13909	NZ	LYS	118	167.423	91.224	16.291	1.00	42.46	LS
ATOM	13857	CZ	ARG	112	174.452	89.476	21.110	1.00	57.24	LS12	ATOM	13910	C	LYS	118	169.439	84.764	19.297	1.00	65.89	LS
ATOM	13858	NH1	ARG	112	173.771	90.279	19.927	1.00	57.24	LS12	ATOM	13911	O	LYS	118	169.478	84.736	20.532	1.00	65.89	LS
ATOM	13859	NH2	ARG	112	174.861	89.925	19.928	1.00	57.24	LS12	ATOM	13912	N	TYR	119	170.409	84.232	18.576	1.00	58.04	LS
ATOM	13860	C	ARG	112	174.581	86.706	26.367	1.00	68.60	LS12	ATOM	13913	CA	TYR	119	171.529	83.607	19.294	1.00	58.04	LS
ATOM	13861	O	ARG	112	173.792	85.968	26.952	1.00	68.60	LS12	ATOM	13914	CB	TYR	119	172.305	84.680	20.028	1.00	47.64	LS
ATOM	13862	N	LYS	113	174.700	87.995	26.652	1.00	65.58	LS12	ATOM	13915	CG	TYR	119	172.702	85.801	19.125	1.00	47.64	LS
ATOM	13863	CA	LYS	113	173.861	88.585	27.682	1.00	65.58	LS12	ATOM	13916	CD1	TYR	119	172.509	87.117	19.505	1.00	47.64	LS
ATOM	13864	CB	LYS	113	174.719	89.089	28.844	1.00	91.82	LS12	ATOM	13917	CEL	TYR	119	172.894	88.159	18.682	1.00	47.64	LS
ATOM	13865	CG	LYS	113	175.480	87.942	29.510	1.00	91.82	LS12	ATOM	13918	CEL	TYR	119	173.289	85.546	17.896	1.00	47.64	LS
ATOM	13866	CD	LYS	113	175.910	88.259	30.928	1.00	91.82	LS12	ATOM	13919	CE2	TYR	119	173.683	86.580	17.063	1.00	47.64	LS
ATOM	13867	CE	LYS	113	174.723	88.270	31.870	1.00	91.82	LS12	ATOM	13920	CZ	TYR	119	173.481	87.887	17.461	1.00	47.64	LS
ATOM	13868	NZ	LYS	113	175.105	88.644	33.258	1.00	91.82	LS12	ATOM	13921	OH	TYR	119	173.834	88.931	16.638	1.00	47.64	LS
ATOM	13869	C	LYS	113	172.949	89.678	27.155	1.00	65.58	LS12	ATOM	13922	C	TYR	119	171.116	82.520	20.302	1.00	58.04	LS
ATOM	13870	O	LYS	113	171.885	89.907	27.714	1.00	65.58	LS12	ATOM	13923	O	TYR	119	171.956	81.970	21.001	1.00	58.04	LS
ATOM	13871	N	LYS	114	173.345	90.332	26.066	1.00	88.61	LS12	ATOM	13924	N	GLY	120	169.817	82.252	20.382	1.00	57.31	LS
ATOM	13872	CA	LYS	114	172.516	91.381	25.480	1.00	88.61	LS12	ATOM	13925	CA	GLY	120	169.267	81.234	22.263	1.00	57.31	LS
ATOM	13873	CB	LYS	114	173.341	92.317	24.607	1.00	75.32	LS12	ATOM	13926	C	GLY	120	169.724	81.027	22.699	1.00	57.31	LS
ATOM	13874	CG	LYS	114	174.174	93.338	25.382	1.00	75.32	LS12	ATOM	13927	O	GLY	120	169.351	80.028	23.300	1.00	57.31	LS
ATOM	13875	CD	LYS	114	173.422	94.682	25.660	1.00	75.32	LS12	ATOM	13928	N	THR	121	170.505	81.925	23.280	1.00	38.48	LS
ATOM	13876	CE	LYS	114	174.353	95.680	26.239	1.00	75.32	LS12	ATOM	13929	CA	THR	121	170.927	81.704	24.665	1.00	38.48	LS
ATOM	13877	NZ	LYS	114	173.636	96.980	26.452	1.00	75.32	LS12	ATOM	13930	CB	THR	121	172.132	82.599	25.069	1.00	44.63	LS
ATOM	13878	O	LYS	114	171.394	90.785	24.651	1.00	88.61	LS12	ATOM	13931	OG1	THR	121	171.657	83.863	25.543	1.00	44.63	LS
ATOM	13879	C	LYS	114	170.430	90.094	25.187	1.00	88.61	LS12	ATOM	13932	CG2	THR	121	173.055	82.828	23.888	1.00	44.63	LS
ATOM	13880	N	SER	115	171.513	91.041	23.347	1.00	76.01	LS12	ATOM	13933	C	THR	121	169.771	82.002	25.619	1.00	38.48	LS
ATOM	13881	CA	SER	115	170.369	90.552	22.451	1.00	76.01	LS12	ATOM	13934	O	THR	121	169.194	83.094	25.592	1.00	38.48	LS
ATOM	13882	CB	SER	115	170.890	90.495	21.022	1.00	100.05.25	LS12	ATOM	13935	N	LYS	122	169.427	81.031	26.463	1.00	55.18	LS
ATOM	13883	CG	SER	115	171.131	91.814	20.544	1.00	100.05.25	LS12	ATOM	13936	CA	LYS	122	168.335	81.222	27.413	1.00	55.18	LS
ATOM	13884	O	SER	115	169.747	89.217	23.328	1.00	76.01	LS12	ATOM	13937	CB	LYS	122	167.659	78.769	27.205	1.00	49.28	LS
ATOM	13885	N	SER	115	168.630	89.185	22.629	1.00	67.86	LS12	ATOM	13938	CG	LYS	122	166.670	77.819	27.883	1.00	49.28	LS
ATOM	13886	CA	ARG	116	170.450	88.112	22.629	1.00	67.86	LS12	ATOM	13939	CD	LYS	122	166.472	76.517	27.105	1.00	49.28	LS
ATOM	13887	CB	ARG	116	169.876	86.805	22.975	1.00	67.86	LS12	ATOM	13940	CE	LYS	122	165.713	76.654	25.825	1.00	49.28	LS
ATOM	13888	CG	ARG	116	169.530	86.732	24.463	1.00	54.96	LS12	ATOM	13941	NZ	LYS	122	168.681	82.319	28.422	1.00	55.18	LS
ATOM	13889	CG	ARG	116	170.717	87.039	25.397	1.00	54.96	LS12	ATOM	13942	C	LYS	122	169.809	82.816	28.451	1.00	55.18	LS
ATOM	13890	CD	ARG	116	170.478	86.549	26.827	1.00	54.96	LS12	ATOM	13943	O	LYS	122	167.720	82.701	29.254	1.00	66.59	LS
ATOM	13891	NE	ARG	116	169.211	85.826	27.656	1.00	54.96	LS12	ATOM	13944	N	LYS	123	167.979	83.758	30.225	1.00	66.59	LS
ATOM	13892	CZ	ARG	116	168.168	86.257	27.662	1.00	54.96	LS12	ATOM	13945	CA	LYS	123	166.670	84.332	30.754	1.00	59.97	LS
ATOM	13893	NH1	ARG	116	168.232	87.409	28.321	1.00	54.96	LS12	ATOM	13946	CB	LYS	123	166.878	85.600	31.551	1.00	59.97	LS
ATOM	13894	NH2	ARG	116	167.049	85.550	27.683	1.00	54.96	LS12	ATOM	13947	CG	LYS	123	165.566	86.295	31.814	1.00	59.97	LS
ATOM	13895	C	ARG	116	168.625	86.711	22.142	1.00	67.86	LS12	ATOM	13948	CD	LYS	123	165.807	87.692	32.346	1.00	59.97	LS
ATOM	13896	O	ARG	116	167.654	85.915	22.580	1.00	50.03	LS12	ATOM	13949	CE	LYS	123	164.526	88.428	32.529	1.00	59.97	LS
ATOM	13897	N	SER	117	166.375	85.715	21.861	1.00	50.03	LS12	ATOM	13950	NZ	LYS	123	168.853	83.343	31.406	1.00	66.59	LS
ATOM	13898	CA	SER	117	165.598	87.015	21.730	1.00	60.14	LS12	ATOM	13951	C	LYS	123	168.552	82.374	32.117	1.00	66.59	LS
ATOM	13899	CB	SER	117	164.373	86.826	21.054	1.00	60.14	LS12	ATOM	13952	O	LYS	123	169.947	85.400	31.640	1.00	81.80	LS
ATOM	13900	CG	SER	117	166.695	85.175	20.493	1.00	50.03	LS12	ATOM	13953	N	PRO	124	170.265	85.400	31.049	1.00	54.42	LS
ATOM	13901	C	SER	117	166.058	84.249	19.999	1.00	50.03	LS12	ATOM	13954	CD	PRO	124	171.854	84.952	32.681	1.00	54.42	LS
ATOM	13902	O	SER	117	167.676	85.811	19.879	1.00	65.89	LS12	ATOM	13955	CA	PRO	124	171.034	86.070	32.158	1.00	54.42	LS
ATOM	13903	N	LYS	118	168.242	85.416	18.615	1.00	65.89	LS12	ATOM	13956	CB	PRO	124						
ATOM	13904	CA	LYS	118						LS12	ATOM	13957	CG	PRO	124						

ATOM	13958	C	PRO	124	170.077	83.746	34.040	1.00	81.80	LS12	ATOM	14011	N	LEU	13	122.324	44.310	4.780	1.00	57.83	TS
ATOM	13959	O	PRO	124	169.844	84.775	34.672	1.00	81.80	LS12	ATOM	14012	CA	LEU	13	122.901	43.432	3.772	1.00	57.83	TS
ATOM	13960	N	LYS	125	169.662	82.538	34.416	1.00166.00		LS12	ATOM	14013	CB	LEU	13	123.676	42.321	4.476	1.00	34.27	TS
ATOM	13961	CA	LYS	125	168.873	82.312	35.623	1.00166.00		LS12	ATOM	14014	CG	LEU	13	125.196	42.249	4.416	1.00	34.27	TS
ATOM	13962	CB	LYS	125	168.384	80.859	35.670	1.00125.84		LS12	ATOM	14015	CD1	LEU	13	125.688	41.196	5.376	1.00	34.27	TS
ATOM	13963	CG	LYS	125	167.373	80.512	34.586	1.00125.84		LS12	ATOM	14016	CD2	LEU	13	125.638	41.916	2.986	1.00	34.27	TS
ATOM	13964	CD	LYS	125	166.863	79.086	34.733	1.00125.84		LS12	ATOM	14017	C	LEU	13	121.610	42.855	3.179	1.00	57.83	TS
ATOM	13965	CE	LYS	125	165.771	78.778	33.715	1.00125.84		LS12	ATOM	14018	N	LEU	13	121.589	42.247	2.106	1.00	57.83	TS
ATOM	13966	NZ	LYS	125	165.251	77.386	33.839	1.00125.84		LS12	ATOM	14019	N	LYS	14	120.536	43.045	3.946	1.00	40.41	TS
ATOM	13967	C	LYS	125	169.589	82.647	36.924	1.00166.00		LS12	ATOM	14020	CA	LYS	14	119.210	42.612	3.567	1.00	40.41	TS
ATOM	13968	O	LYS	125	169.569	81.863	37.872	1.00166.00		LS12	ATOM	14021	CB	LYS	14	118.187	42.967	4.658	1.00	42.94	TS
ATOM	13969	N	GLU	126	170.221	83.814	36.969	1.00106.42		LS12	ATOM	14022	CG	LYS	14	116.801	42.408	4.328	1.00	42.94	TS
ATOM	13970	CA	GLU	126	170.907	84.238	38.174	1.00106.42		LS12	ATOM	14023	CD	LYS	14	115.622	43.071	5.037	1.00	42.94	TS
ATOM	13971	CB	GLU	126	171.996	85.268	37.844	1.00140.40		LS12	ATOM	14024	CE	LYS	14	115.328	42.465	6.398	1.00	42.94	TS
ATOM	13972	CG	GLU	126	171.697	86.203	36.677	1.00140.40		LS12	ATOM	14025	NZ	LYS	14	113.971	42.871	6.876	1.00	42.94	TS
ATOM	13973	CD	GLU	126	170.651	87.252	36.998	1.00140.40		LS12	ATOM	14026	C	LYS	14	118.901	43.386	2.298	1.00	40.41	TS
ATOM	13974	OE1	GLU	126	170.839	88.005	37.979	1.00140.40		LS12	ATOM	14027	O	LYS	14	118.379	42.848	1.322	1.00	40.41	TS
ATOM	13975	OE2	GLU	126	169.644	87.327	36.262	1.00140.40		LS12	ATOM	14028	N	ARG	15	119.253	44.665	2.321	1.00	51.11	TS
ATOM	13976	C	GLU	126	169.905	84.807	39.173	1.00106.42		LS12	ATOM	14029	CA	ARG	15	119.030	45.527	1.183	1.00	51.11	TS
ATOM	13977	O	GLU	126	169.597	85.939	39.162	1.00106.42		LS12	ATOM	14030	CB	ARG	15	119.677	46.869	1.433	1.00	35.24	TS
ATOM	13978	N	ALA	127	169.388	83.330	40.029	1.00174.96		LS12	ATOM	14031	CD	ARG	15	117.577	48.246	1.309	1.00	35.24	TS
ATOM	13979	CA	ALA	127	168.420	84.314	41.050	1.00174.96		LS12	ATOM	14032	CG	ARG	15	116.787	49.306	1.940	1.00	35.24	TS
ATOM	13980	CB	ALA	127	167.643	83.083	41.523	1.0089.05		LS12	ATOM	14033	NE	ARG	15	115.606	49.724	1.495	1.00	35.24	TS
ATOM	13981	C	ALA	127	169.120	84.980	42.233	1.00174.96		LS12	ATOM	14034	CZ	ARG	15	114.964	50.696	2.132	1.00	35.24	TS
ATOM	13982	O	ALA	127	170.351	85.198	42.147	1.00174.96		LS12	ATOM	14035	NH1	ARG	15	115.066	49.174	0.410	1.00	35.24	TS
ATOM	13983	OXT	ALA	127	168.425	85.279	43.229	1.0018.13		LS12	ATOM	14036	NH2	ARG	15	114.964	50.696	2.096	1.00	35.24	TS
ATOM	13984	CB	ASN	9	129.106	42.420	9.924	1.0078.13		TS20	ATOM	14037	C	ARG	15	119.566	44.914	-0.096	1.00	51.11	TS
ATOM	13985	CG	ASN	9	129.957	43.494	10.554	1.0078.13		TS20	ATOM	14038	O	ARG	15	118.846	44.800	-1.082	1.00	51.11	TS
ATOM	13986	ND1	ASN	9	131.176	43.543	10.348	1.0078.13		TS20	ATOM	14039	N	HIS	16	120.823	44.506	-0.098	1.00	46.29	TS
ATOM	13987	C	ASN	9	129.319	44.379	9.107	1.0082.12		TS20	ATOM	14040	CA	HIS	16	121.359	43.895	-1.309	1.00	46.29	TS
ATOM	13988	O	ASN	9	126.593	43.542	10.135	1.0082.12		TS20	ATOM	14041	CB	HIS	16	122.823	43.528	-1.106	1.00	59.43	TS
ATOM	13989	O	ASN	9	129.312	43.666	7.792	1.0082.12		TS20	ATOM	14042	CG	HIS	16	123.496	43.043	-2.346	1.00	59.43	TS
ATOM	13990	N	ASN	9	128.376	42.917	8.682	1.0082.12		TS20	ATOM	14043	CD2	HIS	16	124.352	43.661	-3.190	1.00	59.43	TS
ATOM	13991	CA	ASN	9	126.935	44.829	8.326	1.0071.27		TS20	ATOM	14044	CE1	HIS	16	123.319	41.771	-2.841	1.00	59.43	TS
ATOM	13992	N	LEU	10	125.812	45.703	8.623	1.0071.27		TS20	ATOM	14045	NE2	HIS	16	124.046	41.622	-3.934	1.00	59.43	TS
ATOM	13993	CA	LEU	10	125.917	47.028	7.863	1.00138.83		TS20	ATOM	14046	NE2	HIS	16	120.539	42.646	-1.660	1.00	46.29	TS
ATOM	13994	CG	LEU	10	127.142	47.906	8.130	1.00138.83		TS20	ATOM	14047	C	HIS	16	120.539	42.646	-1.660	1.00	46.29	TS
ATOM	13995	CG	LEU	10	126.933	49.269	7.476	1.00138.83		TS20	ATOM	14048	O	HIS	16	120.171	42.425	-2.812	1.00	46.29	TS
ATOM	13996	CD1	LEU	10	127.357	48.073	9.630	1.00138.83		TS20	ATOM	14049	N	ARG	17	119.474	40.626	-0.641	1.00	38.93	TS
ATOM	13997	CD2	LEU	10	127.357	48.073	9.630	1.00138.83		TS20	ATOM	14050	CA	ARG	17	119.474	40.626	-0.641	1.00	38.93	TS
ATOM	13998	C	LEU	10	124.611	44.915	8.132	1.0071.27		TS20	ATOM	14051	CB	ARG	17	119.140	40.138	0.638	1.00	38.93	TS
ATOM	13999	O	LEU	10	124.503	44.609	6.943	1.0071.27		TS20	ATOM	14052	CG	ARG	17	119.455	38.697	0.944	1.00	38.93	TS
ATOM	14000	N	SER	11	123.716	44.570	9.049	1.0050.51		TS20	ATOM	14053	CD	ARG	17	119.066	38.384	2.405	1.00	38.93	TS
ATOM	14001	CA	SER	11	122.556	43.795	8.673	1.0050.51		TS20	ATOM	14054	NE	ARG	17	119.989	38.967	3.375	1.00	38.93	TS
ATOM	14002	CB	SER	11	121.681	43.518	9.902	1.0061.87		TS20	ATOM	14055	CZ	ARG	17	119.649	39.342	4.604	1.00	38.93	TS
ATOM	14003	OG	SER	11	122.334	42.601	10.777	1.0061.87		TS20	ATOM	14056	NH1	ARG	17	118.397	39.201	5.021	1.00	38.93	TS
ATOM	14004	C	SER	11	121.764	44.405	7.526	1.0050.51		TS20	ATOM	14057	NH2	ARG	17	120.567	39.840	5.420	1.00	38.93	TS
ATOM	14005	O	SER	11	120.844	43.781	7.027	1.0050.51		TS20	ATOM	14058	C	ARG	17	118.174	40.960	-1.516	1.00	38.93	TS
ATOM	14006	N	ALA	12	122.118	45.615	7.102	1.0056.49		TS20	ATOM	14059	O	ARG	17	117.795	40.266	-2.482	1.00	38.93	TS
ATOM	14007	CA	ALA	12	121.471	46.242	5.938	1.0056.49		TS20	ATOM	14060	N	GLN	18	117.486	41.979	-1.067	1.00	35.20	TS
ATOM	14008	CB	ALA	12	121.655	47.735	5.976	1.00100.39		TS20	ATOM	14061	CA	GLN	18	116.224	42.352	-1.687	1.00	35.20	TS
ATOM	14009	C	ALA	12	122.188	45.632	4.698	1.0056.49		TS20	ATOM	14062	CB	GLN	18	115.555	43.432	-0.846	1.00	55.05	TS
ATOM	14010	O	ALA	12	122.639	46.313	3.763	1.0056.49		TS20	ATOM	14063	CG	GLN	18	115.503	43.025	0.610	1.00	55.05	TS

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ATOM	14064	CD	GLN	18	114.664	43.931	1.455	1.00	55.05	TS20	ATOM	14117	CG	LEU	24	116.667	37.709	-9.634	1.00	66.62	TS
ATOM	14065	OE1	GLN	18	114.990	45.104	1.654	1.00	55.05	TS20	ATOM	14118	CD1	LEU	24	116.653	36.480	-8.742	1.00	66.62	TS
ATOM	14066	NE2	GLN	18	113.569	43.398	1.964	1.00	55.05	TS20	ATOM	14119	CD2	LEU	24	117.609	37.488	-10.806	1.00	66.62	TS
ATOM	14067	C	GLN	18	116.427	42.812	-3.119	1.00	35.20	TS20	ATOM	14120	C	LEU	24	113.661	39.458	-11.457	1.00	45.65	TS
ATOM	14068	O	GLN	18	115.823	42.266	-4.042	1.00	35.20	TS20	ATOM	14121	O	LEU	24	113.202	38.925	-12.469	1.00	45.65	TS
ATOM	14069	N	SER	19	117.591	43.806	-3.296	1.00	46.68	TS20	ATOM	14122	N	ARG	25	112.949	40.264	-10.677	1.00	43.72	TS
ATOM	14070	CA	SER	19	117.591	44.335	-4.614	1.00	46.68	TS20	ATOM	14123	CA	ARG	25	111.549	40.513	-10.944	1.00	43.72	TS
ATOM	14071	CB	SER	19	118.894	45.119	-4.590	1.00	68.61	TS20	ATOM	14124	CB	ARG	25	110.879	41.087	-9.711	1.00	80.58	TS
ATOM	14072	OG	SER	19	119.990	44.227	-4.575	1.00	68.61	TS20	ATOM	14125	CG	ARG	25	109.369	41.013	-9.768	1.00	80.58	TS
ATOM	14073	C	SER	19	117.725	43.200	-5.623	1.00	46.68	TS20	ATOM	14126	CD	ARG	25	108.874	40.017	-8.742	1.00	80.58	TS
ATOM	14074	O	SER	19	117.269	43.321	-6.761	1.00	46.68	TS20	ATOM	14127	NE	ARG	25	109.447	40.313	-7.431	1.00	80.58	TS
ATOM	14075	N	LEU	20	118.350	42.096	-5.221	1.00	41.62	TS20	ATOM	14128	CZ	ARG	25	109.370	39.509	-6.374	1.00	80.58	TS
ATOM	14076	CA	LEU	20	118.503	40.982	-6.142	1.00	41.62	TS20	ATOM	14129	NH1	ARG	25	108.737	38.342	-6.462	1.00	80.58	TS
ATOM	14077	CB	LEU	20	119.359	39.897	-5.534	1.00	52.51	TS20	ATOM	14130	NH2	ARG	25	109.937	39.875	-5.225	1.00	80.58	TS
ATOM	14078	CG	LEU	20	120.840	40.120	-5.801	1.00	52.51	TS20	ATOM	14131	C	ARG	25	111.319	41.447	-12.116	1.00	43.72	TS
ATOM	14079	CD1	LEU	20	121.265	41.450	-5.242	1.00	52.51	TS20	ATOM	14132	O	ARG	25	110.437	41.200	-12.194	1.00	43.72	TS
ATOM	14080	CD2	LEU	20	121.642	39.007	-5.168	1.00	52.51	TS20	ATOM	14133	N	ASN	26	112.105	42.520	-12.935	1.00	58.37	TS
ATOM	14081	C	LEU	20	117.164	40.405	-6.550	1.00	41.62	TS20	ATOM	14134	CA	ASN	26	111.969	43.500	-13.276	1.00	58.37	TS
ATOM	14082	O	LEU	20	116.906	40.119	-5.586	1.00	54.34	TS20	ATOM	14135	CB	ASN	26	112.762	44.768	-12.965	1.00	58.09	TS
ATOM	14083	N	LXS	21	115.002	39.563	-5.948	1.00	54.34	TS20	ATOM	14136	CG	ASN	26	112.233	45.506	-11.768	1.00	58.09	TS
ATOM	14084	CA	LXS	21	114.122	39.333	-4.720	1.00	63.11	TS20	ATOM	14137	OD1	ASN	26	111.029	45.742	-11.657	1.00	58.09	TS
ATOM	14085	CB	LXS	21	114.749	38.537	-3.591	1.00	63.11	TS20	ATOM	14138	NH2	ASN	26	113.130	45.891	-10.863	1.00	58.09	TS
ATOM	14086	CG	LXS	21	113.664	38.200	-2.586	1.00	63.11	TS20	ATOM	14139	C	ASN	26	112.449	42.958	-14.614	1.00	58.37	TS
ATOM	14087	CD	LXS	21	114.197	37.972	-1.182	1.00	63.11	TS20	ATOM	14140	O	ASN	26	111.769	43.117	-15.633	1.00	58.37	TS
ATOM	14088	CE	LXS	21	113.058	37.786	-0.221	1.00	63.11	TS20	ATOM	14141	N	LXS	27	113.632	42.341	-14.602	1.00	62.58	TS
ATOM	14089	NZ	LXS	21	114.314	40.558	-6.870	1.00	54.34	TS20	ATOM	14142	CA	LXS	27	114.232	41.765	-15.802	1.00	62.58	TS
ATOM	14090	C	LXS	21	113.770	40.191	-7.911	1.00	54.34	TS20	ATOM	14143	CB	LXS	27	115.401	40.857	-15.421	1.00	112.27	TS
ATOM	14091	N	ARG	22	114.350	41.829	-6.486	1.00	50.28	TS20	ATOM	14144	CG	LXS	27	116.543	41.583	-14.751	1.00	112.27	TS
ATOM	14092	O	ARG	22	113.719	42.881	-7.277	1.00	50.28	TS20	ATOM	14145	CD	LXS	27	117.066	42.696	-15.655	1.00	112.27	TS
ATOM	14093	CA	ARG	22	113.946	44.228	-6.603	1.00	65.39	TS20	ATOM	14146	CE	LXS	27	118.747	44.510	-15.968	1.00	112.27	TS
ATOM	14094	CB	ARG	22	113.076	44.420	-5.397	1.00	65.39	TS20	ATOM	14147	NZ	LXS	27	113.189	40.953	-16.547	1.00	62.58	TS
ATOM	14095	CG	ARG	22	113.504	45.602	-4.581	1.00	65.39	TS20	ATOM	14148	O	LXS	27	113.105	40.967	-17.777	1.00	62.58	TS
ATOM	14096	CD	ARG	22	112.472	45.901	-3.608	1.00	65.39	TS20	ATOM	14150	N	ALA	28	112.383	40.248	-15.774	1.00	45.83	TS
ATOM	14097	NE	ARG	22	111.301	46.431	-3.939	1.00	65.39	TS20	ATOM	14151	CA	ALA	28	111.356	39.417	-16.337	1.00	45.83	TS
ATOM	14098	CZ	ARG	22	111.055	46.719	-5.210	1.00	65.39	TS20	ATOM	14152	CB	ALA	28	110.840	38.480	-15.267	1.00	57.67	TS
ATOM	14099	NH1	ARG	22	110.370	46.643	-3.013	1.00	65.39	TS20	ATOM	14153	C	ALA	28	109.213	40.250	-16.937	1.00	45.83	TS
ATOM	14100	NH2	ARG	22	114.232	42.905	-8.711	1.00	50.28	TS20	ATOM	14154	O	ALA	28	109.779	39.992	-18.068	1.00	40.84	TS
ATOM	14101	C	ARG	22	113.446	43.017	-9.658	1.00	50.28	TS20	ATOM	14155	N	LXS	29	109.724	41.241	-16.191	1.00	40.84	TS
ATOM	14102	O	ARG	22	115.551	42.798	-8.862	1.00	50.18	TS20	ATOM	14156	CA	LXS	29	108.629	42.082	-16.679	1.00	40.84	TS
ATOM	14103	N	ARG	23	116.167	42.784	-10.183	1.00	50.18	TS20	ATOM	14157	CB	LXS	29	108.371	43.243	-15.714	1.00	98.08	TS
ATOM	14104	CA	ARG	23	117.687	42.631	-10.068	1.00	69.16	TS20	ATOM	14158	CG	LXS	29	107.976	42.835	-14.309	1.00	98.08	TS
ATOM	14105	CB	ARG	23	118.391	42.256	-11.368	1.00	69.16	TS20	ATOM	14159	CD	LXS	29	106.668	42.093	-14.311	1.00	98.08	TS
ATOM	14106	CG	ARG	23	119.913	42.328	-11.201	1.00	69.16	TS20	ATOM	14160	CE	LXS	29	106.329	41.575	-12.931	1.00	98.08	TS
ATOM	14107	CD	ARG	23	120.651	41.557	-12.205	1.00	69.16	TS20	ATOM	14161	NZ	LXS	29	105.038	40.478	-13.023	1.00	98.08	TS
ATOM	14108	CE	ARG	23	120.552	40.237	-12.366	1.00	69.16	TS20	ATOM	14162	C	LXS	29	108.937	42.652	-18.065	1.00	40.84	TS
ATOM	14109	CZ	ARG	23	119.743	39.524	-11.591	1.00	69.16	TS20	ATOM	14163	O	LXS	29	108.163	42.474	-19.018	1.00	40.84	TS
ATOM	14110	NH1	ARG	23	121.265	39.623	-13.300	1.00	69.16	TS20	ATOM	14164	N	LXS	30	110.084	43.326	-18.156	1.00	54.77	TS
ATOM	14111	NH2	ARG	23	115.586	41.622	-10.970	1.00	50.18	TS20	ATOM	14165	CA	LXS	30	110.537	43.967	-19.383	1.00	54.77	TS
ATOM	14112	C	ARG	23	115.071	41.804	-12.071	1.00	50.18	TS20	ATOM	14166	CB	LXS	30	111.817	44.749	-19.127	1.00	68.44	TS
ATOM	14113	O	ARG	23	115.638	40.431	-10.386	1.00	45.65	TS20	ATOM	14167	CG	LXS	30	111.710	45.793	-18.042	1.00	68.44	TS
ATOM	14114	N	LEU	24	115.117	39.249	-11.058	1.00	45.65	TS20	ATOM	14168	CD	LXS	30	113.085	46.369	-17.763	1.00	68.44	TS
ATOM	14115	CA	LEU	24	115.253	38.015	-10.153	1.00	66.62	TS20	ATOM	14169	CE	LXS	30	113.121	47.190	-16.487	1.00	68.44	TS

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ATOM	14170	NZ	LVS	30	114.529	47.314	-15.990	1.00	68.44	TS20	ATOM	14223	CA	LVS	38	108.392	42.638	-31.216	1.00	55.91	Ts
ATOM	14171	C	LVS	30	110.778	43.006	-20.525	1.00	54.77	TS20	ATOM	14224	CB	LVS	38	109.582	41.816	-30.845	1.00	51.86	Ts
ATOM	14172	O	LVS	30	110.498	43.333	-21.676	1.00	54.77	TS20	ATOM	14225	CG	LVS	38	110.445	42.344	-29.705	1.00	51.86	Ts
ATOM	14173	N	SER	31	111.317	41.829	-20.223	1.00	45.57	TS20	ATOM	14226	CD	LVS	38	111.418	43.441	-30.126	1.00	51.86	Ts
ATOM	14174	CA	SER	31	111.570	40.851	-21.276	1.00	45.57	TS20	ATOM	14227	CE	LVS	38	112.311	43.840	-29.942	1.00	51.86	Ts
ATOM	14175	CB	SER	31	112.209	39.591	-20.700	1.00	46.55	TS20	ATOM	14228	NZ	LVS	38	113.496	44.668	-28.316	1.00	51.86	Ts
ATOM	14176	OG	SER	31	113.606	39.568	-20.933	1.00	46.55	TS20	ATOM	14229	C	LVS	38	107.385	41.881	-32.013	1.00	55.91	Ts
ATOM	14177	C	SER	31	110.251	40.505	-21.960	1.00	45.57	TS20	ATOM	14230	O	LVS	38	107.262	42.053	-33.227	1.00	55.91	Ts
ATOM	14178	O	SER	31	110.147	40.502	-23.191	1.00	45.57	TS20	ATOM	14231	N	LVS	39	106.651	41.005	-31.324	1.00	51.68	Ts
ATOM	14179	N	ALA	32	109.240	40.216	-21.153	1.00	55.79	TS20	ATOM	14232	CA	LVS	39	105.651	40.161	-31.978	1.00	51.68	Ts
ATOM	14180	CA	ALA	32	107.939	39.895	-21.691	1.00	55.79	TS20	ATOM	14233	CB	LVS	39	105.994	39.221	-30.973	1.00	51.68	Ts
ATOM	14181	CB	ALA	32	106.951	39.749	-20.570	1.00	83.60	TS20	ATOM	14234	CG	LVS	39	105.486	37.808	-31.100	1.00	51.68	Ts
ATOM	14182	C	ALA	32	107.543	41.065	-22.583	1.00	55.79	TS20	ATOM	14235	CD	LVS	39	104.658	36.842	-30.285	1.00	51.68	Ts
ATOM	14183	O	ALA	32	107.296	40.916	-23.788	1.00	55.79	TS20	ATOM	14236	CE	LVS	39	105.124	35.424	-30.556	1.00	51.68	Ts
ATOM	14184	N	ILE	33	107.488	42.234	-21.957	1.00	47.38	TS20	ATOM	14237	NZ	LVS	39	106.603	35.284	-30.353	1.00	51.68	Ts
ATOM	14185	CA	ILE	33	107.139	43.463	-22.635	1.00	47.38	TS20	ATOM	14238	C	LVS	39	104.574	40.970	-32.682	1.00	51.68	Ts
ATOM	14186	CB	ILE	33	107.589	44.672	-21.813	1.00	55.70	TS20	ATOM	14239	O	LVS	39	104.358	40.804	-33.880	1.00	51.68	Ts
ATOM	14187	CG2	ILE	33	107.565	45.931	-22.664	1.00	55.70	TS20	ATOM	14240	N	ALA	40	103.898	41.839	-31.938	1.00	56.56	Ts
ATOM	14188	CG1	ILE	33	106.688	44.805	-20.586	1.00	55.70	TS20	ATOM	14241	CA	ALA	40	102.847	42.659	-32.520	1.00	56.56	Ts
ATOM	14189	CD1	ILE	33	107.171	45.821	-19.592	1.00	55.70	TS20	ATOM	14242	CB	ALA	40	102.281	43.611	-31.484	1.00	56.56	Ts
ATOM	14190	C	ILE	33	107.785	43.522	-23.999	1.00	47.38	TS20	ATOM	14243	C	ALA	40	103.403	43.444	-33.694	1.00	56.56	Ts
ATOM	14191	O	ILE	33	107.095	43.531	-25.007	1.00	47.38	TS20	ATOM	14244	N	VAL	41	102.777	44.523	-33.753	1.00	56.56	Ts
ATOM	14192	N	LVS	34	109.109	43.544	-24.039	1.00	53.47	TS20	ATOM	14245	CA	VAL	41	104.584	44.023	-33.512	1.00	57.93	Ts
ATOM	14193	CA	LVS	34	109.798	43.623	-25.317	1.00	53.47	TS20	ATOM	14246	CB	VAL	41	105.191	44.797	-34.588	1.00	57.93	Ts
ATOM	14194	CB	LVS	34	111.312	43.591	-25.084	1.00	67.66	TS20	ATOM	14247	CG	VAL	41	106.548	45.430	-34.157	1.00	54.43	Ts
ATOM	14195	CD	LVS	34	111.749	44.825	-24.291	1.00	67.66	TS20	ATOM	14248	CG1	VAL	41	107.253	46.004	-35.382	1.00	54.43	Ts
ATOM	14196	CE	LVS	34	113.212	44.860	-23.860	1.00	67.66	TS20	ATOM	14249	CG2	VAL	41	106.324	46.526	-33.104	1.00	54.43	Ts
ATOM	14197	CE	LVS	34	113.486	46.141	-23.039	1.00	67.66	TS20	ATOM	14250	C	VAL	41	105.429	43.864	-35.770	1.00	57.93	Ts
ATOM	14198	NZ	LVS	34	114.862	46.217	-22.441	1.00	67.66	TS20	ATOM	14251	O	VAL	41	104.997	44.134	-36.895	1.00	57.93	Ts
ATOM	14199	C	LVS	34	109.336	42.536	-26.282	1.00	53.47	TS20	ATOM	14252	N	GLN	42	106.109	42.759	-35.489	1.00	62.68	Ts
ATOM	14200	O	LVS	34	109.785	42.824	-27.346	1.00	53.47	TS20	ATOM	14253	CA	GLN	42	106.429	41.761	-36.494	1.00	62.68	Ts
ATOM	14201	N	THR	35	109.518	41.286	-25.894	1.00	63.28	TS20	ATOM	14254	CB	GLN	42	107.106	40.566	-35.828	1.00	62.68	Ts
ATOM	14202	CB	THR	35	109.111	40.164	-26.726	1.00	63.28	TS20	ATOM	14255	CG	GLN	42	108.321	40.045	-36.565	1.00	62.68	Ts
ATOM	14203	CG	THR	35	109.076	38.880	-25.899	1.00	62.41	TS20	ATOM	14256	CD	GLN	42	107.984	39.520	-37.937	1.00	62.68	Ts
ATOM	14204	OG1	THR	35	110.327	38.731	-25.214	1.00	62.41	TS20	ATOM	14257	OE1	GLN	42	107.485	40.252	-38.787	1.00	62.68	Ts
ATOM	14205	CG2	THR	35	108.834	37.679	-26.801	1.00	62.41	TS20	ATOM	14258	NE2	GLN	42	108.256	38.241	-38.164	1.00	62.68	Ts
ATOM	14206	C	THR	35	107.747	40.347	-27.394	1.00	63.28	TS20	ATOM	14259	C	GLN	42	105.162	41.309	-37.211	1.00	62.68	Ts
ATOM	14207	O	THR	35	107.628	40.251	-28.616	1.00	63.28	TS20	ATOM	14260	O	GLN	42	105.186	40.992	-38.393	1.00	62.68	Ts
ATOM	14208	N	LEU	36	106.716	40.601	-26.597	1.00	57.66	TS20	ATOM	14261	N	LEU	43	104.049	41.278	-36.490	1.00	76.83	Ts
ATOM	14209	CA	LEU	36	105.391	40.773	-27.159	1.00	57.66	TS20	ATOM	14262	CA	LEU	43	102.791	40.865	-37.089	1.00	76.83	Ts
ATOM	14210	CB	LEU	36	104.368	40.984	-26.048	1.00	40.62	TS20	ATOM	14263	CB	LEU	43	101.761	40.563	-36.002	1.00	62.63	Ts
ATOM	14211	CG	LEU	36	103.996	39.722	-25.268	1.00	40.62	TS20	ATOM	14264	CG	LEU	43	102.029	39.273	-35.228	1.00	62.63	Ts
ATOM	14212	CD1	LEU	36	102.704	39.955	-24.526	1.00	40.62	TS20	ATOM	14265	CD1	LEU	43	101.167	39.222	-33.986	1.00	62.63	Ts
ATOM	14213	CD2	LEU	36	103.804	38.570	-26.229	1.00	40.62	TS20	ATOM	14266	CD2	LEU	43	101.752	38.084	-36.125	1.00	62.63	Ts
ATOM	14214	C	LEU	36	105.312	41.908	-28.166	1.00	57.66	TS20	ATOM	14267	C	LEU	43	102.273	41.949	-38.018	1.00	76.83	Ts
ATOM	14215	O	LEU	36	104.702	41.763	-29.222	1.00	57.66	TS20	ATOM	14268	C	LEU	43	101.920	41.676	-39.166	1.00	76.83	Ts
ATOM	14216	N	SER	37	105.925	43.039	-27.845	1.00	58.63	TS20	ATOM	14269	N	ALA	44	102.239	43.180	-37.516	1.00	57.15	Ts
ATOM	14217	CA	SER	37	105.909	44.173	-28.761	1.00	58.63	TS20	ATOM	14270	CA	ALA	44	101.769	44.317	-38.305	1.00	57.15	Ts
ATOM	14218	CB	SER	37	106.755	45.309	-28.217	1.00	44.86	TS20	ATOM	14271	CB	ALA	44	102.079	45.617	-37.582	1.00	71.40	Ts
ATOM	14219	OG	SER	37	106.634	45.391	-26.813	1.00	44.86	TS20	ATOM	14272	C	ALA	44	102.448	44.290	-39.667	1.00	57.15	Ts
ATOM	14220	C	SER	37	106.500	43.713	-30.083	1.00	58.63	TS20	ATOM	14273	O	ALA	44	101.866	44.714	-40.664	1.00	57.15	Ts
ATOM	14221	O	SER	37	105.864	43.834	-31.132	1.00	58.63	TS20	ATOM	14274	N	GLN	45	103.680	43.783	-39.688	1.00	77.97	Ts
ATOM	14222	N	LVS	38	107.720	43.184	-30.023	1.00	55.91	TS20	ATOM	14275	CA	GLN	45	104.461	43.640	-40.914	1.00	77.97	Ts

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ATOM	14276	CB	GLN	45	105.638	42.699	-40.677	1.00120.95	TS20	ATOM	14329	CA	ALA	52	98.774	41.701	-34.665	1.0070.07	TS
ATOM	14277	CG	GLN	45	106.913	43.378	-40.282	1.00120.95	TS20	ATOM	14330	CB	ALA	52	99.042	42.528	-35.913	1.0059.02	TS
ATOM	14278	CD	GLN	45	107.413	44.270	-41.380	1.00120.95	TS20	ATOM	14331	C	ALA	52	98.256	42.594	-33.537	1.0070.07	TS
ATOM	14279	OE1	GLN	45	107.402	43.890	-42.549	1.00120.95	TS20	ATOM	14332	O	ALA	52	98.963	42.855	-32.562	1.0070.07	TS
ATOM	14280	NE2	GLN	45	107.861	45.465	-41.018	1.00120.95	TS20	ATOM	14333	N	LEU	53	97.019	43.056	-33.661	1.0052.44	TS
ATOM	14281	C	GLN	45	103.589	43.046	-42.007	1.0077.97	TS20	ATOM	14334	CA	LEU	53	96.451	43.922	-32.640	1.0052.44	TS
ATOM	14282	O	GLN	45	103.202	43.733	-42.950	1.0077.97	TS20	ATOM	14335	CB	LEU	53	95.125	44.509	-33.125	1.0048.17	TS
ATOM	14283	N	GLU	46	102.284	41.758	-41.868	1.0066.71	TS20	ATOM	14336	CG	LEU	53	95.326	45.732	-34.031	1.0048.17	TS
ATOM	14284	CA	GLU	46	102.455	41.060	-42.840	1.0066.71	TS20	ATOM	14337	CD1	LEU	53	94.118	46.958	-34.905	1.0048.17	TS
ATOM	14285	CB	GLU	46	102.563	39.542	-42.668	1.0091.95	TS20	ATOM	14338	CD2	LEU	53	96.612	45.967	-33.167	1.0048.17	TS
ATOM	14286	CG	GLU	46	103.974	38.996	-42.658	1.0091.95	TS20	ATOM	14339	C	LEU	53	96.260	43.173	-31.335	1.0052.44	TS
ATOM	14287	CD	GLU	46	104.577	38.971	-41.269	1.0091.95	TS20	ATOM	14340	O	LEU	53	96.622	43.683	-30.267	1.0052.44	TS
ATOM	14288	OE1	GLU	46	104.045	38.240	-40.403	1.0091.95	TS20	ATOM	14341	N	LYS	54	95.700	41.963	-31.427	1.0065.52	TS
ATOM	14289	OE2	GLU	46	105.581	39.682	-41.051	1.0091.95	TS20	ATOM	14342	CA	LYS	54	95.463	41.122	-30.249	1.0065.52	TS
ATOM	14290	C	GLU	46	101.002	41.462	-42.680	1.0066.71	TS20	ATOM	14343	CB	LYS	54	95.193	39.672	-30.663	1.00117.29	TS
ATOM	14291	O	GLU	46	100.103	40.665	-42.948	1.0066.71	TS20	ATOM	14344	CG	LYS	54	93.746	38.066	-31.971	1.00117.29	TS
ATOM	14292	N	GLY	47	100.769	42.692	-42.231	1.0080.25	TS20	ATOM	14345	CD	LYS	54	92.444	37.909	-32.749	1.00117.29	TS
ATOM	14293	CA	GLY	47	99.406	43.175	-42.052	1.0080.25	TS20	ATOM	14346	CE	LYS	54	92.370	36.602	-33.454	1.00117.29	TS
ATOM	14294	C	GLY	47	98.419	42.193	-41.433	1.0080.25	TS20	ATOM	14347	NZ	LYS	54	96.687	41.175	-29.354	1.0065.52	TS
ATOM	14295	O	GLY	47	97.277	42.082	-41.883	1.0080.25	TS20	ATOM	14348	C	LYS	54	96.598	41.560	-28.189	1.0065.52	TS
ATOM	14296	N	LYS	48	98.866	41.474	-40.405	1.0067.71	TS20	ATOM	14349	O	LYS	54	97.833	40.793	-29.913	1.0052.49	TS
ATOM	14297	CA	LYS	48	98.031	40.513	-39.696	1.0067.71	TS20	ATOM	14350	N	ILE	55	99.080	40.813	-29.172	1.0052.49	TS
ATOM	14298	CB	LYS	48	98.920	39.563	-38.900	1.0090.40	TS20	ATOM	14351	CA	ILE	55	100.243	40.285	-30.029	1.0044.29	TS
ATOM	14299	CG	LYS	48	99.856	38.728	-39.745	1.0090.40	TS20	ATOM	14352	CB	ILE	55	101.581	40.754	-29.458	1.0044.29	TS
ATOM	14300	CD	LYS	48	99.089	37.706	-40.559	1.0090.40	TS20	ATOM	14353	CG2	ILE	55	100.162	38.756	-30.096	1.0044.29	TS
ATOM	14301	CE	LYS	48	100.030	36.725	-41.235	1.0090.40	TS20	ATOM	14354	CG1	ILE	55	101.470	38.069	-30.546	1.0044.29	TS
ATOM	14302	NZ	LYS	48	99.261	35.681	-41.967	1.0067.71	TS20	ATOM	14355	C	ILE	55	99.388	42.231	-28.711	1.0052.49	TS
ATOM	14303	C	LYS	48	97.130	41.302	-38.746	1.0067.71	TS20	ATOM	14356	C	ILE	55	99.798	42.450	-27.566	1.0052.49	TS
ATOM	14304	O	LYS	48	96.325	42.187	-39.312	1.0061.97	TS20	ATOM	14357	N	ILE	55	99.189	43.201	-29.598	1.0052.92	TS
ATOM	14305	N	ALA	49	95.430	43.037	-38.538	1.0061.97	TS20	ATOM	14358	CA	MET	56	99.449	44.578	-29.225	1.0052.92	TS
ATOM	14306	CA	ALA	49	94.204	43.394	-39.379	1.00114.99	TS20	ATOM	14359	CB	MET	56	98.948	44.531	-30.296	1.0069.53	TS
ATOM	14307	CB	ALA	49	94.986	42.462	-37.198	1.0061.97	TS20	ATOM	14360	CB	MET	56	99.245	46.971	-29.949	1.0069.53	TS
ATOM	14308	C	ALA	49	95.454	42.906	-36.147	1.0061.97	TS20	ATOM	14361	CG	MET	56	98.099	48.125	-30.703	1.0069.53	TS
ATOM	14309	O	ALA	49	94.076	41.488	-37.242	1.0086.98	TS20	ATOM	14362	SD	MET	56	99.079	48.680	-32.072	1.0069.53	TS
ATOM	14311	CA	GLU	50	93.549	40.862	-36.030	1.0086.98	TS20	ATOM	14363	C	MET	56	98.753	44.895	-27.897	1.0052.92	TS
ATOM	14312	CB	GLU	50	92.730	39.617	-36.367	1.00137.67	TS20	ATOM	14364	C	MET	56	99.314	45.575	-27.040	1.0052.92	TS
ATOM	14313	CG	GLU	50	91.314	39.901	-36.822	1.00137.67	TS20	ATOM	14365	O	MET	56	97.534	44.393	-27.722	1.0049.51	TS
ATOM	14314	CD	GLU	50	90.318	38.903	-36.250	1.00137.67	TS20	ATOM	14366	N	ARG	57	96.790	44.642	-26.490	1.0049.51	TS
ATOM	14315	OE1	GLU	50	90.487	37.686	-36.484	1.00137.67	TS20	ATOM	14367	CA	ARG	57	95.359	44.144	-26.636	1.0076.56	TS
ATOM	14316	OE2	GLU	50	89.366	39.336	-35.565	1.00137.67	TS20	ATOM	14368	CB	ARG	57	94.436	45.167	-27.249	1.0076.56	TS
ATOM	14317	C	GLU	50	94.621	40.475	-35.035	1.0086.98	TS20	ATOM	14369	CG	ARG	57	93.120	44.536	-27.627	1.0076.56	TS
ATOM	14318	O	GLU	50	94.857	41.181	-34.052	1.0086.98	TS20	ATOM	14370	CD	ARG	57	92.275	43.670	-28.789	1.0076.56	TS
ATOM	14319	N	GLU	51	95.258	39.340	-35.300	1.0069.64	TS20	ATOM	14371	NE	ARG	57	91.054	43.075	-28.850	1.0076.56	TS
ATOM	14320	CA	GLU	51	96.308	38.819	-34.439	1.0069.64	TS20	ATOM	14372	CZ	ARG	57	92.509	42.249	-30.426	1.0076.56	TS
ATOM	14321	CB	GLU	51	97.041	37.684	-35.159	1.00159.16	TS20	ATOM	14373	NH1	ARG	57	97.435	44.048	-25.236	1.0049.51	TS
ATOM	14322	CG	GLU	51	97.196	37.905	-36.653	1.00159.16	TS20	ATOM	14374	NH2	ARG	57	97.417	44.664	-25.174	1.0049.51	TS
ATOM	14323	CD	GLU	51	97.310	36.605	-37.437	1.00159.16	TS20	ATOM	14375	C	ARG	57	97.933	42.850	-25.337	1.0056.71	TS
ATOM	14324	OE1	GLU	51	98.238	35.812	-37.160	1.00159.16	TS20	ATOM	14376	O	ARG	58	98.648	42.287	-24.172	1.0056.71	TS
ATOM	14325	OE2	GLU	51	96.468	36.377	-38.333	1.00159.16	TS20	ATOM	14377	N	LYS	58	99.175	40.878	-24.460	1.0096.73	TS
ATOM	14326	C	GLU	51	97.277	39.912	-34.801	1.0069.64	TS20	ATOM	14378	CB	LYS	58	98.079	39.909	-24.850	1.0096.73	TS
ATOM	14327	O	GLU	51	97.500	40.115	-32.801	1.0069.64	TS20	ATOM	14380	CG	LYS	58	98.565	38.467	-24.980	1.0096.73	TS
ATOM	14328	N	ALA	52	97.833	40.632	-34.969	1.0070.07	TS20	ATOM	14381	CD	LYS	58					TS

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ATOM	14382	CE	LYS	58	97.394	37.543	-25.361	1.00	96.73	TS20	ATOM	14435	CE	LYS	65	97.779	43.422	-15.932	1.00	44.27	TS
ATOM	14383	NZ	LYS	58	97.731	36.084	-25.400	1.00	96.73	TS20	ATOM	14436	NZ	LYS	65	97.544	41.980	-15.704	1.00	44.27	TS
ATOM	14384	O	LYS	58	99.797	43.250	-23.889	1.00	56.71	TS20	ATOM	14437	C	LYS	65	102.480	47.146	-14.883	1.00	50.08	TS
ATOM	14385	C	LYS	58	99.951	43.744	-22.767	1.00	56.71	TS20	ATOM	14438	O	LYS	65	102.561	47.351	-13.673	1.00	50.08	TS
ATOM	14386	N	ALA	59	100.579	43.534	-24.931	1.00	45.28	TS20	ATOM	14439	N	ALA	66	103.545	47.025	-15.669	1.00	53.87	TS
ATOM	14387	CA	ALA	59	101.709	44.445	-24.822	1.00	45.28	TS20	ATOM	14440	CA	ALA	66	104.886	47.192	-15.120	1.00	53.87	TS
ATOM	14388	CB	ALA	59	102.201	44.824	-26.201	1.00	62.43	TS20	ATOM	14441	CB	ALA	66	105.926	47.107	-16.228	1.00	30.55	TS
ATOM	14389	C	ALA	59	101.309	45.700	-24.058	1.00	45.28	TS20	ATOM	14442	C	ALA	66	104.903	48.572	-14.469	1.00	53.87	TS
ATOM	14390	O	ALA	59	101.951	46.065	-23.048	1.00	45.28	TS20	ATOM	14443	O	ALA	67	105.482	48.772	-13.403	1.00	53.87	TS
ATOM	14391	N	GLU	60	100.249	46.363	-24.494	1.00	37.77	TS20	ATOM	14444	N	ALA	67	104.227	49.513	-15.114	1.00	38.87	TS
ATOM	14392	CA	GLU	60	99.819	47.551	-23.797	1.00	37.77	TS20	ATOM	14445	CA	ALA	67	103.436	51.760	-15.597	1.00	40.57	TS
ATOM	14393	CB	GLU	60	98.524	48.101	-24.391	1.00	44.30	TS20	ATOM	14446	CB	ALA	67	104.153	50.863	-14.608	1.00	38.87	TS
ATOM	14394	CG	GLU	60	98.072	49.397	-23.737	1.00	44.30	TS20	ATOM	14447	C	ALA	67	103.667	51.810	-12.466	1.00	38.87	TS
ATOM	14395	CD	GLU	60	96.801	49.958	-24.348	1.00	44.30	TS20	ATOM	14448	O	ALA	68	102.608	49.893	-13.006	1.00	40.25	TS
ATOM	14396	OE1	GLU	60	96.414	51.082	-23.970	1.00	44.30	TS20	ATOM	14449	N	LYS	68	101.903	49.827	-11.729	1.00	40.25	TS
ATOM	14397	OE2	GLU	60	96.177	49.282	-25.196	1.00	44.30	TS20	ATOM	14450	CA	LYS	68	101.119	48.518	-11.590	1.00	79.73	TS
ATOM	14398	C	GLU	60	99.629	47.208	-22.318	1.00	37.77	TS20	ATOM	14451	CB	LYS	68	99.870	48.399	-12.442	1.00	79.73	TS
ATOM	14399	O	GLU	60	100.237	47.837	-21.451	1.00	37.77	TS20	ATOM	14452	CG	LYS	68	98.625	48.896	-11.714	1.00	79.73	TS
ATOM	14400	N	SER	61	98.817	46.195	-22.028	1.00	48.56	TS20	ATOM	14453	CD	LYS	68	98.619	50.420	-11.506	1.00	79.73	TS
ATOM	14401	CA	SER	61	98.569	45.778	-20.644	1.00	48.56	TS20	ATOM	14454	CE	LYS	68	97.285	50.977	-11.059	1.00	79.73	TS
ATOM	14402	CB	SER	61	97.717	44.506	-20.626	1.00	80.13	TS20	ATOM	14455	NZ	LYS	68	102.743	50.910	-10.615	1.00	40.25	TS
ATOM	14403	CG	SER	61	98.022	43.698	-19.505	1.00	48.56	TS20	ATOM	14456	C	LYS	68	102.939	49.601	-9.642	1.00	40.25	TS
ATOM	14404	C	SER	61	99.839	45.543	-19.799	1.00	48.56	TS20	ATOM	14457	O	LYS	68	104.025	49.164	-10.762	1.00	58.95	TS
ATOM	14405	O	SER	61	100.027	46.149	-18.733	1.00	48.56	TS20	ATOM	14458	N	GLY	69	105.039	49.183	-9.733	1.00	58.95	TS
ATOM	14406	N	LEU	62	100.705	44.653	-20.260	1.00	54.05	TS20	ATOM	14459	CA	GLY	69	106.192	50.088	-10.097	1.00	58.95	TS
ATOM	14407	CA	LEU	62	101.910	44.377	-19.501	1.00	54.05	TS20	ATOM	14460	C	GLY	69	105.992	51.171	-10.664	1.00	58.95	TS
ATOM	14408	CB	LEU	62	102.808	43.403	-20.258	1.00	36.72	TS20	ATOM	14461	O	GLY	70	107.405	49.653	-9.768	1.00	37.13	TS
ATOM	14409	CG	LEU	62	102.246	41.983	-20.381	1.00	36.72	TS20	ATOM	14462	N	SER	70	108.581	50.442	-10.082	1.00	37.13	TS
ATOM	14410	CD1	LEU	62	103.311	41.038	-20.953	1.00	36.72	TS20	ATOM	14463	CA	SER	70	109.414	50.685	-8.818	1.00	52.31	TS
ATOM	14411	CD2	LEU	62	101.795	41.512	-19.010	1.00	54.05	TS20	ATOM	14464	CG	SER	70	109.442	49.819	-11.185	1.00	37.13	TS
ATOM	14412	C	LEU	62	102.669	45.657	-19.202	1.00	54.05	TS20	ATOM	14465	O	SER	70	110.521	50.318	-11.471	1.00	37.13	TS
ATOM	14413	O	LEU	62	103.223	45.834	-18.112	1.00	54.05	TS20	ATOM	14466	C	SER	70	109.442	49.819	-11.185	1.00	37.13	TS
ATOM	14414	N	ILE	63	102.692	46.553	-20.178	1.00	42.56	TS20	ATOM	14467	O	SER	70	110.521	50.318	-11.471	1.00	37.13	TS
ATOM	14415	CA	ILE	63	103.386	47.814	-20.014	1.00	42.56	TS20	ATOM	14468	N	THR	71	108.956	48.754	-11.823	1.00	59.06	TS
ATOM	14416	CB	ILE	63	103.379	48.582	-21.344	1.00	42.44	TS20	ATOM	14469	CA	THR	71	109.700	46.978	-13.547	1.00	48.32	TS
ATOM	14417	CG2	ILE	63	104.012	49.956	-21.172	1.00	42.44	TS20	ATOM	14470	CB	THR	71	108.883	46.978	-13.547	1.00	48.32	TS
ATOM	14418	CG1	ILE	63	104.129	47.750	-22.393	1.00	42.44	TS20	ATOM	14471	OG1	THR	71	108.162	46.289	-12.525	1.00	48.32	TS
ATOM	14419	CD1	ILE	63	104.136	48.346	-23.790	1.00	42.44	TS20	ATOM	14472	CG2	THR	71	109.800	45.984	-14.267	1.00	48.32	TS
ATOM	14420	C	ILE	63	102.717	48.615	-18.900	1.00	42.56	TS20	ATOM	14473	C	THR	71	110.020	49.114	-13.971	1.00	59.06	TS
ATOM	14421	O	ILE	63	103.318	48.857	-17.855	1.00	42.56	TS20	ATOM	14474	O	THR	71	111.023	49.015	-14.675	1.00	59.06	TS
ATOM	14422	N	ASP	64	101.465	49.005	-19.112	1.00	45.19	TS20	ATOM	14475	N	LEU	72	109.139	50.092	-14.080	1.00	76.19	TS
ATOM	14423	CA	ASP	64	100.751	49.759	-18.097	1.00	45.19	TS20	ATOM	14476	CA	LEU	72	109.268	50.184	-15.026	1.00	76.19	TS
ATOM	14424	CB	ASP	64	99.261	50.990	-19.411	1.00	95.28	TS20	ATOM	14477	CB	LEU	72	108.493	50.691	-17.467	1.00	52.48	TS
ATOM	14425	CG	ASP	64	98.948	50.990	-19.411	1.00	95.28	TS20	ATOM	14478	CG	LEU	72	107.199	50.851	-17.554	1.00	52.48	TS
ATOM	14426	OD1	ASP	64	99.141	52.171	-19.044	1.00	95.28	TS20	ATOM	14479	CD1	LEU	72	109.066	49.725	-18.687	1.00	52.48	TS
ATOM	14427	OD2	ASP	64	98.503	50.710	-20.543	1.00	95.28	TS20	ATOM	14480	CD2	LEU	72	107.917	51.798	-14.941	1.00	76.19	TS
ATOM	14428	C	ASP	64	100.932	49.073	-16.747	1.00	45.19	TS20	ATOM	14481	C	LEU	72	106.969	51.093	-14.611	1.00	86.39	TS
ATOM	14429	O	ASP	64	101.040	49.732	-15.712	1.00	50.08	TS20	ATOM	14482	N	HIS	73	107.809	53.097	-15.188	1.00	86.39	TS
ATOM	14430	N	LYS	65	100.982	47.743	-16.764	1.00	50.08	TS20	ATOM	14483	N	HIS	73	106.466	53.687	-15.190	1.00	86.39	TS
ATOM	14431	CA	LYS	65	101.135	46.975	-15.540	1.00	44.27	TS20	ATOM	14484	CA	HIS	73	105.667	53.313	-13.920	1.00	109.59	TS
ATOM	14432	CB	LYS	65	100.911	45.504	-15.809	1.00	44.27	TS20	ATOM	14485	CB	HIS	73	106.351	53.548	-12.607	1.00	109.59	TS
ATOM	14433	CG	LYS	65	99.486	45.173	-16.044	1.00	44.27	TS20	ATOM	14486	CG	HIS	73	105.893	54.112	-11.463	1.00	109.59	TS
ATOM	14434	CD	LYS	65	99.247	43.713	-15.838	1.00	44.27	TS20	ATOM	14487	CD2	HIS	73						TS

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ATOM	14488	NDI	HIS	73	107.616	53.083	-12.324	1.00109.59	TS20	ATOM	14541	NE	ARG	80	109.833	51.051	-22.333	1.00	68.32	TS	
ATOM	14489	CEI	HIS	73	107.909	53.351	-11.063	1.00109.59	TS20	ATOM	14542	CZ	ARG	80	110.838	50.284	-21.930	1.00	68.32	TS	
ATOM	14490	NEZ	HIS	73	106.880	53.973	-10.518	1.00109.59	TS20	ATOM	14543	NH1	ARG	80	110.869	48.990	-22.252	1.00	68.32	TS	
ATOM	14491	C	HIS	73	106.306	55.148	-15.489	1.00	86.39	TS20	ATOM	14544	NH2	ARG	80	111.815	50.820	-21.208	1.00	68.32	TS
ATOM	14492	O	HIS	73	107.193	55.976	-15.227	1.00	86.39	TS20	ATOM	14545	C	ARG	80	105.218	52.199	-25.902	1.00	49.64	TS
ATOM	14493	N	LYS	74	105.122	55.414	-16.055	1.00	81.63	TS20	ATOM	14546	O	ARG	80	105.224	51.903	-27.105	1.00	49.64	TS
ATOM	14494	CA	LYS	74	104.669	56.727	-16.453	1.00	81.63	TS20	ATOM	14547	N	LYS	81	104.115	52.450	-25.204	1.00	43.91	TS
ATOM	14495	CB	LYS	74	104.380	57.579	-15.220	1.00	91.06	TS20	ATOM	14548	CA	LYS	81	102.804	52.366	-25.810	1.00	43.91	TS
ATOM	14496	CG	LYS	74	103.132	57.164	-14.478	1.00	91.06	TS20	ATOM	14549	CB	LYS	81	101.755	52.855	-24.812	1.00	54.80	TS
ATOM	14497	CD	LYS	74	101.900	57.321	-15.367	1.00	91.06	TS20	ATOM	14550	CG	LYS	81	101.612	51.901	-23.620	1.00	54.80	TS
ATOM	14498	CE	LYS	74	100.667	56.650	-14.757	1.00	91.06	TS20	ATOM	14551	CD	LYS	81	100.858	52.518	-22.476	1.00	54.80	TS
ATOM	14499	NZ	LYS	74	99.488	56.635	-15.676	1.00	91.06	TS20	ATOM	14552	CE	LYS	81	99.472	52.966	-22.858	1.00	54.80	TS
ATOM	14500	C	LYS	74	105.732	57.367	-17.306	1.00	81.63	TS20	ATOM	14553	NZ	LYS	81	98.753	53.637	-21.751	1.00	54.80	TS
ATOM	14501	O	LYS	74	106.860	57.570	-16.856	1.00	81.63	TS20	ATOM	14554	C	LYS	81	102.725	53.124	-27.128	1.00	43.91	TS
ATOM	14502	N	ASN	75	105.368	57.694	-18.540	1.00	52.94	TS20	ATOM	14555	O	LYS	81	102.138	52.625	-28.094	1.00	43.91	TS
ATOM	14503	CA	ASN	75	106.307	58.295	-19.480	1.00	52.94	TS20	ATOM	14556	N	SER	82	103.335	54.309	-27.180	1.00	52.18	TS
ATOM	14504	CB	ASN	75	107.309	59.199	-18.749	1.00	45.41	TS20	ATOM	14557	CA	SER	82	103.334	55.123	-28.398	1.00	52.18	TS
ATOM	14505	CG	ASN	75	106.636	60.355	-18.023	1.00	45.41	TS20	ATOM	14558	CB	SER	82	103.947	56.484	-28.141	1.00	46.44	TS
ATOM	14506	ODI	ASN	75	105.567	60.203	-17.434	1.00	45.41	TS20	ATOM	14559	OG	SER	82	103.637	56.884	-26.836	1.00	46.44	TS
ATOM	14507	NDZ	ASN	75	107.273	61.520	-18.057	1.00	45.41	TS20	ATOM	14560	C	SER	82	104.127	54.457	-29.496	1.00	52.18	TS
ATOM	14508	C	ASN	75	107.016	57.089	-20.058	1.00	52.94	TS20	ATOM	14561	O	SER	82	103.564	54.048	-30.500	1.00	52.18	TS
ATOM	14509	O	ASN	75	106.887	56.782	-21.248	1.00	52.94	TS20	ATOM	14562	N	ARG	83	105.437	54.342	-29.314	1.00	53.87	TS
ATOM	14510	N	ALA	76	107.746	56.400	-19.181	1.00	52.46	TS20	ATOM	14563	CA	ARG	83	106.257	53.730	-30.349	1.00	53.87	TS
ATOM	14511	CA	ALA	76	108.470	55.190	-19.534	1.00	52.46	TS20	ATOM	14564	CB	ARG	83	107.720	53.599	-29.897	1.00	110.10.08	TS
ATOM	14512	CB	ALA	76	108.950	54.502	-18.281	1.00	47.29	TS20	ATOM	14565	CG	ARG	83	107.936	53.548	-28.392	1.00	110.10.08	TS
ATOM	14513	C	ALA	76	107.482	54.299	-20.266	1.00	52.46	TS20	ATOM	14566	CD	ARG	83	108.000	54.945	-27.789	1.00	110.10.08	TS
ATOM	14514	O	ALA	76	107.714	53.892	-21.405	1.00	52.46	TS20	ATOM	14567	NE	ARG	83	109.364	55.426	-27.549	1.00	110.10.08	TS
ATOM	14515	N	ALA	77	106.366	54.016	-19.600	1.00	45.82	TS20	ATOM	14568	CZ	ARG	83	110.256	55.693	-28.497	1.00	110.10.08	TS
ATOM	14516	CA	ALA	77	105.317	53.188	-20.173	1.00	45.82	TS20	ATOM	14569	NH1	ARG	83	109.942	55.524	-29.776	1.00	110.10.08	TS
ATOM	14517	CB	ALA	77	104.576	53.930	-21.269	1.00	45.82	TS20	ATOM	14570	NH2	ARG	83	111.458	56.147	-28.161	1.00	110.10.08	TS
ATOM	14518	C	ALA	77	104.264	53.343	-22.305	1.00	45.82	TS20	ATOM	14571	C	ARG	83	105.720	52.371	-30.797	1.00	53.87	TS
ATOM	14519	O	ALA	77	104.286	55.210	-21.047	1.00	45.43	TS20	ATOM	14572	O	ARG	83	106.079	51.883	-31.874	1.00	53.87	TS
ATOM	14520	N	ALA	78	103.584	56.000	-22.055	1.00	45.43	TS20	ATOM	14573	N	LEU	84	104.861	51.760	-29.981	1.00	52.28	TS
ATOM	14521	CA	ALA	78	103.483	57.418	-21.620	1.00	24.31	TS20	ATOM	14574	CA	LEU	84	103.917	49.662	-29.079	1.00	42.34	TS
ATOM	14522	CB	ALA	78	103.698	55.922	-23.389	1.00	45.43	TS20	ATOM	14575	CB	LEU	84	103.917	49.662	-29.079	1.00	42.34	TS
ATOM	14523	C	ALA	78	103.637	55.697	-24.438	1.00	45.43	TS20	ATOM	14576	CG	LEU	84	103.914	48.125	-29.203	1.00	42.34	TS
ATOM	14524	O	ALA	78	103.637	55.697	-24.438	1.00	45.43	TS20	ATOM	14577	CD1	LEU	84	102.869	47.552	-28.231	1.00	42.34	TS
ATOM	14525	N	ARG	79	105.637	56.108	-23.342	1.00	49.23	TS20	ATOM	14578	CD2	LEU	84	103.592	47.686	-30.629	1.00	42.34	TS
ATOM	14526	CA	ARG	79	106.469	56.034	-24.544	1.00	49.23	TS20	ATOM	14579	C	LEU	84	103.026	50.676	-31.163	1.00	52.28	TS
ATOM	14527	CB	ARG	79	107.953	56.051	-24.203	1.00	59.33	TS20	ATOM	14580	O	LEU	84	102.932	50.170	-32.273	1.00	52.28	TS
ATOM	14528	CG	ARG	79	108.589	57.404	-24.059	1.00	59.33	TS20	ATOM	14581	N	MET	85	102.054	51.412	-30.633	1.00	64.21	TS
ATOM	14529	CD	ARG	79	109.911	57.392	-24.771	1.00	59.33	TS20	ATOM	14582	CA	MET	85	100.836	51.553	-31.396	1.00	64.21	TS
ATOM	14530	NE	ARG	79	110.558	56.084	-24.698	1.00	59.33	TS20	ATOM	14583	CB	MET	85	99.859	52.529	-30.593	1.00	63.35	TS
ATOM	14531	CZ	ARG	79	111.121	55.563	-23.606	1.00	59.33	TS20	ATOM	14584	CG	MET	85	99.509	51.954	-29.214	1.00	63.35	TS
ATOM	14532	NH1	ARG	79	111.133	56.230	-22.445	1.00	59.33	TS20	ATOM	14585	SD	MET	85	98.150	52.766	-28.295	1.00	63.35	TS
ATOM	14533	NH2	ARG	79	111.696	54.367	-23.690	1.00	59.33	TS20	ATOM	14586	CE	MET	85	97.292	51.351	-27.632	1.00	63.35	TS
ATOM	14534	C	ARG	79	106.211	54.733	-25.250	1.00	49.23	TS20	ATOM	14587	C	MET	85	101.244	52.327	-32.714	1.00	64.21	TS
ATOM	14535	O	ARG	79	105.655	54.703	-26.344	1.00	49.23	TS20	ATOM	14588	O	MET	85	100.820	51.919	-33.797	1.00	64.21	TS
ATOM	14536	N	ARG	80	106.655	53.659	-24.605	1.00	49.64	TS20	ATOM	14589	N	ARG	86	102.093	53.345	-32.604	1.00	57.41	TS
ATOM	14537	CA	ARG	80	106.506	52.309	-25.121	1.00	49.64	TS20	ATOM	14590	CA	ARG	86	102.610	54.087	-33.747	1.00	57.41	TS
ATOM	14538	CB	ARG	80	106.460	51.311	-23.971	1.00	68.32	TS20	ATOM	14591	CB	ARG	86	103.813	54.920	-33.299	1.00	101.33.90	TS
ATOM	14539	CG	ARG	80	107.546	51.519	-22.945	1.00	68.32	TS20	ATOM	14592	CG	ARG	86	104.071	56.176	-34.094	1.00	101.33.90	TS
ATOM	14540	CD	ARG	80	108.713	50.588	-23.135	1.00	68.32	TS20	ATOM	14593	CD	ARG	86	103.218	57.319	-33.588	1.00	101.33.90	TS

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ATOM	14594	NE	ARG	86	103.529	58.572	-34.273	1.00133.90	TS20	ATOM	14647	CG	LEU	92	98.372	46.900	-38.696	1.00 50.89	TS
ATOM	14595	C2	ARG	86	102.964	59.744	-33.988	1.00133.90	TS20	ATOM	14648	CD1	LEU	92	97.242	47.011	-37.680	1.00 50.89	TS
ATOM	14596	NH1	ARG	86	102.051	59.833	-33.026	1.00133.90	TS20	ATOM	14649	CD2	LEU	92	98.326	45.542	-39.402	1.00 50.89	TS
ATOM	14597	NH2	ARG	86	103.311	60.832	-34.666	1.00133.90	TS20	ATOM	14650	C	LEU	92	98.916	48.511	-42.116	1.00 71.22	TS
ATOM	14598	C	ARG	86	103.062	53.059	-34.785	1.00 57.41	TS20	ATOM	14651	O	LEU	92	98.023	48.028	-42.816	1.00 71.22	TS
ATOM	14599	O	ARG	86	102.409	52.843	-35.807	1.00 57.41	TS20	ATOM	14652	N	GLU	93	99.569	49.620	-42.447	1.00 70.43	TS
ATOM	14600	N	LYS	87	104.185	52.415	-35.491	1.00 43.70	TS20	ATOM	14653	CA	GLU	93	99.276	50.301	-43.703	1.00 70.43	TS
ATOM	14601	CA	LYS	87	104.769	51.406	-35.355	1.00 43.70	TS20	ATOM	14654	CB	GLU	93	99.723	51.757	-43.652	1.00134.04	TS
ATOM	14602	CB	LYS	87	105.859	50.671	-34.587	1.00 66.36	TS20	ATOM	14655	CG	GLU	93	98.824	52.580	-42.763	1.00134.04	TS
ATOM	14603	CG	LYS	87	107.063	50.271	-35.424	1.00 66.36	TS20	ATOM	14656	CD	GLU	93	97.384	52.092	-42.818	1.00134.04	TS
ATOM	14604	CD	LYS	87	108.229	49.890	-34.516	1.00 66.36	TS20	ATOM	14657	OE1	GLU	93	96.838	51.968	-43.936	1.00134.04	TS
ATOM	14605	CE	LYS	87	108.499	50.998	-33.503	1.00 66.36	TS20	ATOM	14658	OE2	GLU	93	96.805	51.823	-41.745	1.00134.04	TS
ATOM	14606	NZ	LYS	87	109.516	50.616	-32.490	1.00 66.36	TS20	ATOM	14659	C	GLU	93	99.999	49.543	-44.802	1.00 70.43	TS
ATOM	14607	C	LYS	87	103.760	50.396	-35.909	1.00 43.70	TS20	ATOM	14660	O	GLU	93	100.876	50.064	-45.492	1.00 70.43	TS
ATOM	14608	O	LYS	87	103.810	50.048	-37.091	1.00 43.70	TS20	ATOM	14661	N	ALA	94	99.617	48.277	-44.908	1.00100.76	TS
ATOM	14609	N	VAL	88	102.844	49.919	-35.072	1.00 52.70	TS20	ATOM	14662	CA	ALA	94	100.145	47.341	-45.879	1.00100.76	TS
ATOM	14610	CA	VAL	88	101.882	48.935	-35.543	1.00 56.40	TS20	ATOM	14663	CB	ALA	94	100.935	46.267	-45.171	1.00100.76	TS
ATOM	14611	CB	VAL	88	101.078	48.324	-34.377	1.00 56.40	TS20	ATOM	14664	C	ALA	94	98.894	46.742	-46.494	1.00100.76	TS
ATOM	14612	CG1	VAL	88	99.963	47.421	-34.914	1.00 56.40	TS20	ATOM	14665	O	ALA	94	98.938	45.676	-47.115	1.00100.76	TS
ATOM	14613	CG2	VAL	88	102.008	47.501	-33.489	1.00 56.40	TS20	ATOM	14666	N	ALA	95	97.787	47.461	-46.289	1.00122.19	TS
ATOM	14614	C	VAL	88	100.954	49.534	-36.583	1.00 52.70	TS20	ATOM	14667	CA	ALA	95	96.440	47.104	-46.745	1.00122.19	TS
ATOM	14615	O	VAL	88	100.801	48.971	-37.667	1.00 52.70	TS20	ATOM	14668	CB	ALA	95	96.493	46.117	-47.921	1.00105.21	TS
ATOM	14616	N	ARG	89	100.346	50.673	-36.264	1.00 67.00	TS20	ATOM	14669	C	ALA	95	95.691	46.480	-45.567	1.00122.19	TS
ATOM	14617	CA	ARG	89	99.449	51.362	-37.200	1.00 67.00	TS20	ATOM	14670	O	ALA	95	94.481	46.238	-45.631	1.00122.19	TS
ATOM	14618	CB	ARG	89	99.099	52.756	-36.693	1.00 74.32	TS20	ATOM	14671	N	GLY	96	96.434	46.236	-44.489	1.00 67.61	TS
ATOM	14619	CG	ARG	89	97.875	52.837	-35.842	1.00 74.32	TS20	ATOM	14672	C	GLY	96	95.874	45.631	-43.297	1.00 67.61	TS
ATOM	14620	CD	ARG	89	96.779	53.578	-36.566	1.00 74.32	TS20	ATOM	14673	C	GLY	96	94.403	45.893	-43.059	1.00 67.61	TS
ATOM	14621	CE	ARG	89	95.780	54.035	-35.611	1.00 74.32	TS20	ATOM	14674	O	GLY	96	93.581	44.970	-43.094	1.00 67.61	TS
ATOM	14622	NZ	ARG	89	94.616	54.573	-35.945	1.00 74.32	TS20	ATOM	14675	N	ALA	97	94.063	47.155	-42.826	1.00 78.83	TS
ATOM	14623	NH1	ARG	89	94.300	54.721	-37.227	1.00 74.32	TS20	ATOM	14676	CA	ALA	97	92.678	47.511	-42.553	1.00 78.83	TS
ATOM	14624	NH2	ARG	89	93.768	54.951	-34.998	1.00 74.32	TS20	ATOM	14677	CB	ALA	97	91.762	46.977	-43.664	1.00 29.22	TS
ATOM	14625	C	ARG	89	100.129	51.531	-38.544	1.00 67.00	TS20	ATOM	14678	C	ALA	97	92.350	46.830	-41.232	1.00 78.83	TS
ATOM	14626	O	ARG	89	99.604	51.119	-39.580	1.00 67.00	TS20	ATOM	14679	O	ALA	97	91.655	45.822	-41.233	1.00 78.83	TS
ATOM	14627	N	GLN	90	101.296	52.166	-38.514	1.00 72.93	TS20	ATOM	14680	N	PRO	98	92.844	47.772	-40.092	1.00 96.87	TS
ATOM	14628	CA	GLN	90	102.059	52.397	-39.723	1.00 72.93	TS20	ATOM	14681	CD	PRO	98	93.312	48.739	-39.996	1.00 96.87	TS
ATOM	14629	CB	GLN	90	103.398	53.037	-39.374	1.00128.31	TS20	ATOM	14682	CA	PRO	98	92.624	46.838	-38.740	1.00 96.87	TS
ATOM	14630	CG	GLN	90	103.239	54.430	-38.795	1.00128.31	TS20	ATOM	14683	CB	PRO	98	92.757	48.073	-37.826	1.00 99.21	TS
ATOM	14631	CD	GLN	90	104.555	55.038	-38.362	1.00128.31	TS20	ATOM	14684	CG	PRO	98	92.610	49.240	-38.741	1.00 99.21	TS
ATOM	14632	OE1	GLN	90	105.521	55.058	-39.125	1.00128.31	TS20	ATOM	14685	C	PRO	98	91.295	46.113	-38.578	1.00 96.87	TS
ATOM	14633	NE2	GLN	90	104.599	55.545	-37.134	1.00128.31	TS20	ATOM	14686	O	PRO	98	90.376	46.594	-37.908	1.00 96.87	TS
ATOM	14634	O	GLN	90	102.257	51.094	-40.487	1.00 72.93	TS20	ATOM	14687	N	LEU	99	91.228	44.937	-39.200	1.00154.55	TS
ATOM	14635	C	GLN	90	101.934	51.012	-41.671	1.00 72.93	TS20	ATOM	14688	CA	LEU	99	90.400	44.100	-39.201	1.00154.55	TS
ATOM	14636	N	LEU	91	102.761	50.063	-39.816	1.00 55.87	TS20	ATOM	14689	CB	LEU	99	90.156	43.021	-40.287	1.00130.79	TS
ATOM	14637	CA	LEU	91	102.964	48.792	-40.497	1.00 55.87	TS20	ATOM	14690	CG	LEU	99	90.212	43.508	-41.742	1.00130.79	TS
ATOM	14638	CB	LEU	91	103.578	47.764	-39.554	1.00 78.58	TS20	ATOM	14691	CD1	LEU	99	90.439	42.333	-42.680	1.00130.79	TS
ATOM	14639	CG	LEU	91	105.070	47.867	-39.246	1.00 78.58	TS20	ATOM	14692	CD2	LEU	99	88.921	44.233	-42.088	1.00130.79	TS
ATOM	14640	CD1	LEU	91	105.564	46.458	-38.902	1.00 78.58	TS20	ATOM	14693	C	LEU	99	89.776	43.448	-37.860	1.00154.55	TS
ATOM	14641	CD2	LEU	91	105.845	48.407	-40.442	1.00 78.58	TS20	ATOM	14694	N	LEU	99	89.214	42.356	-37.799	1.00154.55	TS
ATOM	14642	C	LEU	91	101.668	48.231	-41.077	1.00 55.87	TS20	ATOM	14695	N	ILE	100	90.191	44.110	-36.766	1.00 94.85	TS
ATOM	14643	O	LEU	91	101.648	47.685	-42.183	1.00 55.87	TS20	ATOM	14696	CB	ILE	100	89.942	43.585	-35.453	1.00 94.85	TS
ATOM	14644	N	LEU	92	100.583	48.359	-40.331	1.00 71.22	TS20	ATOM	14697	CB	ILE	100	91.135	42.759	-34.922	1.00126.67	TS
ATOM	14645	CA	LEU	92	99.326	47.846	-40.814	1.00 71.22	TS20	ATOM	14698	CG2	ILE	100	92.249	43.673	-34.488	1.00126.67	TS
ATOM	14646	CB	LEU	92	98.254	48.003	-39.747	1.00 50.89	TS20	ATOM	14699	CG1	ILE	100	90.696	41.921	-33.718	1.00126.67	TS

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ATOM	14700	CD1	ILE	100	91.782	41.038	-33.154	1.00126.67	TS20	ATOM	14753	CA	ASP	4	251.766	123.909	1.223	1.00	48.20	V1	
ATOM	14701	C	ILE	100	89.671	44.746	-34.509	1.00	94.85	TS20	ATOM	14754	CB	ASP	4	252.857	124.235	0.204	1.00	92.67	V1
ATOM	14702	O	ILE	100	89.139	44.563	-33.410	1.00	94.85	TS20	ATOM	14755	CG	ASP	4	254.235	123.981	0.738	1.00	92.67	V1
ATOM	14703	N	GLY	101	90.030	45.947	-34.950	1.00150.38	TS20	ATOM	14756	OD1	ASP	4	254.627	124.689	1.688	1.00	92.67	V1	
ATOM	14704	CA	GLY	101	89.823	47.124	-34.128	1.00150.38	TS20	ATOM	14757	OD2	ASP	4	254.919	123.074	0.215	1.00	92.67	V1	
ATOM	14705	C	GLY	101	90.348	46.910	-32.723	1.00150.38	TS20	ATOM	14758	C	ASP	4	252.008	124.695	2.502	1.00	48.20	V1	
ATOM	14706	O	GLY	101	90.090	47.717	-31.828	1.00150.38	TS20	ATOM	14759	O	ASP	4	252.264	125.904	2.467	1.00	48.20	V1	
ATOM	14707	N	GLY	102	91.083	45.813	-32.545	1.00	83.94	TS20	ATOM	14760	N	ARG	5	251.974	123.987	3.629	1.00	64.45	V1
ATOM	14708	CA	GLY	102	91.655	45.469	-31.260	1.00	83.94	TS20	ATOM	14761	CA	ARG	5	252.131	124.642	4.915	1.00	64.45	V1
ATOM	14709	C	GLY	102	91.703	46.644	-30.313	1.00	83.94	TS20	ATOM	14762	CB	ARG	5	251.747	123.695	6.067	1.00120.91	V1	
ATOM	14710	O	GLY	102	90.764	46.871	-29.554	1.00	83.94	TS20	ATOM	14763	CG	ARG	5	252.638	122.485	6.286	1.00120.91	V1	
ATOM	14711	N	GLY	103	92.781	47.415	-30.371	1.00	67.65	TS20	ATOM	14764	CD	ARG	5	252.301	121.830	7.635	1.00120.91	V1	
ATOM	14712	CA	GLY	103	92.898	48.548	-29.478	1.00	67.65	TS20	ATOM	14765	NE	ARG	5	253.248	120.789	8.047	1.00120.91	V1	
ATOM	14713	C	GLY	103	93.447	49.791	-30.128	1.00	67.65	TS20	ATOM	14766	CZ	ARG	5	253.335	120.295	9.284	1.00120.91	V1	
ATOM	14714	N	GLY	103	94.488	50.310	-29.725	1.00	67.65	TS20	ATOM	14767	NH1	ARG	5	252.535	120.741	10.249	1.00120.91	V1	
ATOM	14715	O	GLY	103	92.761	50.270	-31.151	1.00	67.33	TS20	ATOM	14768	NH2	ARG	5	254.226	119.351	9.560	1.00120.91	V1	
ATOM	14716	CA	LEU	104	93.211	51.473	-31.806	1.00	67.33	TS20	ATOM	14769	C	ARG	5	253.489	125.275	5.174	1.00	64.45	V1
ATOM	14717	CB	LEU	104	93.710	51.159	-33.207	1.00	51.95	TS20	ATOM	14770	O	ARG	5	253.746	125.749	6.278	1.00	64.45	V1
ATOM	14718	CG	LEU	104	95.157	50.681	-33.092	1.00	51.95	TS20	ATOM	14771	N	ARG	6	254.359	125.309	4.172	1.00	54.36	V1
ATOM	14719	CD1	LEU	104	95.726	50.352	-34.452	1.00	51.95	TS20	ATOM	14772	CA	ARG	6	255.654	125.936	4.381	1.00	54.36	V1
ATOM	14720	CD2	LEU	104	95.978	51.780	-32.405	1.00	51.95	TS20	ATOM	14773	CB	ARG	6	256.732	124.874	4.630	1.00	74.51	V1
ATOM	14721	C	LEU	104	92.127	52.520	-31.820	1.00	67.33	TS20	ATOM	14774	CG	ARG	6	257.053	124.006	3.452	1.00	74.51	V1
ATOM	14722	O	LEU	104	91.392	52.647	-30.854	1.00	67.33	TS20	ATOM	14775	CD	ARG	6	258.406	123.328	3.628	1.00	74.51	V1
ATOM	14723	N	SER	105	92.006	53.274	-32.900	1.00	68.47	TS20	ATOM	14776	NE	ARG	6	258.334	122.126	4.445	1.00	74.51	V1
ATOM	14724	CA	SER	105	91.005	54.324	-32.922	1.00	68.47	TS20	ATOM	14777	CZ	ARG	6	259.361	121.311	4.650	1.00	74.51	V1
ATOM	14725	CB	SER	105	91.546	55.543	-32.159	1.00	51.82	TS20	ATOM	14778	NH1	ARG	6	260.537	121.580	4.102	1.00	74.51	V1
ATOM	14726	OG	SER	105	90.576	56.167	-31.346	1.00	51.82	TS20	ATOM	14779	NH2	ARG	6	259.206	120.212	5.381	1.00	74.51	V1
ATOM	14727	C	SER	105	90.728	54.702	-34.359	1.00	68.47	TS20	ATOM	14780	C	ARG	6	256.072	126.907	3.263	1.00	54.36	V1
ATOM	14728	O	SER	105	91.263	55.687	-34.844	1.00	68.47	TS20	ATOM	14781	O	ARG	6	257.147	126.796	2.671	1.00	54.36	V1
ATOM	14729	N	ALA	106	89.909	53.921	-35.049	1.00101.49	TS20	ATOM	14782	N	THR	7	255.196	127.871	2.998	1.00	33.56	V1	
ATOM	14730	CA	ALA	106	89.594	54.236	-36.435	1.00101.49	TS20	ATOM	14783	CA	THR	7	255.423	128.908	2.000	1.00	33.56	V1	
ATOM	14731	CB	ALA	106	88.548	53.282	-36.970	1.00104.15	TS20	ATOM	14784	CB	THR	7	254.996	128.472	0.565	1.00	71.15	V1	
ATOM	14732	C	ALA	106	89.080	55.668	-36.497	1.00101.49	TS20	ATOM	14785	OG1	THR	7	253.598	128.166	0.537	1.00	71.15	V1	
ATOM	14733	O	ALA	106	88.460	56.393	-37.445	1.00101.49	TS20	ATOM	14786	CG2	THR	7	255.780	127.264	0.118	1.00	71.15	V1	
ATOM	14734	OX1	ALA	106	88.299	56.040	-35.591	1.00133.22	TS20	ATOM	14787	C	THR	7	254.590	130.114	2.414	1.00	33.56	V1	
ATOM	14735	C	GLY	1	249.434	126.855	-1.893	1.00	55.32	VTX	ATOM	14788	O	THR	7	253.722	130.006	3.256	1.00	33.56	V1
ATOM	14736	O	GLY	1	250.036	126.304	-0.965	1.00	55.32	VTX	ATOM	14789	N	ARG	8	254.865	131.265	1.821	1.00	48.05	V1
ATOM	14737	N	GLY	1	250.904	125.678	-3.533	1.00	55.32	VTX	ATOM	14790	CA	ARG	8	254.145	132.491	2.141	1.00	48.05	V1
ATOM	14738	CA	GLY	1	249.991	126.838	-3.303	1.00	55.32	VTX	ATOM	14791	CB	ARG	8	254.433	133.539	1.056	1.00114.98	V1	
ATOM	14739	N	LYS	2	248.274	127.484	-1.729	1.00	51.89	VTX	ATOM	14792	CG	ARG	8	254.038	134.960	1.404	1.00114.98	V1	
ATOM	14740	CA	LYS	2	247.639	127.584	-0.422	1.00	51.89	VTX	ATOM	14793	CD	ARG	8	254.976	135.561	2.435	1.00114.98	V1	
ATOM	14741	CB	LYS	2	246.155	127.900	-0.593	1.00	57.25	VTX	ATOM	14794	NE	ARG	8	254.370	136.720	3.088	1.00114.98	V1	
ATOM	14742	CG	LYS	2	245.892	129.273	-1.199	1.00	57.25	VTX	ATOM	14795	CZ	ARG	8	254.941	137.418	4.064	1.00114.98	V1	
ATOM	14743	CD	LYS	2	244.460	129.446	-1.703	1.00	57.25	VTX	ATOM	14796	NH1	ARG	8	256.147	137.083	4.507	1.00114.98	V1	
ATOM	14744	CE	LYS	2	244.335	130.747	-2.493	1.00	57.25	VTX	ATOM	14797	NH2	ARG	8	254.292	138.438	4.613	1.00114.98	V1	
ATOM	14745	NZ	LYS	2	243.065	130.882	-3.258	1.00	57.25	VTX	ATOM	14798	C	ARG	8	252.647	132.179	2.192	1.00	48.05	V1
ATOM	14746	C	LYS	2	247.809	126.297	0.363	1.00	51.89	VTX	ATOM	14799	O	ARG	8	252.052	132.096	3.268	1.00	48.05	V1
ATOM	14747	O	LYS	2	247.861	126.306	1.586	1.00	51.89	VTX	ATOM	14800	N	ARG	9	252.064	131.988	1.008	1.00	63.70	V1
ATOM	14748	N	GLY	3	247.926	125.186	-0.346	1.00	36.96	VTX	ATOM	14801	CA	ARG	9	250.645	131.688	0.849	1.00	63.70	V1
ATOM	14749	CA	GLY	3	248.054	123.904	0.320	1.00	36.96	VTX	ATOM	14802	CB	ARG	9	250.330	131.418	-0.624	1.00	96.11	V1
ATOM	14750	C	GLY	3	249.308	123.664	1.129	1.00	36.96	VTX	ATOM	14803	CG	ARG	9	250.221	132.691	-1.435	1.00	96.11	V1
ATOM	14751	O	GLY	3	249.237	123.095	2.215	1.00	36.96	VTX	ATOM	14804	CD	ARG	9	250.068	132.427	-2.913	1.00	96.11	V1
ATOM	14752	N	ASP	4	250.450	124.102	0.600	1.00	48.20	VTX	ATOM	14805	NE	ARG	9	249.686	133.649	-3.617	1.00	96.11	V1

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ATOM	14806	CZ	ARG	9	249.609	133.769	-4.940	1.00	96.11	VTX	ATOM	14859	C	GLY	15	247.584	132.000	10.072	1.00	45.47	VT
ATOM	14807	NH1	ARG	9	249.896	132.738	-5.725	1.00	96.11	VTX	ATOM	14860	O	GLY	15	247.552	132.774	11.036	1.00	45.47	VT
ATOM	14808	NH2	ARG	9	249.227	134.918	-5.481	1.00	96.11	VTX	ATOM	14861	N	THR	16	248.546	131.093	9.913	1.00	61.75	VT
ATOM	14809	C	ARG	9	250.188	130.525	1.699	1.00	63.70	VTX	ATOM	14862	CA	THR	16	249.632	130.954	10.871	1.00	61.75	VT
ATOM	14810	O	ARG	9	249.052	130.492	2.154	1.00	63.70	VTX	ATOM	14863	CB	THR	16	250.162	129.521	10.932	1.00	67.64	VT
ATOM	14811	N	GLY	10	251.069	129.560	1.908	1.00	52.11	VTX	ATOM	14864	OG1	THR	16	250.739	129.180	9.667	1.00	67.64	VT
ATOM	14812	CA	GLY	10	250.694	128.433	2.735	1.00	52.11	VTX	ATOM	14865	CG2	THR	16	249.063	128.557	11.264	1.00	67.64	VT
ATOM	14813	C	GLY	10	250.694	128.433	4.076	1.00	52.11	VTX	ATOM	14866	C	THR	16	250.830	131.840	10.536	1.00	61.75	VT
ATOM	14814	O	GLY	10	249.063	128.967	4.404	1.00	52.11	VTX	ATOM	14867	O	THR	16	250.819	132.608	9.567	1.00	61.75	VT
ATOM	14815	N	LYS	11	251.213	129.467	4.838	1.00	64.08	VTX	ATOM	14868	N	THR	17	251.863	131.697	11.363	1.00	70.72	VT
ATOM	14816	CA	LYS	11	250.984	130.037	6.153	1.00	64.08	VTX	ATOM	14869	CA	TYR	17	253.114	132.430	11.246	1.00	70.72	VT
ATOM	14817	CB	LYS	11	252.246	130.774	6.623	1.00	63.47	VTX	ATOM	14870	CB	TYR	17	253.171	133.562	12.271	1.00	52.50	VT
ATOM	14818	CG	LYS	11	253.153	129.968	7.543	1.00	63.47	VTX	ATOM	14871	CG	TYR	17	252.275	134.721	11.969	1.00	52.50	VT
ATOM	14819	CD	LYS	11	253.572	128.651	6.916	1.00	63.47	VTX	ATOM	14872	CD1	TYR	17	251.109	134.922	12.686	1.00	52.50	VT
ATOM	14820	CE	LYS	11	254.482	127.884	7.858	1.00	63.47	VTX	ATOM	14873	CE1	TYR	17	250.288	136.012	12.427	1.00	52.50	VT
ATOM	14821	NZ	LYS	11	253.860	127.656	9.185	1.00	63.47	VTX	ATOM	14874	CD2	TYR	17	252.606	135.634	10.971	1.00	52.50	VT
ATOM	14822	C	LYS	11	249.806	130.994	6.174	1.00	64.08	VTX	ATOM	14875	CE2	TYR	17	251.798	136.731	10.694	1.00	52.50	VT
ATOM	14823	O	LYS	11	248.995	130.961	7.090	1.00	64.08	VTX	ATOM	14876	CZ	TYR	17	250.639	136.916	11.429	1.00	52.50	VT
ATOM	14824	N	ILE	12	249.717	131.857	5.172	1.00	48.47	VTX	ATOM	14877	OH	TYR	17	249.840	138.013	11.183	1.00	52.50	VT
ATOM	14825	CA	ILE	12	248.624	132.813	5.134	1.00	48.47	VTX	ATOM	14878	C	TYR	17	254.103	130.511	12.276	1.00	70.72	VT
ATOM	14826	CB	ILE	12	247.673	133.709	3.987	1.00	32.99	VTX	ATOM	14879	O	TYR	17	255.430	131.773	10.974	1.00	70.72	VT
ATOM	14827	CG2	ILE	12	248.698	133.709	3.987	1.00	32.99	VTX	ATOM	14880	N	GLY	18	255.582	130.924	11.218	1.00	70.72	VT
ATOM	14828	CG1	ILE	12	250.068	134.362	3.796	1.00	32.99	VTX	ATOM	14881	CA	GLY	18	257.768	131.306	10.360	1.00	70.72	VT
ATOM	14829	CD1	ILE	12	250.284	135.083	2.502	1.00	32.99	VTX	ATOM	14882	C	GLY	18	257.841	132.428	9.844	1.00	70.72	VT
ATOM	14830	O	ILE	12	247.308	132.052	5.115	1.00	48.47	VTX	ATOM	14883	O	GLY	18	259.866	130.658	9.386	1.00	63.59	VT
ATOM	14831	C	ILE	12	246.385	132.368	5.853	1.00	48.47	VTX	ATOM	14884	N	LYS	19	263.003	127.336	8.426	1.00	63.59	VT
ATOM	14832	N	TRP	13	247.225	131.038	4.270	1.00	52.49	VTX	ATOM	14885	CA	LYS	19	260.724	129.405	9.198	1.00	63.59	VT
ATOM	14833	CA	TRP	13	246.014	130.249	4.180	1.00	52.49	VTX	ATOM	14886	CB	LYS	19	261.785	129.558	8.100	1.00	63.59	VT
ATOM	14834	CG	TRP	13	244.209	129.075	3.231	1.00	54.79	VTX	ATOM	14887	CG	LYS	19	263.101	128.858	8.441	1.00	63.59	VT
ATOM	14835	CB	TRP	13	244.927	128.488	2.797	1.00	54.79	VTX	ATOM	14888	CD	LYS	19	264.333	126.714	8.426	1.00	63.59	VT
ATOM	14836	CD2	TRP	13	243.074	127.163	2.650	1.00	54.79	VTX	ATOM	14889	CE	LYS	19	259.398	131.155	8.031	1.00	89.67	VT
ATOM	14837	CE2	TRP	13	244.587	126.473	4.405	1.00	54.79	VTX	ATOM	14890	NZ	LYS	19	259.774	132.243	7.594	1.00	89.67	VT
ATOM	14838	CE3	TRP	13	244.122	128.938	1.794	1.00	54.79	VTX	ATOM	14891	C	LYS	19	258.548	130.368	7.380	1.00	83.73	VT
ATOM	14839	CD1	TRP	13	243.005	128.145	1.696	1.00	54.79	VTX	ATOM	14892	O	LYS	19	257.437	129.515	5.391	1.00	83.73	VT
ATOM	14840	NE1	TRP	13	242.183	126.130	2.944	1.00	54.79	VTX	ATOM	14893	N	TYR	20	258.068	130.733	6.059	1.00	83.73	VT
ATOM	14841	CE2	TRP	13	243.702	125.447	4.698	1.00	54.79	VTX	ATOM	14894	CA	TYR	20	257.437	129.515	5.391	1.00	83.73	VT
ATOM	14842	CE3	TRP	13	242.515	125.284	3.969	1.00	54.79	VTX	ATOM	14895	CB	TYR	20	258.466	128.440	5.133	1.00	71.80	VT
ATOM	14843	CH2	TRP	13	245.675	129.724	5.561	1.00	52.49	VTX	ATOM	14896	CG	TYR	20	259.709	127.437	6.071	1.00	71.80	VT
ATOM	14844	C	TRP	13	244.565	129.902	6.048	1.00	52.49	VTX	ATOM	14897	CD1	TYR	20	259.737	126.503	5.887	1.00	71.80	VT
ATOM	14845	O	TRP	13	246.630	129.066	6.194	1.00	45.76	VTX	ATOM	14898	CE1	TYR	20	260.300	127.560	3.802	1.00	71.80	VT
ATOM	14846	N	ARG	14	246.387	128.549	7.522	1.00	45.76	VTX	ATOM	14899	CD2	TYR	20	260.532	126.574	4.753	1.00	71.80	VT
ATOM	14847	CA	ARG	14	247.479	127.560	7.923	1.00	80.42	VTX	ATOM	14900	CE2	TYR	20	261.579	125.689	4.587	1.00	71.80	VT
ATOM	14848	CB	ARG	14	247.156	126.107	7.641	1.00	80.42	VTX	ATOM	14901	CZ	TYR	20	257.148	131.945	6.004	1.00	83.73	VT
ATOM	14849	CG	ARG	14	248.246	125.227	8.230	1.00	80.42	VTX	ATOM	14902	OH	TYR	20	256.747	132.383	4.928	1.00	83.73	VT
ATOM	14850	CD	ARG	14	247.981	123.792	8.106	1.00	80.42	VTX	ATOM	14903	C	TYR	20	256.836	133.501	7.165	1.00	60.74	VT
ATOM	14851	NE	ARG	14	248.893	122.845	8.322	1.00	80.42	VTX	ATOM	14904	O	TYR	21	255.999	133.694	7.238	1.00	60.74	VT
ATOM	14852	CZ	ARG	14	250.127	123.176	8.667	1.00	80.42	VTX	ATOM	14905	N	ARG	21	254.535	133.374	6.964	1.00	63.10	VT
ATOM	14853	NH1	ARG	14	248.574	121.566	8.198	1.00	80.42	VTX	ATOM	14906	CA	ARG	21	253.655	134.605	6.929	1.00	63.10	VT
ATOM	14854	NH2	ARG	14	246.324	129.689	8.533	1.00	45.76	VTX	ATOM	14907	CB	ARG	21	252.207	134.229	7.083	1.00	63.10	VT
ATOM	14855	C	ARG	14	246.081	129.462	9.716	1.00	45.76	VTX	ATOM	14908	CG	ARG	21	251.348	135.397	6.946	1.00	63.10	VT
ATOM	14856	O	ARG	14	246.535	130.916	8.075	1.00	45.47	VTX	ATOM	14909	CD	ARG	21	250.110	135.470	7.418	1.00	63.10	VT
ATOM	14857	N	GLY	15	246.504	132.045	8.990	1.00	45.47	VTX	ATOM	14910	NE	ARG	21						VT
ATOM	14858	CA	GLY	15						VTX	ATOM	14911	CZ	ARG	21						VT

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ATOM	14912	NH1	ARG	21	249.578	134.433	8.063	1.00	63.10	VTX	ATOM	14965	NE	ARG	4	208.935	140.923	-19.571	1.00	66.98	G
ATOM	14913	NH2	ARG	21	249.414	136.586	7.252	1.00	63.10	VTX	ATOM	14966	CZ	ARG	4	208.635	140.611	-18.309	1.00	66.98	G
ATOM	14914	C	ARG	21	256.120	134.267	8.635	1.00	60.74	VTX	ATOM	14967	NH1	ARG	4	209.573	140.656	-17.374	1.00	66.98	G
ATOM	14915	O	ARG	21	255.336	133.940	9.534	1.00	60.74	VTX	ATOM	14968	NH2	ARG	4	207.384	140.309	-17.963	1.00	66.98	G
ATOM	14916	N	PRO	22	257.125	135.125	8.837	1.00	68.21	VTX	ATOM	14969	C	ARG	4	211.903	140.983	-23.888	1.00	94.77	G
ATOM	14917	CD	PRO	22	258.264	135.312	7.925	1.00	85.61	VTX	ATOM	14970	O	ARG	4	211.817	141.994	-24.582	1.00	94.77	G
ATOM	14918	CA	PRO	22	257.388	135.769	10.124	1.00	88.21	VTX	ATOM	14971	N	ARG	5	212.990	140.654	-23.209	1.00	75.35	G
ATOM	14919	CB	PRO	22	258.832	136.252	9.972	1.00	85.61	VTX	ATOM	14972	CA	ARG	5	215.305	140.669	-22.477	1.00	75.35	G
ATOM	14920	CG	PRO	22	259.397	135.358	8.888	1.00	85.61	VTX	ATOM	14973	CB	ARG	5	214.878	139.969	-21.182	1.00	75.35	G
ATOM	14921	C	PRO	22	256.422	136.919	10.416	1.00	68.21	VTX	ATOM	14974	CG	ARG	5	214.677	140.921	-20.000	1.00	75.35	G
ATOM	14922	O	PRO	22	255.915	137.564	9.493	1.00	68.21	VTX	ATOM	14975	CD	ARG	5	213.574	141.861	-20.187	1.00	75.35	G
ATOM	14923	N	ARG	23	256.176	137.156	11.704	1.00	73.00	VTX	ATOM	14976	NE	ARG	5	213.113	142.675	-19.238	1.00	75.35	G
ATOM	14924	CA	ARG	23	255.296	138.228	12.151	1.00	73.00	VTX	ATOM	14977	CZ	ARG	5	213.654	142.666	-18.026	1.00	75.35	G
ATOM	14925	CB	ARG	23	255.439	138.422	13.651	1.00	82.13	VTX	ATOM	14978	NH1	ARG	5	212.114	143.506	-19.502	1.00	75.35	G
ATOM	14926	CG	ARG	23	254.716	137.389	14.445	1.00	82.13	VTX	ATOM	14979	NH2	ARG	5	214.728	142.089	-24.455	1.00	75.35	G
ATOM	14927	CD	ARG	23	253.234	137.706	14.510	1.00	82.13	VTX	ATOM	14980	C	ARG	5	214.083	142.952	-25.052	1.00	75.35	G
ATOM	14928	NE	ARG	23	252.458	136.517	14.829	1.00	82.13	VTX	ATOM	14981	O	ARG	6	215.921	141.633	-24.851	1.00	119.51	G
ATOM	14929	CZ	ARG	23	252.775	135.656	15.789	1.00	82.13	VTX	ATOM	14982	N	ARG	6	215.784	142.119	-26.015	1.00	119.51	G
ATOM	14930	NH1	ARG	23	253.855	135.853	16.531	1.00	82.13	VTX	ATOM	14983	CA	ARG	6	216.670	142.119	-26.015	1.00	119.51	G
ATOM	14931	NH2	ARG	23	252.021	134.586	16.001	1.00	82.13	VTX	ATOM	14984	CB	ARG	6	215.150	142.954	-26.939	1.00	159.97	G
ATOM	14932	C	ARG	23	255.644	139.525	11.450	1.00	73.00	VTX	ATOM	14985	CG	ARG	6	215.567	142.123	-30.523	1.00	159.97	G
ATOM	14933	O	ARG	23	254.829	140.092	10.715	1.00	73.00	VTX	ATOM	14986	CD	ARG	6	216.156	141.978	-29.206	1.00	159.97	G
ATOM	14934	N	LYS	24	256.862	139.992	11.695	1.00	94.33	VTX	ATOM	14987	NE	ARG	6	215.537	142.123	-30.523	1.00	159.97	G
ATOM	14935	CA	LYS	24	257.360	141.218	11.088	1.00	94.33	VTX	ATOM	14988	CZ	ARG	6	216.212	142.246	-31.663	1.00	159.97	G
ATOM	14936	CB	LYS	24	256.646	142.440	11.683	1.00	136.68	VTX	ATOM	14989	NH1	ARG	6	217.540	142.390	-31.657	1.00	159.97	G
ATOM	14937	CG	LYS	24	255.392	142.853	10.918	1.00	136.68	VTX	ATOM	14990	NH2	ARG	6	215.561	142.390	-32.812	1.00	159.97	G
ATOM	14938	CD	LYS	24	255.733	143.195	9.469	1.00	136.68	VTX	ATOM	14991	C	ARG	6	217.736	143.010	-25.384	1.00	119.51	G
ATOM	14939	CE	LYS	24	254.510	143.660	8.700	1.00	136.68	VTX	ATOM	14992	O	ARG	6	217.457	143.659	-24.380	1.00	119.51	G
ATOM	14940	NZ	LYS	24	254.836	144.128	7.324	1.00	136.68	VTX	ATOM	14993	N	ALA	7	218.947	143.049	-25.935	1.00	139.36	G
ATOM	14941	C	LYS	24	258.864	141.339	11.289	1.00	94.33	VTX	ATOM	14994	CA	ALA	7	220.459	143.303	-24.026	1.00	62.82	G
ATOM	14942	O	LYS	24	259.422	140.477	12.005	1.00	94.33	VTX	ATOM	14995	CB	ALA	7	221.188	144.133	-26.263	1.00	139.36	G
ATOM	14943	OXT	LYS	24	259.461	142.285	10.726	1.00	136.68	VTX	ATOM	14996	C	ALA	7	221.165	143.744	-27.433	1.00	139.36	G
ATOM	14944	CB	ALA	2	216.651	137.328	-22.824	1.00	47.16	GS7	ATOM	14997	O	ALA	7	221.165	143.744	-27.433	1.00	139.36	G
ATOM	14945	C	ALA	2	214.238	136.681	-22.682	1.00	52.94	GS7	ATOM	14998	N	GLU	8	222.229	144.775	-25.724	1.00	80.40	G
ATOM	14946	O	ALA	2	214.258	136.748	-23.902	1.00	52.94	GS7	ATOM	14999	CA	GLU	8	223.452	145.077	-26.481	1.00	80.40	G
ATOM	14947	N	ALA	2	216.034	135.554	-21.227	1.00	52.94	GS7	ATOM	15000	CB	GLU	8	223.251	146.319	-27.356	1.00	160.78	G
ATOM	14948	CA	ALA	2	215.554	136.799	-21.896	1.00	52.94	GS7	ATOM	15001	CG	GLU	8	222.414	146.065	-28.603	1.00	160.78	G
ATOM	14949	N	ARG	3	213.104	136.496	-22.006	1.00	57.16	GS7	ATOM	15002	CD	GLU	8	222.219	147.311	-29.442	1.00	160.78	G
ATOM	14950	CA	ARG	3	211.809	136.439	-22.702	1.00	57.16	GS7	ATOM	15003	OE1	GLU	8	222.592	148.268	-28.941	1.00	160.78	G
ATOM	14951	CB	ARG	3	210.771	135.597	-21.944	1.00	36.73	GS7	ATOM	15004	OE2	GLU	8	222.695	147.330	-30.599	1.00	160.78	G
ATOM	14952	CG	ARG	3	211.047	134.124	-21.665	1.00	36.73	GS7	ATOM	15005	C	GLU	8	224.660	145.282	-25.571	1.00	80.40	G
ATOM	14953	CD	ARG	3	209.841	133.559	-20.891	1.00	36.73	GS7	ATOM	15006	O	GLU	8	225.798	145.072	-25.988	1.00	80.40	G
ATOM	14954	NE	ARG	3	209.966	132.161	-20.463	1.00	36.73	GS7	ATOM	15007	N	VAL	9	224.400	145.695	-24.334	1.00	73.56	G
ATOM	14955	CZ	ARG	3	210.024	131.126	-21.298	1.00	36.73	GS7	ATOM	15008	CA	VAL	9	225.449	145.907	-23.333	1.00	73.56	G
ATOM	14956	NH1	ARG	3	209.968	131.333	-22.607	1.00	36.73	GS7	ATOM	15009	CB	VAL	9	225.945	144.540	-22.750	1.00	91.42	G
ATOM	14957	NH2	ARG	3	210.141	129.890	-20.832	1.00	36.73	GS7	ATOM	15010	CG1	VAL	9	226.817	144.764	-22.434	1.00	91.42	G
ATOM	14958	C	ARG	3	211.316	137.875	-22.617	1.00	57.16	GS7	ATOM	15011	CG2	VAL	9	224.739	143.640	-21.491	1.00	91.42	G
ATOM	14959	O	ARG	3	211.033	138.312	-21.517	1.00	57.16	GS7	ATOM	15012	C	VAL	9	226.656	146.665	-23.873	1.00	73.56	G
ATOM	14960	N	ARG	4	211.206	138.600	-23.730	1.00	94.77	GS7	ATOM	15013	O	VAL	9	227.764	147.482	-23.378	1.00	73.56	G
ATOM	14961	CA	ARG	4	210.740	140.010	-23.746	1.00	94.77	GS7	ATOM	15014	N	ARG	10	226.436	147.515	-24.876	1.00	10120.62	G
ATOM	14962	CB	ARG	4	209.977	140.412	-22.456	1.00	66.98	GS7	ATOM	15015	CA	ARG	10	227.520	148.288	-25.493	1.00	10120.62	G
ATOM	14963	CG	ARG	4	210.878	140.587	-21.204	1.00	66.98	GS7	ATOM	15016	CB	ARG	10	227.015	149.613	-26.066	1.00	10131.43	G
ATOM	14964	CD	ARG	4	210.263	141.351	-20.025	1.00	66.98	GS7	ATOM	15017	CG	ARG	10	225.961	149.519	-27.135	1.00	10131.43	G

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ATOM	15018	CD	ARG	10	225.730	150.906	-27.639	1.00131.43	GS7	ATOM	15071	CD2	LEU	16	242.875	151.678	-20.747	1.00118.14	GS
ATOM	15019	NE	ARG	10	224.377	151.087	-28.209	1.00131.43	GS7	ATOM	15072	C	LEU	16	244.511	153.816	-23.653	1.0093.48	GS
ATOM	15020	CZ	ARG	10	223.894	152.248	-28.642	1.00131.43	GS7	ATOM	15073	O	LEU	16	245.528	153.953	-22.971	1.0093.48	GS
ATOM	15021	NH1	ARG	10	224.658	153.334	-28.630	1.00131.43	GS7	ATOM	15074	N	VAL	17	244.525	153.656	-24.974	1.0075.74	GS
ATOM	15022	NH2	ARG	10	222.643	152.326	-29.079	1.00131.43	GS7	ATOM	15075	CA	VAL	17	245.738	153.658	-25.781	1.0075.74	GS
ATOM	15023	C	ARG	10	228.633	148.616	-24.514	1.00120.62	GS7	ATOM	15076	CB	VAL	17	246.494	152.330	-25.725	1.0055.59	GS
ATOM	15024	N	ARG	10	229.584	147.854	-24.347	1.00120.62	GS7	ATOM	15077	CG1	VAL	17	247.622	152.357	-26.741	1.0055.59	GS
ATOM	15025	C	ARG	10	228.501	149.767	-23.871	1.0085.82	GS7	ATOM	15078	CG2	VAL	17	247.082	152.126	-24.334	1.0055.59	GS
ATOM	15026	CA	GLN	11	229.485	150.220	-22.908	1.0085.82	GS7	ATOM	15079	C	VAL	17	245.387	153.935	-27.240	1.0075.74	GS
ATOM	15027	CB	GLN	11	229.261	149.541	-21.543	1.00147.04	GS7	ATOM	15080	O	VAL	17	246.040	151.738	-27.902	1.0075.74	GS
ATOM	15028	CG	GLN	11	229.214	148.017	-21.565	1.00147.04	GS7	ATOM	15081	N	TYR	18	244.365	153.264	-27.751	1.0066.85	GS
ATOM	15029	CD	GLN	11	229.336	147.391	-20.179	1.00147.04	GS7	ATOM	15082	CA	TYR	18	244.023	152.219	-29.954	1.0066.85	GS
ATOM	15030	OE1	GLN	11	230.351	147.560	-19.497	1.00147.04	GS7	ATOM	15083	CB	TYR	18	243.963	153.501	-29.126	1.0066.85	GS
ATOM	15031	NE2	GLN	11	228.303	146.659	-19.762	1.00147.04	GS7	ATOM	15084	CG	TYR	18	245.334	151.482	-29.848	1.0066.32	GS
ATOM	15032	C	GLN	11	230.908	149.963	-23.396	1.0085.82	GS7	ATOM	15085	CD1	TYR	18	245.596	150.647	-28.763	1.0066.32	GS
ATOM	15033	O	GLN	11	231.242	150.226	-24.555	1.0085.82	GS7	ATOM	15086	CE1	TYR	18	246.805	149.979	-28.645	1.0066.32	GS
ATOM	15034	N	LEU	12	231.741	149.442	-22.506	1.00100.90	GS7	ATOM	15087	CD2	TYR	18	246.322	151.633	-30.817	1.0066.32	GS
ATOM	15035	CA	LEU	12	233.124	149.169	-22.836	1.00100.90	GS7	ATOM	15088	CE2	TYR	18	247.771	150.149	-29.616	1.0066.32	GS
ATOM	15036	CB	LEU	12	233.215	148.138	-23.966	1.0043.54	GS7	ATOM	15089	CZ	TYR	18	242.549	154.042	-29.134	1.0066.85	GS
ATOM	15037	CG	LEU	12	232.669	146.726	-23.727	1.0043.54	GS7	ATOM	15090	OH	TYR	18	242.001	154.255	-27.939	1.0066.85	GS
ATOM	15038	CD1	LEU	12	233.625	145.727	-22.361	1.0043.54	GS7	ATOM	15091	C	TYR	18	241.971	154.261	-30.198	1.0066.85	GS
ATOM	15039	CD2	LEU	12	232.530	146.427	-22.241	1.0043.54	GS7	ATOM	15092	O	TYR	18	242.001	154.255	-27.939	1.0066.85	GS
ATOM	15040	C	LEU	12	233.784	150.475	-23.256	1.00100.90	GS7	ATOM	15093	N	GLY	19	240.651	154.778	-27.813	1.0080.08	GS
ATOM	15041	O	LEU	12	233.786	150.836	-24.434	1.00100.90	GS7	ATOM	15094	CA	GLY	19	239.657	153.967	-28.615	1.0080.08	GS
ATOM	15042	N	GLN	13	234.321	151.191	-22.274	1.0078.97	GS7	ATOM	15095	C	GLY	19	238.619	154.474	-29.645	1.0080.08	GS
ATOM	15043	CA	GLN	13	235.001	152.453	-22.521	1.0078.97	GS7	ATOM	15096	O	GLY	19	239.985	152.695	-28.816	1.0091.66	GS
ATOM	15044	CB	GLN	13	235.518	153.028	-21.202	1.00122.93	GS7	ATOM	15097	N	ASP	20	239.142	151.788	-29.578	1.0091.66	GS
ATOM	15045	CG	GLN	13	234.472	153.051	-20.101	1.00122.93	GS7	ATOM	15098	CA	ASP	20	240.006	150.994	-30.551	1.00135.04	GS
ATOM	15046	CD	GLN	13	233.283	153.933	-20.439	1.00122.93	GS7	ATOM	15099	CB	ASP	20	239.196	150.077	-31.422	1.00135.04	GS
ATOM	15047	OE1	GLN	13	233.391	155.160	-20.455	1.00122.93	GS7	ATOM	15100	CG	ASP	20	238.251	150.571	-32.077	1.00135.04	GS
ATOM	15048	NE2	GLN	13	232.141	153.309	-20.718	1.00122.93	GS7	ATOM	15101	OD1	ASP	20	237.194	150.459	-28.993	1.0079.74	GS
ATOM	15049	C	GLN	13	236.171	152.167	-23.457	1.0078.97	GS7	ATOM	15102	OD2	ASP	20	238.411	150.849	-28.629	1.0091.66	GS
ATOM	15050	O	GLN	13	236.935	151.235	-23.223	1.0078.97	GS7	ATOM	15103	C	ASP	20	239.507	148.868	-31.453	1.00135.04	GS
ATOM	15051	N	PRO	14	236.331	152.967	-24.526	1.0065.81	GS7	ATOM	15104	O	ASP	20	238.942	150.480	-27.584	1.0091.66	GS
ATOM	15052	CD	PRO	14	235.664	154.257	-24.770	1.0077.03	GS7	ATOM	15105	N	VAL	21	237.194	150.459	-28.993	1.0079.74	GS
ATOM	15053	CA	PRO	14	237.432	152.758	-25.478	1.0065.81	GS7	ATOM	15106	CA	VAL	21	236.401	149.578	-28.140	1.0079.74	GS
ATOM	15054	CB	PRO	14	237.493	154.085	-26.224	1.0077.03	GS7	ATOM	15107	CB	VAL	21	234.903	149.852	-28.304	1.0064.39	GS
ATOM	15055	CG	PRO	14	236.070	154.556	-26.189	1.0077.03	GS7	ATOM	15108	CG1	VAL	21	234.664	151.346	-28.405	1.0064.39	GS
ATOM	15056	C	PRO	14	238.724	152.469	-24.723	1.0065.81	GS7	ATOM	15109	CG2	VAL	21	234.375	149.123	-29.526	1.0064.39	GS
ATOM	15057	O	PRO	14	238.966	153.074	-23.681	1.0065.81	GS7	ATOM	15110	C	VAL	21	236.645	148.099	-28.418	1.0079.74	GS
ATOM	15058	N	ASP	15	239.548	151.554	-25.228	1.0074.75	GS7	ATOM	15111	O	VAL	21	236.485	147.255	-27.529	1.0079.74	GS
ATOM	15059	CA	ASP	15	240.793	151.239	-24.532	1.0074.75	GS7	ATOM	15112	N	LEU	22	237.020	147.787	-29.654	1.0073.96	GS
ATOM	15060	CB	ASP	15	241.597	150.159	-25.271	1.0076.67	GS7	ATOM	15113	CA	LEU	22	237.288	146.407	-30.025	1.0050.25	GS
ATOM	15061	CG	ASP	15	242.512	150.727	-26.334	1.0076.67	GS7	ATOM	15114	CB	LEU	22	237.566	146.299	-31.523	1.0050.25	GS
ATOM	15062	OD1	ASP	15	241.997	151.326	-27.306	1.0076.67	GS7	ATOM	15115	CG1	LEU	22	237.806	144.869	-32.010	1.0050.25	GS
ATOM	15063	OD2	ASP	15	243.748	150.568	-26.189	1.0076.67	GS7	ATOM	15116	CD1	LEU	22	236.555	144.048	-31.759	1.0050.25	GS
ATOM	15064	C	ASP	15	241.614	152.510	-24.404	1.0074.75	GS7	ATOM	15117	CD2	LEU	22	238.170	144.858	-33.486	1.0050.25	GS
ATOM	15065	O	ASP	15	241.606	153.356	-25.297	1.0074.75	GS7	ATOM	15118	C	LEU	22	238.496	145.912	-29.242	1.0073.96	GS
ATOM	15066	N	LEU	16	242.319	152.639	-23.285	1.0093.48	GS7	ATOM	15119	O	LEU	22	238.663	144.713	-29.029	1.0073.96	GS
ATOM	15067	CA	LEU	16	243.119	153.823	-23.020	1.0093.48	GS7	ATOM	15120	N	VAL	23	239.345	146.842	-28.816	1.0062.26	GS
ATOM	15068	CB	LEU	16	243.195	154.070	-21.505	1.00118.14	GS7	ATOM	15121	CA	VAL	23	240.521	146.468	-28.044	1.0062.26	GS
ATOM	15069	CG	LEU	16	243.650	152.976	-20.534	1.00118.14	GS7	ATOM	15122	CB	VAL	23	241.539	147.647	-27.928	1.0045.91	GS
ATOM	15070	CD1	LEU	16	243.424	153.484	-19.116	1.00118.14	GS7	ATOM	15123	CG1	VAL	23	242.670	147.274	-26.976	1.0045.91	GS

ATOM	15124	CG2	VAL	23	242.115	147.980	-29.299	1.00	45.91	GS7	ATOM	15177	CB	ILE	30	243.369	138.602	-23.058	1.00	43.45	G
ATOM	15125	C	VAL	23	240.020	146.062	-26.663	1.00	62.26	GS7	ATOM	15178	CG2	ILE	30	244.672	138.090	-22.435	1.00	43.45	G
ATOM	15126	O	VAL	23	240.210	144.923	-26.227	1.00	62.26	GS7	ATOM	15179	CG1	ILE	30	243.452	138.640	-24.552	1.00	43.45	G
ATOM	15127	N	THR	24	239.359	146.995	-25.990	1.00	46.70	GS7	ATOM	15180	CD1	ILE	30	244.447	139.616	-25.130	1.00	43.45	G
ATOM	15128	CA	THR	24	238.811	146.725	-24.666	1.00	46.70	GS7	ATOM	15181	C	ILE	30	242.178	137.587	-21.100	1.00	39.77	G
ATOM	15129	CB	THR	24	237.764	147.782	-24.269	1.00	54.89	GS7	ATOM	15182	O	ILE	30	242.666	136.616	-20.528	1.00	39.77	G
ATOM	15130	CG1	THR	24	238.285	149.093	-24.524	1.00	54.89	GS7	ATOM	15183	N	MET	31	241.598	138.596	-20.461	1.00	42.21	G
ATOM	15131	CG2	THR	24	237.410	147.645	-22.790	1.00	54.89	GS7	ATOM	15184	CA	MET	31	241.510	138.666	-19.008	1.00	42.21	G
ATOM	15132	C	THR	24	238.112	145.366	-22.726	1.00	46.70	GS7	ATOM	15185	CB	MET	31	240.766	139.931	-18.603	1.00	59.77	G
ATOM	15133	O	THR	24	238.248	144.527	-23.825	1.00	46.70	GS7	ATOM	15186	CG	MET	31	240.327	139.950	-17.149	1.00	59.77	G
ATOM	15134	N	ALA	25	237.365	145.168	-25.809	1.00	43.05	GS7	ATOM	15187	SD	MET	31	239.117	141.246	-16.913	1.00	59.77	G
ATOM	15135	CA	ALA	25	236.644	143.934	-26.029	1.00	43.05	GS7	ATOM	15188	CE	MET	31	239.652	141.933	-15.502	1.00	59.77	G
ATOM	15136	CB	ALA	25	235.921	143.997	-27.340	1.00	32.02	GS7	ATOM	15189	C	MET	31	240.817	137.485	-18.361	1.00	42.21	G
ATOM	15137	C	ALA	25	237.627	142.781	-26.036	1.00	43.05	GS7	ATOM	15190	O	MET	31	239.840	136.961	-18.888	1.00	42.21	G
ATOM	15138	O	ALA	25	237.480	141.826	-25.269	1.00	43.05	GS7	ATOM	15191	N	ARG	32	241.318	137.081	-17.200	1.00	52.63	G
ATOM	15139	N	PHE	26	238.641	142.882	-26.896	1.00	45.11	GS7	ATOM	15192	CA	ARG	32	240.723	135.978	-16.449	1.00	52.63	G
ATOM	15140	CA	PHE	26	239.650	141.836	-27.019	1.00	45.11	GS7	ATOM	15193	CB	ARG	32	241.472	134.679	-16.716	1.00	97.43	G
ATOM	15141	CB	PHE	26	240.597	142.142	-28.174	1.00	61.28	GS7	ATOM	15194	CG	ARG	32	242.910	134.724	-16.317	1.00	97.43	G
ATOM	15142	CG	PHE	26	241.582	141.044	-28.445	1.00	61.28	GS7	ATOM	15195	CD	ARG	32	243.595	133.409	-16.613	1.00	97.43	G
ATOM	15143	CD1	PHE	26	241.143	139.785	-28.838	1.00	61.28	GS7	ATOM	15196	NE	ARG	32	243.571	133.070	-18.035	1.00	97.43	G
ATOM	15144	CD2	PHE	26	242.947	141.261	-28.298	1.00	61.28	GS7	ATOM	15197	CZ	ARG	32	244.424	132.222	-18.601	1.00	97.43	G
ATOM	15145	CE1	PHE	26	242.049	138.757	-29.079	1.00	61.28	GS7	ATOM	15198	NH1	ARG	32	245.361	131.637	-17.864	1.00	97.43	G
ATOM	15146	CE2	PHE	26	243.864	140.239	-28.539	1.00	61.28	GS7	ATOM	15199	NH2	ARG	32	244.346	131.963	-19.899	1.00	97.43	G
ATOM	15147	CZ	PHE	26	243.415	138.985	-28.929	1.00	61.28	GS7	ATOM	15200	C	ARG	32	240.770	136.329	-14.964	1.00	52.63	G
ATOM	15148	C	PHE	26	240.458	141.651	-25.742	1.00	45.11	GS7	ATOM	15201	O	ARG	32	241.682	137.019	-14.513	1.00	52.63	G
ATOM	15149	O	PHE	26	240.878	140.535	-25.415	1.00	45.11	GS7	ATOM	15202	N	ASP	33	239.778	135.859	-14.214	1.00	44.17	G
ATOM	15150	N	ILE	27	240.677	142.747	-25.022	1.00	66.26	GS7	ATOM	15203	CA	ASP	33	239.664	136.138	-12.780	1.00	44.17	G
ATOM	15151	CA	ILE	27	241.435	142.685	-23.781	1.00	66.26	GS7	ATOM	15204	CB	ASP	33	240.780	135.447	-11.992	1.00	55.97	G
ATOM	15152	CB	ILE	27	241.671	144.085	-23.203	1.00	66.65	GS7	ATOM	15205	OD1	ASP	33	240.968	133.997	-12.395	1.00	55.97	G
ATOM	15153	CG2	ILE	27	242.593	144.002	-22.002	1.00	66.65	GS7	ATOM	15206	OD2	ASP	33	240.001	133.380	-12.872	1.00	55.97	G
ATOM	15154	CG1	ILE	27	242.322	144.978	-24.256	1.00	66.65	GS7	ATOM	15207	C	ASP	33	242.079	133.457	-12.227	1.00	55.97	G
ATOM	15155	CD1	ILE	27	242.456	146.419	-23.819	1.00	66.65	GS7	ATOM	15208	C	ASP	33	239.694	137.643	-12.510	1.00	44.17	G
ATOM	15156	C	ILE	27	240.667	141.852	-22.764	1.00	66.26	GS7	ATOM	15209	O	ASP	33	240.233	138.092	-11.510	1.00	44.17	G
ATOM	15157	O	ILE	27	241.234	140.965	-22.108	1.00	66.26	GS7	ATOM	15210	N	GLY	34	239.128	138.423	-13.212	1.00	50.55	G
ATOM	15158	N	ASN	28	239.371	142.140	-22.645	1.00	63.61	GS7	ATOM	15211	CA	GLY	34	240.402	140.613	-13.101	1.00	50.55	G
ATOM	15159	CA	ASN	28	238.506	141.419	-21.713	1.00	63.61	GS7	ATOM	15212	C	GLY	34	240.450	141.698	-12.513	1.00	50.55	G
ATOM	15160	CB	ASN	28	237.058	141.893	-21.828	1.00	50.42	GS7	ATOM	15213	O	GLY	34	241.457	140.061	-13.692	1.00	46.08	G
ATOM	15161	CG	ASN	28	236.882	143.328	-21.384	1.00	50.42	GS7	ATOM	15214	N	LYS	35	242.780	140.682	-13.677	1.00	46.08	G
ATOM	15162	OD1	ASN	28	237.730	143.874	-20.674	1.00	50.42	GS7	ATOM	15215	CA	LYS	35	243.854	139.604	-13.595	1.00	40.91	G
ATOM	15163	ND2	ASN	28	235.767	143.945	-21.787	1.00	50.42	GS7	ATOM	15216	CB	LYS	35	243.900	138.857	-12.286	1.00	40.91	G
ATOM	15164	C	ASN	28	238.552	139.932	-21.956	1.00	63.61	GS7	ATOM	15217	CG	LYS	35	245.183	137.856	-10.763	1.00	40.91	G
ATOM	15165	O	ASN	28	238.632	139.132	-21.013	1.00	63.61	GS7	ATOM	15218	CD	LYS	35	246.651	137.855	-10.763	1.00	40.91	G
ATOM	15166	N	LYS	29	238.501	139.534	-23.224	1.00	64.39	GS7	ATOM	15219	CE	LYS	35	245.909	137.037	-10.702	1.00	40.91	G
ATOM	15167	CA	LYS	29	238.541	138.125	-23.563	1.00	64.39	GS7	ATOM	15220	NZ	LYS	35	243.014	141.539	-14.925	1.00	46.08	G
ATOM	15168	CB	LYS	29	238.326	137.937	-25.062	1.00	70.18	GS7	ATOM	15221	C	LYS	35	243.927	141.280	-15.078	1.00	58.37	G
ATOM	15169	CG	LYS	29	236.863	137.769	-25.429	1.00	70.18	GS7	ATOM	15222	O	LYS	35	242.194	142.573	-15.078	1.00	58.37	G
ATOM	15170	CD	LYS	29	236.298	136.557	-24.715	1.00	70.18	GS7	ATOM	15223	N	LYS	36	242.263	143.475	-16.220	1.00	58.37	G
ATOM	15171	CE	LYS	29	234.876	136.265	-25.125	1.00	70.18	GS7	ATOM	15224	CA	LYS	36	241.238	144.596	-16.068	1.00	83.86	G
ATOM	15172	NZ	LYS	29	234.422	135.000	-24.477	1.00	70.18	GS7	ATOM	15225	CB	LYS	36	240.654	145.119	-17.372	1.00	83.86	G
ATOM	15173	C	LYS	29	239.840	137.465	-23.120	1.00	64.39	GS7	ATOM	15226	CD	LYS	36	239.557	146.145	-17.066	1.00	83.86	G
ATOM	15174	O	LYS	29	239.870	136.265	-22.832	1.00	64.39	GS7	ATOM	15227	CE	LYS	36	238.903	146.706	-18.322	1.00	83.86	G
ATOM	15175	N	ILE	30	240.911	138.246	-23.049	1.00	39.77	GS7	ATOM	15228	CE	LYS	36	238.068	145.692	-19.011	1.00	83.86	G
ATOM	15176	CA	ILE	30	242.188	137.696	-22.619	1.00	39.77	GS7	ATOM	15229	NZ	LYS	36						G

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ATOM	15230	C	LVS	36	243.636	144.079	-16.435	1.00	58.37	GS7	ATOM	15283	CE1	PHE	43	245.381	143.528	-28.786	1.00	48.71	G
ATOM	15231	O	LVS	36	243.972	144.439	-17.552	1.00	58.37	GS7	ATOM	15284	CE2	PHE	43	245.556	145.757	-27.938	1.00	48.71	G
ATOM	15232	N	ASN	37	244.440	144.199	-15.386	1.00	52.07	GS7	ATOM	15285	C2	PHE	43	245.253	144.897	-28.974	1.00	48.71	G
ATOM	15233	CA	ASN	37	245.768	144.785	-15.557	1.00	52.07	GS7	ATOM	15286	C	PHE	43	248.869	143.820	-25.675	1.00	68.05	G
ATOM	15234	CB	ASN	37	246.450	144.969	-14.208	1.00	67.24	GS7	ATOM	15287	O	PHE	43	249.527	143.668	-26.709	1.00	68.05	G
ATOM	15235	CG	ASN	37	247.206	146.278	-14.112	1.00	67.24	GS7	ATOM	15288	N	TYR	44	248.908	144.921	-24.933	1.00	63.91	G
ATOM	15236	CD1	ASN	37	248.037	146.456	-13.223	1.00	67.24	GS7	ATOM	15289	CA	TYR	44	249.768	146.048	-25.267	1.00	63.91	G
ATOM	15237	ND2	ASN	37	246.909	147.209	-15.017	1.00	67.24	GS7	ATOM	15290	CB	TYR	44	249.725	147.069	-24.123	1.00	55.37	G
ATOM	15238	C	ASN	37	246.607	143.861	-16.421	1.00	52.07	GS7	ATOM	15291	CG	TYR	44	248.384	147.787	-23.982	1.00	55.37	G
ATOM	15239	O	ASN	37	246.988	144.207	-17.547	1.00	52.07	GS7	ATOM	15292	CD1	TYR	44	247.811	148.001	-22.719	1.00	55.37	G
ATOM	15240	N	LEU	38	246.889	142.681	-15.875	1.00	52.27	GS7	ATOM	15293	CE1	TYR	44	246.585	148.660	-22.579	1.00	55.37	G
ATOM	15241	CA	LEU	38	247.669	141.662	-16.565	1.00	52.27	GS7	ATOM	15294	CD2	TYR	44	247.691	148.258	-25.107	1.00	55.37	G
ATOM	15242	CB	LEU	38	247.699	140.400	-15.703	1.00	44.30	GS7	ATOM	15295	CE2	TYR	44	246.459	148.919	-24.976	1.00	55.37	G
ATOM	15243	CG	LEU	38	247.865	138.988	-16.263	1.00	44.30	GS7	ATOM	15296	C2	TYR	44	245.914	149.116	-23.709	1.00	55.37	G
ATOM	15244	CD1	LEU	38	248.942	138.938	-17.332	1.00	44.30	GS7	ATOM	15297	OH	TYR	44	244.699	149.765	-23.561	1.00	55.37	G
ATOM	15245	CD2	LEU	38	248.214	138.060	-15.105	1.00	44.30	GS7	ATOM	15298	C	TYR	44	251.208	145.602	-25.583	1.00	63.91	G
ATOM	15246	C	LEU	38	247.054	141.401	-17.939	1.00	52.27	GS7	ATOM	15299	O	TYR	44	251.860	146.175	-26.460	1.00	63.91	G
ATOM	15247	O	LEU	38	247.754	141.115	-18.907	1.00	52.27	GS7	ATOM	15300	N	ASP	45	251.699	144.579	-24.885	1.00	59.17	G
ATOM	15248	N	ALA	39	245.739	141.524	-18.027	1.00	58.15	GS7	ATOM	15301	CA	ASP	45	253.036	144.072	-25.166	1.00	59.17	G
ATOM	15249	CA	ALA	39	245.072	141.327	-19.300	1.00	58.15	GS7	ATOM	15302	CB	ASP	45	253.424	142.934	-24.226	1.00	63.62	G
ATOM	15250	CB	ALA	39	243.574	141.422	-19.126	1.00	79.55	GS7	ATOM	15303	CG	ASP	45	253.752	143.411	-22.615	1.00	63.62	G
ATOM	15251	C	ALA	39	245.545	142.408	-20.254	1.00	58.15	GS7	ATOM	15304	OD1	ASP	45	253.877	144.638	-22.827	1.00	63.62	G
ATOM	15252	O	ALA	39	246.020	142.118	-21.351	1.00	58.15	GS7	ATOM	15305	OD2	ASP	45	253.896	142.547	-21.934	1.00	63.62	G
ATOM	15253	N	ALA	40	245.422	143.657	-19.816	1.00	64.46	GS7	ATOM	15306	C	ASP	45	252.989	143.523	-26.580	1.00	59.17	G
ATOM	15254	CA	ALA	40	245.805	144.809	-20.620	1.00	64.46	GS7	ATOM	15307	O	ASP	45	253.763	143.931	-27.444	1.00	59.17	G
ATOM	15255	CB	ALA	40	245.472	146.095	-19.873	1.00	37.00	GS7	ATOM	15308	N	ALA	46	252.068	142.591	-26.807	1.00	73.50	G
ATOM	15256	C	ALA	40	247.277	144.797	-21.020	1.00	64.46	GS7	ATOM	15309	CA	ALA	46	251.900	141.974	-28.115	1.00	73.50	G
ATOM	15257	O	ALA	40	247.621	145.114	-22.164	1.00	64.46	GS7	ATOM	15310	CB	ALA	46	250.619	141.152	-28.145	1.00	85.05	G
ATOM	15258	N	ARG	41	248.154	144.441	-20.091	1.00	74.66	GS7	ATOM	15311	C	ALA	46	251.852	143.054	-29.184	1.00	73.50	G
ATOM	15259	CA	ARG	41	249.560	144.408	-20.443	1.00	74.66	GS7	ATOM	15312	O	ALA	46	252.393	142.889	-30.276	1.00	73.50	G
ATOM	15260	CB	ARG	41	250.419	144.082	-19.226	1.00	89.39	GS7	ATOM	15313	N	CYS	47	251.206	144.166	-28.866	1.00	58.68	G
ATOM	15261	CG	ARG	41	250.411	145.217	-18.237	1.00	89.39	GS7	ATOM	15314	CA	CYS	47	251.113	145.254	-29.820	1.00	58.68	G
ATOM	15262	CD	ARG	41	251.615	145.210	-17.337	1.00	89.39	GS7	ATOM	15315	CB	CYS	47	250.252	146.373	-29.250	1.00	73.10	G
ATOM	15263	NE	ARG	41	251.603	144.080	-16.420	1.00	89.39	GS7	ATOM	15316	SG	CYS	47	248.503	145.942	-29.316	1.00	73.10	G
ATOM	15264	C2	ARG	41	252.395	143.985	-15.360	1.00	89.39	GS7	ATOM	15317	C	CYS	47	252.493	145.770	-30.206	1.00	58.68	G
ATOM	15265	NH1	ARG	41	253.259	144.961	-15.091	1.00	89.39	GS7	ATOM	15318	O	CYS	47	252.702	146.228	-31.338	1.00	58.68	G
ATOM	15266	NH2	ARG	41	252.322	142.921	-14.569	1.00	89.39	GS7	ATOM	15319	N	LVS	48	253.438	145.679	-29.273	1.00	79.30	G
ATOM	15267	C	ARG	41	249.770	143.394	-21.550	1.00	74.66	GS7	ATOM	15320	CA	LVS	48	253.800	146.119	-29.532	1.00	79.30	G
ATOM	15268	O	ARG	41	250.140	143.759	-22.663	1.00	74.66	GS7	ATOM	15321	CB	LVS	48	255.505	146.440	-28.217	1.00	75.84	G
ATOM	15269	N	ILE	42	249.508	142.127	-21.255	1.00	62.16	GS7	ATOM	15322	CG	LVS	48	254.708	147.425	-27.391	1.00	75.84	G
ATOM	15270	CA	ILE	42	249.660	141.067	-22.241	1.00	62.16	GS7	ATOM	15323	CD	LVS	48	255.437	147.926	-26.149	1.00	75.84	G
ATOM	15271	CB	ILE	42	248.746	139.871	-21.893	1.00	46.52	GS7	ATOM	15324	CE	LVS	48	253.880	148.836	-25.321	1.00	75.84	G
ATOM	15272	CG2	ILE	42	249.260	139.213	-20.613	1.00	46.52	GS7	ATOM	15325	N2	LVS	48	255.566	145.048	-30.304	1.00	79.30	G
ATOM	15273	CG1	ILE	42	248.653	137.848	-20.308	1.00	46.52	GS7	ATOM	15326	C	LVS	48	256.376	145.363	-31.170	1.00	79.30	G
ATOM	15274	CD1	ILE	42	249.368	141.534	-23.675	1.00	62.16	GS7	ATOM	15327	O	LVS	48	255.306	143.781	-30.005	1.00	64.45	G
ATOM	15275	C	ILE	42	249.133	141.248	-24.596	1.00	62.16	GS7	ATOM	15328	N	ILE	49	255.986	142.700	-30.703	1.00	64.45	G
ATOM	15276	N	ILE	43	248.274	142.262	-23.860	1.00	68.05	GS7	ATOM	15329	CA	ILE	49	255.613	141.337	-30.134	1.00	42.68	G
ATOM	15277	O	PHE	43	247.918	142.749	-25.185	1.00	68.05	GS7	ATOM	15330	CB	ILE	49	256.277	140.237	-30.965	1.00	42.68	G
ATOM	15278	CA	PHE	43	246.526	143.344	-25.183	1.00	48.71	GS7	ATOM	15331	CG2	ILE	49	256.011	141.269	-28.659	1.00	42.68	G
ATOM	15279	CB	PHE	43	245.108	143.886	-26.513	1.00	48.71	GS7	ATOM	15332	CG1	ILE	49	255.547	140.015	-27.957	1.00	42.68	G
ATOM	15280	CG	PHE	43	245.808	143.030	-27.559	1.00	48.71	GS7	ATOM	15333	CD1	ILE	49	256.552	142.720	-32.151	1.00	64.45	G
ATOM	15281	CD1	PHE	43	245.984	145.249	-26.711	1.00	48.71	GS7	ATOM	15334	C	ILE	49	256.325	142.393	-33.056	1.00	64.45	G
ATOM	15282	CD2	PHE	43							ATOM	15335	O	ILE	49						G

ATOM	15336	N	ILE	50	254.295	143.087	-32.360	1.00	72.24	GS7	ATOM	15389	C	GLN	56	252.486	148.503	-37.254	1.00	92.35	GS
ATOM	15337	CB	ILE	50	253.742	143.157	-33.699	1.00	72.24	GS7	ATOM	15390	O	GLN	56	252.794	147.813	-36.282	1.00	92.35	GS
ATOM	15338	CA	ILE	50	252.216	143.336	-33.642	1.00	73.48	GS7	ATOM	15391	N	GLU	57	251.647	149.534	-37.167	1.00	85.41	GS
ATOM	15339	CG2	ILE	50	251.661	143.666	-35.025	1.00	73.48	GS7	ATOM	15392	CA	GLU	57	251.043	149.861	-35.881	1.00	85.41	GS
ATOM	15340	CG1	ILE	50	251.587	142.050	-33.089	1.00	73.48	GS7	ATOM	15393	CB	GLU	57	250.119	151.081	-35.942	1.00	109.94	GS
ATOM	15341	CD1	ILE	50	250.240	142.240	-32.409	1.00	73.48	GS7	ATOM	15394	CG	GLU	57	250.433	152.074	-37.030	1.00	109.94	GS
ATOM	15342	C	ILE	50	254.400	144.345	-34.369	1.00	72.24	GS7	ATOM	15395	CD	GLU	57	249.838	151.657	-38.356	1.00	109.94	GS
ATOM	15343	O	ILE	50	254.386	144.470	-35.595	1.00	72.24	GS7	ATOM	15396	OE1	GLU	57	250.156	150.544	-38.828	1.00	109.94	GS
ATOM	15344	N	GLN	51	254.998	145.203	-33.543	1.00	87.81	GS7	ATOM	15397	OE2	GLU	57	249.049	152.441	-38.925	1.00	109.94	GS
ATOM	15345	CA	GLN	51	255.691	146.396	-34.018	1.00	87.81	GS7	ATOM	15398	C	GLU	57	250.215	148.639	-35.606	1.00	85.41	GS
ATOM	15346	CG	GLN	51	255.750	147.456	-32.920	1.00	106.40	GS7	ATOM	15399	O	GLU	57	249.524	148.129	-36.493	1.00	85.41	GS
ATOM	15347	CB	GLN	51	256.118	148.838	-33.419	1.00	106.40	GS7	ATOM	15400	N	PRO	58	250.275	148.141	-34.375	1.00	63.64	GS
ATOM	15348	CD	GLN	51	255.152	149.333	-34.476	1.00	106.40	GS7	ATOM	15401	CD	PRO	58	250.828	148.776	-33.168	1.00	108.50	GS
ATOM	15349	OE1	GLN	51	255.078	148.777	-35.571	1.00	106.40	GS7	ATOM	15402	CA	PRO	58	249.498	146.950	-34.039	1.00	63.64	GS
ATOM	15350	NE2	GLN	51	254.401	150.378	-34.150	1.00	106.40	GS7	ATOM	15403	CB	PRO	58	249.756	146.795	-32.542	1.00	108.50	GS
ATOM	15351	C	GLN	51	257.103	146.027	-34.442	1.00	87.81	GS7	ATOM	15404	CG	PRO	58	249.942	148.221	-32.088	1.00	108.50	GS
ATOM	15352	O	GLN	51	257.654	146.629	-35.359	1.00	87.81	GS7	ATOM	15405	C	PRO	58	248.009	147.073	-34.374	1.00	63.64	GS
ATOM	15353	N	GLU	52	257.689	145.045	-33.763	1.00	85.85	GS7	ATOM	15406	O	PRO	58	247.462	146.264	-35.120	1.00	63.64	GS
ATOM	15354	CB	GLU	52	259.029	144.584	-34.104	1.00	85.85	GS7	ATOM	15407	N	LEU	59	247.374	148.107	-33.831	1.00	74.13	GS
ATOM	15355	CG	GLU	52	259.455	143.424	-33.208	1.00	130.72	GS7	ATOM	15408	CA	LEU	59	245.947	148.329	-34.014	1.00	74.13	GS
ATOM	15356	CG	GLU	52	259.517	143.770	-31.735	1.00	130.72	GS7	ATOM	15409	CB	LEU	59	245.591	149.781	-33.688	1.00	64.69	GS
ATOM	15357	CD	GLU	52	260.455	144.924	-31.450	1.00	130.72	GS7	ATOM	15410	CG	LEU	59	244.090	150.092	-33.729	1.00	64.69	GS
ATOM	15358	OE1	GLU	52	260.164	146.057	-31.899	1.00	130.72	GS7	ATOM	15411	CD1	LEU	59	243.319	149.141	-32.827	1.00	64.69	GS
ATOM	15359	OE2	GLU	52	261.485	144.691	-30.778	1.00	130.72	GS7	ATOM	15412	CD2	LEU	59	243.866	151.527	-33.292	1.00	64.69	GS
ATOM	15360	C	GLU	52	259.938	144.100	-35.528	1.00	85.85	GS7	ATOM	15413	C	LEU	59	245.345	147.946	-35.365	1.00	74.13	GS
ATOM	15361	O	GLU	52	259.464	144.128	-36.441	1.00	85.85	GS7	ATOM	15414	N	LEU	59	244.218	147.456	-35.411	1.00	74.13	GS
ATOM	15362	N	LVS	53	258.258	142.977	-35.715	1.00	77.12	GS7	ATOM	15415	N	LVS	60	246.076	148.152	-36.458	1.00	62.24	GS
ATOM	15363	CA	LVS	53	258.074	142.422	-37.049	1.00	77.12	GS7	ATOM	15416	CA	LVS	60	245.541	147.812	-37.774	1.00	62.24	GS
ATOM	15364	CB	LVS	53	257.489	141.007	-36.972	1.00	90.03	GS7	ATOM	15417	CB	LVS	60	245.446	148.544	-40.214	1.00	130.53	GS
ATOM	15365	CG	LVS	53	258.323	140.021	-36.166	1.00	90.03	GS7	ATOM	15418	CG	LVS	60	246.003	149.485	-41.276	1.00	130.53	GS
ATOM	15366	CD	LVS	53	258.418	140.439	-34.705	1.00	90.03	GS7	ATOM	15419	CD	LVS	60	245.279	149.298	-42.611	1.00	130.53	GS
ATOM	15367	CE	LVS	53	259.437	139.606	-33.951	1.00	90.03	GS7	ATOM	15420	CE	LVS	60	245.805	150.191	-43.687	1.00	130.53	GS
ATOM	15368	NZ	LVS	53	259.603	140.066	-32.545	1.00	90.03	GS7	ATOM	15421	NZ	LVS	60	245.780	146.345	-38.111	1.00	62.24	GS
ATOM	15369	C	LVS	53	257.080	143.356	-37.722	1.00	77.12	GS7	ATOM	15422	C	LVS	60	245.055	145.759	-38.918	1.00	62.24	GS
ATOM	15370	O	LVS	53	256.558	144.258	-37.074	1.00	77.12	GS7	ATOM	15423	O	LVS	60	246.803	145.753	-37.506	1.00	73.03	GS
ATOM	15371	N	THR	54	256.835	143.149	-39.012	1.00	95.33	GS7	ATOM	15424	N	VAL	61	247.079	144.309	-37.735	1.00	73.03	GS
ATOM	15372	CA	THR	54	255.880	143.957	-39.785	1.00	95.33	GS7	ATOM	15425	CA	VAL	61	248.467	143.909	-37.188	1.00	57.13	GS
ATOM	15373	CB	THR	54	254.408	143.684	-39.322	1.00	129.31	GS7	ATOM	15426	CB	VAL	61	248.651	142.414	-37.385	1.00	57.13	GS
ATOM	15374	CG1	THR	54	254.127	144.414	-38.119	1.00	129.31	GS7	ATOM	15427	CG1	VAL	61	249.588	144.686	-37.880	1.00	57.13	GS
ATOM	15375	CG2	THR	54	254.198	142.200	-39.052	1.00	129.31	GS7	ATOM	15428	CG2	VAL	61	246.005	143.610	-36.941	1.00	73.03	GS
ATOM	15376	C	THR	54	256.092	145.484	-39.804	1.00	95.33	GS7	ATOM	15429	C	VAL	61	245.492	144.177	-37.359	1.00	73.03	GS
ATOM	15377	O	THR	54	255.771	146.152	-40.794	1.00	84.14	GS7	ATOM	15430	N	PHE	62	246.671	144.152	-37.786	1.00	69.82	GS
ATOM	15378	N	GLY	55	256.622	146.039	-38.722	1.00	84.14	GS7	ATOM	15431	N	PHE	62	244.655	143.610	-34.915	1.00	69.82	GS
ATOM	15379	CA	GLY	55	255.818	147.471	-38.682	1.00	84.14	GS7	ATOM	15432	CA	PHE	62	244.516	144.448	-33.636	1.00	57.10	GS
ATOM	15380	C	GLY	55	255.504	148.213	-38.883	1.00	84.14	GS7	ATOM	15433	CB	PHE	62	243.295	144.118	-32.827	1.00	57.10	GS
ATOM	15381	O	GLY	55	255.498	149.342	-39.383	1.00	92.35	GS7	ATOM	15434	CG	PHE	62	242.341	145.093	-32.559	1.00	57.10	GS
ATOM	15382	N	GLN	56	254.392	147.583	-38.498	1.00	92.35	GS7	ATOM	15435	CD1	PHE	62	241.926	142.507	-31.647	1.00	57.10	GS
ATOM	15383	CA	GLN	56	253.066	148.194	-38.625	1.00	95.94	GS7	ATOM	15436	CD2	PHE	62	241.190	144.789	-31.847	1.00	57.10	GS
ATOM	15384	CB	GLN	56	252.109	147.253	-39.338	1.00	95.94	GS7	ATOM	15437	CE1	PHE	62	240.982	143.493	-31.390	1.00	57.10	GS
ATOM	15385	CG	GLN	56	252.576	146.808	-40.688	1.00	95.94	GS7	ATOM	15438	CE2	PHE	62	243.334	143.579	-35.664	1.00	69.82	GS
ATOM	15386	CD	GLN	56	251.570	145.903	-41.361	1.00	95.94	GS7	ATOM	15439	CZ	PHE	62	242.695	142.528	-35.774	1.00	69.82	GS
ATOM	15387	OE1	GLN	56	251.952	144.646	-41.571	1.00	95.94	GS7	ATOM	15440	C	PHE	62						
ATOM	15388	NE2	GLN	56						GS7	ATOM	15441	O	PHE	62						

ATOM	15442	N	LYS	63	242.937	144.737	-36.182	1.00	75.24	GS7	ATOM	15495	O	VAL	69	236.366	134.113	-37.658	1.00	66.77	G
ATOM	15443	CA	LYS	63	241.691	144.844	-36.925	1.00	75.24	GS7	ATOM	15496	N	LYS	70	236.250	136.203	-38.469	1.00	50.16	G
ATOM	15444	CB	LYS	63	241.558	146.228	-37.554	1.00	98.99	GS7	ATOM	15497	CA	LYS	70	234.789	136.278	-38.442	1.00	50.16	G
ATOM	15445	CG	LYS	63	241.735	147.390	-36.584	1.00	98.99	GS7	ATOM	15498	CB	LYS	70	234.330	137.688	-38.823	1.00	48.42	G
ATOM	15446	CD	LYS	63	240.473	147.725	-35.803	1.00	98.99	GS7	ATOM	15499	CG	LYS	70	234.824	138.791	-37.916	1.00	48.42	G
ATOM	15447	CE	LYS	63	240.699	148.956	-34.923	1.00	98.99	GS7	ATOM	15500	CD	LYS	70	234.140	140.095	-38.266	1.00	48.42	G
ATOM	15448	NZ	LYS	63	239.447	149.463	-34.299	1.00	98.99	GS7	ATOM	15501	CE	LYS	70	234.349	141.121	-37.172	1.00	48.42	G
ATOM	15449	C	LYS	63	241.675	143.788	-38.022	1.00	75.24	GS7	ATOM	15502	NZ	LYS	70	233.717	142.425	-37.506	1.00	48.42	G
ATOM	15450	O	LYS	63	240.676	143.093	-38.209	1.00	75.24	GS7	ATOM	15503	C	LYS	70	234.068	135.282	-39.348	1.00	50.16	G
ATOM	15451	N	GLN	64	242.783	143.665	-38.744	1.00	81.44	GS7	ATOM	15504	O	LYS	70	234.134	135.386	-40.572	1.00	50.16	G
ATOM	15452	CA	GLN	64	242.866	142.681	-39.812	1.00	81.44	GS7	ATOM	15505	N	PRO	71	233.357	134.306	-38.760	1.00	62.87	G
ATOM	15453	CB	GLN	64	244.204	142.790	-40.537	1.00	129.56	GS7	ATOM	15506	CD	PRO	71	233.138	134.032	-37.328	1.00	49.27	G
ATOM	15454	CG	GLN	64	244.145	143.663	-41.777	1.00	129.56	GS7	ATOM	15507	CA	PRO	71	232.643	133.333	-39.589	1.00	62.87	G
ATOM	15455	CD	GLN	64	243.249	143.075	-42.857	1.00	129.56	GS7	ATOM	15508	CB	PRO	71	232.342	132.217	-38.606	1.00	49.27	G
ATOM	15456	OE1	GLN	64	242.056	142.849	-42.641	1.00	129.56	GS7	ATOM	15509	CG	PRO	71	232.037	132.990	-37.359	1.00	49.27	G
ATOM	15457	NE2	GLN	64	243.823	142.823	-44.029	1.00	129.56	GS7	ATOM	15510	C	PRO	71	231.379	134.026	-40.080	1.00	62.87	G
ATOM	15458	C	GLN	64	242.658	141.258	-39.309	1.00	81.44	GS7	ATOM	15511	O	PRO	71	230.721	134.717	-39.305	1.00	62.87	G
ATOM	15459	O	GLN	64	241.888	140.501	-39.896	1.00	81.44	GS7	ATOM	15512	N	ARG	72	231.050	133.864	-41.357	1.00	68.70	G
ATOM	15460	N	ALA	65	243.339	140.893	-38.227	1.00	79.00	GS7	ATOM	15513	CA	ARG	72	229.860	134.497	-41.920	1.00	68.70	G
ATOM	15461	CA	ALA	65	243.196	139.549	-37.669	1.00	79.00	GS7	ATOM	15514	CB	ARG	72	230.157	134.991	-43.333	1.00	100.40.56	G
ATOM	15462	CB	ALA	65	243.912	139.455	-36.327	1.00	80.18	GS7	ATOM	15515	CG	ARG	72	231.131	134.116	-44.060	1.00	100.40.56	G
ATOM	15463	O	ALA	65	241.710	139.264	-37.493	1.00	79.00	GS7	ATOM	15516	CD	ARG	72	231.644	134.780	-45.301	1.00	100.40.56	G
ATOM	15464	C	ALA	65	241.172	138.304	-38.051	1.00	79.00	GS7	ATOM	15517	NE	ARG	72	232.721	133.994	-45.884	1.00	100.40.56	G
ATOM	15465	N	VAL	66	241.055	140.120	-36.714	1.00	66.20	GS7	ATOM	15518	CZ	ARG	72	233.265	134.243	-47.068	1.00	100.40.56	G
ATOM	15466	CA	VAL	66	239.625	140.006	-36.455	1.00	66.20	GS7	ATOM	15519	NH1	ARG	72	232.828	135.263	-47.799	1.00	100.40.56	G
ATOM	15467	CB	VAL	66	239.076	141.306	-35.850	1.00	50.98	GS7	ATOM	15520	NH2	ARG	72	234.246	133.472	-47.521	1.00	100.40.56	G
ATOM	15468	CG1	VAL	66	237.569	141.261	-35.825	1.00	50.98	GS7	ATOM	15521	C	ARG	72	228.651	133.564	-41.909	1.00	68.70	G
ATOM	15469	CG2	VAL	66	239.642	141.509	-34.451	1.00	50.98	GS7	ATOM	15522	O	ARG	72	227.501	134.010	-41.843	1.00	68.70	G
ATOM	15470	C	VAL	66	238.840	139.714	-37.729	1.00	66.20	GS7	ATOM	15523	N	MET	73	228.907	132.268	-41.985	1.00	52.17	G
ATOM	15471	O	VAL	66	238.340	138.607	-37.924	1.00	66.20	GS7	ATOM	15524	CA	MET	73	227.695	131.520	-43.222	1.00	69.63	G
ATOM	15472	N	GLU	67	238.736	140.723	-38.590	1.00	72.65	GS7	ATOM	15525	CB	MET	73	227.281	131.366	-44.412	1.00	69.63	G
ATOM	15473	CA	GLU	67	238.004	140.612	-39.848	1.00	72.65	GS7	ATOM	15526	CG	MET	73	225.662	132.108	-44.224	1.00	69.63	G
ATOM	15474	CB	GLU	67	238.380	141.767	-40.772	1.00	112.03	GS7	ATOM	15527	SD	MET	73	227.827	131.299	-41.916	1.00	52.17	G
ATOM	15475	CG	GLU	67	237.556	141.828	-42.050	1.00	112.03	GS7	ATOM	15528	CE	MET	73	224.627	130.655	-44.400	1.00	69.63	G
ATOM	15476	CD	GLU	67	236.166	142.402	-41.829	1.00	112.03	GS7	ATOM	15529	C	MET	73	228.190	130.347	-40.789	1.00	52.17	G
ATOM	15477	OE1	GLU	67	235.416	142.539	-42.820	1.00	112.03	GS7	ATOM	15530	O	MET	73	229.371	130.076	-40.553	1.00	52.17	G
ATOM	15478	OE2	GLU	67	235.826	142.723	-40.669	1.00	112.03	GS7	ATOM	15531	N	GLU	74	227.193	129.864	-40.064	1.00	59.51	G
ATOM	15479	C	GLU	67	238.193	139.290	-40.602	1.00	72.65	GS7	ATOM	15532	CA	GLU	74	227.469	128.924	-38.995	1.00	59.51	G
ATOM	15480	O	GLU	67	237.335	138.907	-41.394	1.00	72.65	GS7	ATOM	15533	CB	GLU	74	227.630	129.638	-37.656	1.00	91.85	G
ATOM	15481	N	ASN	68	239.299	138.592	-40.362	1.00	75.88	GS7	ATOM	15534	CG	GLU	74	226.335	130.128	-37.054	1.00	91.85	G
ATOM	15482	CA	ASN	68	239.542	137.333	-41.060	1.00	75.88	GS7	ATOM	15535	CD	GLU	74	226.532	130.738	-35.687	1.00	91.85	G
ATOM	15483	CB	ASN	68	241.031	137.149	-41.340	1.00	76.40	GS7	ATOM	15536	OE1	GLU	74	227.094	130.054	-34.803	1.00	91.85	G
ATOM	15484	CG	ASN	68	241.594	138.238	-42.209	1.00	76.40	GS7	ATOM	15537	OE2	GLU	74	226.324	131.901	-35.499	1.00	91.85	G
ATOM	15485	OD1	ASN	68	241.061	138.531	-43.277	1.00	76.40	GS7	ATOM	15538	C	GLU	74	226.304	127.970	-38.933	1.00	59.51	G
ATOM	15486	ND2	ASN	68	242.686	138.847	-41.759	1.00	76.40	GS7	ATOM	15539	O	GLU	74	225.186	128.303	-39.327	1.00	59.51	G
ATOM	15487	C	ASN	68	239.046	136.122	-40.291	1.00	75.88	GS7	ATOM	15540	N	VAL	75	226.570	126.779	-38.432	1.00	51.98	G
ATOM	15488	O	ASN	68	238.814	135.056	-40.869	1.00	75.88	GS7	ATOM	15541	CA	VAL	75	225.552	125.754	-38.326	1.00	51.98	G
ATOM	15489	N	VAL	69	238.892	136.290	-38.986	1.00	66.77	GS7	ATOM	15542	CB	VAL	75	226.183	124.391	-38.692	1.00	64.44	G
ATOM	15490	CA	VAL	69	238.439	135.211	-38.127	1.00	66.77	GS7	ATOM	15543	CG1	VAL	75	225.648	123.292	-37.806	1.00	64.44	G
ATOM	15491	CB	VAL	69	238.998	135.408	-36.719	1.00	63.11	GS7	ATOM	15544	CG2	VAL	75	225.918	124.093	-40.151	1.00	64.44	G
ATOM	15492	CG1	VAL	69	238.585	134.260	-35.820	1.00	63.11	GS7	ATOM	15545	C	VAL	75	224.913	125.710	-36.930	1.00	51.98	G
ATOM	15493	CG2	VAL	69	240.504	135.529	-36.791	1.00	63.11	GS7	ATOM	15546	O	VAL	75	225.601	125.546	-35.924	1.00	51.98	G
ATOM	15494	C	VAL	69	236.919	135.131	-38.060	1.00	66.77	GS7	ATOM	15547	N	ARG	76	223.594	125.869	-36.874	1.00	75.72	G

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ATOM	15548	CA	ARG	76	222.864	125.831	-35.608	1.00	75.72	GS7	ATOM	15601	N	ALA	83	214.019	114.345	-36.387	1.00126.85	GS	
ATOM	15549	CB	ARG	76	222.020	127.096	-35.434	1.00133.34		GS7	ATOM	15602	CA	ALA	83	215.433	114.143	-36.660	1.00126.85	GS	
ATOM	15550	CG	ARG	76	222.811	128.379	-35.220	1.00133.34		GS7	ATOM	15603	CB	ALA	83	215.622	113.563	-38.056	1.00	69.18	GS
ATOM	15551	CD	ARG	76	221.911	129.596	-35.434	1.00133.34		GS7	ATOM	15604	C	ALA	83	216.129	115.484	-36.554	1.00126.85	GS	
ATOM	15552	NE	ARG	76	221.821	130.468	-34.264	1.00133.34		GS7	ATOM	15605	O	ALA	83	215.804	116.420	-37.288	1.00126.85	GS	
ATOM	15553	CZ	ARG	76	220.678	130.926	-33.755	1.00133.34		GS7	ATOM	15606	N	ASN	84	217.078	115.580	-35.631	1.00116.97	GS	
ATOM	15554	NH1	ARG	76	219.516	130.595	-34.311	1.00133.34		GS7	ATOM	15607	CA	ASN	84	217.810	116.823	-35.443	1.00116.97	GS	
ATOM	15555	NH2	ARG	76	220.696	131.714	-32.686	1.00133.34		GS7	ATOM	15608	CB	ASN	84	218.501	116.833	-34.084	1.00111.06	GS	
ATOM	15556	C	ARG	76	221.953	124.608	-35.610	1.00	75.72	GS7	ATOM	15609	CG	ASN	84	219.276	118.105	-33.847	1.00111.06	GS	
ATOM	15557	O	ARG	76	221.091	124.472	-36.477	1.00	75.72	GS7	ATOM	15610	OD1	ASN	84	218.712	119.196	-33.859	1.00111.06	GS	
ATOM	15558	N	SER	77	222.141	123.721	-34.637	1.00115.84		GS7	ATOM	15611	NH2	ASN	84	220.580	117.975	-33.637	1.00111.06	GS	
ATOM	15559	CA	SER	77	221.335	122.507	-34.540	1.00115.84		GS7	ATOM	15612	C	ASN	84	218.841	117.031	-36.551	1.00116.97	GS	
ATOM	15560	CB	SER	77	221.793	121.675	-33.348	1.00	95.82	GS7	ATOM	15613	O	ASN	84	219.615	116.130	-36.875	1.00116.97	GS	
ATOM	15561	OG	SER	77	221.161	120.410	-33.360	1.00	95.82	GS7	ATOM	15614	N	TYR	85	218.845	118.229	-37.128	1.00116.48	GS	
ATOM	15562	C	SER	77	219.843	122.808	-34.408	1.00115.84		GS7	ATOM	15615	CA	TYR	85	219.762	118.560	-38.211	1.00116.48	GS	
ATOM	15563	O	SER	77	219.459	123.854	-33.884	1.00115.84		GS7	ATOM	15616	CB	TYR	85	218.976	118.773	-39.508	1.00113.12	GS	
ATOM	15564	N	ARG	78	219.007	121.881	-34.877	1.00	77.24	GS7	ATOM	15617	CG	TYR	85	218.164	117.577	-39.963	1.00113.12	GS	
ATOM	15565	CA	ARG	78	217.550	122.046	-34.826	1.00	77.24	GS7	ATOM	15618	CD1	TYR	85	217.032	117.749	-40.756	1.00113.12	GS	
ATOM	15566	CB	ARG	78	217.113	123.189	-35.750	1.00133.58		GS7	ATOM	15619	CE1	TYR	85	216.281	116.664	-41.191	1.00113.12	GS	
ATOM	15567	CG	ARG	78	215.637	123.140	-36.103	1.00133.58		GS7	ATOM	15620	CD2	TYR	85	218.531	116.276	-39.614	1.00113.12	GS	
ATOM	15568	CD	ARG	78	215.194	124.333	-36.928	1.00133.58		GS7	ATOM	15621	CE2	TYR	85	217.785	115.178	-40.045	1.00113.12	GS	
ATOM	15569	NE	ARG	78	213.807	124.171	-37.361	1.00133.58		GS7	ATOM	15622	CZ	TYR	85	216.660	115.381	-40.833	1.00113.12	GS	
ATOM	15570	CZ	ARG	78	213.065	125.131	-37.907	1.00133.58		GS7	ATOM	15623	OH	TYR	85	215.912	114.305	-41.263	1.00113.12	GS	
ATOM	15571	NH1	ARG	78	213.569	126.346	-38.092	1.00133.58		GS7	ATOM	15624	C	TYR	85	220.561	119.821	-37.906	1.00116.48	GS	
ATOM	15572	NH2	ARG	78	211.817	124.874	-38.276	1.00133.58		GS7	ATOM	15625	O	TYR	85	220.072	120.724	-37.230	1.00116.48	GS	
ATOM	15573	C	ARG	78	216.794	120.780	-35.220	1.00	77.24	GS7	ATOM	15626	N	GLN	86	221.794	119.873	-38.405	1.00	85.73	GS
ATOM	15574	O	ARG	78	216.815	120.380	-36.381	1.00	77.24	GS7	ATOM	15627	CA	GLN	86	222.654	121.035	-38.215	1.00	85.73	GS
ATOM	15575	N	ARG	79	216.115	120.159	-34.258	1.00120.07		GS7	ATOM	15628	CB	GLN	86	224.120	120.613	-38.241	1.00132.90	GS	
ATOM	15576	CA	ARG	79	215.352	118.942	-34.531	1.00120.07		GS7	ATOM	15629	CG	GLN	86	224.497	119.703	-37.087	1.00132.90	GS	
ATOM	15577	CB	ARG	79	214.845	118.322	-33.227	1.00148.96		GS7	ATOM	15630	CD	GLN	86	224.205	120.327	-35.730	1.00132.90	GS	
ATOM	15578	CG	ARG	79	214.002	117.070	-33.433	1.00148.96		GS7	ATOM	15631	OE1	GLN	86	224.237	119.647	-34.702	1.00132.90	GS	
ATOM	15579	CD	ARG	79	213.448	116.558	-32.114	1.00148.96		GS7	ATOM	15632	NE2	GLN	86	223.927	121.627	-35.720	1.00132.90	GS	
ATOM	15580	NE	ARG	79	212.587	115.386	-32.277	1.00148.96		GS7	ATOM	15633	C	GLN	86	222.346	122.011	-39.342	1.00	85.73	GS
ATOM	15581	CZ	ARG	79	212.983	114.422	-32.785	1.00148.96		GS7	ATOM	15634	O	GLN	86	222.787	121.837	-40.466	1.00	85.73	GS
ATOM	15582	NH1	ARG	79	214.235	114.058	-33.194	1.00148.96		GS7	ATOM	15635	N	VAL	87	221.578	123.044	-39.024	1.00	68.62	GS
ATOM	15583	NH2	ARG	79	212.128	113.213	-32.869	1.00148.96		GS7	ATOM	15636	CA	VAL	87	221.155	124.024	-40.013	1.00	68.62	GS
ATOM	15584	C	ARG	79	214.169	119.249	-35.449	1.00120.07		GS7	ATOM	15637	CB	VAL	87	219.748	124.523	-39.675	1.00	52.61	GS
ATOM	15585	O	ARG	79	213.427	120.206	-35.218	1.00120.07		GS7	ATOM	15638	CG1	VAL	87	219.190	125.319	-40.834	1.00	52.61	GS
ATOM	15586	N	VAL	80	213.995	118.434	-36.487	1.00120.52		GS7	ATOM	15639	CG2	VAL	87	218.855	123.338	-39.338	1.00	52.61	GS
ATOM	15587	CA	VAL	80	212.909	118.641	-37.442	1.00120.52		GS7	ATOM	15640	C	VAL	87	222.058	125.239	-40.230	1.00	68.62	GS
ATOM	15588	CB	VAL	80	213.430	119.330	-38.736	1.00	95.48	GS7	ATOM	15641	O	VAL	87	222.402	125.960	-39.293	1.00	68.62	GS
ATOM	15589	CG1	VAL	80	212.264	119.765	-38.375	1.00	95.48	GS7	ATOM	15642	N	PRO	88	222.438	125.488	-41.492	1.00	53.84	GS
ATOM	15590	CG2	VAL	80	214.294	120.516	-38.375	1.00	95.48	GS7	ATOM	15643	CD	PRO	88	222.113	124.704	-42.700	1.00	53.84	GS
ATOM	15591	C	VAL	80	212.206	117.341	-37.840	1.00120.52		GS7	ATOM	15644	CA	PRO	88	223.298	126.621	-41.831	1.00	53.84	GS
ATOM	15592	O	VAL	80	212.855	116.347	-38.181	1.00120.52		GS7	ATOM	15645	CB	PRO	88	223.732	126.301	-43.254	1.00	53.96	GS
ATOM	15593	N	GLY	81	210.875	117.370	-37.789	1.00139.77		GS7	ATOM	15646	CG	PRO	88	222.504	125.653	-43.819	1.00	53.96	GS
ATOM	15594	CA	GLY	81	210.063	116.220	-38.159	1.00139.77		GS7	ATOM	15647	C	PRO	88	222.478	127.881	-41.783	1.00	53.84	GS
ATOM	15595	C	GLY	81	210.321	114.931	-37.400	1.00139.77		GS7	ATOM	15648	O	PRO	88	221.270	127.820	-41.984	1.00	53.84	GS
ATOM	15596	O	GLY	81	209.539	113.982	-37.498	1.00139.77		GS7	ATOM	15649	N	MET	89	223.128	129.011	-41.508	1.00	59.82	GS
ATOM	15597	N	GLY	82	211.411	114.895	-36.640	1.00124.92		GS7	ATOM	15650	CA	MET	89	222.454	130.309	-41.485	1.00	59.82	GS
ATOM	15598	CA	GLY	82	211.756	113.705	-35.886	1.00124.92		GS7	ATOM	15651	CB	MET	89	221.306	130.311	-40.476	1.00137.76	GS	
ATOM	15599	C	GLY	82	213.198	113.329	-36.151	1.00124.92		GS7	ATOM	15652	CG	MET	89	221.663	129.888	-39.077	1.00137.76	GS	
ATOM	15600	O	GLY	82	213.566	112.153	-36.154	1.00124.92		GS7	ATOM	15653	SD	MET	89	220.137	129.774	-38.126	1.00137.76	GS	

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ATOM	15654	CE	MET	89	219.954	131.465	-37.563	1.00137.76	GS7	ATOM	15707	O	ARG	95	230.334	136.381	-33.290	1.00	51.57	G	
ATOM	15655	C	MET	89	223.403	131.465	-41.215	1.00	59.82	GS7	ATOM	15708	N	GLN	96	229.435	137.660	-34.921	1.00	51.90	G
ATOM	15656	O	MET	89	224.445	131.284	-40.581	1.00	59.82	GS7	ATOM	15709	CA	GLN	96	230.584	137.569	-35.800	1.00	51.90	G
ATOM	15657	N	GLU	90	223.050	132.645	-41.727	1.00	59.56	GS7	ATOM	15710	CB	GLN	96	230.355	138.467	-37.006	1.00	66.48	G
ATOM	15658	CA	GLU	90	223.870	133.841	-41.556	1.00	59.56	GS7	ATOM	15711	CG	GLN	96	230.668	137.839	-38.345	1.00	66.48	G
ATOM	15659	CB	GLU	90	223.108	135.088	-42.004	1.00140.79	GS7	ATOM	15712	CD	GLN	96	229.975	138.573	-39.477	1.00	66.48	G	
ATOM	15660	CG	GLU	90	222.817	135.183	-43.487	1.00140.79	GS7	ATOM	15713	OE1	GLN	96	230.066	139.798	-39.591	1.00	66.48	G	
ATOM	15661	CD	GLU	90	221.999	136.424	-43.842	1.00140.79	GS7	ATOM	15714	NE2	GLN	96	229.272	137.825	-40.319	1.00	66.48	G	
ATOM	15662	OE1	GLU	90	221.784	136.666	-45.050	1.00140.79	GS7	ATOM	15715	C	GLN	96	231.795	138.039	-35.016	1.00	51.90	G	
ATOM	15663	OE2	GLU	90	221.567	137.155	-42.918	1.00140.79	GS7	ATOM	15716	O	GLN	96	232.799	137.338	-34.922	1.00	51.90	G	
ATOM	15664	C	GLU	90	224.261	134.027	-40.095	1.00	59.56	GS7	ATOM	15717	N	GLN	97	231.698	139.230	-34.443	1.00	52.85	G
ATOM	15665	O	GLU	90	223.570	133.559	-39.183	1.00	59.56	GS7	ATOM	15718	CA	GLN	97	232.490	141.175	-33.182	1.00	70.31	G
ATOM	15666	N	VAL	91	225.375	134.709	-39.872	1.00	56.82	GS7	ATOM	15719	CB	GLN	97	233.798	139.758	-33.655	1.00	52.85	G
ATOM	15667	CA	VAL	91	225.827	134.988	-38.519	1.00	56.82	GS7	ATOM	15720	CG	GLN	97	232.490	141.175	-33.182	1.00	70.31	G
ATOM	15668	CB	VAL	91	227.283	134.572	-38.319	1.00	55.84	GS7	ATOM	15721	CD	GLN	97	233.029	143.043	-31.567	1.00	70.31	G
ATOM	15669	CG1	VAL	91	227.720	134.911	-36.896	1.00	55.84	GS7	ATOM	15722	OE1	GLN	97	232.956	144.070	-32.258	1.00	70.31	G
ATOM	15670	CG2	VAL	91	227.440	133.084	-38.598	1.00	55.84	GS7	ATOM	15723	NE2	GLN	97	232.703	143.020	-30.267	1.00	70.31	G
ATOM	15671	C	VAL	91	225.721	136.490	-38.336	1.00	56.82	GS7	ATOM	15724	C	GLN	97	233.032	138.857	-32.449	1.00	52.85	G
ATOM	15672	O	VAL	91	226.297	137.253	-39.114	1.00	56.82	GS7	ATOM	15725	O	GLN	97	234.167	138.438	-32.187	1.00	52.85	G
ATOM	15673	N	SER	92	224.986	136.920	-37.319	1.00	66.22	GS7	ATOM	15726	N	SER	98	231.955	138.546	-31.727	1.00	57.11	G
ATOM	15674	CA	SER	92	224.810	138.348	-37.074	1.00	66.22	GS7	ATOM	15727	CA	SER	98	232.056	137.703	-30.536	1.00	57.11	G
ATOM	15675	CB	SER	92	223.860	138.565	-35.912	1.00	79.74	GS7	ATOM	15728	CB	SER	98	230.670	137.292	-30.047	1.00	83.09	G
ATOM	15676	OG	SER	92	224.432	138.050	-34.726	1.00	79.74	GS7	ATOM	15729	OG	SER	98	229.945	138.409	-29.580	1.00	83.09	G
ATOM	15677	C	SER	92	226.126	139.035	-36.755	1.00	66.22	GS7	ATOM	15730	C	SER	98	232.875	136.457	-30.795	1.00	57.11	G
ATOM	15678	O	SER	92	226.907	138.551	-35.937	1.00	66.22	GS7	ATOM	15731	O	SER	98	233.840	136.173	-30.078	1.00	57.11	G
ATOM	15679	N	PRO	93	226.381	140.190	-37.386	1.00	53.13	GS7	ATOM	15732	N	LEU	99	232.476	135.718	-31.827	1.00	49.56	G
ATOM	15680	CD	PRO	93	225.427	140.993	-38.164	1.00	59.13	GS7	ATOM	15733	CA	LEU	99	233.156	134.489	-32.212	1.00	49.56	G
ATOM	15681	CA	PRO	93	227.613	140.946	-37.159	1.00	53.13	GS7	ATOM	15734	CB	LEU	99	232.435	133.857	-33.395	1.00	66.24	G
ATOM	15682	CB	PRO	93	227.303	142.318	-37.770	1.00	59.13	GS7	ATOM	15735	CG	LEU	99	231.105	133.220	-33.020	1.00	66.24	G
ATOM	15683	CG	PRO	93	225.812	142.391	-37.751	1.00	59.13	GS7	ATOM	15736	CD1	LEU	99	230.260	132.990	-34.263	1.00	66.24	G
ATOM	15684	C	PRO	93	228.028	141.034	-35.694	1.00	53.13	GS7	ATOM	15737	CD2	LEU	99	231.386	131.922	-32.284	1.00	66.24	G
ATOM	15685	O	PRO	93	229.209	141.191	-35.399	1.00	53.13	GS7	ATOM	15738	C	LEU	99	234.620	134.720	-32.567	1.00	49.56	G
ATOM	15686	N	ARG	94	227.071	140.949	-34.777	1.00	49.37	GS7	ATOM	15739	O	LEU	99	235.501	133.971	-32.140	1.00	49.56	G
ATOM	15687	CA	ARG	94	227.416	140.999	-33.361	1.00	49.37	GS7	ATOM	15740	N	ALA	100	234.870	135.764	-33.349	1.00	49.29	G
ATOM	15688	CB	ARG	94	226.157	141.127	-32.502	1.00	52.65	GS7	ATOM	15741	CA	ALA	100	236.225	136.039	-33.763	1.00	49.29	G
ATOM	15689	CG	ARG	94	226.323	140.589	-31.083	1.00	52.65	GS7	ATOM	15742	CB	ALA	100	236.184	137.317	-34.699	1.00	46.44	G
ATOM	15690	CD	ARG	94	226.713	141.651	-30.096	1.00	52.65	GS7	ATOM	15743	C	ALA	100	237.189	136.359	-32.571	1.00	49.29	G
ATOM	15691	NE	ARG	94	227.406	141.069	-28.947	1.00	52.65	GS7	ATOM	15744	O	ALA	100	238.240	135.702	-32.456	1.00	49.29	G
ATOM	15692	CZ	ARG	94	227.795	141.757	-27.874	1.00	52.65	GS7	ATOM	15745	N	LEU	101	236.835	137.302	-31.693	1.00	50.91	G
ATOM	15693	NH1	ARG	94	227.546	143.061	-27.790	1.00	52.65	GS7	ATOM	15746	CA	LEU	101	237.694	137.609	-30.553	1.00	50.91	G
ATOM	15694	NH2	ARG	94	228.469	141.151	-26.902	1.00	52.65	GS7	ATOM	15747	CB	LEU	101	237.120	138.758	-29.722	1.00	50.06	G
ATOM	15695	C	ARG	94	228.160	139.714	-32.990	1.00	49.37	GS7	ATOM	15748	CG	LEU	101	236.548	139.965	-30.483	1.00	50.06	G
ATOM	15696	O	ARG	94	229.292	139.749	-32.483	1.00	49.37	GS7	ATOM	15749	CD1	LEU	101	236.437	141.170	-29.539	1.00	50.06	G
ATOM	15697	N	ARG	95	227.517	138.579	-33.249	1.00	51.57	GS7	ATOM	15750	CD2	LEU	101	237.433	140.318	-31.664	1.00	50.06	G
ATOM	15698	CA	ARG	95	228.099	137.279	-32.942	1.00	51.57	GS7	ATOM	15751	C	LEU	101	237.888	136.380	-29.665	1.00	50.91	G
ATOM	15699	CB	ARG	95	227.078	136.185	-33.269	1.00	48.57	GS7	ATOM	15752	O	LEU	101	238.991	136.617	-29.167	1.00	50.91	G
ATOM	15700	CG	ARG	95	227.514	134.796	-32.891	1.00	48.57	GS7	ATOM	15753	N	ARG	102	236.826	135.612	-29.464	1.00	53.97	G
ATOM	15701	CD	ARG	95	226.380	133.819	-33.002	1.00	48.57	GS7	ATOM	15754	CA	ARG	102	236.967	134.437	-28.629	1.00	53.97	G
ATOM	15702	NE	ARG	95	226.879	132.466	-32.830	1.00	48.57	GS7	ATOM	15755	CB	ARG	102	235.631	133.721	-28.451	1.00	45.08	G
ATOM	15703	CZ	ARG	95	227.432	132.021	-31.710	1.00	48.57	GS7	ATOM	15756	CG	ARG	102	235.783	132.434	-27.662	1.00	45.08	G
ATOM	15704	NH1	ARG	95	227.545	132.825	-30.654	1.00	48.57	GS7	ATOM	15757	CD	ARG	102	234.462	131.754	-27.426	1.00	45.08	G
ATOM	15705	NH2	ARG	95	227.897	130.779	-31.652	1.00	48.57	GS7	ATOM	15758	NE	ARG	102	233.524	132.676	-26.813	1.00	45.08	G
ATOM	15706	C	ARG	95	229.398	137.064	-33.736	1.00	51.57	GS7	ATOM	15759	CZ	ARG	102	232.293	132.871	-27.261	1.00	45.08	G

ATOM	15760	NH1	ARG	102	231.864	132.194	-28.319	1.00	45.08	GS7	ATOM	15813	CA	ASN	109	246.651	129.962	-26.142	1.00	46.65	G
ATOM	15761	NH2	ARG	102	231.506	133.765	-26.671	1.00	45.08	GS7	ATOM	15814	CB	ASN	109	245.670	130.133	-25.007	1.00	61.89	G
ATOM	15762	C	ARG	102	237.973	133.486	-29.261	1.00	53.97	GS7	ATOM	15815	CG	ASN	109	245.744	131.500	-24.417	1.00	61.89	G
ATOM	15763	O	ARG	102	238.903	133.023	-28.596	1.00	53.97	GS7	ATOM	15816	OD1	ASN	109	246.751	131.863	-23.809	1.00	61.89	G
ATOM	15764	N	TRP	103	237.789	133.203	-30.550	1.00	47.53	GS7	ATOM	15817	ND2	ASN	109	244.693	132.290	-24.610	1.00	61.89	G
ATOM	15765	CA	TRP	103	238.675	132.288	-31.254	1.00	47.53	GS7	ATOM	15818	C	ASN	109	246.826	128.504	-26.466	1.00	46.65	G
ATOM	15766	CB	TRP	103	238.186	132.047	-32.678	1.00	59.18	GS7	ATOM	15819	O	ASN	109	247.062	127.677	-25.575	1.00	46.65	G
ATOM	15767	CG	TRP	103	236.899	131.304	-32.762	1.00	59.18	GS7	ATOM	15820	N	GLN	110	246.709	128.188	-27.748	1.00	57.36	G
ATOM	15768	CD2	TRP	103	235.997	131.282	-33.874	1.00	59.18	GS7	ATOM	15821	CA	GLN	110	246.890	126.825	-28.199	1.00	57.36	G
ATOM	15769	CE2	TRP	103	234.935	130.418	-33.534	1.00	59.18	GS7	ATOM	15822	CB	GLN	110	245.944	126.539	-29.362	1.00	41.57	G
ATOM	15770	CE3	TRP	103	235.985	131.909	-35.128	1.00	59.18	GS7	ATOM	15823	CG	GLN	110	244.875	125.521	-29.030	1.00	41.57	G
ATOM	15771	CD1	TRP	103	236.366	130.478	-31.819	1.00	59.18	GS7	ATOM	15824	CD	GLN	110	245.768	123.153	-28.679	1.00	41.57	G
ATOM	15772	NE1	TRP	103	235.184	129.942	-32.274	1.00	59.18	GS7	ATOM	15825	OE1	GLN	110	246.496	123.939	-29.886	1.00	41.57	G
ATOM	15773	C22	TRP	103	233.869	130.162	-34.399	1.00	59.18	GS7	ATOM	15826	NE2	GLN	110	248.348	126.744	-28.631	1.00	57.36	G
ATOM	15774	C23	TRP	103	234.922	131.653	-35.993	1.00	59.18	GS7	ATOM	15827	C	GLN	110	248.978	125.689	-28.553	1.00	57.36	G
ATOM	15775	CH2	TRP	103	233.878	130.786	-35.622	1.00	59.18	GS7	ATOM	15828	O	GLN	110	248.881	127.893	-29.049	1.00	63.05	G
ATOM	15776	C	TRP	103	240.107	132.789	-31.296	1.00	47.53	GS7	ATOM	15829	N	ARG	111	250.263	128.017	-29.503	1.00	63.05	G
ATOM	15777	O	TRP	103	241.054	132.014	-31.160	1.00	47.53	GS7	ATOM	15830	CA	ARG	111	250.580	129.471	-29.821	1.00	72.33	G
ATOM	15778	N	LEU	104	240.281	134.085	-31.497	1.00	58.58	GS7	ATOM	15831	CB	ARG	111	250.040	129.913	-31.159	1.00	72.33	G
ATOM	15779	CA	LEU	104	241.629	134.603	-31.528	1.00	58.58	GS7	ATOM	15832	CG	ARG	111	249.924	131.422	-31.252	1.00	72.33	G
ATOM	15780	CB	LEU	104	241.613	136.118	-31.705	1.00	47.04	GS7	ATOM	15833	CD	ARG	111	250.168	131.882	-32.613	1.00	72.33	G
ATOM	15781	CG	LEU	104	241.282	136.481	-33.157	1.00	47.04	GS7	ATOM	15834	NE	ARG	111	251.324	131.723	-33.252	1.00	72.33	G
ATOM	15782	CD1	LEU	104	242.255	137.983	-33.363	1.00	47.04	GS7	ATOM	15835	C2	ARG	111	252.349	131.178	-32.662	1.00	72.33	G
ATOM	15783	CD2	LEU	104	242.333	135.836	-34.060	1.00	47.04	GS7	ATOM	15836	NH1	ARG	111	252.349	131.178	-32.662	1.00	72.33	G
ATOM	15784	C	LEU	104	242.323	134.209	-30.239	1.00	58.58	GS7	ATOM	15837	NH2	ARG	111	251.457	132.170	-34.488	1.00	72.33	G
ATOM	15785	O	LEU	104	243.374	133.581	-30.260	1.00	58.58	GS7	ATOM	15838	C	ARG	111	251.270	127.481	-28.506	1.00	63.05	G
ATOM	15786	N	VAL	105	241.715	134.531	-29.109	1.00	47.83	GS7	ATOM	15839	O	ARG	111	250.952	127.249	-27.341	1.00	63.05	G
ATOM	15787	CA	VAL	105	242.334	134.199	-27.838	1.00	47.83	GS7	ATOM	15840	N	PRO	112	252.509	127.266	-28.959	1.00	63.88	G
ATOM	15788	CB	VAL	105	241.521	134.742	-26.664	1.00	36.51	GS7	ATOM	15841	CD	PRO	112	252.859	127.076	-30.379	1.00	32.83	G
ATOM	15789	CG1	VAL	105	242.199	134.350	-25.361	1.00	36.51	GS7	ATOM	15842	CA	PRO	112	253.567	126.745	-28.097	1.00	63.88	G
ATOM	15790	CG2	VAL	105	241.387	136.266	-26.781	1.00	36.51	GS7	ATOM	15843	CB	PRO	112	254.328	125.838	-29.036	1.00	32.83	G
ATOM	15791	C	VAL	105	242.554	132.715	-27.605	1.00	47.83	GS7	ATOM	15844	CG	PRO	112	254.277	126.594	-30.305	1.00	32.83	G
ATOM	15792	O	VAL	105	243.586	132.319	-27.066	1.00	47.83	GS7	ATOM	15845	C	PRO	112	254.488	127.741	-27.382	1.00	63.88	G
ATOM	15793	N	GLN	106	241.586	131.895	-27.999	1.00	50.94	GS7	ATOM	15846	O	PRO	112	255.180	127.354	-26.436	1.00	63.88	G
ATOM	15794	CA	GLN	106	241.638	130.453	-27.798	1.00	50.94	GS7	ATOM	15847	N	GLU	113	255.529	128.998	-27.824	1.00	46.19	G
ATOM	15795	CB	GLN	106	240.355	129.785	-28.083	1.00	96.54	GS7	ATOM	15848	CA	GLU	113	255.382	129.968	-27.154	1.00	46.19	G
ATOM	15796	CG	GLN	106	239.258	130.250	-27.141	1.00	96.54	GS7	ATOM	15849	CB	GLU	113	255.146	131.375	-27.688	1.00	75.33	G
ATOM	15797	CD	GLN	106	237.905	129.643	-27.452	1.00	96.54	GS7	ATOM	15850	CG	GLU	113	255.457	131.519	-29.150	1.00	75.33	G
ATOM	15798	OE1	GLN	106	236.928	129.902	-26.755	1.00	96.54	GS7	ATOM	15851	CD	GLU	113	254.337	131.025	-30.018	1.00	75.33	G
ATOM	15799	NE2	GLN	106	237.840	128.831	-28.503	1.00	96.54	GS7	ATOM	15852	OE1	GLU	113	253.575	131.869	-30.530	1.00	75.33	G
ATOM	15800	C	GLN	106	242.788	129.867	-28.680	1.00	50.94	GS7	ATOM	15853	OE2	GLU	113	254.212	129.797	-30.175	1.00	75.33	G
ATOM	15801	O	GLN	106	243.545	128.994	-28.263	1.00	50.94	GS7	ATOM	15854	C	GLU	113	255.057	129.929	-25.666	1.00	46.19	G
ATOM	15802	N	ALA	107	242.869	130.366	-29.904	1.00	67.12	GS7	ATOM	15855	O	GLU	113	253.897	129.778	-25.285	1.00	53.85	G
ATOM	15803	CA	ALA	107	243.871	129.908	-30.847	1.00	67.12	GS7	ATOM	15856	N	ARG	114	255.911	130.014	-24.828	1.00	53.85	G
ATOM	15804	CB	ALA	107	243.586	130.501	-32.220	1.00	53.59	GS7	ATOM	15857	CA	ARG	114	257.259	129.830	-22.682	1.00	51.86	G
ATOM	15805	C	ALA	107	245.250	130.340	-30.348	1.00	67.12	GS7	ATOM	15858	CB	ARG	114	259.399	128.706	-22.250	1.00	51.86	G
ATOM	15806	O	ALA	107	246.222	129.594	-30.446	1.00	67.12	GS7	ATOM	15859	CG	ARG	114	258.095	128.623	-23.052	1.00	51.86	G
ATOM	15807	N	ALA	108	245.325	131.548	-29.803	1.00	46.76	GS7	ATOM	15860	CD	ARG	114	259.399	128.706	-22.250	1.00	51.86	G
ATOM	15808	CA	ALA	108	246.581	132.075	-29.280	1.00	46.76	GS7	ATOM	15861	NE	ARG	114	260.404	127.689	-22.550	1.00	51.86	G
ATOM	15809	CB	ALA	108	246.374	133.483	-28.749	1.00	46.76	GS7	ATOM	15862	CZ	ARG	114	260.154	126.387	-22.627	1.00	51.86	G
ATOM	15810	C	ALA	108	247.129	131.193	-28.168	1.00	46.76	GS7	ATOM	15863	NH1	ARG	114	258.920	125.930	-22.440	1.00	51.86	G
ATOM	15811	O	ALA	108	248.324	130.890	-28.130	1.00	46.76	GS7	ATOM	15864	NH2	ARG	114	261.141	125.534	-22.857	1.00	51.86	G
ATOM	15812	N	ASN	109	246.244	130.782	-27.265	1.00	46.65	GS7	ATOM	15865	C	ARG	114	255.269	131.282	-22.825	1.00	53.85	G

ATOM	15866	O	ARG	114	254.584	131.227	-21.804	1.00	53.85	GS7	ATOM	15919	N	HIS	122	251.650	136.866	-32.208	1.00	57.93	G
ATOM	15867	N	ARG	115	255.497	132.420	-23.476	1.00	55.89	GS7	ATOM	15920	CA	HIS	122	251.781	135.929	-33.306	1.00	57.93	G
ATOM	15868	CA	ARG	115	254.958	133.682	-22.983	1.00	55.89	GS7	ATOM	15921	CB	HIS	122	252.468	134.654	-32.823	1.00	81.31	G
ATOM	15869	CB	ARG	115	256.018	134.774	-23.101	1.00	51.37	GS7	ATOM	15922	CG	HIS	122	253.951	134.796	-32.685	1.00	81.31	G
ATOM	15870	CG	ARG	115	257.264	134.455	-22.301	1.00	51.37	GS7	ATOM	15923	CD	HIS	122	254.778	135.824	-32.995	1.00	81.31	G
ATOM	15871	CD	ARG	115	258.257	135.600	-22.299	1.00	51.37	GS7	ATOM	15924	NDI	HIS	122	254.756	133.793	-32.189	1.00	81.31	G
ATOM	15872	CE	ARG	115	259.406	136.149	-21.152	1.00	51.37	GS7	ATOM	15925	CEI	HIS	122	256.014	134.198	-32.199	1.00	81.31	G
ATOM	15873	NE	ARG	115	260.378	137.387	-21.634	1.00	51.37	GS7	ATOM	15926	NEZ	HIS	122	256.055	135.427	-32.683	1.00	81.31	G
ATOM	15874	NH1	ARG	115	260.351	137.387	-21.634	1.00	51.37	GS7	ATOM	15927	C	HIS	122	250.423	135.165	-33.998	1.00	57.93	G
ATOM	15875	NH2	ARG	115	261.378	135.770	-20.366	1.00	51.37	GS7	ATOM	15928	O	HIS	122	250.096	136.135	-33.930	1.00	57.93	G
ATOM	15876	C	ARG	115	253.662	134.130	-23.652	1.00	55.89	GS7	ATOM	15929	N	GLU	123	249.635	134.765	-33.260	1.00	51.47	G
ATOM	15877	O	ARG	115	253.588	134.303	-24.873	1.00	55.89	GS7	ATOM	15930	CA	GLU	123	248.311	134.378	-33.748	1.00	51.47	G
ATOM	15878	N	ALA	116	252.638	134.319	-22.825	1.00	64.28	GS7	ATOM	15931	CB	GLU	123	247.406	133.944	-32.582	1.00	52.35	G
ATOM	15879	CA	ALA	116	251.319	134.737	-23.285	1.00	64.28	GS7	ATOM	15932	CG	GLU	123	246.037	133.399	-33.032	1.00	52.35	G
ATOM	15880	CB	ALA	116	250.510	135.265	-22.110	1.00	80.55	GS7	ATOM	15933	CD	GLU	123	246.149	132.123	-33.866	1.00	52.35	G
ATOM	15881	C	ALA	116	251.357	135.778	-24.394	1.00	64.28	GS7	ATOM	15934	OE1	GLU	123	245.263	131.875	-34.716	1.00	52.35	G
ATOM	15882	O	ALA	116	250.846	135.542	-25.491	1.00	64.28	GS7	ATOM	15935	OE2	GLU	123	247.117	131.360	-33.668	1.00	52.35	G
ATOM	15883	N	ALA	117	251.957	136.929	-24.112	1.00	62.49	GS7	ATOM	15936	C	GLU	123	247.636	135.516	-34.518	1.00	51.47	G
ATOM	15884	CA	ALA	117	252.013	137.990	-25.108	1.00	62.49	GS7	ATOM	15937	O	GLU	123	247.045	133.299	-35.583	1.00	51.47	G
ATOM	15885	CB	ALA	117	252.897	139.118	-24.626	1.00	63.66	GS7	ATOM	15938	N	LEU	124	247.719	136.727	-33.977	1.00	54.57	G
ATOM	15886	C	ALA	117	252.490	137.500	-26.471	1.00	62.49	GS7	ATOM	15939	CA	LEU	124	247.116	137.872	-34.640	1.00	54.57	G
ATOM	15887	O	ALA	117	251.843	137.757	-27.489	1.00	62.49	GS7	ATOM	15940	CB	LEU	124	247.358	139.135	-33.819	1.00	43.69	G
ATOM	15888	N	VAL	118	253.614	136.796	-26.504	1.00	64.03	GS7	ATOM	15941	CG	LEU	124	246.549	139.326	-32.544	1.00	43.69	G
ATOM	15889	CA	VAL	118	254.120	136.310	-27.780	1.00	64.03	GS7	ATOM	15942	CD1	LEU	124	247.284	140.239	-31.570	1.00	43.69	G
ATOM	15890	CB	VAL	118	255.305	135.338	-27.603	1.00	48.41	GS7	ATOM	15943	CD2	LEU	124	245.199	139.898	-32.926	1.00	43.69	G
ATOM	15891	CG1	VAL	118	255.764	134.829	-28.969	1.00	48.41	GS7	ATOM	15944	C	LEU	124	247.730	138.035	-37.051	1.00	54.57	G
ATOM	15892	CG2	VAL	118	256.448	136.031	-26.858	1.00	48.41	GS7	ATOM	15945	O	LEU	124	247.034	137.996	-37.021	1.00	54.57	G
ATOM	15893	C	VAL	118	253.023	135.577	-28.545	1.00	64.03	GS7	ATOM	15946	N	MET	125	249.045	138.224	-36.058	1.00	64.17	G
ATOM	15894	O	VAL	118	252.792	135.847	-29.732	1.00	64.03	GS7	ATOM	15947	CA	MET	125	249.752	138.390	-37.315	1.00	73.56	G
ATOM	15895	N	ARG	119	251.348	134.654	-27.860	1.00	52.94	GS7	ATOM	15948	CB	MET	125	251.260	139.414	-37.052	1.00	73.56	G
ATOM	15896	CA	ARG	119	251.282	133.866	-28.474	1.00	52.94	GS7	ATOM	15949	CG	MET	125	251.662	138.495	-36.035	1.00	73.56	G
ATOM	15897	CB	ARG	119	250.628	132.942	-27.442	1.00	56.83	GS7	ATOM	15950	SD	MET	125	253.427	139.602	-35.651	1.00	73.56	G
ATOM	15898	CD	ARG	119	251.553	131.901	-26.853	1.00	56.83	GS7	ATOM	15951	CE	MET	125	253.778	137.892	-35.220	1.00	73.56	G
ATOM	15900	NE	ARG	119	249.947	131.343	-25.058	1.00	56.83	GS7	ATOM	15952	C	MET	125	248.972	137.486	-39.389	1.00	64.17	G
ATOM	15901	CZ	ARG	119	250.383	131.520	-23.810	1.00	56.83	GS7	ATOM	15954	N	ASP	126	249.448	136.015	-37.759	1.00	62.88	G
ATOM	15902	NH1	ARG	119	251.632	131.213	-23.467	1.00	56.83	GS7	ATOM	15955	CA	ASP	126	249.072	134.842	-38.551	1.00	62.88	G
ATOM	15903	NH2	ARG	119	249.564	132.023	-22.900	1.00	56.83	GS7	ATOM	15956	CB	ASP	126	249.122	133.586	-37.682	1.00	94.00	G
ATOM	15904	C	ARG	119	250.202	134.712	-29.127	1.00	52.94	GS7	ATOM	15957	CG	ASP	126	250.495	132.968	-37.639	1.00	94.00	G
ATOM	15905	O	ARG	119	249.685	134.351	-30.182	1.00	52.94	GS7	ATOM	15958	OD1	ASP	126	250.856	132.264	-38.601	1.00	94.00	G
ATOM	15906	N	ILE	120	249.859	135.833	-28.504	1.00	49.24	GS7	ATOM	15959	OD2	ASP	126	251.221	133.192	-36.652	1.00	94.00	G
ATOM	15907	CA	ILE	120	248.817	136.692	-29.046	1.00	49.24	GS7	ATOM	15960	C	ASP	126	247.664	134.991	-39.131	1.00	62.88	G
ATOM	15908	CB	ILE	120	248.258	137.604	-29.953	1.00	55.24	GS7	ATOM	15961	O	ASP	127	247.385	134.556	-40.256	1.00	62.88	G
ATOM	15909	CG2	ILE	120	247.236	138.575	-28.528	1.00	55.24	GS7	ATOM	15962	N	ALA	127	246.781	135.599	-38.342	1.00	66.08	G
ATOM	15910	CG1	ILE	120	247.611	136.739	-26.878	1.00	55.24	GS7	ATOM	15963	CA	ALA	127	245.399	135.817	-38.741	1.00	66.08	G
ATOM	15911	CD1	ILE	120	247.177	137.509	-25.665	1.00	55.24	GS7	ATOM	15964	CB	ALA	127	244.595	136.333	-37.567	1.00	83.32	G
ATOM	15912	C	ILE	120	249.279	137.527	-30.238	1.00	49.24	GS7	ATOM	15965	C	ALA	127	245.366	136.821	-39.866	1.00	66.08	G
ATOM	15913	O	ILE	120	248.584	137.605	-31.265	1.00	49.24	GS7	ATOM	15966	O	ALA	127	244.634	136.652	-40.837	1.00	66.08	G
ATOM	15914	N	ALA	121	250.449	138.147	-30.104	1.00	65.86	GS7	ATOM	15967	N	ALA	128	246.154	137.879	-39.724	1.00	64.47	G
ATOM	15915	CA	ALA	121	251.009	138.958	-31.180	1.00	65.86	GS7	ATOM	15968	CA	ALA	128	246.220	138.899	-40.757	1.00	64.47	G
ATOM	15916	CB	ALA	121	252.377	139.482	-30.778	1.00	74.80	GS7	ATOM	15969	CB	ALA	128	247.213	139.991	-40.357	1.00	59.06	G
ATOM	15917	C	ALA	121	251.125	138.067	-32.410	1.00	65.86	GS7	ATOM	15970	C	ALA	128	246.666	138.206	-42.046	1.00	64.47	G
ATOM	15918	O	ALA	121	250.742	138.450	-33.514	1.00	65.86	GS7	ATOM	15971	O	ALA	128	246.099	138.430	-43.119	1.00	64.47	G

ATOM	15972	N	GLU	129	247.677	137.351	-41.923	1.00	67.80	GS7	ATOM	16025	CB	LYS	137	238.196	128.063	-35.517	1.00	70.62	G
ATOM	15973	CA	GLU	129	248.192	136.614	-43.065	1.00	67.80	GS7	ATOM	16026	CG	LYS	137	236.882	127.981	-34.761	1.00	70.62	G
ATOM	15974	CB	GLU	129	249.477	135.860	-42.683	1.00124.29		GS7	ATOM	16027	CD	LYS	137	236.470	126.530	-34.543	1.00	70.62	G
ATOM	15975	CG	GLU	129	250.665	136.769	-42.327	1.00124.29		GS7	ATOM	16028	CE	LYS	137	235.175	126.416	-33.749	1.00	70.62	G
ATOM	15976	CD	GLU	129	251.969	136.004	-42.052	1.00124.29		GS7	ATOM	16029	NZ	LYS	137	234.709	125.005	-33.622	1.00	70.62	G
ATOM	15977	OE1	GLU	129	252.029	135.210	-41.084	1.00124.29		GS7	ATOM	16030	C	LYS	137	237.191	128.179	-37.802	1.00	49.19	G
ATOM	15978	OE2	GLU	129	252.944	136.205	-42.809	1.00124.29		GS7	ATOM	16031	O	LYS	137	236.233	127.605	-38.327	1.00	49.19	G
ATOM	15979	C	GLU	129	247.130	135.634	-43.573	1.00	67.80	GS7	ATOM	16032	N	LYS	138	237.439	129.470	-37.980	1.00	50.27	G
ATOM	15980	O	GLU	129	247.033	135.385	-44.772	1.00	67.80	GS7	ATOM	16033	CA	LYS	138	236.568	130.278	-38.815	1.00	50.27	G
ATOM	15981	N	GLY	130	246.329	135.093	-42.660	1.00	52.97	GS7	ATOM	16034	CB	LYS	138	237.289	131.553	-39.255	1.00	57.74	G
ATOM	15982	CA	GLY	130	245.292	134.152	-43.045	1.00	52.97	GS7	ATOM	16035	CG	LYS	138	236.461	132.479	-40.141	1.00	57.74	G
ATOM	15983	C	GLY	130	245.645	132.723	-42.659	1.00	52.97	GS7	ATOM	16036	CD	LYS	138	236.558	132.128	-41.615	1.00	57.74	G
ATOM	15984	O	GLY	130	245.599	131.805	-43.491	1.00	52.97	GS7	ATOM	16037	CE	LYS	138	236.144	133.336	-42.459	1.00	57.74	G
ATOM	15985	N	LYS	131	245.994	132.524	-41.394	1.00	68.01	GS7	ATOM	16038	NZ	LYS	138	236.229	133.135	-43.943	1.00	57.74	G
ATOM	15986	CA	LYS	131	246.358	131.198	-40.927	1.00	68.01	GS7	ATOM	16039	C	LYS	138	236.175	129.457	-40.029	1.00	50.27	G
ATOM	15987	CB	LYS	131	247.688	130.793	-41.550	1.00	72.91	GS7	ATOM	16040	O	LYS	138	237.158	129.064	-40.177	1.00	50.27	G
ATOM	15988	CG	LYS	131	248.731	131.875	-41.456	1.00	72.91	GS7	ATOM	16041	N	GLU	139	237.937	128.404	-42.871	1.00	87.24	G
ATOM	15989	CD	LYS	131	249.902	131.578	-42.369	1.00	72.91	GS7	ATOM	16042	CA	GLU	139	238.255	128.281	-42.853	1.00	87.24	G
ATOM	15990	CE	LYS	131	250.903	132.720	-42.356	1.00	72.91	GS7	ATOM	16043	CB	GLU	139	238.939	129.627	-43.026	1.00	105.04	G
ATOM	15991	NZ	LYS	131	251.942	132.563	-43.408	1.00	72.91	GS7	ATOM	16044	CG	GLU	139	239.906	129.662	-44.189	1.00	105.04	G
ATOM	15992	C	LYS	131	246.451	131.139	-39.411	1.00	68.01	GS7	ATOM	16045	OE1	GLU	139	240.911	128.918	-44.157	1.00	105.04	G
ATOM	15993	O	LYS	131	246.698	132.147	-38.752	1.00	68.01	GS7	ATOM	16046	OE2	GLU	139	239.649	130.440	-45.136	1.00	87.24	G
ATOM	15994	N	GLY	132	246.264	129.944	-38.866	1.00	92.67	GS7	ATOM	16047	C	GLU	139	236.325	127.028	-41.863	1.00	87.24	G
ATOM	15995	CA	GLY	132	246.310	129.768	-37.430	1.00	92.67	GS7	ATOM	16048	C	GLU	139	236.325	127.028	-41.863	1.00	87.24	G
ATOM	15996	C	GLY	132	244.992	129.178	-36.985	1.00	92.67	GS7	ATOM	16049	O	GLU	139	235.491	126.579	-42.652	1.00	87.24	G
ATOM	15997	O	GLY	132	244.010	129.233	-37.728	1.00	92.67	GS7	ATOM	16050	N	ASP	140	236.735	126.363	-40.788	1.00	68.43	G
ATOM	15998	N	GLY	133	244.964	128.612	-35.783	1.00	75.31	GS7	ATOM	16051	CA	ASP	140	236.206	125.039	-40.476	1.00	68.43	G
ATOM	15999	CA	GLY	133	243.741	128.010	-35.275	1.00	75.31	GS7	ATOM	16052	CB	ASP	140	236.799	124.514	-39.168	1.00	101.40.33	G
ATOM	16000	C	GLY	133	242.529	128.888	-35.502	1.00	75.31	GS7	ATOM	16053	OD1	ASP	140	236.636	123.017	-39.018	1.00	101.40.33	G
ATOM	16001	O	GLY	133	241.469	128.409	-35.903	1.00	75.31	GS7	ATOM	16054	OD2	ASP	140	237.364	122.280	-39.716	1.00	101.40.33	G
ATOM	16002	N	ALA	134	242.697	130.181	-35.241	1.00	56.40	GS7	ATOM	16055	C	ASP	140	235.781	122.582	-38.214	1.00	101.40.33	G
ATOM	16003	CA	ALA	134	241.629	131.151	-35.423	1.00	56.40	GS7	ATOM	16056	C	ASP	140	234.695	125.171	-40.330	1.00	68.43	G
ATOM	16004	CB	ALA	134	242.187	132.560	-35.334	1.00	52.94	GS7	ATOM	16057	O	ASP	140	233.925	124.364	-40.854	1.00	68.43	G
ATOM	16005	C	ALA	134	240.994	130.933	-36.784	1.00	56.40	GS7	ATOM	16058	N	VAL	141	234.289	126.202	-39.601	1.00	64.75	G
ATOM	16006	O	ALA	134	239.823	130.570	-36.884	1.00	56.40	GS7	ATOM	16059	CA	VAL	141	232.885	126.489	-39.384	1.00	64.75	G
ATOM	16007	N	VAL	135	241.785	131.145	-37.833	1.00	64.74	GS7	ATOM	16060	CB	VAL	141	232.721	127.759	-38.551	1.00	39.15	G
ATOM	16008	CA	VAL	135	241.311	130.984	-39.203	1.00	64.74	GS7	ATOM	16061	CG1	VAL	141	231.323	128.336	-38.741	1.00	39.15	G
ATOM	16009	CB	VAL	135	242.424	131.307	-40.198	1.00	97.45	GS7	ATOM	16062	CG2	VAL	141	232.996	127.440	-37.090	1.00	39.15	G
ATOM	16010	CG1	VAL	135	241.833	131.506	-41.579	1.00	97.45	GS7	ATOM	16063	C	VAL	141	232.208	126.683	-40.728	1.00	64.75	G
ATOM	16011	CG2	VAL	135	243.175	132.544	-39.741	1.00	97.45	GS7	ATOM	16064	O	VAL	141	231.396	125.862	-41.135	1.00	64.75	G
ATOM	16012	C	VAL	135	240.781	129.577	-39.484	1.00	64.74	GS7	ATOM	16065	N	GLU	142	232.542	127.771	-41.412	1.00	56.15	G
ATOM	16013	O	VAL	135	239.707	129.431	-40.070	1.00	64.74	GS7	ATOM	16066	CA	GLU	142	231.966	128.049	-42.718	1.00	56.15	G
ATOM	16014	N	LYS	136	241.533	128.550	-39.076	1.00	61.01	GS7	ATOM	16067	CB	GLU	142	232.778	129.134	-43.429	1.00	77.14	G
ATOM	16015	CA	LYS	136	242.105	127.165	-39.278	1.00	61.01	GS7	ATOM	16068	CG	GLU	142	232.760	130.476	-42.719	1.00	77.14	G
ATOM	16016	CB	LYS	136	242.011	126.188	-38.528	1.00	117.55	GS7	ATOM	16069	CD	GLU	142	233.426	131.582	-43.516	1.00	77.14	G
ATOM	16017	CG	LYS	136	243.425	126.105	-39.067	1.00	117.55	GS7	ATOM	16070	OE1	GLU	142	233.339	132.752	-43.093	1.00	77.14	G
ATOM	16018	CD	LYS	136	244.318	125.268	-38.147	1.00	117.55	GS7	ATOM	16071	OE2	GLU	142	234.038	131.289	-44.564	1.00	77.14	G
ATOM	16019	CE	LYS	136	245.792	125.342	-38.557	1.00	117.55	GS7	ATOM	16072	C	GLU	142	231.922	126.768	-43.559	1.00	56.15	G
ATOM	16020	NZ	LYS	136	246.705	124.728	-37.544	1.00	117.55	GS7	ATOM	16073	O	GLU	142	230.887	126.443	-44.176	1.00	56.15	G
ATOM	16021	C	LYS	136	239.685	127.031	-38.749	1.00	61.01	GS7	ATOM	16074	N	ARG	143	233.053	126.034	-43.616	1.00	60.01	G
ATOM	16022	O	LYS	136	238.799	126.541	-39.442	1.00	61.01	GS7	ATOM	16075	CA	ARG	143	233.053	124.797	-44.385	1.00	60.01	G
ATOM	16023	N	LYS	137	239.475	127.479	-37.517	1.00	49.19	GS7	ATOM	16076	CB	ARG	143	234.381	124.073	-44.193	1.00	41.65	G
ATOM	16024	CA	LYS	137	238.163	127.423	-36.906	1.00	49.19	GS7	ATOM	16077	CG	ARG	143	234.575	122.890	-45.117	1.00	41.65	G

ATOM	16078	CD	ARG	143	236.037	122.455	-45.151	1.00141.65	GS7	ATOM	16131	N	ALA	150	225.236	122.570	-45.248	1.00108.92	GS
ATOM	16079	NE	ARG	143	236.582	122.181	-43.821	1.00141.65	GS7	ATOM	16132	CA	ALA	150	224.825	123.653	-46.134	1.00108.92	GS
ATOM	16080	CZ	ARG	143	236.100	121.269	-42.980	1.00141.65	GS7	ATOM	16133	CB	ALA	150	225.943	124.074	-47.007	1.00105.70	GS
ATOM	16081	NH1	ARG	143	235.051	120.528	-43.319	1.00141.65	GS7	ATOM	16134	C	ALA	150	223.693	123.223	-47.011	1.00108.92	GS
ATOM	16082	NH2	ARG	143	236.671	121.095	-41.796	1.00141.65	GS7	ATOM	16135	O	ALA	150	223.684	122.105	-47.524	1.00108.92	GS
ATOM	16083	C	ARG	143	231.892	123.953	-43.859	1.0060.01	GS7	ATOM	16136	N	TYR	151	222.743	124.128	-47.198	1.00115.98	GS
ATOM	16084	O	ARG	143	230.986	123.585	-44.598	1.0060.01	GS7	ATOM	16137	CA	TYR	151	221.606	123.840	-48.042	1.00115.98	GS
ATOM	16085	N	MET	144	231.912	123.690	-42.559	1.0069.16	GS7	ATOM	16138	CB	TYR	151	222.051	124.924	-49.497	1.00143.09	GS
ATOM	16086	CA	MET	144	230.866	122.914	-41.897	1.0069.16	GS7	ATOM	16139	CG	TYR	151	223.097	124.998	-49.717	1.00143.09	GS
ATOM	16087	CB	MET	144	231.018	123.046	-40.379	1.00125.33	GS7	ATOM	16140	CD1	TYR	151	222.764	126.353	-49.660	1.00143.09	GS
ATOM	16088	CG	MET	144	231.035	121.732	-39.638	1.00125.33	GS7	ATOM	16141	CE1	TYR	151	223.740	127.342	-49.804	1.00143.09	GS
ATOM	16089	SD	MET	144	229.545	120.768	-39.934	1.00125.33	GS7	ATOM	16142	CD2	TYR	151	224.431	124.658	-49.927	1.00143.09	GS
ATOM	16090	CE	MET	144	228.677	120.998	-38.370	1.00125.33	GS7	ATOM	16143	CE2	TYR	151	225.412	125.635	-50.072	1.00143.09	GS
ATOM	16091	C	MET	144	229.485	123.415	-42.312	1.0069.16	GS7	ATOM	16144	CZ	TYR	151	225.063	126.973	-50.009	1.00143.09	GS
ATOM	16092	O	MET	144	228.561	122.631	-42.520	1.0069.16	GS7	ATOM	16145	OH	TYR	151	226.042	127.935	-50.146	1.00143.09	GS
ATOM	16093	N	ALA	145	229.351	124.731	-42.438	1.0062.04	GS7	ATOM	16146	C	TYR	151	221.147	122.437	-47.684	1.00115.98	GS
ATOM	16094	CA	ALA	145	228.075	125.723	-42.810	1.0062.04	GS7	ATOM	16147	O	TYR	151	220.252	121.864	-46.692	1.00115.98	GS
ATOM	16095	CB	ALA	145	228.009	126.783	-42.360	1.0062.04	GS7	ATOM	16148	N	ALA	152	219.760	120.540	-48.161	1.00115.06	GS
ATOM	16096	C	ALA	145	227.814	125.222	-44.299	1.0062.04	GS7	ATOM	16149	CA	ALA	152	220.916	119.530	-48.154	1.0050.49	GS
ATOM	16097	O	ALA	145	227.205	124.264	-44.738	1.0062.04	GS7	ATOM	16150	CB	ALA	152	219.137	120.636	-46.772	1.00115.06	GS
ATOM	16098	N	GLU	146	228.287	126.206	-45.062	1.00130.16	GS7	ATOM	16151	C	ALA	152	218.459	119.720	-46.323	1.00115.06	GS
ATOM	16099	CA	GLU	146	228.092	126.252	-46.512	1.00130.16	GS7	ATOM	16152	O	ALA	152	219.384	121.759	-46.103	1.0083.33	GS
ATOM	16100	CB	GLU	146	228.835	127.448	-47.110	1.00180.53	GS7	ATOM	16153	N	HIS	153	218.878	122.024	-44.766	1.0083.33	GS
ATOM	16101	CD	GLU	146	228.294	128.797	-46.670	1.00180.53	GS7	ATOM	16154	CA	HIS	153	219.842	121.463	-43.713	1.0087.87	GS
ATOM	16102	CG	GLU	146	228.881	129.948	-47.467	1.00180.53	GS7	ATOM	16155	CB	HIS	153	220.025	119.978	-43.797	1.0087.87	GS
ATOM	16103	OE1	GLU	146	228.533	131.110	-47.172	1.00180.53	GS7	ATOM	16156	CG	HIS	153	221.143	119.216	-43.880	1.0087.87	GS
ATOM	16104	OE2	GLU	146	229.685	129.690	-48.390	1.00180.53	GS7	ATOM	16157	CD2	HIS	153	218.963	119.098	-43.824	1.0087.87	GS
ATOM	16105	C	GLU	146	228.485	124.985	-47.275	1.00130.16	GS7	ATOM	16158	ND1	HIS	153	219.718	117.860	-43.924	1.0087.87	GS
ATOM	16106	O	GLU	146	228.590	124.998	-48.506	1.00130.16	GS7	ATOM	16159	CE1	HIS	153	218.710	123.534	-44.610	1.0083.33	GS
ATOM	16107	N	ALA	147	229.027	122.612	-47.147	1.0062.39	GS7	ATOM	16160	NE2	HIS	153	217.606	124.027	-45.154	1.00137.64	GS
ATOM	16108	CA	ALA	147	230.522	122.315	-46.960	1.00127.55	GS7	ATOM	16161	C	HIS	153	217.219	125.435	-45.131	1.00102.54	GS
ATOM	16109	CB	ALA	147	228.194	121.503	-46.534	1.0062.39	GS7	ATOM	16162	O	HIS	153	215.556	124.221	-44.050	1.0083.33	GS
ATOM	16110	C	ALA	147	226.986	121.460	-46.739	1.0062.39	GS7	ATOM	16163	N	TYR	154	214.148	124.521	-45.981	1.00102.54	GS
ATOM	16111	O	ALA	147	228.842	120.613	-45.786	1.00106.35	GS7	ATOM	16164	CA	TYR	154	213.349	123.380	-46.079	1.00102.54	GS
ATOM	16112	N	ASN	148	228.150	119.492	-45.165	1.00106.35	GS7	ATOM	16165	CB	TYR	154	215.399	124.569	-46.595	1.00102.54	GS
ATOM	16113	CA	ASN	148	228.748	119.164	-43.787	1.00185.40	GS7	ATOM	16166	CG	TYR	154	214.148	124.521	-45.981	1.00102.54	GS
ATOM	16114	CB	ASN	148	230.026	118.335	-43.876	1.00185.40	GS7	ATOM	16167	CD1	TYR	154	213.349	123.380	-46.079	1.00102.54	GS
ATOM	16115	CG	ASN	148	230.067	117.300	-44.546	1.00185.40	GS7	ATOM	16168	CE1	TYR	154	215.819	123.451	-47.322	1.00102.54	GS
ATOM	16116	OD1	ASN	148	231.071	118.783	-43.186	1.00185.40	GS7	ATOM	16169	CD2	TYR	154	213.804	122.280	-46.802	1.00102.54	GS
ATOM	16117	ND2	ASN	148	226.660	119.753	-45.020	1.00106.35	GS7	ATOM	16170	CE2	TYR	154	213.046	122.136	-46.912	1.00102.54	GS
ATOM	16118	C	ASN	148	226.867	119.390	-45.886	1.00106.35	GS7	ATOM	16171	CZ	TYR	154	216.388	125.628	-43.870	1.00137.64	GS
ATOM	16119	O	ASN	148	224.889	120.742	-43.679	1.0072.85	GS7	ATOM	16172	OH	TYR	154	215.583	124.609	-43.570	1.0089.95	GS
ATOM	16120	N	ARG	149	225.410	120.147	-41.264	1.00136.13	GS7	ATOM	16173	O	TYR	154	214.698	124.571	-42.405	1.0089.95	GS
ATOM	16121	CA	ARG	149	225.272	118.710	-41.734	1.00136.13	GS7	ATOM	16174	C	TYR	154	214.958	123.300	-41.588	1.0089.95	GS
ATOM	16122	CB	ARG	149	225.755	117.756	-40.739	1.00136.13	GS7	ATOM	16175	N	ARG	155	214.936	122.021	-42.394	1.0099.49	GS
ATOM	16123	CD	ARG	149	225.075	117.397	-39.650	1.00136.13	GS7	ATOM	16176	CA	ARG	155	215.240	120.840	-41.504	1.0099.49	GS
ATOM	16124	NE	ARG	149	223.872	117.910	-39.415	1.00136.13	GS7	ATOM	16177	CB	ARG	155	213.602	119.483	-43.353	1.0099.49	GS
ATOM	16125	NH1	ARG	149	224.343	121.853	-44.575	1.00136.13	GS7	ATOM	16178	CG	ARG	155	215.278	117.976	-43.793	1.0099.49	GS
ATOM	16126	CZ	ARG	149	223.134	122.050	-44.659	1.0072.85	GS7	ATOM	16179	CD	ARG	155					GS
ATOM	16127	NH2	ARG	149					GS7	ATOM	16180	NE	ARG	155					GS
ATOM	16128	OH	ARG	149					GS7	ATOM	16181	CZ	ARG	155					GS
ATOM	16129	C	ARG	149					GS7	ATOM	16182	NH1	ARG	155					GS
ATOM	16130	O	ARG	149					GS7	ATOM	16183	NH2	ARG	155					GS

ATOM	16184	C	ARG	155	214.846	125.776	-41.489	1.00	89.95	GS7	ATOM	16237	N	ALA	15	219.739	124.126	-79.666	1.00	82.76	KI
ATOM	16185	O	ARG	155	215.480	125.692	-40.433	1.00	89.95	GS7	ATOM	16238	CA	ALA	15	219.481	125.564	-79.493	1.00	82.76	KI
ATOM	16186	N	TRP	156	214.260	126.893	-41.904	1.00175.22		GS7	ATOM	16239	CB	ALA	15	219.254	126.249	-80.844	1.00	52.34	KI
ATOM	16187	CA	TRP	156	214.310	128.121	-41.129	1.00175.22		GS7	ATOM	16240	C	ALA	15	218.295	126.831	-78.572	1.00	82.76	KI
ATOM	16188	CB	TRP	156	215.661	128.823	-41.310	1.00161.08		GS7	ATOM	16241	O	ALA	15	218.479	126.235	-77.426	1.00	82.76	KI
ATOM	16189	CG	TRP	156	215.972	129.799	-40.210	1.00161.08		GS7	ATOM	16242	N	SER	16	217.080	125.629	-79.080	1.00100.03		KI
ATOM	16190	CD2	TRP	156	216.086	129.504	-38.809	1.00161.08		GS7	ATOM	16243	CA	SER	16	215.877	125.823	-78.274	1.00100.03		KI
ATOM	16191	CE2	TRP	156	216.383	130.716	-38.149	1.00161.08		GS7	ATOM	16244	CB	SER	16	214.720	126.320	-79.139	1.00106.33		KI
ATOM	16192	CE3	TRP	156	215.966	128.330	-38.048	1.00161.08		GS7	ATOM	16245	OG	SER	16	214.301	125.315	-80.046	1.00106.33		KI
ATOM	16193	CD1	TRP	156	216.199	131.141	-40.338	1.00161.08		GS7	ATOM	16246	C	SER	16	215.537	124.452	-77.697	1.00100.03		KI
ATOM	16194	NE1	TRP	156	216.446	131.698	-39.104	1.00161.08		GS7	ATOM	16247	O	SER	16	216.174	123.458	-78.045	1.00100.03		KI
ATOM	16195	C22	TRP	156	216.564	130.789	-36.762	1.00161.08		GS7	ATOM	16248	N	GLY	17	214.541	124.386	-76.822	1.00	76.91	KI
ATOM	16196	C23	TRP	156	216.146	128.405	-36.670	1.00161.08		GS7	ATOM	16249	CA	GLY	17	214.188	123.100	-76.248	1.00	76.91	KI
ATOM	16197	CH2	TRP	156	216.441	129.627	-36.043	1.00161.08		GS7	ATOM	16250	C	GLY	17	213.144	123.116	-75.148	1.00	76.91	KI
ATOM	16198	C	TRP	156	213.187	129.033	-41.604	1.00175.22		GS7	ATOM	16251	O	GLY	17	212.540	124.151	-74.856	1.00	76.91	KI
ATOM	16199	O	TRP	156	212.423	128.597	-42.494	1.00175.22		GS7	ATOM	16252	N	ARG	18	212.951	121.955	-74.526	1.00	64.53	KI
ATOM	16200	OXT	TRP	156	213.081	130.164	-41.082	1.00161.08		GS7	ATOM	16253	CA	ARG	18	211.966	121.785	-73.462	1.00	64.53	KI
ATOM	16201	CB	LYS	11	225.709	112.844	-82.356	1.00148.51		KS11	ATOM	16254	CB	ARG	18	210.988	120.682	-73.723	1.00	80.56	KI
ATOM	16202	CG	LYS	11	225.557	112.142	-81.008	1.00148.51		KS11	ATOM	16255	CG	ARG	18	209.550	121.085	-73.723	1.00	80.56	KI
ATOM	16203	CD	LYS	11	226.680	111.141	-80.761	1.00148.51		KS11	ATOM	16256	CD	ARG	18	208.854	121.162	-75.068	1.00	80.56	KI
ATOM	16204	CE	LYS	11	226.481	110.417	-79.431	1.00148.51		KS11	ATOM	16257	NE	ARG	18	207.501	119.743	-76.547	1.00	80.56	KI
ATOM	16205	NZ	LYS	11	227.394	109.241	-79.264	1.00148.51		KS11	ATOM	16258	CZ	ARG	18	207.200	120.801	-77.286	1.00	80.56	KI
ATOM	16206	C	LYS	11	224.713	114.732	-81.747	1.00130.93		KS11	ATOM	16259	NH1	ARG	18	207.004	118.556	-76.866	1.00	80.56	KI
ATOM	16207	O	LYS	11	224.819	114.400	-80.614	1.00130.93		KS11	ATOM	16260	NH2	ARG	18	212.594	121.431	-72.103	1.00	64.53	KI
ATOM	16208	N	LYS	11	224.756	114.289	-84.136	1.00130.93		KS11	ATOM	16261	C	ARG	18	213.516	120.614	-72.033	1.00	64.53	KI
ATOM	16209	CA	LYS	11	224.492	113.675	-82.802	1.00130.93		KS11	ATOM	16262	O	ARG	18	212.087	122.050	-71.043	1.00	70.71	KI
ATOM	16210	N	ARG	12	224.290	116.005	-82.120	1.00	78.55	KS11	ATOM	16263	N	ALA	19	212.578	121.790	-69.688	1.00	70.71	KI
ATOM	16211	CA	ARG	12	224.030	117.088	-81.176	1.00	78.55	KS11	ATOM	16264	CA	ALA	19	213.079	123.073	-69.055	1.00	57.68	KI
ATOM	16212	CB	ARG	12	225.274	117.322	-80.308	1.00158.50		KS11	ATOM	16265	CB	ALA	19	211.458	121.199	-68.838	1.00	70.71	KI
ATOM	16213	CG	ARG	12	225.963	116.042	-79.848	1.00158.50		KS11	ATOM	16266	C	ALA	19	210.553	121.912	-68.411	1.00	70.71	KI
ATOM	16214	CD	ARG	12	227.041	116.307	-78.826	1.00158.50		KS11	ATOM	16267	O	ALA	19	211.516	119.892	-68.608	1.00	55.54	KI
ATOM	16215	NE	ARG	12	226.480	116.762	-77.557	1.00158.50		KS11	ATOM	16268	N	TYR	20	210.508	119.206	-67.812	1.00	55.54	KI
ATOM	16216	CZ	ARG	12	226.651	117.982	-77.054	1.00158.50		KS11	ATOM	16269	CA	TYR	20	209.311	117.861	-69.629	1.00	70.32	KI
ATOM	16217	NH1	ARG	12	227.368	118.887	-77.711	1.00158.50		KS11	ATOM	16270	CB	TYR	20	209.860	117.927	-70.903	1.00	70.32	KI
ATOM	16218	NH2	ARG	12	226.114	118.294	-75.885	1.00158.50		KS11	ATOM	16271	CG	TYR	20	207.928	117.795	-69.514	1.00	70.32	KI
ATOM	16219	C	ARG	12	223.607	118.414	-81.816	1.00	78.55	KS11	ATOM	16272	CD1	TYR	20	207.116	117.790	-72.038	1.00	70.32	KI
ATOM	16220	O	ARG	12	223.275	118.477	-82.999	1.00	78.55	KS11	ATOM	16273	CE1	TYR	20	207.928	117.795	-69.514	1.00	70.32	KI
ATOM	16221	N	GLN	13	223.627	119.466	-80.997	1.00116.55		KS11	ATOM	16274	CD2	TYR	20	207.687	117.852	-71.897	1.00	70.32	KI
ATOM	16222	CA	GLN	13	223.266	120.823	-81.401	1.00116.55		KS11	ATOM	16275	CE2	TYR	20	206.883	117.843	-73.012	1.00	70.32	KI
ATOM	16223	CB	GLN	13	224.026	121.217	-82.666	1.00124.44		KS11	ATOM	16276	CZ	TYR	20	210.941	119.012	-66.365	1.00	55.54	KI
ATOM	16224	CG	GLN	13	225.530	121.089	-82.498	1.00124.44		KS11	ATOM	16277	OH	TYR	20	211.881	118.256	-66.073	1.00	55.54	KI
ATOM	16225	CD	GLN	13	226.035	121.786	-81.244	1.00124.44		KS11	ATOM	16278	C	TYR	20	210.253	119.697	-65.457	1.00	61.13	KI
ATOM	16226	OE1	GLN	13	226.480	120.998	-80.268	1.00124.44		KS11	ATOM	16279	O	TYR	21	210.548	119.576	-64.040	1.00	61.13	KI
ATOM	16227	NE2	GLN	13	221.770	120.998	-81.604	1.00116.55		KS11	ATOM	16280	N	ILE	21	210.553	120.928	-63.342	1.00	47.92	KI
ATOM	16228	C	GLN	13	221.202	120.503	-82.574	1.00116.55		KS11	ATOM	16281	CA	ILE	21	210.618	120.731	-61.843	1.00	47.92	KI
ATOM	16229	O	GLN	13	221.141	121.715	-80.678	1.00130.94		KS11	ATOM	16282	CB	ILE	21	211.760	121.738	-63.798	1.00	47.92	KI
ATOM	16230	N	VAL	14	219.707	121.949	-80.733	1.00	87.38	KS11	ATOM	16283	CG2	ILE	21	211.796	123.124	-63.197	1.00	47.92	KI
ATOM	16231	CB	VAL	14	217.508	121.515	-79.639	1.00	87.38	KS11	ATOM	16284	CG1	ILE	21	209.487	119.707	-63.400	1.00	61.13	KI
ATOM	16232	CB	VAL	14	219.304	119.776	-79.573	1.00	87.38	KS11	ATOM	16285	CD1	ILE	21	209.305	119.043	-63.389	1.00	61.13	KI
ATOM	16233	CG1	VAL	14	219.341	123.426	-80.726	1.00130.94		KS11	ATOM	16286	O	ILE	21	209.932	117.578	-62.875	1.00	39.86	KI
ATOM	16234	CG2	VAL	14	218.700	123.906	-81.658	1.00130.94		KS11	ATOM	16287	C	ILE	22	209.067	116.609	-62.223	1.00	39.86	KI
ATOM	16235	C	VAL	14							ATOM	16288	N	HIS	22						KI
ATOM	16236	O	VAL	14							ATOM	16289	CA	HIS	22						KI

ATOM	16290	CB	HIS	22	209.465	115.203	-62.668	1.00	60.22	KS11	ATOM	16343	O	THR	28	211.621	114.852	-55.969	1.00	49.15	KI
ATOM	16291	CG	HIS	22	208.661	113.110	-62.039	1.00	60.22	KS11	ATOM	16344	N	ILE	29	213.217	115.296	-57.525	1.00	77.27	KI
ATOM	16292	CD2	HIS	22	208.847	113.413	-60.893	1.00	60.22	KS11	ATOM	16345	CA	ILE	29	212.493	116.162	-58.407	1.00	77.27	KI
ATOM	16293	ND1	HIS	22	207.521	113.599	-62.620	1.00	60.22	KS11	ATOM	16346	CB	ILE	29	212.538	117.599	-57.867	1.00	58.99	KI
ATOM	16294	CE1	HIS	22	207.040	112.630	-61.860	1.00	60.22	KS11	ATOM	16347	CG2	ILE	29	213.581	117.710	-56.758	1.00	58.99	KI
ATOM	16295	NE2	HIS	22	207.827	112.497	-60.807	1.00	60.22	KS11	ATOM	16348	CG1	ILE	29	212.839	116.573	-58.993	1.00	58.99	KI
ATOM	16296	C	HIS	22	209.296	116.751	-60.731	1.00	39.86	KS11	ATOM	16349	CD1	ILE	29	213.146	119.970	-58.502	1.00	58.99	KI
ATOM	16297	O	HIS	22	210.026	115.963	-60.132	1.00	39.86	KS11	ATOM	16350	C	ILE	29	213.421	115.964	-59.601	1.00	77.27	KI
ATOM	16298	N	ALA	23	208.697	117.774	-60.136	1.00	60.15	KS11	ATOM	16351	O	ILE	29	214.569	116.386	-59.572	1.00	77.27	KI
ATOM	16299	CA	ALA	23	208.841	118.002	-58.710	1.00	60.15	KS11	ATOM	16352	N	VAL	30	212.939	115.264	-60.619	1.00	47.26	KI
ATOM	16300	CB	ALA	23	208.406	119.401	-58.375	1.00	48.23	KS11	ATOM	16353	CA	VAL	30	213.739	114.963	-61.800	1.00	47.26	KI
ATOM	16301	C	ALA	23	207.986	116.987	-57.961	1.00	60.15	KS11	ATOM	16354	CB	VAL	30	213.292	113.603	-62.420	1.00	35.85	KI
ATOM	16302	O	ALA	23	206.971	116.514	-58.472	1.00	60.15	KS11	ATOM	16355	CG1	VAL	30	214.291	113.150	-63.449	1.00	35.85	KI
ATOM	16303	N	SER	24	208.390	116.648	-56.748	1.00	53.62	KS11	ATOM	16356	CG2	VAL	30	213.134	112.550	-61.346	1.00	35.85	KI
ATOM	16304	CA	SER	24	207.639	115.677	-55.967	1.00	53.62	KS11	ATOM	16357	C	VAL	30	213.609	116.050	-62.868	1.00	47.26	KI
ATOM	16305	CB	SER	24	207.918	114.278	-56.494	1.00	21.71	KS11	ATOM	16358	O	VAL	30	212.565	116.696	-62.978	1.00	47.26	KI
ATOM	16306	OG	SER	24	208.167	113.393	-55.422	1.00	21.71	KS11	ATOM	16359	N	THR	31	214.673	116.259	-63.645	1.00	59.16	KI
ATOM	16307	C	SER	24	207.969	115.732	-54.477	1.00	53.62	KS11	ATOM	16360	CA	THR	31	214.639	117.244	-64.730	1.00	59.16	KI
ATOM	16308	O	SER	24	209.142	115.744	-54.094	1.00	53.62	KS11	ATOM	16361	CB	THR	31	215.586	118.407	-64.495	1.00	63.12	KI
ATOM	16309	N	TYR	25	206.935	115.755	-53.638	1.00	124.10	KS11	ATOM	16362	OG1	THR	31	215.189	119.117	-63.321	1.00	63.12	KI
ATOM	16310	CA	TYR	25	207.129	115.814	-52.194	1.00	124.10	KS11	ATOM	16363	CG2	THR	31	215.536	119.349	-65.666	1.00	63.12	KI
ATOM	16311	CB	TYR	25	205.779	115.868	-51.466	1.00	120.15	KS11	ATOM	16364	C	THR	31	215.045	116.593	-66.040	1.00	59.16	KI
ATOM	16312	CG1	TYR	25	205.231	117.274	-51.365	1.00	120.15	KS11	ATOM	16365	O	THR	31	216.043	115.881	-66.100	1.00	59.16	KI
ATOM	16313	CD1	TYR	25	203.892	117.550	-51.644	1.00	120.15	KS11	ATOM	16366	N	ILE	32	214.266	116.843	-67.086	1.00	45.41	KI
ATOM	16314	CE1	TYR	25	203.403	118.862	-51.608	1.00	120.15	KS11	ATOM	16367	CA	ILE	32	214.536	116.282	-68.402	1.00	45.41	KI
ATOM	16315	CD2	TYR	25	206.071	118.342	-51.037	1.00	120.15	KS11	ATOM	16368	CB	ILE	32	213.496	115.270	-68.808	1.00	39.44	KI
ATOM	16316	CE2	TYR	25	205.597	119.650	-50.999	1.00	120.15	KS11	ATOM	16369	CG2	ILE	32	213.819	114.751	-70.190	1.00	39.44	KI
ATOM	16317	CZ	TYR	25	204.264	119.906	-51.288	1.00	120.15	KS11	ATOM	16370	CG1	ILE	32	213.474	114.110	-67.835	1.00	39.44	KI
ATOM	16318	OH	TYR	25	203.808	121.206	-51.276	1.00	120.15	KS11	ATOM	16371	CD1	ILE	32	214.606	113.198	-68.003	1.00	39.44	KI
ATOM	16319	C	TYR	25	207.948	114.648	-51.691	1.00	124.10	KS11	ATOM	16372	C	ILE	32	214.440	117.376	-69.433	1.00	45.41	KI
ATOM	16320	O	TYR	25	207.863	114.275	-50.523	1.00	124.10	KS11	ATOM	16373	O	ILE	32	213.397	118.010	-69.544	1.00	45.41	KI
ATOM	16321	N	ASN	26	208.758	114.084	-52.580	1.00	50.18	KS11	ATOM	16374	N	THR	33	215.499	117.585	-70.205	1.00	66.27	KI
ATOM	16322	CA	ASN	26	209.602	112.958	-52.217	1.00	50.18	KS11	ATOM	16375	CA	THR	33	215.479	118.619	-71.233	1.00	66.27	KI
ATOM	16323	CB	ASN	26	208.856	111.649	-52.371	1.00	53.90	KS11	ATOM	16376	CB	THR	33	216.772	119.448	-71.154	1.00	54.93	KI
ATOM	16324	CG	ASN	26	209.546	110.534	-51.658	1.00	53.90	KS11	ATOM	16377	OG1	THR	33	216.850	120.081	-69.868	1.00	54.93	KI
ATOM	16325	OD1	ASN	26	210.067	110.721	-50.560	1.00	53.90	KS11	ATOM	16378	CG2	THR	33	216.794	120.511	-72.225	1.00	54.93	KI
ATOM	16326	ND2	ASN	26	209.550	109.364	-52.260	1.00	53.90	KS11	ATOM	16379	C	THR	33	215.294	117.977	-72.626	1.00	66.27	KI
ATOM	16327	C	ASN	26	210.938	112.810	-52.920	1.00	50.18	KS11	ATOM	16380	O	THR	33	215.853	116.911	-72.888	1.00	75.20	KI
ATOM	16328	O	ASN	26	211.184	113.374	-53.994	1.00	50.18	KS11	ATOM	16381	N	ASP	34	214.504	118.615	-73.503	1.00	75.20	KI
ATOM	16329	N	ASN	27	211.789	112.016	-52.282	1.00	150.11	KS11	ATOM	16382	CA	ASP	34	214.210	118.083	-74.849	1.00	75.20	KI
ATOM	16330	CA	ASN	27	213.130	111.754	-52.751	1.00	150.11	KS11	ATOM	16383	CB	ASP	34	212.803	117.499	-74.865	1.00	159.54	KI
ATOM	16331	CB	ASN	27	213.546	110.343	-52.383	1.00	90.46	KS11	ATOM	16384	CG	ASP	34	212.626	116.407	-73.856	1.00	159.54	KI
ATOM	16332	CG	ASN	27	213.865	110.230	-50.927	1.00	90.46	KS11	ATOM	16385	OD1	ASP	34	212.810	116.679	-72.654	1.00	159.54	KI
ATOM	16333	OD1	ASN	27	212.968	110.285	-50.083	1.00	90.46	KS11	ATOM	16386	OD2	ASP	34	212.305	115.275	-74.262	1.00	159.54	KI
ATOM	16334	ND2	ASN	27	215.147	110.109	-50.610	1.00	90.46	KS11	ATOM	16387	C	ASP	34	214.304	119.104	-75.983	1.00	75.20	KI
ATOM	16335	C	ASN	27	213.412	112.015	-54.202	1.00	150.11	KS11	ATOM	16388	O	ASP	34	214.630	120.263	-75.745	1.00	75.20	KI
ATOM	16336	O	ASN	27	213.531	111.095	-55.007	1.00	150.11	KS11	ATOM	16389	N	PRO	35	214.018	118.678	-77.238	1.00	96.95	KI
ATOM	16337	N	THR	28	213.516	113.307	-54.487	1.00	49.15	KS11	ATOM	16390	CD	PRO	35	214.018	117.254	-77.631	1.00	88.87	KI
ATOM	16338	CA	THR	28	213.832	113.895	-55.780	1.00	49.15	KS11	ATOM	16391	CA	PRO	35	214.048	119.517	-78.446	1.00	96.95	KI
ATOM	16339	CB	THR	28	214.345	112.878	-56.868	1.00	55.98	KS11	ATOM	16392	CB	PRO	35	214.671	118.586	-79.472	1.00	88.87	KI
ATOM	16340	OG1	THR	28	213.426	111.791	-57.012	1.00	55.98	KS11	ATOM	16393	CG	PRO	35	213.968	117.307	-79.165	1.00	88.87	KI
ATOM	16341	CG2	THR	28	215.719	112.369	-56.525	1.00	55.98	KS11	ATOM	16394	C	PRO	35	212.630	119.944	-78.863	1.00	96.95	KI
ATOM	16342	C	THR	28	212.758	114.724	-56.429	1.00	49.15	KS11	ATOM	16395	O	PRO	35	212.399	121.062	-79.335	1.00	96.95	KI